

# TBD (Key Management Interoperability Protocol Use Cases)

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- None

This specification is related to:

- TBD

## Declared XML Namespace(s):

TBD

## Abstract:

This document is intended for developers and architects who wish to design systems and applications that interoperate using the Key Management Interoperability Protocol specification.

## Status:

This document was last revised or approved by the Key Management Interoperability Protocol TC on the above date. The level of approval is also listed above. Check the "Latest Version" or "Latest Approved Version" location noted above for possible later revisions of this document.

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# 1 Introduction

The purpose of this document is to describe use-cases to demonstrate the Key Management Interoperability Protocol (KMIP). The use-cases shall indicate if all concepts within the protocol are sound and can be used to implement typical scenarios in real life. These use-cases are not intended to fully test an implementation of KMIP. Thus, the use-cases do not contain typical QA scenarios which would stress an implementation. The use-cases are based on v0.98 of the protocol.

The use-cases define a number of client-to-server request-response pairs for a number of operations. For each request-response message pair the operation is stated, along with the relevant parameters needed for the request or response message. This is followed by two different illustrations of the messages: first, a human-readable construction which shows the fields tags, types and values, followed by the TTLV-encoding of the message. These are included to facilitate the implementation of the message creation and parsing functionality. The use-cases show one possible way to construct the messages, and the messages shown are not necessarily the only correct constructions (e.g. the attribute index may or may not be omitted if it is zero). Also note that many values will change dynamically when running the use-cases (the server-generated timestamps, Unique Identifiers and key material in responses, as well as Batch Item ID values in client-generated requests).

## 1.1 Document Roadmap

TBD

## 1.2 Goals and Requirements

TBD

## 1.3 Notational Conventions

TBD

## 1.4 Namespaces

TBD

## 1.5 Terminology

TBD

## 1.6 Normative References

TBD

## 1.7 Non-normative References

TBD

## 1.8 Compliance

TBD

## 2 Message exchange

The message exchange between clients and the server to test the following use-case scenarios shall happen with TTLV encoding over the http transport. This is to facilitate debugging and to focus on KMIP-specific issues instead of potential secure transport setup problems.

## 3 Centralized Management

### 3.1 Basic functionality

These use-cases test the basic features of KMIP including key creation and template registration, attribute functionality, access methods, and batch operation.

#### 3.1.1 Use-case: Create / Destroy

In this use-case the client issues a Create request, whereby the server creates a new symmetric key and returns the Unique Identifier. To clean up, the client then performs a Destroy operation to destroy the key.

Time	Request/Response messages
0	<p>Create (symmetric key)</p> <p>In: objectType='00000002' (Symmetric Key), attributes={ CryptographicAlgorithm='00000003' (AES), CryptographicLength='128', CryptographicUsageMask='0000000C' }</p> <p><a href="#">Tag: Request Message (0x420075), Type: Structure (0x01), Data:</a></p> <p><a href="#">Tag: Request Header (0x420074), Type: Structure (0x01), Data:</a></p> <p><a href="#">Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</a></p> <p><a href="#">Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</a></p> <p><a href="#">Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</a></p> <p><a href="#">Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</a></p> <p><a href="#">Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</a></p> <p><a href="#">Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000001 (Create)</a></p> <p><a href="#">Tag: Request Payload (0x420076), Type: Structure (0x01), Data:</a></p> <p><a href="#">Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)</a></p> <p><a href="#">Tag: Template-Attribute (0x42008E), Type: Structure (0x01), Data:</a></p> <p><a href="#">Tag: Attribute (0x420008), Type: Structure (0x01), Data:</a></p> <p><a href="#">Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Algorithm</a></p> <p><a href="#">Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000003 (AES)</a></p> <p><a href="#">Tag: Attribute (0x420008), Type: Structure (0x01), Data:</a></p> <p><a href="#">Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Length</a></p> <p><a href="#">Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000080 (128)</a></p> <p><a href="#">Tag: Attribute (0x420008), Type: Structure (0x01), Data:</a></p> <p><a href="#">Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage Mask</a></p> <p><a href="#">Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x0000000C (Encrypt, Decrypt)</a></p> <p>42007501000001204200740100000038420067010000002042006802000000040000000000000004200690200000004</p>

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶

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Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create)¶

Tag: Request Payload (0x420074), Type: Structure (0x01), Data: ¶

Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)¶

Tag: Template-Attribute (0x42008D), Type: Structure (0x01), Data: ¶

Tag: Attribute (0x420008), Type: Structure (0x01), Data: ¶

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Algorithm¶

Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000003 (AES)¶

Tag: Attribute (0x420008), Type: Structure (0x01), Data: ¶

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Length¶

Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000080 (128)¶

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Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage Mask¶

Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x0000000C (Encrypt, Decrypt)



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Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
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Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
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Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
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Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 46eca90a-4b20-423c-b968-750f299f0ca

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 000000620000000042008F0900000008000000004AC0731D42000D020000004000000010000000042000F0100000058  
 42005A0500000004000000140000000042007C05000000040000000000000042007901000000304200910700000024  
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 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8E8 (Thu Jul 30 17:14:48 CEST 2009)¶  
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 34366563613930612D346232302D343233632D623936382D37353066323939663063613700000000

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### 3.1.2 Use-case: Register / Create / Get attributes / Destroy

Here the client first registers a template object and then creates a symmetric key using the registered template. To verify that the attributes of the key were set correctly from the template, the client then issues a Get Attributes command, after which it destroys first the key and then the template.

Time	Request/Response messages
0	Register (template) In: objectType='00000007', attributes={ ObjectGroup='Group1', ApplicationSpecificInformation='ssl, www.example.com', ContactInformation='Joe', x-Purpose='demonstration', Name={ NameValue='Template1', NameType='00000001' } }  <u>Tag: Request Message (0x420075), Type: Structure (0x01), Data:</u> <u>Tag: Request Header (0x420074), Type: Structure (0x01), Data:</u> <u>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</u> <u>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</u> <u>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</u> <u>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</u> <u>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</u> <u>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000003 (Register)</u> <u>Tag: Request Payload (0x420076), Type: Structure (0x01), Data:</u> <u>Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000006 (Template)</u> <u>Tag: Template-Attribute (0x42008E), Type: Structure (0x01), Data:</u> <u>Tag: Attribute (0x420008), Type: Structure (0x01), Data:</u> <u>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Group</u>











	<p>Tag: Response Header (0x420077), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC07320 (Mon Sep 28 10:26:08 CEST 2009)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)</p> <p>Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)</p> <p>Tag: Response Payload (0x420079), Type: Structure (0x01), Data:</p> <p>Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 300881c8-596a-48ad-814f-7ce119896608</p> <p>-----</p> <p>42007801000000B04200770100000048420067010000002042006802000000400000000000000042006902000000400000620000000042008F0900000008000000004AC0732042000D020000000400000001000000042000F0100000005842005A0500000004000000140000000042007C05000000040000000000000004200790100000030420091070000002433303038383163382D353936612D343861642D383134662D37636531313938393636303800000000</p>
4	<p><b>Destroy (template)</b> In: uuidTemplate</p> <p>Tag: Request Message (0x420075), Type: Structure (0x01), Data:</p> <p>Tag: Request Header (0x420074), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)</p> <p>Tag: Request Payload (0x420076), Type: Structure (0x01), Data:</p> <p>Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fc3f473-4de4-4248-990e-21e00f7fc006</p> <p>-----</p> <p>42007501000000904200740100000038420067010000002042006802000000400000000000000042006902000000400000620000000042000D0200000004000000010000000042000F010000004842005A050000000400000014000000004200760100000030420091070000002434666333663437332D346465342D343234382D393930652D32316530306637666330303600000000</p> <p><b>Out: uuidTemplate</b></p> <p>Tag: Response Message (0x420078), Type: Structure (0x01), Data:</p> <p>Tag: Response Header (0x420077), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC07320 (Mon Sep 28 10:26:08 CEST 2009)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)</p> <p>Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)</p>

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 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8EB (Thu Jul 30 17:14:51 CEST 2009)¶  
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### 3.1.3 Use-case: Create / Locate / Get / Destroy

This use-case test the Locate and Get operations, in addition to the previously used operations Create and Destroy. A symmetric key is first created, and then a lookup is performed on the Name attribute using the Locate operation. Subsequently, a Get request is issued to retrieve the located key, after which the key on the server is destroyed.

Time	Request/Response messages
0	<p>Create (symmetric key)</p> <p>In: objectType = '00000002', attributes={ Name={ NameValue='Key1', NameType='00000001' }, CryptographicAlgorithm='DES', CryptographicLength='56', CryptographicUsageMask='0000000C', ContactInformation='Joe' }</p> <p>Tag: Request Message (0x420075), Type: Structure (0x01), Data:            Tag: Request Header (0x420074), Type: Structure (0x01), Data:            Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:            Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)            Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)            Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)            Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:            Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000001 (Create)            Tag: Request Payload (0x420076), Type: Structure (0x01), Data:            Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)            Tag: Template-Attribute (0x42008E), Type: Structure (0x01), Data:            Tag: Attribute (0x420008), Type: Structure (0x01), Data:            Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name            Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:            Tag: Name Value (0x420053), Type: Text String (0x07), Data: Key1            Tag: Name Type (0x420052), Type: Enumeration (0x05), Data: 0x00000001 (Uninterpreted text string)            Tag: Attribute (0x420008), Type: Structure (0x01), Data:            Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Algorithm            Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000001 (DES)            Tag: Attribute (0x420008), Type: Structure (0x01), Data:            Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Length            Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000038 (56)            Tag: Attribute (0x420008), Type: Structure (0x01), Data:            Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage Mask</p>

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**Deleted:** 42007601000000B042007701000000484200670100000020420068020000000400000000000000420069020000000400000620000000042008F0900000008000000004AC0732042000D0200000004000000010000000042000F010000005842005A0500000004000000140000000042007C0500000004000000000000000420079010000003042009107000000243466333663437332D346465342D343234382D393930652D32316530306637666330303600000000











```

Tag: Response Message (0x420078), Type: Structure (0x01), Data:
  Tag: Response Header (0x420077), Type: Structure (0x01), Data:
    Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:
      Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)
      Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)
    Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC07323 (Mon Sep 28 10:26:11 CEST 2009)
    Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)
    Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:
      Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000008 (Locate)
      Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)
      Tag: Response Payload (0x420079), Type: Structure (0x01), Data: null
  
```

```

42007801000000804200770100000048420067010000002042006802000000040000000000000000420069020000000400000620000000042008F0900000008000000004AC0732342000D02000000040000001000000042000F010000002842005A050000000400000008000000042007C05000000040000000000000004200790100000000
  
```

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8EC (Thu Jul 30 17:14:52 CEST 2009)¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)¶  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)¶  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data: null

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**Deleted:** 420076010000008042007501000000484200650100000020420066020000000400000000000000000004200670200000004000000620000000042008E0900000008000000004A71B8EC42000D020000000400000010000000042000F010000002842005705000000040000008000000042007A05000000040000000000000004200770100000000

### 3.1.4 Use-case: Dual client use-case, ID Placeholder linked Locate & Get batch

This use-case has two clients performing operations on the same key. The first client initially registers a template and creates a symmetric key using that template. The second client then does a batched Locate and Get using the ID Placeholder to retrieve the key. The second client thereafter performs a number of operations on the key (Get Attribute List, Get Attribute, Add Attribute, Modify Attribute and Delete Attribute), before the first client finally destroys the key and the template. The first client also tries to Get the key and the template after they have been destroyed, but the Get operation fails in both cases.

This use-case demonstrates the fact that two clients may cooperate and use the same managed object while only having knowledge of a single pre-agreed Name attribute value and without having to share any other information. Here, the identities of the two clients are not considered and since we do not include a Authentication field in the header, they could also be considered to be the same client. If the clients authenticate themselves to the server using different credentials, the server would need to employ another policy than the Default policy defined in the KMIP specification on the key object to allow both clients to access it.

Time	Request/Response messages
0	Client A: Register (template) In: objectType='00000007', attributes={ CryptographicAlgorithm='AES', CryptographicLength='128', Name={ NameValue='Template1', NameType='00000001' },}  Tag: Request Message (0x420075), Type: Structure (0x01), Data: Tag: Request Header (0x420074), Type: Structure (0x01), Data: Tag: Protocol Version (0x420067), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)





	<p>Tag: Response Payload (0x420079), Type: Structure (0x01), Data:</p> <p>Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)</p> <p>Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 7fba0849-a3c2-4d8c-81dd-9a199947e47d</p> <p>420078010000000C04200770100000048420067010000002042006802000000040000000000000000420069020000000400000620000000042008F0900000008000000004AC0732442000D020000000400000001000000042000F010000006842005A050000000400000001000000042007C05000000400000000000000004200790100000040420055050000004000000020000000420091070000002437666261303834392D613363322D346438632D383164642D39613139393934376534376400000000</p>
2	<p>Client B:</p> <p>Locate and Get (symmetric key by name)</p> <p>In (header): batchOrderOption='TRUE'</p> <p>In: attributes={ objectType = '00000002', Name={ Name='Key1', NameType='00000001' } }</p> <p>In: &lt;empty Get payload&gt;</p> <p>Tag: Request Message (0x420075), Type: Structure (0x01), Data:</p> <p>Tag: Request Header (0x420074), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Batch Order Option (0x420010), Type: Boolean (0x06), Data: TRUE</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000008 (Locate)</p> <p>Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: 01F76942FF5A7A8A</p> <p>Tag: Request Payload (0x420076), Type: Structure (0x01), Data:</p> <p>Tag: Attribute (0x420008), Type: Structure (0x01), Data:</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type</p> <p>Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)</p> <p>Tag: Attribute (0x420008), Type: Structure (0x01), Data:</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name</p> <p>Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:</p> <p>Tag: Name Value (0x420053), Type: Text String (0x07), Data: Key1</p> <p>Tag: Name Type (0x420052), Type: Enumeration (0x05), Data: 0x00000001 (Uninterpreted text string)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000A (Get)</p> <p>Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: 3192EDD439D59CC4</p> <p>Tag: Request Payload (0x420076), Type: Structure (0x01), Data: null</p> <p>4200750100000120420074010000004842006701000000204200680200000004000000000000000042006902000000040000620000000042001006000000080000000000000142000D0200000004000000020000000042000F010000009842005A05000000040000000800000000420090080000000801F76942FF5A7A8A420076010000007042000801000000284200A070000000B4F626A656374205479706500000000042000B0500000004000000020000000420008010000003842000A07000000044E616D65000000042000B010000002042005307000000044B657931000000042005205000000040000001000000042000F010000002842005A05000000040000000A00000004200900800000083192EDD439D59CC44200760100000000</p> <p>Out: uuidKey</p>

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Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8ED (Thu Jul 30 17:14:53 CEST 2009)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create)¶

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Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

**Deleted:** 4200730100000120420072010000004842006701000000204200680200000004000000000000000042006902000000040000620000000042001006000000080000000000000142000D0200000004000000020000000042000F010000009842005A05000000040000000800000000420090080000000801F76942FF5A7A8A420076010000007042000801000000284200A070000000B4F626A656374205479706500000000042000B0500000004000000020000000420008010000003842000A07000000044E616D65000000042000B010000002042005307000000044B657931000000042005205000000040000001000000042000F010000002842005A05000000040000000A00000004200900800000083192EDD439D59CC44200760100000000

Out: objectType='00000002', uuidKey, symmetricKey

Tag: Response Message (0x420078), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420077), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC07324 (Mon Sep 28 10:26:12 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
 Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: 01F76942FF5A7A8A  
 Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420079), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 7fba0849-a3c2-4d8c-81dd-9a199947e47d  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
 Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: 3192EDD439D59CC4  
 Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420079), Type: Structure (0x01), Data:  
 Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 7fba0849-a3c2-4d8c-81dd-9a199947e47d  
 Tag: Symmetric Key (0x42008C), Type: Structure (0x01), Data:  
 Tag: Key Block (0x42003E), Type: Structure (0x01), Data:  
 Tag: Key Format Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001  
 Tag: Key Value (0x420043), Type: Structure (0x01), Data:  
 Tag: Key Material (0x420041), Type: Octet String (0x08), Data: 5C7B76DC93EF45FD9231522EB2CE7B0A  
 Tag: Cryptographic Algorithm (0x420026), Type: Enumeration (0x05), Data: 0x00000003 (AES)  
 Tag: Cryptographic Length (0x420028), Type: Integer (0x02), Data: 0x00000080 (128)

42007801000001A0420077010000004842006701000000204200680200000004000000000000000042006902000000040000620000000042008F0900000008000000004AC073244200D020000000400000002000000042000F010000006842005A0500000004000000080000000420090080000000801F76942FF5A7A8A42007C05000000040000000000000004200790100000030420091070000002437666261303834392D613363322D346438632D383164642D3961313939393437653437640000000042000F01000000D842005A05000000040000000A0000000042009008000000083192EDD439D59CC442007C050000000400000000000000042007901000000A042005500000004000000020000000420091070000002437666261303834392D613363322D346438632D383164642D396131393939343765343764000000042008C010000005842003E010000050420040050000004000000010000000420043010000001842004108000000105C7B76DC93EF45FD9231522EB2CE7B0A4200260500000004000000030000000042002802000000040000008000000000

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 Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8EE (Thu Jul 30 17:14:54 CEST 2009)¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)¶  
 Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: D5D4DD19F80FA0B5¶  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)¶  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data: ¶  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-47e4-9d8e-2d6fa4d2311e¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation ... [47]

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**Deleted:** 42007601000001A0420075010000004842006701000000204200680200000004000000000000000042006902000000040000620000000042008E0900000008000000004AC073244200D020000000400000002000000042000F010000006842005A0500000004000000080000000420090080000000801F76942FF5A7A8A42007C05000000040000000000000004200790100000030420091070000002437666261303834392D613363322D346438632D383164642D3961313939393437653437640000000042000F01000000D842005A05000000040000000A0000000042009008000000083192EDD439D59CC442007C050000000400000000000000042007901000000A042005500000004000000020000000420091070000002437666261303834392D613363322D346438632D383164642D396131393939343765343764000000042008C010000005842003E010000050420040050000004000000010000000420043010000001842004108000000105C7B76DC93EF45FD9231522EB2CE7B0A4200260500000004000000030000000042002802000000040000008000000000 ... [48]

3 Client B:  
 Get attribute list  
 In: uuidKey

Tag: Request Message (0x420075), Type: Structure (0x01), Data:  
 Tag: Request Header (0x420074), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

	<p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000C (Get Attribute List)</p> <p>Tag: Request Payload (0x420076), Type: Structure (0x01), Data:</p> <p>Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 7fba0849-a3c2-4d8c-81dd-9a199947e47d</p> <hr/> <p>42007501000000904200740100000038420067010000002042006802000000400000000000000042006902000000400000620000000042000D02000000400000001000000042000F010000004842005A0500000040000000C00000004200760100000030420091070000002437666261303834392D613363322D346438632D383164642D39613139393934376534376400000000</p> <p><b>Out: uuidKey, attributes={ * }</b></p> <p>Tag: Response Message (0x420078), Type: Structure (0x01), Data:</p> <p>Tag: Response Header (0x420077), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC07325 (Mon Sep 28 10:26:13 CEST 2009)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000C (Get Attribute List)</p> <p>Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)</p> <p>Tag: Response Payload (0x420079), Type: Structure (0x01), Data:</p> <p>Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 7fba0849-a3c2-4d8c-81dd-9a199947e47d</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Length</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Algorithm</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Digest</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Initial Date</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Unique Identifier</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage Mask</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Contact Information</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Last Changed Date</p> <hr/> <p>42007801000001D04200770100000048420067010000002042006802000000400000000000000042006902000000400000620000000042008F0900000008000000004AC0732542000D02000000400000001000000042000F010000017842005A0500000040000000C000000042007C050000004000000000000000420079010000015042009107000000243766261303834392D613363322D346438632D383164642D3961313939393437653437640000000042000A070000001443727970746F67726170686963204C656E677468000000042000A070000001743727970746F6772617068696320416C676F726974686D0042000A070000005537461746500000042000A070000006446967657374000042000A07000000C496E697469616C20446174650000000042000A0700000011556E69717565204964656E7469666965720000000000000042000A0700000044E616D650000000042000A070000001843727970746F67726170686963205573616765204D61736E42000A07000000B4F626A65637420547970650000000042000A0700000013436F6E7461637420496E666F726D6174696F6E000000042000A07000000114C617374204368616E676564204461746500000000000000</p>
4	Client B:

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶

Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000C (Get Attribute List)¶

Tag: Request Payload (0x420074), Type: Structure (0x01), Data: ¶

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 7fba0849-a3c2-4d8c-81dd-9a199947e47d [49]

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**Deleted:** 4200730100000090420072010000003842006501000000204200660200000004000000000000000000420067020000004000000062000000042000D0200000004000000001000000042000F010000004842005A0500000040000000C000000000420074010000003042008F070000002464313065333564372D383632662D343765342D396438652D3264366661346432333131 [50]

**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶

Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) [51]

**Formatted: English (U.S.)**

**Deleted:** 42007601000001D0420075010000004842006501000000204200660200000004000000000000000000420067020000004000000062000000042008E0900000008000000004A71B8EE4200D02000000400000010000000042000F01000001784200570500000040000000C000000042007A0500000040000000000000420077010000015042008F0700000024643130 [52]





005A0500000004000000B0000000042007C050000000400000000000000042007901000000A84200910700000024376  
66261303834392D613363322D346438632D383164642D3961313939393437653437640000000042000801000000384200  
0A07000000044E616D65000000042000B010000002042005307000000044B65793100000000420052050000000400000  
0010000000042000801000000304200A0700000013436F6E7461637420496E666F726D6174696F6E00000000042000B  
0700000003466F6F0000000000

5

Client B:  
Add attribute [batch]  
In: uuidKey, attribute={ x-attribute1='Value1'}  
In: uuidKey, attribute={ x-attribute2='Value2' }

Tag: Request Message (0x420075), Type: Structure (0x01), Data:  
Tag: Request Header (0x420074), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: 290C75CAE59F3908  
Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 7fba0849-a3c2-4d8c-81dd-9a199947e47d  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Value1  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: BF48C307C95CC22E  
Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 7fba0849-a3c2-4d8c-81dd-9a199947e47d  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Value2

42007501000001604200740100000038420067010000002042006802000000400000000000000042006902000000040  
0000620000000042000D0200000004000000020000000042000F010000008842005A05000000040000000D0000000042  
00900800000008290C75CAE59F390842007601000000060420091070000002437666261303834392D613363322D3464386  
32D383164642D39613139393934376534376400000000420008010000002842000A070000000C782D6174747269627574  
65310000000042000B070000000656616C756531000042000F010000008842005A05000000040000000D0000000042009  
00800000008BF48C307C95CC22E42007601000000060420091070000002437666261303834392D613363322D346438632D  
383164642D39613139393934376534376400000000420008010000002842000A070000000C782D6174747269627574653  
20000000042000B070000000656616C7565320000

Out: uuidKey, attribute={ x-attribute1='Value1'}  
Out: uuidKey, attribute={ x-attribute2='Value2' }

Tag: Response Message (0x420078), Type: Structure (0x01), Data:  
Tag: Response Header (0x420077), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

**Deleted:** 42007601000001284200  
7501000000484200650100000020  
4200660200000004000000000000  
0000420067020000000400000062  
0000000042008E09000000080000  
00004A71B8EE42000D0200000004  
000000010000000042000F010000  
00D042005705000000040000000B  
0000000042007A05000000040000  
0000000000042007701000000A8  
42008F0700000024643130653335  
64372D383632662D343765342D39  
6438652D32643666613464323331  
3165000000004200080100000038  
42000A07000000044E616D650000  
000042000B010000002042005007  
000000044B657931000000004200  
4F05000000040000000100000000  
42000801000000304200A070000  
0013436F6E7461637420496E666F  
726D6174696F6E0000000004200  
0B0700000003466F6F0000000000

**Deleted:** Tag: Request Message  
(0x420073), Type: Structure  
(0x01), Data: ¶  
Tag: Request Header  
(0x420072), Type: Structure  
(0x01), Data: ¶  
Tag: Protocol Version  
(0x420065), Type: Structure  
(0x01), Data: ¶  
Tag: Protocol Version  
Major (0x420066), Type:  
Integer (0x02), Data:  
0x00000000 (0)¶  
Tag: Protocol Version  
Minor (0x420067), Type:  
Integer (0x02), Data:  
0x00000062 (98)¶  
Tag: Batch Count  
(0x42000D), Type: Integer  
(0x02), Data: 0x00000002 (2)¶  
Tag: Batch Item  
(0x42000F), Type: Structure  
(0x01), Data: ¶  
Tag: Operation  
(0x420057), Type:  
Enumeration (0x05), Data:  
0x0000000D (Add Attribute)¶  
Tag: Unique Message ID  
(0x420090), Type: Octet  
String (0x08), Data:  
58E94E8970FFB88B¶ ... [55]

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**Deleted:** 42007301000001604200  
7201000000384200650100000020  
4200660200000004000000000000  
0000420067020000000400000062  
0000000042000D02000000040000  
00020000000042000F0100000088  
42005705000000040000000D0000  
0000420090080000000858E94E89  
70FFB88B42007401000000604200  
8F07000000246431306533356437  
2D383632662D343765342D ... [56]

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Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC07327 (Mon Sep 28 10:26:15 CEST 2009)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute)

Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: FB10B7D6A5F8F02F

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 7fba0849-a3c2-4d8c-81dd-9a199947e47d

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1

Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue1

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute)

Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: 3B5C2DE22A01A87

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 7fba0849-a3c2-4d8c-81dd-9a199947e47d

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2

Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue2

42007801000001A04200770100000048420067010000002042006802000000400000000000000042006902000000400000620000000042008F0900000008000000004AC073274200D02000000400000002000000042000F01000000A042005A05000000040000000F00000004200900800000008FB10B7D6A5F8F02F42007C0500000040000000000000004200790100000068420091070000002437666261303834392D613363322D346438632D383164642D39613139393934376534376400000000420008010000003042000A070000000C782D61747472696275746531000000042000B070000000E4D6F64696669656456616C756531000042000F01000000A042005A0500000040000000F000000042009008000000083B5C2DE22A01A8742007C0500000040000000000000004200790100000068420091070000002437666261303834392D613363322D346438632D383164642D39613139393934376534376400000000420008010000003042000A070000000C782D61747472696275746531000000042000B070000000E4D6F64696669656456616C7565320000

8 Client A:  
 Destroy (symmetric key)  
 In: uuidKey

Tag: Request Message (0x420075), Type: Structure (0x01), Data:

Tag: Request Header (0x420074), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)

Tag: Request Payload (0x420076), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 7fba0849-a3c2-4d8c-81dd-9a199947e47d

4200750100000090420074010000003842006701000000204200680200000040000000000000004200690200000040000062000000004200D02000000400000001000000042000F010000004842005A0500000040000014000000004200760100000030420091070000002437666261303834392D613363322D346438632D383164642D39613139393934376534376400000000

**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶

Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8EF (Thu Jul 30 17:14:55 CEST 2009)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute)¶

Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 71FE1FBB074EFE2F¶

Tag: Result Status (0x42007A), Type: ... [64]

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**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶

Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶

Tag: Protocol Vers ... [66]

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**Deleted:** 4200730100000090420072010000003842006501000000204200660200000040000000000000000004200670200000040000006200000004200D02000000400000000000000000042000F010000004842005A0500000040000000 ... [67]

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Out: uuidKey

Tag: Response Message (0x420078), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420077), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC07327 (Mon Sep 28 10:26:15 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
 Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420079), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 7fba0849-a3c2-4d8c-81dd-9a199947e47d

42007801000000B0420077010000004842006701000000204200680200000004000000000000000042006902000000040000620000000042008F0900000008000000004AC0732742000D0200000004000000010000000042000F0100000005842005A0500000004000000140000000042007C050000000400000000000000004200790100000030420091070000002437666261303834392D613363322D346438632D383164642D39613139393934376534376400000000

9 Client A:  
 Get (symmetric key)  
 In: uuidKey

Tag: Request Message (0x420075), Type: Structure (0x01), Data:  
 Tag: Request Header (0x420074), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
 Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 7fba0849-a3c2-4d8c-81dd-9a199947e47d

4200750100000090420074010000003842006701000000204200680200000004000000000000000042006902000000040000620000000042000F0100000004842005A05000000040000000A000000004200760100000030420091070000002437666261303834392D613363322D346438632D383164642D39613139393934376534376400000000

Out: Operation Failed, Item Not Found

Tag: Response Message (0x420078), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420077), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

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Deleted: Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F0 (Thu Jul 30 17:14:56 CEST 2009)¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)¶  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)¶  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data: ¶  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: ... [68]

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Deleted: 42007601000000B042007501000000484200650100000020420066020000000400000000000000000000420067020000000400000062000000042008E09000000 ... [69]

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Deleted: Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶ ... [70]

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Deleted: 420073010000009042007201000000384200650100000020420066020000000400000000000000000000420067020000000400000062000000042000D02000000 ... [71]

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Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC07327 (Mon Sep 28 10:26:15 CEST 2009)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000A (Get)

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000001 (Failed)

Tag: Result Reason (0x42007B), Type: Enumeration (0x05), Data: 0x00000001 (Item Not Found)

Tag: Result Message (0x42007A), Type: Text String (0x07), Data: No Cryptographic Object found with given Unique Identifier.

42007801000000D042007701000000484200670100000020420068020000000400000000000000042006902000000040000620000000042008F09000000080000000004AC0732742000D02000000040000001000000042000F010000007842005A0500000004000000A0000000042007C050000000400000010000000042007B050000000400000010000000042007A070000003A4E6F2043727970746F67726170686963204F626A65637420666F756E64207769746820676976656E20556E69717565204964656E746966696572000000000000.

10 Client A:  
Destroy (template)  
In: uuidTemplate

Tag: Request Message (0x420075), Type: Structure (0x01), Data:

Tag: Request Header (0x420074), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)

Tag: Request Payload (0x420076), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 8383198b-4600-4388-955f-2802cc699e9c.

420075010000009042007401000000384200670100000020420068020000000400000000000000042006902000000040000620000000042008F09000000080000000004AC0732742000D02000000040000001000000042000F010000007842005A0500000004000000140000000042007C050000000400000010000000042007B050000000400000010000000042007A0700000030420091070000002438333833313938622D343630302D343338382D393535662D3238303263636393965396300000000.

Out: uuidTemplate

Tag: Response Message (0x420078), Type: Structure (0x01), Data:

Tag: Response Header (0x420077), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC07327 (Mon Sep 28 10:26:15 CEST 2009)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 8383198b-4600-4388-955f-

**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F0 (Thu Jul 30 17:14:56 CEST 2009)¶  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)¶  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000001 (Failed)¶  
Tag: Result Reason ... [72]

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**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶ ... [74]

**Deleted:** 4200730100000090420072010000003842006501000000204200660200000004000000000000000000040000620000000042000D02000000040000000000000000042000F0100000004200570500000004000000140000000420074010000003042008F070000002430386639663961.

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## 3.2 Use-case: Asynchronous Locate

This use-case tests the asynchronous capabilities of KMIP using the Locate operation. A key is created, and then a Locate request is sent containing the Name of the created key and with the message header Asynchronous Indicator-field set to True. If the server returns an asynchronous response to the Locate, the client then polls the server until the operation is ready. If the server responded asynchronously, a subsequent Locate operation that is also handled asynchronously is then Cancelled, before the key is finally destroyed.

This use-case shows the use of two clients with the same assumptions as in the use-case described in Section 3.1.4. Since the client cannot force the server to respond asynchronously, a server may respond synchronously to the requests issued at times 1 and 4, in which case the expected response will be the ones shown at times 2 and 5, respectively. In the case of the server not responding asynchronously to the Locate requests, the requests illustrated at time 7 and 8 may be skipped by the client.

Time	Client A
0	<p>Client A: Create (symmetric key)</p> <p>In: objectType = '00000002', attributes={ CryptographicAlgorithm='AES', CryptographicLength='128', Name={ NameValue='Key1', NameType='00000001' }, CryptographicUsageMask='00000004', ObjectGroup='Group1' }</p> <p><u>Tag: Request Message (0x420075), Type: Structure (0x01), Data:</u></p> <p><u>  Tag: Request Header (0x420074), Type: Structure (0x01), Data:</u></p> <p><u>    Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</u></p> <p><u>      Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</u></p> <p><u>      Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</u></p> <p><u>    Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</u></p> <p><u>    Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</u></p> <p><u>      Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000001 (Create)</u></p> <p><u>      Tag: Request Payload (0x420076), Type: Structure (0x01), Data:</u></p> <p><u>        Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)</u></p> <p><u>        Tag: Template-Attribute (0x42008E), Type: Structure (0x01), Data:</u></p> <p><u>          Tag: Attribute (0x420008), Type: Structure (0x01), Data:</u></p> <p><u>            Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Algorithm</u></p> <p><u>            Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000003 (AES)</u></p> <p><u>          Tag: Attribute (0x420008), Type: Structure (0x01), Data:</u></p> <p><u>            Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Length</u></p> <p><u>            Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000080 (128)</u></p> <p><u>          Tag: Attribute (0x420008), Type: Structure (0x01), Data:</u></p> <p><u>            Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name</u></p> <p><u>            Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:</u></p> <p><u>              Tag: Name Value (0x420053), Type: Text String (0x07), Data: Key1</u></p> <p><u>              Tag: Name Type (0x420052), Type: Enumeration (0x05), Data: 0x00000001 (Uninterpreted text string)</u></p> <p><u>          Tag: Attribute (0x420008), Type: Structure (0x01), Data:</u></p> <p><u>            Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage Mask</u></p> <p><u>            Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000004 (Encrypt)</u></p>



Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type  
 Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
 Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
 Tag: Name Value (0x420053), Type: Text String (0x07), Data: Key1  
 Tag: Name Type (0x420052), Type: Enumeration (0x05), Data: 0x00000001 (Uninterpreted text string)

42007501000000E0420074010000004842006701000000204200680200000004000000000000004200690200000040  
 000062000000004200070600000008000000000000000142000D020000000400000001000000042000F010000008842  
 005A050000000400000008000000004200760100000070420008010000002842000A0700000000B4F626A6563742054797  
 06500000000042000B05000000040000000200000000420008010000003842000A07000000044E616D6500000004200  
 0B010000002042005307000000044B6579310000000042005205000000040000000100000000

Out: asyncCorrValue1

Tag: Response Message (0x420078), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420077), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC0781C (Mon Sep 28 10:47:24 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
 Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000002 (Pending)  
 Tag: Asynchronous Correlation Value (0x420006), Type: Octet String (0x08), Data: D1DE142AC6367B4E

4200780100000088420077010000004842006701000000204200680200000004000000000000004200690200000040  
 0000620000000042008F0900000008000000004AC0781C42000D020000000400000001000000042000F010000003042  
 005A0500000004000000080000000042007C05000000040000000200000004200060800000008D1DE142AC6367B4E

2 Client B:  
 Poll\*  
 In: asyncCorrValue1  
 Tag: Request Message (0x420075), Type: Structure (0x01), Data:  
 Tag: Request Header (0x420074), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000001A (Poll)  
 Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  
 Tag: Asynchronous Correlation Value (0x420006), Type: Octet String (0x08), Data: D1DE142AC6367B4E

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Asynchronous Indicator (0x420007), Type: Boolean (0x06), Data: TRUE¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: ... [86]

**Deleted:** 42007301000000E0420072010000004842006701000000204200680200000004000000000000004200690200000040  
 000062000000004200070600000008000000000000000142000D020000000400000001000000042000F010000008842  
 005A050000000400000008000000004200760100000070420008010000002842000A0700000000B4F626A6563742054797  
 06500000000042000B05000000040000000200000000420008010000003842000A07000000044E616D6500000004200  
 0B010000002042005307000000044B6579310000000042005205000000040000000100000000 ... [87]

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶ ... [88]

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**Deleted:** 4200760100000088420075010000004842006701000000204200680200000004000000000000004200690200000040  
 0000620000000042008F0900000008000000004AC0781C42000D020000000400000001000000042000F010000003042  
 005A0500000004000000080000000042007C05000000040000000200000004200060800000008D1DE142AC6367B4E ... [89]

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶ ... [90]



Tag: Response Header (0x420077), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC0781D (Mon Sep 28 10:47:25 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
 Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420079), Type: Structure (0x01), Data:  
 Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 8b961211-97c7-40a6-8664-ed33491dab5c  
 Tag: Symmetric Key (0x42008C), Type: Structure (0x01), Data:  
 Tag: Key Block (0x42003E), Type: Structure (0x01), Data:  
 Tag: Key Format Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001  
 Tag: Key Value (0x420043), Type: Structure (0x01), Data:  
 Tag: Key Material (0x420041), Type: Octet String (0x08), Data: A1DF7B733D8DF7056623FE2D880EF62C  
 Tag: Cryptographic Algorithm (0x420026), Type: Enumeration (0x05), Data: 0x00000003 (AES)  
 Tag: Cryptographic Length (0x420028), Type: Integer (0x02), Data: 0x00000080 (128)

42007801000001204200770100000048420067010000002042006802000000040000000000000042006902000000040000620000000042008F0900000008000000004AC0781D42000D020000000400000001000000042000F01000000C842005A05000000040000000A0000000042007C050000000400000000000000042007901000000A04200550500000004000000000000420091070000002438623936313231312D393763372D343061362D383636342D656433333439316461623563000000042008C010000005842003E0100000050420040050000000400000001000000042004301000000184200410800000010A1DF7B733D8DF7056623FE2D880EF62C42002605000000400000003000000004200280200000040000008000000000

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F1 (Thu Jul 30 17:14:57 CEST 2009)¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)¶  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)¶  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data: ¶  
 Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)¶  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 2f45993b-9af6-4b75-a990-d6211814ea11¶  
 Tag: Symmetric Key (0x42008A), Type: Stru... [95]

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**Deleted:** 42007601000001204200770100000048420067010000002042006802000000040000000000000042006902000000040000620000000042008F0900000008000000004AC0781D42000D020000000400000001000000042000F01000000C842005A05000000040000000A0000000042007C050000000400000000000000042007901000000A042005505000000040000000000000420091070000002438623936313231312D393763372D343061362D383636342D656433333439316461623563000000042008C010000005842003E0100000050420040050000000400000001000000042004301000000184200410800000010A1DF7B733D8DF7056623FE2D880EF62C42002605000000400000003000000004200280200000040000008000000000... [96]

4 Client B:  
 Locate (symmetric key by group)  
 In: asynchronousIndicator='TRUE', attributes={ objectType = '00000002', ObjectGroup='Group1' }

Tag: Request Message (0x420075), Type: Structure (0x01), Data:  
 Tag: Request Header (0x420074), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Asynchronous Indicator (0x420007), Type: Boolean (0x06), Data: TRUE  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
 Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type  
 Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Group



Tag: Response Header (0x420077), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC0781D (Mon Sep 28 10:47:25 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
 Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420079), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 8b961211-97c7-40a6-8664-ed33491dab5c

42007801000000B04200770100000048420067010000002042006802000000400000000000000042006902000000400000620000000042008F090000008000000004AC0781D42000D0200000040000001000000042000F0100000005842005A050000000400000080000000042007C05000000040000000000000004200790100000030420091070000002438623936313231312D393763372D343061362D383636342D65643333343931646162356300000000

6 Client B:  
 Get (symmetric key)  
 In: uuidKey2

Tag: Request Message (0x420075), Type: Structure (0x01), Data:  
 Tag: Request Header (0x420074), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
 Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 8b961211-97c7-40a6-8664-ed33491dab5c

42007501000000904200740100000038420067010000002042006802000000400000000000000042006902000000400000620000000042008F090000008000000004AC0781D42000D0200000040000001000000042000F0100000005842005A050000000400000080000000042007C05000000040000000000000004200790100000030420091070000002438623936313231312D393763372D343061362D383636342D65643333343931646162356300000000

Out: objectType = '00000002', uuidKey2, symmetricKey

Tag: Response Message (0x420078), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420077), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC0781D (Mon Sep 28 10:47:25 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000A (Get)

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8F1 (Thu Jul 30 17:14:57 CEST 2009)¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)¶  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)¶  
 Tag: Response Pay... [103]

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**Deleted:** 42007601000000B04200750100000048420067010000002042006802000000400000000000000042006902000000400000620000000042008F090000008000000004AC0781D42000D0200000040000001000000042000F0100000005842005A050000000400000080000000042007C05000000040000000000000004200790100000030420091070000002438623936313231312D393763372D343061362D383636342D65643333343931646162356300000000... [104]

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶... [105]

**Deleted:** 42007301000000904200720100000038420067010000002042006802000000400000000000000042006902000000400000620000000042008F090000008000000004AC0781D42000D0200000040000001000000042000F0100000005842005A050000000400000080000000042007C05000000040000000000000004200790100000030420091070000002438623936313231312D393763372D343061362D383636342D65643333343931646162356300000000... [106]

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Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 8b961211-97c7-40a6-8664-ed33491dab5c

Tag: Symmetric Key (0x42008C), Type: Structure (0x01), Data:

Tag: Key Block (0x42003E), Type: Structure (0x01), Data:

Tag: Key Format Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001

Tag: Key Value (0x420043), Type: Structure (0x01), Data:

Tag: Key Material (0x420041), Type: Octet String (0x08), Data: A1DF7B733D8DF7056623FE2D880EF62C

Tag: Cryptographic Algorithm (0x420026), Type: Enumeration (0x05), Data: 0x00000003 (AES)

Tag: Cryptographic Length (0x420028), Type: Integer (0x02), Data: 0x00000080 (128)

-----

4200780100000120420077010000004842006701000000204200680200000040000000000000004200690200000040000062000000042008F90000008000000004AC0781D4200D0200000040000001000000042000F01000000C842005A0500000040000000A000000042007C050000004000000000000042007901000000A042005505000000400000000200091070000002438623936313231312D393763372D343061362D383636342D656433333439316461623563000000042008C010000005842003E01000000504200400500000040000001000000042004301000000184200410800000010A1DF7B733D8DF7056623FE2D880EF62C420026050000004000000030000000420028020000004000000800000000Q

**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶

Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8F2 (Thu Jul 30 17:14:58 CEST 2009)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

... [107]

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**Deleted:** 420076010000012042007501000000484200650100000020420066020000004000000000000000062000000042008E090000000800000004A71B8F24200D0200000040000001000000042000F01000000C842005A0500000040000000A000000042007A050000004000000000000042007701000000A04200550500000040000000000042008F070000002432663435393933622D396166362D3

... [108]

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶

Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

... [109]

**Deleted:** 42007301000000E0420072010000004842006501000000204200660200000040000000000000000620000000420007060000000800000000014200D0200000040000001000000042000F01000000C842005A050000004000000080000000420076010000007042000801000000284200A07000000B4F626A6563742054797065000000004200B0500000040000000200000004200801000000384200A0700000044E616D65000000042000B01000000204200530700000044B65793100000004200520500000040000001000000Q

... [110]

7 Client B:  
Locate (symmetric key by name)  
In: asynchronousIndicator='TRUE', attributes={ objectType = '00000002', Name= { Name='Key1', NameType='00000001' } }

Tag: Request Message (0x420075), Type: Structure (0x01), Data:

Tag: Request Header (0x420074), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Asynchronous Indicator (0x420007), Type: Boolean (0x06), Data: TRUE

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000008 (Locate)

Tag: Request Payload (0x420076), Type: Structure (0x01), Data:

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type

Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name

Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:

Tag: Name Value (0x420053), Type: Text String (0x07), Data: Key1

Tag: Name Type (0x420052), Type: Enumeration (0x05), Data: 0x00000001 (Uninterpreted text string)

-----

42007501000000E0420074010000004842006701000000204200680200000040000000000000004200690200000040000062000000042008F90000008000000000000014200D0200000040000001000000042000F01000000C842005A050000004000000080000000420076010000007042000801000000284200A07000000B4F626A6563742054797065000000004200B0500000040000000200000004200801000000384200A0700000044E616D65000000042000B01000000204200530700000044B65793100000004200520500000040000001000000Q

	<p>Out: asyncCorrValue5</p> <p>Tag: Response Message (0x420078), Type: Structure (0x01), Data:  Tag: Response Header (0x420077), Type: Structure (0x01), Data:  Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC0781E (Mon Sep 28 10:47:26 CEST 2009)  Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000002 (Pending)  Tag: Asynchronous Correlation Value (0x420006), Type: Octet String (0x08), Data: D48BDD01A8FFEC80</p> <p>4200780100000088420077010000004842006701000000204200680200000040000000000000004200690200000040000620000000042008F0900000008000000004AC0781E42000D02000000400000010000000042000F010000003042005A05000000400000008000000042007C050000004000000200000004200060800000008D48BDD01A8FFEC80</p>
8	<p>Client B: Cancel In: asyncCorrValue5</p> <p>Tag: Request Message (0x420075), Type: Structure (0x01), Data:  Tag: Request Header (0x420074), Type: Structure (0x01), Data:  Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000019 (Cancel)  Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  Tag: Asynchronous Correlation Value (0x420006), Type: Octet String (0x08), Data: D48BDD01A8FFEC80</p> <p>4200750100000070420074010000003842006701000000204200680200000040000000000000004200690200000040000620000000042000D02000000400000010000000042000F010000002842005A05000000400000019000000004200760100000104200060800000008D48BDD01A8FFEC80</p> <p>Out: asyncCorrValue5, CancelResult='00000001'</p> <p>Tag: Response Message (0x420078), Type: Structure (0x01), Data:  Tag: Response Header (0x420077), Type: Structure (0x01), Data:  Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC0781F (Mon Sep 28 10:47:27 CEST 2009)</p>

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8F2 (Thu Jul 30 17:14:58 CEST 2009)¶  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)¶  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000002 (Pending)¶  
Tag: Asynchronous ... [111]

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**Deleted:** 4200760100000088420075010000004842006701000000204200680200000040000000000000004200690200000040000620000000042008F0900000008000000004AC0781E42000D02000000400000010000000042000F010000003042005A05000000400000008000000042007C050000004000000200000004200060800000008D48BDD01A8FFEC80 ... [112]

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶ ... [113]

**Deleted:** 4200730100000070420072010000003842006701000000204200680200000040000000000000004200690200000040000620000000042000D02000000400000010000000042000F01000000284200570500000040000001900000000420074010000010420006080000008F6E77C5F2C1B74E0

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```

42007801000000B042007701000000484200670100000020420068020000000400000000000000004200690200000040
0000620000000042008F0900000008000000004AC0781F42000D0200000004000000010000000042000F010000005842
005A0500000004000000140000000042007C0500000004000000000000000042007901000000304200910700000024386
23936313231312D393763372D343061362D383636342D65643333343931646162356300000000

```

```

Deleted: 42007601000000B04200
7501000000484200650100000020
4200660200000004000000000000
0000420067020000000400000062
000000042008E09000000080000
00004A71B8F242000D020000004
00000010000000042000F010000
0058420057050000000400000014
000000042007A05000000040000
00000000004200770100000030
42008F0700000024326634353939
33622D396166362D346237352D61
3939302D64363231313831346561
313100000000

```

\* = executed until response is ready

## 4 Key life cycle support

### 4.1 Use-case: Revoke scenario

This use-case tests the revocation aspect of the key life cycle support in KMIP. A key is created and a Get Attribute for the State-attribute reveals that the key is in Pre-active state. the Activation Date is then set, which changes the state to Active. The key is then revoked with a revocation reason of Compromised and the state subsequently changed to Compromised, but this does not stop a client from being able to add, modify and delete attributes or even get the key (since we assume here that the out-of-band registration has been used to make the server aware of the fact that the client is capable of interpreting the attributes of the key and determining what it may or may not do with the key). To clean up, the created key is finally destroyed..

Time	Client A
0	<p>Client A:            Create (symmetric key)            In: objectType = '00000002', attributes={ CryptographicAlgorithm='AES', CryptographicLength='128', Name={ NameValue='Key1', NameType='00000001' }, CryptographicUsageMask='00000004' }</p> <p>Tag: Request Message (0x420075), Type: Structure (0x01), Data:            Tag: Request Header (0x420074), Type: Structure (0x01), Data:            Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:            Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)            Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)            Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)            Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:            Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000001 (Create)            Tag: Request Payload (0x420076), Type: Structure (0x01), Data:            Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)            Tag: Template-Attribute (0x42008E), Type: Structure (0x01), Data:            Tag: Attribute (0x420008), Type: Structure (0x01), Data:            Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Algorithm            Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000003 (AES)            Tag: Attribute (0x420008), Type: Structure (0x01), Data:            Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Length            Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000080 (128)            Tag: Attribute (0x420008), Type: Structure (0x01), Data:            Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name            Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:            Tag: Name Value (0x420053), Type: Text String (0x07), Data: Key1</p>

Tag: Name Type (0x420052), Type: Enumeration (0x05), Data: 0x00000001 (Uninterpreted text string)

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage Mask

Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000004 (Encrypt)

42007501000001604200740100000038420067010000002042006802000000400000000000000042006902000000400000620000000042000D02000000400000001000000042000F010000011842005A050000004000000010000000420076010000010042005505000000400000002000000042008E01000000E8420008010000003042000A070000001743727970746F6772617068696320416C676F726974686D0042000B050000004000000030000000420008010000003042000A070000001443727970746F67726170686963204C656E677468000000042000B020000004000000800000000420008010000003842000A0700000044E616D65000000042000B01000000204200530700000044B65793100000004200520500000400000010000000420008010000003042000A070000001843727970746F67726170686963205573616765204D61736B42000B020000004000000400000000

Out: objectType = '00000002', uuidKey

Tag: Response Message (0x420078), Type: Structure (0x01), Data:

Tag: Response Header (0x420077), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC0781F (Mon Sep 28 10:47:27 CEST 2009)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000001 (Create)

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262

42007801000000C04200770100000048420067010000002042006802000000400000000000000042006902000000400000620000000042008F090000000800000004AC0781F42000D0200000040000001000000042000F010000006842005A0500000040000001000000042007C0500000040000000000000004200790100000040420055050000004000000020000000420091070000002433333364633962392D386537332D346666362D613337622D34323336396635613432363200000000

1 Client A:  
Get attribute  
In: uuidKey, attributeName={'State'}

Tag: Request Message (0x420075), Type: Structure (0x01), Data:

Tag: Request Header (0x420074), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)

Tag: Request Payload (0x420076), Type: Structure (0x01), Data:

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶

Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create)¶

Tag: Request Payload (0x420074), Type: Structure (0x01), Data: ¶

Tag: Object Type (0x420052), Type: ... [119]

**Deleted:** 42007301000001604200720100000038420065010000002042006602000000400000000000000042006702000000400000006200000042000D020000004000000001000000042000F010000011842005505000000400000010000004200740100000100420052050000040000002000000042008D01000000E8420008010000003042000A070000001743727970746F67726170686963205573616765204D61736B42000B020000004000000400000000 ... [120]

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶

Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

**Formatted:** English (U.S.)

**Deleted:** 42007601000000C04200750100000048420065010000002042006602000000400000000000000000420067020000004000000062000000042008E090000000800000000004A71B8F242000D0200000040000001000000042000F010000006842005A0500000040000001000000042007A0500000040000000000042007701000000404200520500000040000000 ... [122]

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State

42007501000000A0420074010000003842006701000000204200680200000040000000000000004200690200000040000062000000042000D02000000400000001000000042000F01000005842005A0500000040000000B00000000420076010000004042009107000000243333364633962392D386537332D346666362D613337622D343233363966356134323632000000042000A07000000055374617465000000

Out: uuidKey, attribute={ State='0000001' }

Tag: Response Message (0x420078), Type: Structure (0x01), Data:

Tag: Response Header (0x420077), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC07820 (Mon Sep 28 10:47:28 CEST 2009)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State

Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000001 (Pre-Active)

42007801000000D8420077010000004842006701000000204200680200000040000000000000004200690200000040000062000000042000F090000000800000004AC078204200D0200000040000001000000042000F010000008042005A0500000040000000B000000042007C050000004000000000000042007901000005842009107000000243333364633962392D386537332D346666362D613337622D3432333639663561343236320000000420008010000002042000A070000000553746174650000042000B050000004000000010000000

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶

Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)¶

Tag: Request Payload (0x420074), Type: Structure (0x01), Data: ¶

Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56¶

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: ... [123]

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**Deleted:** 42007301000000A042007201000000384200650100000020420066020000004000000000000000420067020000004000000062000000042000D02000000400000000010000000042000F0100000584200570500000040000000B0000000420074010000004042008F07000000243232636265313 ... [124]

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶

Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶ ... [125]

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**Deleted:** 42007601000000D8420075010000004842006501000000204200660200000040000000000000004200670200000040000062000000042000D020000000800000004A71B8F342000D0200000040000001000000042000F01000000804200570500000040000000B0000000042007A05000000 ... [126]

2 Client A:  
Add attribute  
In: uuidKey, attribute={ ActivationDate='2' }

Tag: Request Message (0x420075), Type: Structure (0x01), Data:

Tag: Request Header (0x420074), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)

Tag: Request Payload (0x420076), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Activation Date

Tag: Attribute Value (0x42000B), Type: Date-Time (0x09), Data: 0x0000000000000002 (Thu Jan 01 01:00:02 CET 1970).

42007501000000C0420074010000003842006701000000204200680200000004000000000000000420069020000000400000620000000042000D020000000400000001000000042000F010000007842005A05000000040000000D000000004200760100000060420091070000002433333364633962392D386537332D346666362D613337622D3432333639663561343236320000000420008010000002842000A070000000F41637469766174696F6E20446174650042000B0900000008000000000002.

Out: uuidKey, attribute={ ActivationDate='2' }

Tag: Response Message (0x420078), Type: Structure (0x01), Data:

Tag: Response Header (0x420077), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC07820 (Mon Sep 28 10:47:28 CEST 2009).

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Activation Date

Tag: Attribute Value (0x42000B), Type: Date-Time (0x09), Data: 0x0000000000000002 (Thu Jan 01 01:00:02 CET 1970).

42007801000000E0420077010000004842006701000000204200680200000004000000000000000420069020000000400000620000000042008F09000000080000000004AC0782042000D020000000400000001000000042000F010000008842005A05000000040000000D000000042007C05000000040000000000000004200790100000060420091070000002433333364633962392D386537332D346666362D613337622D3432333639663561343236320000000420008010000002842000A070000000F41637469766174696F6E20446174650042000B09000000080000000000000002.

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶

Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)¶

Tag: Request Payload (0x420074), Type: Str... [127]

**Deleted:** 42007301000000C0420072010000003842006701000000204200680200000004000000000000000420069020000000400000620000000042000D020000000400000001000000042000F010000007842005A05000000040000000D000000004200760100000060420091070000002433333364633962392D386537332D346666362D613337622D3432333639663561343236320000000420008010000002842000A070000000F41637469766174696F6E20446174650042000B090000000800000000000002... [128]

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶

Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶ ... [129]

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**Deleted:** 42007601000000E0420075010000004842006701000000204200680200000004000000000000000420069020000000400000620000000042008F09000000080000000004AC0782042000D020000000400000001000000042000F010000008842005A05000000040000000D000000042007C05000000040000000000000004200790100000060420091070000002433333364633962392D386537332D346666362D613337622D3432333639663561343236320000000420008010000002842000A070000000F41637469766174696F6E20446174650042000B090000000800000000000002... [130]

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶

Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶ ... [131]

3 Client A:  
Get attribute  
In: uuidKey, attributeName={ 'State' }

Tag: Request Message (0x420075), Type: Structure (0x01), Data:

Tag: Request Header (0x420074), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)

Tag: Request Payload (0x420076), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State.







Out: objectType = '00000002', uuidKey, symmetricKey

Tag: Response Message (0x420078), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420077), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC07821 (Mon Sep 28 10:47:29 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
 Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420079), Type: Structure (0x01), Data:  
 Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262  
 Tag: Symmetric Key (0x42008C), Type: Structure (0x01), Data:  
 Tag: Key Block (0x42003E), Type: Structure (0x01), Data:  
 Tag: Key Format Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001  
 Tag: Key Value (0x420043), Type: Structure (0x01), Data:  
 Tag: Key Material (0x420041), Type: Octet String (0x08), Data: E6C15B28BB6C7A268E9ADEA471A36F23  
 Tag: Cryptographic Algorithm (0x420026), Type: Enumeration (0x05), Data: 0x00000003 (AES)  
 Tag: Cryptographic Length (0x420028), Type: Integer (0x02), Data: 0x00000080 (128)

420078010000012042007701000000484200670100000020420068020000004000000000000000420069020000000400000620000000042008F0900000008000000004AC0782142000D0200000004000000010000000042000F01000000C842005A05000000040000000A0000000042007C050000000400000000000000042007901000000A04200550500000004000000000000420091070000002433333364633962392D386537332D346666362D613337622D343233363966356134323632000000042008C010000005842003E010000005042004005000000400000010000000042004301000000184200410800000010E6C15B28BB6C7A268E9ADEA471A36F2342002605000000400000003000000004200280200000040000008000000000

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F5 (Thu Jul 30 17:15:01 CEST 2009)¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)¶  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)¶  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data: ¶  
 Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)¶  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56¶  
 Tag: Symmetric Key (0x42008A), Type: Str... [140]

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**Deleted:** 420076010000012042007501000000484200670100000020420068020000004000000000000000420069020000000400000620000000042008F0900000008000000004AC0782142000D0200000004000000010000000042000F01000000C842005A05000000040000000A0000000042007C050000000400000000000000042007901000000A04200550500000004000000000000420091070000002433333364633962392D386537332D346666362D613337622D343233363966356134323632000000042008C010000005842003E010000005042004005000000400000010000000042004301000000184200410800000010E6C15B28BB6C7A268E9ADEA471A36F2342002605000000400000003000000004200280200000040000008000000000 (... [141])

6 Client B:  
 Revoke (symmetric key as compromised)  
 In: uuidKey, RevocationReason='00000002', CompromiseOccurrenceTime='6'

Tag: Request Message (0x420075), Type: Structure (0x01), Data:  
 Tag: Request Header (0x420074), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000013 (Revoke)  
 Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262  
 Tag: Revocation Reason (0x42007E), Type: Structure (0x01), Data:  
 Tag: Revocation Reason Code (0x42007F), Type: Enumeration (0x05), Data: 0x00000002 (Key





Tag: Response Header (0x420077), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC07822 (Mon Sep 28 10:47:30 CEST 2009)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000C (Get Attribute List)

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Length

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Algorithm

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Compromise Occurrence Date

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Compromise Date

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Digest

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Initial Date

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Activation Date

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Revocation Reason

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Unique Identifier

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage Mask

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Last Changed Date

4200780100000228420077010000004842006701000000204200680200000004000000000000000420069020000000400000620000000042008F0900000008000000004AC078224200D0200000004000000100000004200F01000001D042005A05000000040000000C000000042007C050000000400000000000000042007901000001A8420091070000002433333364633962392D386537332D346666362D613337622D3432333639663561343236320000000042000A070000001443727970746F67726170686963204C656E677468000000042000A070000001743727970746F6772617068696320416C676F726974686D0042000A070000005537461746500000042000A070000001A436F6D70726F6D697365204F6363757272656E63652044617465000000000042000A07000000F436F6D70726F6D69736520446174650042000A0700000006446967657374000042000A07000000C496E6974696E16C2044617465000000042000A07000000F41637469766174696F6E20446174650042000A07000000115265766F636174696F6E20526561736F6E000000000000042000A0700000011556E69717565204964656E74696669657200000000000042000A0700000044E616D65000000042000A070000001843727970746F67726170686963205573616765204D61736B42000A07000000B4F626A656374205479706500000000042000A07000000114C617374204368616E676564204461746500000000000000

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶

Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F5 (Thu Jul 30 17:15:01 CEST 2009)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000C (Get Attribute List)¶

Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)¶

Tag: Response Payload (0x420077), Type: Structure (0x01), Data: ¶

Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56¶

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Length¶

Tag: Attribute ... [152]

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**Deleted:** 4200760100000228420077010000004842006701000000204200680200000004000000000000000420069020000000400000620000000042008F0900000008000000004AC078224200D0200000004000000100000004200F01000001D042005A05000000040000000C000000042007C050000000400000000000000042007901000001A8420091070000002433333364633962392D386537332D346666362D613337622D3432333639663561343236320000000042000A070000001443727970746F67726170686963204C656E677468000000042000A070000001743727970746F6772617068696320416C676F726974686D0042000A070000005537461746500000042000A070000001A436F6D70726F6D697365204F6363757272656E63652044617465000000000042000A07000000F436F6D70726F6D69736520446174650042000A0700000006446967657374000042000A07000000C496E6974696E16C2044617465000000042000A07000000F41637469766174696F6E20446174650042000A07000000115265766F636174696F6E20526561736F6E000000000000042000A0700000011556E69717565204964656E74696669657200000000000042000A0700000044E616D65000000042000A070000001843727970746F67726170686963205573616765204D61736B42000A07000000B4F626A656374205479706500000000042000A07000000114C617374204368616E676564204461746500000000000000

9 Client A:  
Get attributes  
In: uuidKey, attributeName = { 'State' }

Tag: Request Message (0x420075), Type: Structure (0x01), Data:

Tag: Request Header (0x420074), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)

Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State

42007501000000A04200740100000038420067010000002042006802000000400000000000000042006902000000400000620000000042000D02000000400000001000000042000F010000005842005A0500000040000000B00000000420076010000004042009107000000243333364633962392D386537332D346666362D613337622D343233363966356134323632000000042000A07000000055374617465000000

Out: uuidKey, attribute={ State='00000004' }

Tag: Response Message (0x420078), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420077), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC07822 (Mon Sep 28 10:47:30 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)  
 Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420079), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State  
 Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000004 (Compromised)

42007801000000D84200770100000048420067010000002042006802000000400000000000000042006902000000400000620000000042008F0900000008000000004AC0782242000D02000000400000001000000042000F010000008042005A0500000040000000B0000000042007C050000000400000000000000420079010000005842009107000000243333364633962392D386537332D346666362D613337622D3432333639663561343236320000000420008010000002042000A070000000553746174650000042000B050000004000000040000000

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)¶  
 Tag: Request Payload (0x420074), Type: Structure (0x01), Data: ¶  
 Tag: Unique Identifier (0x42008F), Type: Text (... [154])

**Deleted:** 42007301000000A0420072010000003842006501000000204200660200000004000000000000000000420067020000004000000062000000042000D02000000400000000000000042000F010000005842009107000000243333364633962392D386537332D346666362D613337622D3432333639663561343236320000000420008010000002042000A070000000553746174650000042000B050000004000000040000000 (... [155])

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Typ (... [156])

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**Deleted:** 42007601000000D8420075010000004842006501000000204200660200000004000000000000000000420067020000004000000062000000042008E090000000800000004A71B8F542000D0200000040000001000000042000F010000008042005A0500000040000000B0000000042007A0500000040000000000000420077010000005842008F070000002432326 (... [157])

10 Client A:  
 Add attribute [batch]  
 In: uuidKey, attribute={ x-attribute1='Value1' }  
 In: uuidKey, attribute={ x-attribute2='Value2' }

Tag: Request Message (0x420075), Type: Structure (0x01), Data:  
 Tag: Request Header (0x420074), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
 Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: 5CD7C98FC5B52FF7  
 Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-







Out: uuidKey, attribute={ x-attribute2='ModifiedValue2' }

Tag: Response Message (0x420078), Type: Structure (0x01), Data:

Tag: Response Header (0x420077), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC07823 (Mon Sep 28 10:47:31 CEST 2009)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000E (Modify Attribute)

Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: C06597C23C952144

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1

Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue1

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000E (Modify Attribute)

Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: 3D9CF6E0445252B8

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2

Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue2

42007801000001A0420077010000004842006701000000204200680200000004000000000000000042006902000000040000620000000042008F0900000008000000004AC0782342000D02000000040000000042000F01000000A042005A05000000040000000E000000004200900800000008C06597C23C95214442007C050000000400000000000000004200790100000068420091070000002433333364633962392D386537332D346666362D613337622D34323336396635613432363200000004200801000000304200A070000000C782D6174747269627574653100000004200B070000000E4D6F64696669656456616C75653200004696669656456616C756531000004200F01000000A042005A05000000040000000E0000000042009008000000083D9CF6E0445252B842007C050000000400000000000000420079010000006842009107000000243333364633962392D386537332D346666362D613337622D34323336396635613432363200000004200801000000304200A070000000C782D6174747269627574653200000004200B070000000E4D6F64696669656456616C7565320000

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶

Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F7 (Thu Jul 30 17:15:03 CEST 2009)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000E (Modify Attribute)¶

Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 1C27761B124BFE06¶

Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)¶

Tag: Response Payload (0x420077), Type: Structure (0x01), Data: ¶

Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56¶

Tag: Attribute ... [164]

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**Deleted:** 42007601000001A0420075010000004842006701000000204200680200000004000000000000000042006902000000040000620000000042008F0900000008000000004AC0782342000D02000000040000000042000F01000000A042005A05000000040000000E000000004200900800000008C06597C23C95214442007C05000000040000000000000000420079010000006842009107000000243333364633962392D386537332D346666362D613337622D34323336396635613432363200000004200801000000304200A070000000C782D6174747269627574653100000004200B070000000E4D6F64696669656456616C7565320000 ... [165]

12 Client A:  
Delete attribute [batch]  
In: uuidKey, attributeNames={ 'x-attribute1' }  
In: uuidKey, attributeNames={ 'x-attribute2' }

Tag: Request Message (0x420075), Type: Structure (0x01), Data:

Tag: Request Header (0x420074), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute)  
 Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: 1A1B48172DF57ABC  
 Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute)  
 Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: B77FD0753B7C95ED  
 Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2

420075010000013042007401000000384200670100000020420068020000004000000000000000420069020000000400000620000000042000D020000000400000002000000042000F010000007042005A050000000400000000F00000000420090800000081A1B48172DF57ABC420076010000004842009107000000243333364633962392D386537332D346666362D613337622D3432333639663561343236320000000042000A070000000C782D6174747269627574653100000000420090F010000007042005A050000000400000000F00000000420090800000008B77FD0753B7C95ED4200760100000004842009107000000024333364633962392D386537332D346666362D613337622D3432333639663561343236320000000042000A070000000C782D6174747269627574653200000000

Out: uuidKey, attributeNames={ 'x-attribute1' }  
 Out: uuidKey, attributeNames={ 'x-attribute2' }

Tag: Response Message (0x420078), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420077), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC07826 (Mon Sep 28 10:47:34 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute)  
 Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: 1A1B48172DF57ABC  
 Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420079), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1  
 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue1  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute)  
 Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: B77FD0753B7C95ED  
 Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420079), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute)¶  
 Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 654B7833A879B8C8¶  
 Tag: Request Payload (0x420074), Type: Structure (0x01), Data: ¶  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56¶  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1¶  
 Tag: Batch Item (0x42000F), Type: Str... [166]

**Deleted:** 4200730100000130420072010000003842006701000000204200680200000040000000000000000420069020000000400000620000000042000D020000000400000002000000042000F010000007042005A050000000400000000F000000004200908000000081A1B48172DF57ABC420076010000004842009107000000243333364633962392D386537332D346666362D613337622D3432333639663561343236320000000042000A070000000C782D6174747269627574653100000000420090F010000007042005A050000000400000000F00000000420090800000008B77FD0753B7C95ED4200760100000004842009107000000024333364633962392D386537332D346666362D613337622D3432333639663561343236320000000042000A070000000C782D6174747269627574653200000000

**Formatted:** Swedish (Finland)



Tag: Key Format Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001

Tag: Key Value (0x420043), Type: Structure (0x01), Data:

Tag: Key Material (0x420041), Type: Octet String (0x08), Data: B6C15B28BB6C7A268E9ADEA471A36F23

Tag: Cryptographic Algorithm (0x420026), Type: Enumeration (0x05), Data: 0x00000003 (AES)

Tag: Cryptographic Length (0x420028), Type: Integer (0x02), Data: 0x00000080 (128)

42007801000001204200770100000048420067010000002042006802000000400000000000000042006902000000400000620000000042008F0900000008000000004AC0782742000D020000004000000010000000042000F01000000C842005A05000000040000000A0000000042007C05000000040000000000000042007901000000A0420055050000000400000000000000420091070000002433333364633962392D386537332D346666362D613337622D343233363966356134323632000000042008C010000005842003E01000000504200400500000004000000010000000042004301000000184200410800000010E6C15B28BB6C7A268E9ADEA471A36F234200260500000004000000030000000042002802000000400000008000000000

14 Client A:  
 Destroy (symmetric key)  
 In: uuidKey

Tag: Request Message (0x420075), Type: Structure (0x01), Data:

Tag: Request Header (0x420074), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)

Tag: Request Payload (0x420076), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262

42007501000000904200740100000038420067010000002042006802000000400000000000000042006902000000400000620000000042000D0200000004000000010000000042000F010000004842005A050000000400000014000000004200760100000030420091070000002433333364633962392D386537332D346666362D613337622D34323336396635613432363200000000

Out: uuidKey

Tag: Response Message (0x420078), Type: Structure (0x01), Data:

Tag: Response Header (0x420077), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC07827 (Mon Sep 28 10:47:35 CEST 2009)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 333dc9b9-8e73-4ff6-a37b-42369f5a4262

**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F7 (Thu Jul 30 17:15:03 CEST 2009)¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation (0x420057), Type: Enumeration (0x05), D... [171]

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**Deleted:** 42007601000001204200750100000048420065010000002042006602000000040000000000000000004200670200000004000000620000000042008E09000000080000004A71B8F742000D020000000400000010000000042000F010000000C842005705000000040... [172]

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Str... [173]

**Deleted:** 420073010000009042007201000000384200650100000020420066020000000400000000000000000000420067020000000400000062000000042000D020000000400000000000000000000000042000F0100000048420057050000000400000014000000042007401000000304... [174]

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Str... [175]

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```

42007801000000B0420077010000004842006701000000204200680200000004000000000000000042006902000000040
00006200000000042008F0900000008000000004AC0782742000D0200000004000000010000000042000F010000005842
005A0500000004000000140000000042007C050000000400000000000000000042007901000000304200910700000024333
33364633962392D386537332D346666362D613337622D34323336396635613432363200000000

```

```

Deleted: 42007601000000B04200
7501000000484200650100000020
4200660200000004000000000000
0000420067020000000400000062
0000000042008E09000000080000
00004A71B8F842000D0200000004
000000010000000042000F010000
0058420057050000000400000014
0000000042007A05000000040000
00000000004200770100000030
42008F0700000024323263626531
34332D666564622D343230392D38
6134332D63303661613965633865
353600000000

```

## 5 Auditing and reporting

### 5.1 Use-case: Get usage allocation scenario

This use-case tests the usage management functionality of KMIP. A key is created and the Activation Date and Protect Stop Date attributes are set in such a way as to allow the Get Usage Allocation operation to be performed. The value of the Usage Limits attribute is set to 1000 bytes, and two subsequent requests for 500 bytes succeed, while a third fails since the usage allocation has been used up. The key is finally destroyed. This use-case shows the use of multiple clients with the assumptions regarding the clients being the same as in the use-case described in Section 3.1.4

Time	Client A
0	<p>Client A:            Create (symmetric key)            In: objectType = '00000002', attributes={ CryptographicAlgorithm='AES', CryptographicLength='128', NameValue={ Name='Key1', NameType='00000001' }, CryptographicUsageMask='00000004' }</p> <p><u>Tag: Request Message (0x420075), Type: Structure (0x01), Data:</u>  <u>Tag: Request Header (0x420074), Type: Structure (0x01), Data:</u>  <u>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</u>  <u>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</u>  <u>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</u>  <u>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</u>  <u>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</u>  <u>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000001 (Create)</u>  <u>Tag: Request Payload (0x420076), Type: Structure (0x01), Data:</u>  <u>Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)</u>  <u>Tag: Template-Attribute (0x42008E), Type: Structure (0x01), Data:</u>  <u>Tag: Attribute (0x420008), Type: Structure (0x01), Data:</u>  <u>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Algorithm</u>  <u>Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000003 (AES)</u>  <u>Tag: Attribute (0x420008), Type: Structure (0x01), Data:</u>  <u>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Length</u>  <u>Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000080 (128)</u>  <u>Tag: Attribute (0x420008), Type: Structure (0x01), Data:</u>  <u>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name</u>  <u>Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:</u>  <u>Tag: Name Value (0x420053), Type: Text String (0x07), Data: Key1</u>  <u>Tag: Name Type (0x420052), Type: Enumeration (0x05), Data: 0x00000001 (Uninterpreted text string)</u></p>



af1547024615

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Activation Date

Tag: Attribute Value (0x42000B), Type: Date-Time (0x09), Data: 0x0000000000000002 (Thu Jan 01 01:00:02 CET 1970)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)

Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: C6CAA6E0C409336F

Tag: Request Payload (0x420076), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-af1547024615

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Protect Stop Date

Tag: Attribute Value (0x42000B), Type: Date-Time (0x09), Data: 0x000000004AC07A80 (Mon Sep 28 10:57:36 CEST 2009)

420075010000016842007401000000384200670100000020420068020000004000000000000004200690200000004000062000000042000D020000000400000002000000042000F01000008842005A050000004000000D000000042009080000008E1AE8A5206CC749A4200760100000060420091070000002434666563336135392D623231372D346162662D383461642D6166313534373032343631350000000420008010000002842000A07000000F41637469766174696F6E20446174650042000B09000000800000000000000242000F010000009042005A050000004000000D000000042009080000008C6CAA6E0C409336F4200760100000068420091070000002434666563336135392D623231372D346162662D383461642D6166313534373032343631350000000420008010000003042000A070000001150726F746563742053746F7020446174650000000000042000B09000000800000004AC07A80

Out: uuidKey, attribute={ ActivationDate='2' }  
Out: uuidKey, attribute={ ProtectStopDate='<NOW+10min>' }

Tag: Response Message (0x420078), Type: Structure (0x01), Data:

Tag: Response Header (0x420077), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC07828 (Mon Sep 28 10:47:36 CEST 2009)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)

Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: E1AE8A5206CC749A

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-af1547024615

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Activation Date

Tag: Attribute Value (0x42000B), Type: Date-Time (0x09), Data: 0x0000000000000002 (Thu Jan 01 01:00:02 CET 1970)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)

Tag: Unique Batch Item ID (0x420090), Type: Octet String (0x08), Data: C6CAA6E0C409336F

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-

Deleted: Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)¶  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)¶  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 2470BEBF04DB1DAA¶  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data: ¶  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411lea64-eef7-4512-ad75-c51650838335¶  
Tag: Attribute (0x420008), Type: Structure (0x01), Data: ¶  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Activation Date¶ [180]

Deleted: 42007301000001684200720100000038420065010000000204200680200000040000000000000004200690200000004000062000000042000D020000000400000002000000042000F01000008842005A050000004000000D000000042009080000008E1AE8A5206CC749A4200760100000060420091070000002434666563336135392D623231372D346162662D383461642D6166313534373032343631350000000420008010000002842000A07000000F41637469766174696F6E20446174650042000B09000000800000000000000242000F010000009042005A050000004000000D000000042009080000008C6CAA6E0C409336F4200760100000068420091070000002434666563336135392D623231372D346162662D383461642D6166313534373032343631350000000420008010000003042000A070000001150726F746563742053746F7020446174650000000000042000B09000000800000004AC07A80 [181]

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	<p>af1547024615</p> <p>Tag: Attribute (0x420008), Type: Structure (0x01), Data:</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Protect Stop Date</p> <p>Tag: Attribute Value (0x42000B), Type: Date-Time (0x09), Data: 0x000000004AC07A80 (Mon Sep 28 10:57:36 CEST 2009)</p> <p>-----</p> <p>4200780100000198420077010000004842006701000000204200680200000004000000000000000420069020000000400000000000000042008F0900000008000000004AC078284200D020000000400000002000000042000F010000009842005A05000000040000000D000000004200900800000008E1AE8A5206CC749A42007C0500000004000000000000004200790100000060420091070000002434666563336135392D623231372D346162662D383461642D6166313534373032343631350000004200801000000284200A070000000F41637469766174696F6E2044617465004200B09000000800000000000000042005A05000000040000000D000000004200900800000008C6CAA6E0C409336F42007C0500000040000000000000004200790100000068420091070000002434666563336135392D623231372D346162662D383461642D61663135343730323436313500000004200801000000304200A070000001150726F746563742053746F7020446174650000000000004200B090000008000000004AC07A80</p>
2	<p>Client A:</p> <p>Add Attribute</p> <p>In: uuidKey, attribute={ UsageLimits={ UsageLimitsTotalBytes='1000' } }</p> <p>-----</p> <p>Tag: Request Message (0x420075), Type: Structure (0x01), Data:</p> <p>Tag: Request Header (0x420074), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)</p> <p>Tag: Request Payload (0x420076), Type: Structure (0x01), Data:</p> <p>Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-af1547024615</p> <p>Tag: Attribute (0x420008), Type: Structure (0x01), Data:</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Usage Limits</p> <p>Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:</p> <p>Tag: Usage Limits Total Bytes (0x420095), Type: Big Integer (0x04), Data: 03E8 (1000)</p> <p>-----</p> <p>42007501000000C8420074010000003842006701000000204200680200000004000000000000000420069020000000400000000000000042008F0900000008000000004AC078284200D020000000400000002000000042000F010000009842005A05000000040000000D000000004200900800000008E1AE8A5206CC749A42007C0500000004000000000000004200790100000068420091070000002434666563336135392D623231372D346162662D383461642D61663135343730323436313500000004200801000000284200A070000000C5573616765204C696D697473000000004200B010000001042009504000000800000000000003E8</p> <p>-----</p> <p>Out: uuidKey, attribute={ UsageLimits={ UsageLimitsTotalBytes='1000', UsageLimitsByteCount='1000' } }</p> <p>-----</p> <p>Tag: Response Message (0x420078), Type: Structure (0x01), Data:</p> <p>Tag: Response Header (0x420077), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC0782A (Mon Sep 28 10:47:38 CEST 2009)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p>

**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶

Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F9 (Thu Jul 30 17:15:05 CEST 2009)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)¶ [182]

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**Deleted:** 42007601000001984200750100000048420065010000002042006602000000040000000000000000004200670200000004000000062000000042008E090000000800000004A71B8F94200D0200000040000002000000042000F0100000009842005705000000040000000D0000000042009008000000082470BEBF04DB1DAA42007A05000000040000000000000042007... [183]

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶

Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶ [184]

**Deleted:** 42007301000000C8420072010000003842006501000000204200660200000004000000000000000000004200670200000004000000062000000042000D02000000040000000010000000042000F010000008042005705000000040000000D00000000420074010000006842008F070000002439343131656136342D656566372D343531322D616437352D633531363530383338333... [185]

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	<p>Tag: Response Header (0x420077), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC0782A (Mon Sep 28 10:47:38 CEST 2009)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000008 (Locate)</p> <p>Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)</p> <p>Tag: Response Payload (0x420079), Type: Structure (0x01), Data:</p> <p>Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-af1547024615</p> <p>42007801000000B0420077010000004842006701000000204200680200000040000000000000004200690200000004000062000000042008F0900000008000000004AC0782A42000D02000000400000001000000004200F010000005842005A05000000400000008000000042007C0500000040000000000000004200790100000030420091070000002434666563336135392D623231372D346162662D383461642D61663135343730323436313500000000</p>
4	<p>Client B:</p> <p>Get (symmetric key)</p> <p>In: uuidKey</p> <p>Tag: Request Message (0x420075), Type: Structure (0x01), Data:</p> <p>Tag: Request Header (0x420074), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000A (Get)</p> <p>Tag: Request Payload (0x420076), Type: Structure (0x01), Data:</p> <p>Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-af1547024615</p> <p>42007501000000904200740100000038420067010000002042006802000000400000000000000042006902000000040000620000000042000D0200000040000000100000004200F010000004842005A0500000040000000A000000004200760100000030420091070000002434666563336135392D623231372D346162662D383461642D61663135343730323436313500000000</p> <p>Out: objectType = '00000002', uuidKey, symmetricKey</p> <p>Tag: Response Message (0x420078), Type: Structure (0x01), Data:</p> <p>Tag: Response Header (0x420077), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC0782A (Mon Sep 28 10:47:38 CEST 2009)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000A (Get)</p>

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶

Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FB (Thu Jul 30 17:15:07 CEST 2009)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)¶

Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)¶

Tag: Response Pay... [190]

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**Deleted:** 42007601000000B042007501000000484200650100000020420066020000004000000000000000000040000000000000062000000042008E0900000008000000004A71B8FB42000D02000000400000001000000004200F0100000005842005705000000400000008000000042007A05000000

... [191]

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶

Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

... [192]

**Deleted:** 4200730100000090420072010000003842006501000000204200660200000040000000000000000000000000062000000042000D02000000040000000000000000004000000004200F01000000484200570500000040000000A0000000420074010000003042008F07000000243934313165613

... [193]

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Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-af1547024615

Tag: Symmetric Key (0x42008C), Type: Structure (0x01), Data:

Tag: Key Block (0x42003E), Type: Structure (0x01), Data:

Tag: Key Format Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001

Tag: Key Value (0x420043), Type: Structure (0x01), Data:

Tag: Key Material (0x420041), Type: Octet String (0x08), Data: 3D41DF1C5C20E272212D86D762A8C7D4

Tag: Cryptographic Algorithm (0x420026), Type: Enumeration (0x05), Data: 0x00000003 (AES)

Tag: Cryptographic Length (0x420028), Type: Integer (0x02), Data: 0x00000080 (128)

4200780100000120420077010000004842006701000000204200680200000040000000000000004200690200000040000062000000042008F090000000800000004AC0782A42000D0200000040000000100000004200F0100000C842005A0500000040000000A0000000042007C050000000400000000000004200790100000A0420055050000004000000020000000420091070000002434666563336135392D623231372D346162662D383461642D616631353437303234363135000000042008C010000005842003E01000000504200400500000040000000100000004200430100000184200410800000103D41DF1C5C20E272212D86D762A8C7D4420026050000004000000030000000420028020000004000000800000000

5 Client B:  
Get usage allocation  
In: uuidKey, UsageLimitsByteCount='500'

Tag: Request Message (0x420075), Type: Structure (0x01), Data:

Tag: Request Header (0x420074), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000011 (Get Usage Allocation)

Tag: Request Payload (0x420076), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-af1547024615

Tag: Usage Limits Byte Count (0x420093), Type: Big Integer (0x04), Data: 01F4 (500)

42007501000000A042007401000000384200670100000020420068020000004000000000000004200690200000040000062000000042008F090000000800000004AC0782A42000D0200000040000000100000004200F0100000C842005A05000000400000001000000042007C050000000400000000000004200790100000A0420055050000004000000020000000420091070000002434666563336135392D623231372D346162662D383461642D616631353437303234363135000000042008C010000005842003E01000000504200400500000040000000100000004200430100000184200410800000103D41DF1C5C20E272212D86D762A8C7D4420026050000004000000030000000420028020000004000000800000000

Out: uuidKey,

Tag: Response Message (0x420078), Type: Structure (0x01), Data:

Tag: Response Header (0x420077), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8FB (Thu Jul 30 17:15:07 CEST 2009)¶  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)¶  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)¶ (... [194])

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**Deleted:** 420076010000012042007501000000484200670100000020420068020000004000000000000004200690200000040000062000000042008F090000000800000004AC0782A42000D0200000040000000100000004200F0100000C842005A0500000040000000042007C050000000400000000000004200790100000A0420055050000004000000020000000420091070000002434666563336135392D623231372D346162662D383461642D616631353437303234363135000000042008C010000005842003E01000000504200400500000040000000100000004200430100000184200410800000103D41DF1C5C20E272212D86D762A8C7D4420026050000004000000030000000420028020000004000000800000000 (... [195])

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶ (... [196])

**Deleted:** 42007301000000A042007201000000384200670100000020420068020000004000000000000004200690200000040000062000000042008F090000000800000004AC0782A42000D0200000040000000100000004200F0100000C842005A05000000400000001000000042007C050000000400000000000004200790100000A0420055050000004000000020000000420091070000002434666563336135392D623231372D346162662D383461642D616631353437303234363135000000042008C010000005842003E01000000504200400500000040000000100000004200430100000184200410800000103D41DF1C5C20E272212D86D762A8C7D4420026050000004000000030000000420028020000004000000800000000 (... [197])

**Deleted:** , UsageLimitsByteCount='500'

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Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC0782A (Mon Sep 28 10:47:38 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000011 (Get Usage Allocation)  
 Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420079), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-af1547024615

42007801000000B0420077010000004842006701000000204200680200000040000000000000042006902000000040000620000000042008F0900000008000000004AC0782A42000D02000000400000001000000042000F010000005842005A05000000400000011000000042007C05000000400000000000004200790100000030420091070000002434666563336135392D623231372D346162662D383461642D61663135343730323436313500000000

6 Client A:  
 Get usage allocation  
 In: uuidKey, UsageLimitsByteCount='500'

Tag: Request Message (0x420075), Type: Structure (0x01), Data:  
 Tag: Request Header (0x420074), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000011 (Get Usage Allocation)  
 Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-af1547024615  
 Tag: Usage Limits Byte Count (0x420093), Type: Big Integer (0x04), Data: 01F4 (500)

42007501000000A0420074010000003842006701000000204200680200000040000000000000042006902000000040000620000000042000D0200000040000001000000042000F010000005842005A05000000400000011000000042007C05000000400000002434666563336135392D623231372D346162662D383461642D616631353437303234363135000000042009304000000080000000000000001F4

Out: uuidKey,

Tag: Response Message (0x420078), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420077), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC0782B (Mon Sep 28 10:47:39 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000011 (Get Usage Allocation)  
 Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FB (Thu Jul 30 17:15:07 CEST 2009)¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation (0x420057), Type: Enumeration (0x05), D... [198]

**Deleted:** 42007601000000C04200750100000048420065010000002042006602000000400000000000000000000062000000042008E09000000080000000040000A71B8FB42000D02000000040000001000000042000F0100000006842005705000000040000011000000042007A0500000004000000000000420077010000004042008F070000002439343... [199]

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Typ... [200]

**Deleted:** 42007301000000A04200720100000038420065010000002042006602000000400000000000000000000062000000042000D0200000040000000000000000000000584200570500000004000000110000000420074010000004042008F070000002439343131656136342D656566372D343531322D616437352D6335313635303833338333... [201]

**Deleted:** UsageLimitsByteCount='500'

Formatted: Swedish (Finland)

	<p>Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-af1547024615</p> <p>42007801000000B0420077010000004842006701000000204200680200000040000000000000042006902000000400000000000042008F0900000008000000004AC0782B42000D0200000040000000100000004200F010000005842005A05000000400000011000000042007C0500000004000000000000004200790100000030420091070000002434666563336135392D623231372D346162662D383461642D61663135343730323436313500000000</p>
7	<p><b>Client C:</b></p> <p><b>Locate (symmetric key by name)</b></p> <p>In: objectType = '00000002', attributes={ Name={ Name='Key1', NameType='00000001'}}</p> <p>Tag: Request Message (0x420075), Type: Structure (0x01), Data:</p> <p>Tag: Request Header (0x420074), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000008 (Locate)</p> <p>Tag: Request Payload (0x420076), Type: Structure (0x01), Data:</p> <p>Tag: Attribute (0x420008), Type: Structure (0x01), Data:</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type</p> <p>Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)</p> <p>Tag: Attribute (0x420008), Type: Structure (0x01), Data:</p> <p>Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name</p> <p>Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:</p> <p>Tag: Name Value (0x420053), Type: Text String (0x07), Data: Key1</p> <p>Tag: Name Type (0x420052), Type: Enumeration (0x05), Data: 0x00000001 (Uninterpreted text string)</p> <p>42007501000000D0420074010000003842006701000000204200680200000040000000000000042006902000000400000000000042008F0900000008000000004AC0782B42000D0200000040000000100000004200F010000008842005A0500000004000000080000000042007C0500000004000000000000004200790100000030420091070000002434666563336135392D623231372D346162662D383461642D61663135343730323436313500000000</p> <p><b>Out: uuidKey</b></p> <p>Tag: Response Message (0x420078), Type: Structure (0x01), Data:</p> <p>Tag: Response Header (0x420077), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC0782B (Mon Sep 28 10:47:39 CEST 2009)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000008 (Locate)</p> <p>Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)</p> <p>Tag: Response Payload (0x420079), Type: Structure (0x01), Data:</p>

**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶

Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8FB (Thu Jul 30 17:15:07 CEST 2009)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000011 (Get Usage)¶ [202]

**Formatted: English (U.S.)**

**Deleted:** 42007601000000C0420075010000004842006501000000204200660200000004000000000000000000420067020000004000000062000000042008E0900000008000000004A71B8FB42000D0200000040000001000000004200F0100000068420057050000000400000011000000042007A050000000400000000000000420077010000004042008F070000002439343 [203]

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶

Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) [204]

**Deleted:** 42007301000000D0420072010000003842006501000000204200660200000004000000000000000000420067020000004000000062000000042008E0200000004000000001000000004200F0100000088420057050000000400000008000000042007401000000704200801000002842000A070000000B4F626A6563742054797065000000004200B0500000004000000 [205]

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	<p>Tag: Cryptographic Algorithm (0x420026), Type: Enumeration (0x05), Data: 0x00000003 (AES)</p> <p>Tag: Cryptographic Length (0x420028), Type: Integer (0x02), Data: 0x00000080 (128)</p> <p>420078010000012042007701000000484200670100000020420068020000004000000000000000420069020000004000062000000042008F090000000800000004AC0782B42000D02000000400000001000000042000F01000000C842005A0500000040000000A000000042007C05000000040000000000000042007901000000A042005505000000400000000200091070000002434666563336135392D623231372D346162662D383461642D6166631353437303234363135000000042008C010000005842003E010000005042004005000000400000001000000042004301000000184200410800000103D41DF1C5C20E272212D86D762A8C7D4420026050000004000000030000000420028020000004000000800000000</p>
9	<p><b>Client C:</b></p> <p><b>Get usage allocation</b></p> <p><b>In: uuidKey, UsageLimitsByteCount='500'</b></p> <p>Tag: Request Message (0x420075), Type: Structure (0x01), Data:</p> <p>Tag: Request Header (0x420074), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000011 (Get Usage Allocation)</p> <p>Tag: Request Payload (0x420076), Type: Structure (0x01), Data:</p> <p>Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-af1547024615</p> <p>Tag: Usage Limits Byte Count (0x420093), Type: Big Integer (0x04), Data: 01F4 (500)</p> <p>42007501000000A0420074010000003842006701000000204200680200000040000000000000004200690200000040000620000000042000D0200000004000000010000000042000F010000005842005A05000000400000011000000004200760100000040420091070000002434666563336135392D623231372D346162662D383461642D616663135343730323436313500000004200930400000008000000000000001F4</p> <p><b>Out: uuidKey</b></p> <p>Tag: Response Message (0x420078), Type: Structure (0x01), Data:</p> <p>Tag: Response Header (0x420077), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</p> <p>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</p> <p>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p> <p>Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x00000004AC0782B (Mon Sep 28 10:47:39 CEST 2009)</p> <p>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</p> <p>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</p> <p>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000011 (Get Usage Allocation)</p> <p>Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000001 (Failed)</p> <p>Tag: Result Reason (0x42007B), Type: Enumeration (0x05), Data: 0x0000000C (Permission Denied)</p> <p>Tag: Result Message (0x42007A), Type: Text String (0x07), Data: Unable to allocate requested byte amount</p> <p>42007801000000B8420077010000004842006701000000204200680200000040000000000000004200690200000040000620000000042008F090000000800000004AC0782B42000D02000000400000001000000042000F01000000604200</p>

**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶

Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8FB (Thu Jul 30 17:15:07 CEST 2009)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)¶

Tag: Result Status ... [210]

**Formatted: English (U.S.)**

**Deleted:** 42007601000001204200750100000048420065010000002042006602000000400000000000000000042006702000000400000000620000000042008E090000008000000004A71B8FB42000D0200000040000001000000042000 ... [211]

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶

Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶

Tag: Protocol Ver ... [212]

**Deleted:** 42007301000000A04200720100000038420065010000002042006602000000400000000000000000042006702000000400000062000000042000D0200000040000000010000000042000F010000005842005705000000400000 ... [213]

**Deleted: , UsageLimitsByteCount='0'**

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶

Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶

Tag: Protocol Ver ... [214]

**Formatted: English (U.S.)**

	5A05000000400000011000000042007C05000000040000001000000042007B05000000040000000C0000000042007A0700000028556E61626C6520746F20616C6C6F6361746520726571756573746564206279746520616D6F756E74
10	<p><b>Client A:</b>  <b>Destroy (symmetric key)</b>  <b>In: uuidKey</b></p> <p><u>Tag: Request Message (0x420075), Type: Structure (0x01), Data:</u>  <u>Tag: Request Header (0x420074), Type: Structure (0x01), Data:</u>  <u>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</u>  <u>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</u>  <u>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</u>  <u>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</u>  <u>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</u>  <u>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)</u>  <u>Tag: Request Payload (0x420076), Type: Structure (0x01), Data:</u>  <u>Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-af1547024615</u></p> <p>420075010000009042007401000000384200670100000020420068020000004000000000000004200690200000004000062000000042000D0200000004000000010000000042000F010000004842005A0500000040000001400000000420076010000003042009107000000243466656336135392D623231372D346162662D383461642D61666313534373032343631350000000</p> <p><b>Out: uuidKey</b></p> <p><u>Tag: Response Message (0x420078), Type: Structure (0x01), Data:</u>  <u>Tag: Response Header (0x420077), Type: Structure (0x01), Data:</u>  <u>Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:</u>  <u>Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)</u>  <u>Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</u>  <u>Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC0782C (Mon Sep 28 10:47:40 CEST 2009)</u>  <u>Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)</u>  <u>Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:</u>  <u>Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)</u>  <u>Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)</u>  <u>Tag: Response Payload (0x420079), Type: Structure (0x01), Data:</u>  <u>Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: 4fec3a59-b217-4abf-84ad-af1547024615</u></p> <p>42007801000000B042007701000000484200670100000020420068020000004000000000000004200690200000004000062000000042008F090000000800000004AC0782C4200D02000000400000001000000042000F010000005842005A05000000400000014000000042007C0500000040000000000000004200790100000030420091070000002434666563336135392D623231372D346162662D383461642D61666313534373032343631350000000</p>

**Deleted:** 42007601000000C04200750100000048420065010000002042006602000000040000000000000000004000000004000000062000000042008E090000000800000004A71B8FC4200D020000004000000010000000042000F01000000006842005705000000400000011000000042007A0500000004000000000000000420077010000004042008F070000002439343131656136342D656566372D343531322D616437352D633531363530383338333335000000042009204000000800000000000000

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶

**Deleted:** 42007301000000904200720100000038420065010000002042006602000000040000000000000000004000000004000000062000000042000D02000000040000000000000048420057050000004000000140000000420074010000003042008F07000000243934313165613

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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

**Formatted: English (U.S.)**  
**Deleted:** 42007601000000B0420075010000004842006501000000204200660200000004000000000000000000000004000000062000000042008E090000000800000000004A71B8FC4200D020000004000000010000000042000F01000000005842005705000000400000014000000042007A05000000

## 6 Key Interchange, Key Exchange



## 6.1 Use-case: Import of a Third-party Key

This use-case tests the import of a foreign key using the Register operation. To validate that the registered key is treated the same as a locally created key, an attribute is added to the key and then modified. Finally, the key is destroyed.

Time	Request/Response messages
0	<p>Register (symmetric key) In: objectType = '00000002', attributes={ CryptographicUsageMask='00000004', foreignSymmetricKey</p> <p>Tag: Request Message (0x420075), Type: Structure (0x01), Data:            Tag: Request Header (0x420074), Type: Structure (0x01), Data:            Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:            Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)            Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)            Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)            Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:            Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000003 (Register)            Tag: Request Payload (0x420076), Type: Structure (0x01), Data:            Tag: Object Type (0x420055), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)            Tag: Template-Attribute (0x42008E), Type: Structure (0x01), Data:            Tag: Attribute (0x420008), Type: Structure (0x01), Data:            Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage Mask            Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000004 (Encrypt)            Tag: Symmetric Key (0x42008C), Type: Structure (0x01), Data:            Tag: Key Block (0x42003E), Type: Structure (0x01), Data:            Tag: Key Format Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001            Tag: Key Value (0x420043), Type: Structure (0x01), Data:            Tag: Key Material (0x420041), Type: Octet String (0x08), Data: 0123456789ABCDEF0123456789ABCDEF            Tag: Cryptographic Algorithm (0x420026), Type: Enumeration (0x05), Data: 0x00000003 (AES)            Tag: Cryptographic Length (0x420028), Type: Integer (0x02), Data: 0x00000080 (128)</p> <p>42007501000001104200740100000038420067010000002042006802000000040000000000000004200690200000004000062000000042000D020000000400000001000000042000F01000000C842005A0500000004000000030000000004007601000000B04200550500000004000000020000000042008E0100000038420008010000003042000A0700000001843727970746F67726170686963205573616765204D61736B42000B02000000040000000040000000042008C010000005842003E01000000504200400500000004000000010000000420043010000001842004108000000100123456789ABCDEF0123456789ABCDEF4200260500000004000000030000000042002802000000040000000800000000</p> <p>Out: uuidKey</p> <p>Tag: Response Message (0x420078), Type: Structure (0x01), Data:            Tag: Response Header (0x420077), Type: Structure (0x01), Data:            Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:            Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)            Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)</p>

**Deleted:** Tag: Request Message (0x420073), Type: Structure (0x01), Data: ¶  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000003 (Register)¶  
 Tag: Request Payload (0x420074), Type: Structure (0x01), Data: ¶  
 Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)¶  
 Tag: Template-Attribute (0x42008D), Type: Structure (0x01), Data: ¶  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data: ¶  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage Mask¶  
 Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000004 (Encrypt)¶  
 Tag: Symmetric Key (0x42008A), Type: Structure (0x01), Data: ¶  
 Tag: Key Bloc... [219]

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**Deleted:** 42007301000001104200720100000038420067010000002042006802000000040000000000000004200690200000004000660200000004000000000000000000042000D020000000400000004000000010000000C842005A05000000040000000300000000042000F01000000040000000B04200550500000004000000020000000042008E0100000038420008010000003042000A0700000001843727970746F67726170686963205573616765204D61736B42000B02000000040000000040000000042008C010000005842003E01000000504200400500000004000000010000000420043010000001842004108000000100123456789ABCDEF0123456789ABCDEF4200260500000004000000030000000042002802000000040000000800000000... [220]

**Deleted:** objectType = '00000002',  
**Formatted:** Swedish (Finland)

Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC0782C (Mon Sep 28 10:47:40 CEST 2009)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x00000003 (Register)

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420079), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: bb806453-5c75-42c2-80bd-4e52f1ceb57b

42007801000000B04200770100000048420067010000002042006802000000400000000000000042006902000000040000620000000042008F0900000008000000004AC0782C42000D0200000040000001000000042000F010000005842005A05000000400000003000000042007C05000000400000000000004200790100000030420091070000002462623830363435332D356337352D343263322D383062642D34653532663163656235376200000000

1 Add attribute

In: uuidKey, attribute={ x-provider='unknown' }

Tag: Request Message (0x420075), Type: Structure (0x01), Data:

Tag: Request Header (0x420074), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)

Tag: Request Payload (0x420076), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: bb806453-5c75-42c2-80bd-4e52f1ceb57b

Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-provider

Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: unknown

42007501000000C04200740100000038420067010000002042006802000000400000000000000042006902000000040000620000000042000D02000000400000001000000042000F010000007842005A0500000040000000D000000004200760100000060420091070000002462623830363435332D356337352D343263322D383062642D346535326631636562353762000000042008010000002842000A07000000A782D70726F766964657200000000000042000B0700000007756E6B6E6F776E00

Out: uuidKey, attribute={ x-provider='unknown' }

Tag: Response Message (0x420078), Type: Structure (0x01), Data:

Tag: Response Header (0x420077), Type: Structure (0x01), Data:

Tag: Protocol Version (0x420067), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420068), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Time Stamp (0x42008F), Type: Date-Time (0x09), Data: 0x000000004AC0782E (Mon Sep 28 10:47:42 CEST 2009)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:

Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)

Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)

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Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶

Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FC (Thu Jul 30 17:15:08 CEST 2009)¶

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶

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Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)¶

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 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-provider  
 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: unknown

42007801000000E04200770100000048420067010000002042006802000000400000000000000042006902000000040000620000000042008F0900000008000000004AC0782E42000D020000000400000001000000042000F010000008842005A05000000040000000D0000000042007C05000000040000000000000004200790100000060420091070000002462623830363435332D356337352D34326332D383062642D346535326631636562353762000000042008010000002842000A07000000A782D70726F76696465720000000000042000B0700000007756E6B6E6F776E0Q

2 Modify attribute  
 In: uuidKey, attribute={ x-provider='third party' }

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 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000E (Modify Attribute)  
 Tag: Request Payload (0x420076), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x420091), Type: Text String (0x07), Data: bb806453-5c75-42c2-80bd-4e52f1ceb57b  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-provider  
 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: third party

42007501000000C84200740100000038420067010000002042006802000000400000000000000042006902000000040000620000000042000D020000000400000001000000042000F010000008042005A05000000040000000E000000004200760100000068420091070000002462623830363435332D356337352D34326332D383062642D346535326631636562353762000000042008010000003042000A07000000A782D70726F76696465720000000000042000B070000000B7468697264207061727479000000000Q

Out: uuidKey, attribute={ x-provider='third party' }

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 Tag: Protocol Version Minor (0x420069), Type: Integer (0x02), Data: 0x00000062 (98)  
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 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x42005A), Type: Enumeration (0x05), Data: 0x0000000E (Modify Attribute)  
 Tag: Result Status (0x42007C), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420079), Type: Structure (0x01), Data:  
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**Deleted:** Tag: Response Message (0x420076), Type: Structure (0x01), Data: ¶  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)¶  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)¶  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8FD (Thu Jul 30 17:15:09 CEST 2009)¶  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)¶  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: ¶  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attri... [225])

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 Tag: Request Header (0x420072), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: ¶  
 Tag: Protocol Version Major (0x420066), Typ... [227]

**Deleted:** 42007301000000C84200720100000038420065010000002042006602000000040000000000000000000420067020000000400000062000000042000D0200000004000000010000000042000F010000008042005705000000040000000E0000000420074010000006842008F070000002465666339653732652D36393232D346233362D383635312D663931613639393234333 (... [228])

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## 7 Vendor Extensions

These use-cases test the handling of unknown message extensions with vendor-specific content.

### 7.1 Use-case: Unrecognized Message Extension with Criticality Indicator false

A create request is issued and the request contains a Message Extension with the Criticality Indicator set to false. The server does not understand the extension, but since it is non-critical, the create request is processed normally. Subsequently, the created key is deleted.

Time	Client A
0	Create (symmetric key) In: objectType='00000002', attributes={ CryptographicAlgorithm='AES', CryptographicLength='128', CryptographicUsageMask='0000000C' }, MessageExtension={ VendorIdentification='Acme', CriticalityIndicator='false', VendorExtension={ tag='0x540001', type='text string', value='na' } } Out: objectType='00000002', uuidKey
1	Destroy (symmetric key) In: uuidKey Out: uuidKey

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### 7.2 Use-case: Unrecognized Message Extension with Criticality Indicator true

A create request is issued and the request contains a Message Extension with the Criticality Indicator set to true. The server does not understand the extension, and since it is critical, the create request fails and an error is returned.

Time	Client A
0	Create (symmetric key) In: objectType='00000002', attributes={ CryptographicAlgorithm='AES', CryptographicLength='128', CryptographicUsageMask='0000000C' }, MessageExtension={ VendorIdentification='Acme', CriticalityIndicator='true', VendorExtension={ tag='0x540001', type='text string', value='na' } } Out: Operation Failed, Feature Not Supported

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## 8 Asymmetric keys

Creation of keys using “Create Key Pair” operation, locating pair using Link attribute.

### 8.1 Use-case: Create a Key Pair

Create a new private/public key pair. Make sure they are linked correctly by issuing Locate commands with the assigned Unique Identifiers. Finally delete both key halves.

Time	Client A
0	Create Key Pair In: commonAttributes={ CryptographicAlgorithm='RSA', CryptographicLength='1024', CryptographicUsageMask='0000000C' }, privateKeyAttributes={ Name={ NameValue='PrivateKey1', NameType='00000001' } }, publicKeyAttributes={ NameValue='PublicKey1', NameType='00000001' } } Out: uuidPrivateKey, uuidPublicKey
1	Locate (Public Key) In: attributes={ objectType='PublicKey', Link={ LinkType='PrivateKeyLink', LinkedObjectIdentifier=uuidPrivateKey } } Out: uuidPublicKey
2	Locate (Private Key) In: attributes={ objectType='PrivateKey', Link={ LinkType='PublicKeyLink', LinkedObjectIdentifier=uuidPublicKey } } Out: uuidPrivateKey
3	Destroy In: uuidPrivateKey Out: uuidPrivateKey
4	Destroy In: uuidPublicKey Out: uuidPublicKey

### 8.2 Use-case: Register Both Halves of a Key Pair

Register a private key and a public key and set the Link attribute to point to each other. Verify the links were set correctly by locating the keys based on the link attributes, and then delete both objects.

Time	Client A
0	Register (Private Key) In: objectType='00000004', attributes={ CryptographicUsageMask='0000000C' }, foreignPrivateKey

	Out: uuidPrivateKey
1	Register (Public Key) In: objectType='00000004', attributes={ CryptographicUsageMask='0000000C', Link={ LinkType='PrivateKeyLink', LinkedObjectIdentifier=uuidPrivateKey } }, foreignPublicKey Out: uuidPublicKey
2	Add attribute In: uuidPrivateKey, attribute={ Link={ LinkType='PublicKeyLink', LinkedObjectIdentifier=uuidPublicKey } } Out: uuidPrivateKey, attribute={ Link={ LinkType='PublicKeyLink', LinkedObjectIdentifier=uuidPublicKey } }
3	Locate (Public Key) In: attributes={ objectType='PublicKey', Link={ LinkType='PrivateKeyLink', LinkedObjectIdentifier=uuidPrivateKey } } Out: uuidPublicKey
4	Locate (Private Key) In: attributes={ objectType='PrivateKey', Link={ LinkType='PublicKeyLink', LinkedObjectIdentifier=uuidPublicKey } } Out: uuidPrivateKey
5	Destroy In: uuidPrivateKey Out: uuidPrivateKey
6	Destroy In: uuidPublicKey Out: uuidPublicKey

## 9 Key Roll-over

These use-cases test manual key roll-over using the “Re-key” operation. In particular, they test the formatting of the Re-key command, the handling and server-side processing of the various Time attributes and the setting of some other attributes that are not automatically copied from the existing key to the new key.

### 9.1 Use-case: Create a Key, Re-key

Create a symmetric key with a specific name, and then use Locate to find the key. After using Re-key to create a new key, verify that the name was removed from the existing key and copied to the new key. Also verify that the key material for the old key can still be retrieved. To clean up, both keys are deleted.

Time	Client A
0	Create (symmetric key) In: objectType='00000002', attributes={ CryptographicAlgorithm='AES', CryptographicLength='128', CryptographicUsageMask='0000000C', Name={ NameValue='rekeyKey', NameType='00000001' } }

	Out: objectType='00000002', uuidKey
1	Locate In: attributes={ Name={ NameValue='rekeyKey', NameType='00000001' } } Out: uuidKey
2	Rekey In: uuidKey Out: uuidNewKey
3	Locate In: attributes={ Name={ NameValue='rekeyKey', NameType='00000001' } } Out: uuidNewKey
4	Get Attribute In: uuidKey, attributeName={'Name'} Out: Operation Failed, Item Not Found
5	Get (symmetric key) In: uuidKey Out: objectType = '00000002', uuidKey, symmetricKey
6	Destroy In: uuidKey Out: uuidKey
7	Destroy In: uuidNewKey Out: uuidNewKey

## 9.2 Use-case: Existing Key Expired, Re-key with Same lifecycle

Create a new symmetric key with a name. Then add the *Activation Date* and *Deactivation Date* attributes based on the timestamp in the response to the Create request. The *Activation Date* should be set in the past and the *Deactivation Date* in the near future. Repeated Get Attribute calls are performed to verify that the state is first "Active", then subsequently "Deactive". Then issue a Re-key request, including an *Activation Date* attribute with the value set to the previously specified *Deactivation Date* of the existing key. Verify from the response that the *Activation Date* and *Deactivation Date* attributes were set correctly (if they are not returned, issue a Get Attribute request). Do a Get Attribute operation to verify that the state of the new key is "Active". To clean up, both keys are deleted.

Time	Client A
0	Create (symmetric key) In: objectType='00000002', attributes={ CryptographicAlgorithm='AES', CryptographicLength='128', CryptographicUsageMask='0000000C' } Out: objectType='00000002', uuidKey



1	Add Activation Date, Deactivation Date attributes based on Timestamp in previous response (batch) In: uuidKey, attribute={ ActivationDate=' <Timestamp in previous response – 365 days>' } In: uuidKey, attribute={ DeactivationDate='<Timestamp in previous response + 2 minutes>' } Out: uuidKey, attribute={ ActivationDate=' <Timestamp in previous response - 1 year>' } Out: uuidKey, attribute={ DeactivationDate=' <Timestamp in previous response + 2 minutes>' }
2	Get Attribute * <i>Repeated until state changes to Deactivated</i> In: uuidKey, attributeName={'State'} Out: uuidKey, attribute={ State='Active' }
3	Get Attribute In: uuidKey, attributeName={'State'} Out: uuidKey, attribute={ State='Deactive' }
4	Rekey In: uuidKey, attribute={ offset='018B8200' (300 days)} Out: uuidNewKey
5	Get Attribute In: uuidNewKey, attributeName={ 'ActivationDate', 'DeactivationDate' } Out: uuidNewKey, attribute={ ActivationDate=' <Value of ActivationTime in existing key + 300 days>', DeactivationDate='<Value of DeactivationDate of existing key + 300 days>' }
6	Get Attribute In: uuidNewKey, attributeName={'State'} Out: uuidNewKey, attribute={ State='Active' }
7	Destroy In: uuidKey Out: uuidKey
8	Destroy In: uuidNewKey Out: uuidNewKey

### 9.3 Use-case: Existing Key Compromised, Re-key with same lifecycle

Create a new symmetric key with the *Activation Date* in the past. Do a Get Attribute operation on the State attribute to verify the key is “Active”. Then revoke the key as compromised, verify that the state has changed to “Compromised”. Create a replacement key using Re-key with the offset set to '0' to indicate that the times will be copied from the existing key. Do a Get Attribute operation to verify that the state of the new key is “Active”. To clean up, both keys are deleted.

Time	Client A
0	Create (symmetric key) In: objectType='00000002', attributes={ CryptographicAlgorithm='AES', CryptographicLength='128', CryptographicUsageMask='0000000C', Name={ NameValue='rekeyKey', NameType='00000001' },

	ActivationDate='2' } Out: objectType='00000002', uuidKey
1	Get Attribute In: uuidKey, attributeName={'State'} Out: uuidKey, attribute={ State='Active' }
2	Revoke (symmetric key as compromised) In: uuidKey, RevocationReason='00000002', CompromiseOccurrenceDate='6' Out: uuidKey
3	Get Attribute In: uuidKey, attributeName={'State'} Out: uuidKey, attribute={ State='Compromised' }
4	Rekey In: uuidKey, offset='0' Out: uuidNewKey
5	Get Attribute In: uuidNewKey, attributeName={'State'} Out: uuidNewKey, attribute={ State='Active' }
6	Destroy In: uuidKey Out: uuidKey
7	Destroy In: uuidNewKey Out: uuidNewKey

## 9.4 Use-case: Create key, Re-key with new lifecycle

Create a symmetric key with a specific name, then use Locate to find the key. After using Re-key to create a new key, verify that the name was removed from the existing key and copied to the new key. To clean up, both keys are deleted.

Time	Client A
0	Create (symmetric key) In: objectType='00000002', attributes={ CryptographicAlgorithm='AES', CryptographicLength='128', CryptographicUsageMask='0000000C', Name={ NameValue='rekeyKey', NameType='00000001' } } Out: objectType='00000002', uuidKey
1	Locate In: attributes={ Name={ NameValue='rekeyKey', NameType='00000001' } } Out: uuidKey

2	Rekey In: uuidKey, attributes={ ActivationDate='0000000043B7B630', ProcessStartDate='0000000043B7B630', ProtectStopDate='000000005E0C7BB0', DeactivationDate='000000005E0C7BB0' } Out: uuidNewKey
3	Get Attribute In: uuidKey, attributeName={'Name'} Out: Operation Failed, Item Not Found
4	Get Attribute In: uuidKey, attributeName={ 'ActivationDate', 'ProcessStartDate', 'ProtectStopDate', 'DeactivationDate' } Out: uuidKey, attribute={ ActivationDate='0000000043B7B630', ProcessStartDate='0000000043B7B630', ProtectStopDate='000000005E0C7BB0', DeactivationDate='000000005E0C7BB0' }
5	Locate In: attributes={ Name={ NameValue='rekeyKey', NameType='00000001' } } Out: uuidNewKey
6	Destroy In: uuidKey Out: uuidKey
7	Destroy In: uuidNewKey Out: uuidNewKey

### 9.5 Use-case: Obtain Lease for Expired Key

Create a symmetric key with a specific name and obtain a lease. Revoke the key with state "Compromised" and re-key the key. Try to obtain a lease on the old key which fails. Locate the new key with the original name. Get the new key and obtain a lease.

Time	Client A	Client B
0	Create (symmetric key) In: objectType='00000002', attributes={ CryptographicAlgorithm='AES', CryptographicLength='128', CryptographicUsageMask='0000000C', Name={ NameValue=' rekeyKey', NameType='00000001' }, ActivationDate='2' } Out: objectType='00000002', uuidKey	
1	Get (symmetric key) In: uuidKey Out: objectType = '00000002', uuidKey, symmetricKey	

2	Obtain Lease In: uuidKey Out: uuidKey, leaseTime, lastChangeDate	
3		Revoke (symmetric key as compromised) In: uuidKey, RevocationReason='00000002', CompromiseOccurrenceDate='6' Out: uuidKey
4		Rekey In: uuidKey, offset='0' Out: uuidNewKey
5	Obtain Lease In: uuidKey Out: Operation Failed, Permission Denied	
6	Locate (symmetric key) In: attributes={ Name={ NameValue='rekeyKey', NameType='00000001' } } Out: uuidNewKey	
7	Get (symmetric key) In: uuidNewKey Out: objectType = '00000002', uuidNewKey, newSymmetricKey	
8	Obtain Lease In: uuidNewKey Out: uuidNewKey, leaseTime, lastChangeDate	
9	Destroy In: uuidKey Out: uuidKey	
10	Destroy In: uuidNewKey Out: uuidNewKey	

## 10 Archival

These use-cases test archiving and locating keys using the off-line indicator. The Archive and Recover operations may be performed asynchronously, in which case the client must Poll the server until the operations complete. The client must also indicate in the request that it supports asynchronous responses.

## 10.1 Use-case: Create a Key, Archive and Recover it

Create a symmetric key with a specified name, then use Locate to find the key and get the key. Archive the key (asynchronous operation, use Poll until it completes) and use Get and Locate on it, but both should fail. Add the Storage Status Mask to the Locate-command, indicating that the server should search in both online and archived storage. The Locate finds the key. Recover the key from the archive (also asynchronous), both Locate and Get succeed.

Time	Client A
0	Create (symmetric key) In: objectType='00000002', attributes={ CryptographicAlgorithm='AES', CryptographicLength='128', CryptographicUsageMask='0000000C', Name={ NameValue='archiveKey', NameType='00000001' } } Out: objectType='00000002', uuidKey
1	Locate In: attributes={ Name={ NameValue='archiveKey', NameType='00000001' } } Out: uuidKey
2	Get (symmetric key) In: uuidKey Out: objectType = '00000002', uuidKey, symmetricKey
3	Archive In: uuidKey, asynchronousIndicator='true' Out: asynchronousCorrelationValue
4	Poll* In: asynchronousCorrelationValue Out: uuidKey
5	Get (symmetric key) In: uuidKey Out: Operation Failed, Item Not Found
6	Locate In: attributes={ Name={ NameValue='archiveKey', NameType='00000001' } } Out: Operation Failed, Item Not Found
7	Locate In: storageStatusMask='00000003', attributes={ Name={ NameValue='archiveKey', NameType='00000001' } } Out: uuidKey
8	Recover In: uuidKey, asynchronousIndicator='true' Out: asynchronousCorrelationValue
9	Poll* In: asynchronousCorrelationValue

	Out: uuidKey
10	Get (symmetric key) In: uuidKey Out: objectType = '00000002', uuidKey, symmetricKey
11	Destroy In: uuidKey Out: uuidKey

---

## A. Acknowledgments

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### Original Authors of the initial contribution:

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Bruce Rich, IBM  
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John Tattan, EMC

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### Participants:

TBD

## B. Revision History

Revision	Date	Editor	Changes Made
ed-0.98	2009-04-28	Mathias Björkqvist	Initial conversion of input document to OASIS format.
ed-0.98	2009-08-06	Mathias Björkqvist	Changes to layout and message content to reflect the recent changes to the KMIP specification, added descriptions to the use-cases for which they were missing.
<a href="#">ed-0.98</a>	<a href="#">2009-09-28</a>	<a href="#">Mathias Björkqvist</a>	<a href="#">Updated messages and TTLV encodings to conform with KMIP specification ed-0.98 rev 17.</a>



Page 7: [1] Deleted	Mathias Björkqvist	9/28/2009 10:29 AM
Tag: Response Message (0x420076), Type: Structure (0x01), Data:		
Tag: Response Header (0x420075), Type: Structure (0x01), Data:		
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Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)		
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)		
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8E7 (Thu Jul 30 17:14:47 CEST 2009)		
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)		
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:		
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create)		
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)		
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:		
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)		
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Page 7: [3] Deleted	Mathias Björkqvist	9/28/2009 10:29 AM
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Tag: Request Header (0x420072), Type: Structure (0x01), Data:		
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:		
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)		
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)		
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)		
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:		
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)		
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Page 7: [4] Deleted	Mathias Björkqvist	9/24/2009 11:09 AM
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Page 9: [5] Deleted	Mathias Björkqvist	9/24/2009 11:21 AM
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Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)		
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)		
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)		
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:		
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000003 (Register)		
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:		
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000006 (Template)		
Tag: Template-Attribute (0x42008D), Type: Structure (0x01), Data:		
Tag: Attribute (0x420008), Type: Structure (0x01), Data:		
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Group		
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Group1		
Tag: Attribute (0x420008), Type: Structure (0x01), Data:		
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Application Specific Identification		
Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:		
Tag: Application Name Space (0x420003), Type: Text String (0x07), Data: ssl		
Tag: Application Identifier (0x420002), Type: Text String (0x07), Data: www.example.com		

Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Contact Information  
 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Joe  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-Purpose  
 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: demonstration  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
 Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
 Tag: Name Value (0x420050), Type: Text String (0x07), Data: Template1  
 Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001  
 (Uninterpreted text string)

Page 9: [6] Deleted	Mathias Björkqvist	9/24/2009 11:22 AM
420073010000001C842007201000000384200650100000020420066020000004000000000000000420067020 0000004000000620000000042000D0200000004000000010000000042000F0100000180420057050000000400 0000030000000042007401000001684200520500000004000000060000000042008D010000015042000801000 0002842000A070000000C4F626A6563742047726F75700000000042000B070000000647726F75703100004200 08010000006042000A07000000234170706C69636174696F6E205370656369666963204964656E74696669636 174696F6E000000000042000B0100000028420003070000000373736C0000000000420002070000000F777777 2E6578616D706C652E636F6D00420008010000003042000A0700000013436F6E7461637420496E666F726D617 4696F6E000000000042000B07000000034A6F65000000000420008010000003042000A0700000009782D5075 72706F7365000000000042000B070000000D64656D6F6E7374726174696F6E00000042000801000000404 2000A07000000044E616D650000000042000B0100000028420050070000000954656D706C617465310000000 00000042004F05000000040000000100000000		

Page 9: [7] Deleted	Mathias Björkqvist	9/24/2009 11:24 AM
Tag: Response Message (0x420076), Type: Structure (0x01), Data: Tag: Response Header (0x420075), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8E9 (Thu Jul 30 17:14:49 CEST 2009) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1) Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000003 (Register) Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success) Tag: Response Payload (0x420077), Type: Structure (0x01), Data: Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000006 (Template) Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 80a5be03-1d2b- 4190-917e-34ed82a661b8		

Page 9: [8] Deleted	Mathias Björkqvist	9/24/2009 11:23 AM
420076010000000C0420075010000004842006501000000204200660200000040000000000000000420067020 0000004000000620000000042008E0900000008000000004A71B8E942000D0200000004000000010000000042 000F01000000684200570500000004000000030000000042007A0500000004000000000000000042007701000 0004042005205000000004000000060000000042008F070000002438306135626530332D316432622D34313930 2D393137652D33346564383261363631623800000000		

Page 10: [9] Deleted	Mathias Björkqvist	9/24/2009 11:26 AM
Tag: Request Message (0x420073), Type: Structure (0x01), Data: Tag: Request Header (0x420072), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1) Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create) Tag: Request Payload (0x420074), Type: Structure (0x01), Data: Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key) Tag: Template-Attribute (0x42008D), Type: Structure (0x01), Data: Tag: Name (0x42004E), Type: Structure (0x01), Data: Tag: Name Value (0x420050), Type: Text String (0x07), Data: Template1		

Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001  
 (Uninterpreted text string)  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic  
 Algorithm  
 Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000003  
 (AES)  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic  
 Length  
 Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000080 (128)  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic  
 Usage Mask  
 Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x0000000C  
 (Encrypt, Decrypt)

<b>Page 11: [10] Deleted</b>	<b>Mathias Björkqvist</b>	<b>9/24/2009 11:26 AM</b>
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Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8E9 (Thu Jul  
 30 17:14:49 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create)  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
 Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric  
 Key)  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 0c24f92a-658a-  
 464a-8964-096acea02cd8

<b>Page 11: [11] Deleted</b>	<b>Mathias Björkqvist</b>	<b>9/24/2009 11:26 AM</b>
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42007601000000C0420075010000004842006501000000204200660200000004000000000000000420067020  
 000000400000006200000000042008E0900000008000000004A71B8E942000D0200000004000000010000000042  
 000F01000000684200570500000004000000010000000042007A050000000400000000000000042007701000  
 000404200520500000004000000020000000042008F070000002430633234663932612D363538612D34363461  
 2D383936342D30393661636561303263643800000000

<b>Page 11: [12] Deleted</b>	<b>Mathias Björkqvist</b>	<b>9/24/2009 11:27 AM</b>
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Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000B (Get  
 Attributes)  
 Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 0c24f92a-658a-  
 464a-8964-096acea02cd8  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Group  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Application  
 Specific Identification  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Contact Information  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-Purpose

<b>Page 11: [13] Deleted</b>	<b>Mathias Björkqvist</b>	<b>9/24/2009 11:27 AM</b>
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4200730100000110420072010000003842006501000000204200660200000004000000000000000420067020  
 000000400000006200000000042000D0200000004000000010000000042000F01000000C8420057050000000400  
 00000B0000000042007401000000B042008F070000002430633234663932612D363538612D343634612D38393  
 6342D3039366163656130326364380000000042000A0700000000C4F626A6563742047726F7570000000004200

0A07000000234170706C69636174696F6E205370656369666963204964656E74696669636174696F6E00000000  
00042000A0700000013436F6E7461637420496E666F726D6174696F6E000000000042000A0700000009782D50  
7572706F736500000000000000

Page 12: [14] Deleted	Mathias Björkqvist	9/24/2009 11:28 AM
Tag: Response Message (0x420076), Type: Structure (0x01), Data:		
Tag: Response Header (0x420075), Type: Structure (0x01), Data:		
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:		
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)		
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)		
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8EA (Thu Jul 30 17:14:50 CEST 2009)		
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)		
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:		
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)		
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)		
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:		
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 0c24f92a-658a-464a-8964-096acea02cd8		
Tag: Attribute (0x420008), Type: Structure (0x01), Data:		
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Group		
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Group1		
Tag: Attribute (0x420008), Type: Structure (0x01), Data:		
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Application Specific Identification		
Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:		
Tag: Application Name Space (0x420003), Type: Text String (0x07), Data: ssl		
Tag: Application Identifier (0x420002), Type: Text String (0x07), Data: www.example.com		
Tag: Attribute (0x420008), Type: Structure (0x01), Data:		
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Contact Information		
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Joe		
Tag: Attribute (0x420008), Type: Structure (0x01), Data:		
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-Purpose		
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: demonstration		

Page 12: [15] Deleted	Mathias Björkqvist	9/24/2009 11:28 AM
42007601000001B842007501000000484200650100000020420066020000004000000000000000420067020 00000040000000620000000042008E0900000008000000004A71B8EA42000D0200000004000000010000000042 000F010000016042005705000000040000000B0000000042007A050000000400000000000000042007701000 0013842008F070000002430633234663932612D363538612D343634612D383936342D30393661636561303263 643800000000420008010000002842000A070000000C4F626A6563742047726F75700000000042000B0700000 00647726F7570310000420008010000006042000A07000000234170706C69636174696F6E2053706563696669 63204964656E74696669636174696F6E00000000042000B0100000028420003070000000373736C00000000 0420002070000000F777772E6578616D706C652E636F6D0420008010000003042000A0700000013436F6E74 61637420496E666F726D6174696F6E00000000042000B07000000034A6F6500000000042000801000000304 2000A0700000009782D507572706F7365000000000000042000B070000000D64656D6F6E7374726174696F6E 000000		

Page 12: [16] Deleted	Mathias Björkqvist	9/24/2009 11:35 AM
Tag: Request Message (0x420073), Type: Structure (0x01), Data:		
Tag: Request Header (0x420072), Type: Structure (0x01), Data:		
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:		
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)		
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)		
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)		
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:		
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)		
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:		
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 0c24f92a-658a-464a-8964-096acea02cd8		

Page 13: [17] Deleted	Mathias Björkqvist	9/24/2009 11:35 AM
Tag: Response Message (0x420076), Type: Structure (0x01), Data:		
Tag: Response Header (0x420075), Type: Structure (0x01), Data:		

Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
   Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
   Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8EA (Thu Jul 30 17:14:50 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
   Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
   Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
   Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
     Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 0c24f92a-658a-464a-8964-096acea02cd8

**Page 13: [18] Deleted Mathias Björkqvist 9/24/2009 11:35 AM**

42007601000000B042007501000000484200650100000020420066020000000400000000000000004200670200000040000000620000000042008E0900000008000000004A71B8EA4200D020000000400000001000000004200F01000000584200570500000004000000140000000042007A05000000040000000000000000420077010000003042008F070000002430633234663932612D363538612D343634612D383936342D30393661636561303263643800000000

**Page 13: [19] Deleted Mathias Björkqvist 9/24/2009 11:35 AM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
   Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
     Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
       Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
       Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
     Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
   Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
     Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
     Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
       Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 80a5be03-1d2b-4190-917e-34ed82a661b8

**Page 13: [20] Deleted Mathias Björkqvist 9/24/2009 11:36 AM**

42007301000000904200720100000038420065010000002042006602000000040000000000000000420067020000004000000062000000004200D020000000400000001000000004200F01000000484200570500000004000000140000000042007A010000003042008F070000002438306135626530332D316432622D343139302D393137652D33346564383261363631623800000000

**Page 15: [21] Deleted Mathias Björkqvist 9/24/2009 11:52 AM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
   Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
     Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
       Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
       Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
     Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
   Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
     Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create)  
     Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
       Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
       Tag: Template-Attribute (0x42008D), Type: Structure (0x01), Data:  
         Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
           Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
           Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
             Tag: Name Value (0x420050), Type: Text String (0x07), Data: Key1  
             Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001 (Uninterpreted text string)  
           Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
             Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Algorithm  
             Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000001 (DES)  
           Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
             Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Length  
             Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000038 (56)

Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic  
Usage Mask  
Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x0000000C  
(Encrypt, Decrypt)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Contact  
Information  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Joe

**Page 15: [22] Deleted Mathias Björkqvist 9/24/2009 11:52 AM**

420073010000019842007201000000384200650100000020420066020000004000000000000000420067020  
0000004000000620000000042000D0200000004000000010000000042000F0100000150420057050000000400  
0000010000000042007401000001384200520500000004000000020000000042008D010000012042000801000  
0003842000A07000000044E616D650000000042000B010000002042005007000000044B657931000000004200  
4F05000000040000000100000000420008010000003042000A070000001743727970746F67726170686963204  
16C676F726974686D0042000B05000000040000000100000000420008010000003042000A0700000014437279  
70746F67726170686963204C656E677468000000042000B02000000040000003800000000420008010000003  
042000A070000001843727970746F67726170686963205573616765204D61736B42000B02000000040000000C  
0000000420008010000003042000A0700000013436F6E7461637420496E666F726D6174696F6E00000000004  
2000B07000000034A6F650000000000

**Page 15: [23] Deleted Mathias Björkqvist 9/24/2009 11:52 AM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8EB (Thu Jul  
30 17:14:51 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric  
Key)  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d515c861-779c-  
4449-a745-e9e91f950249

**Page 15: [24] Deleted Mathias Björkqvist 9/24/2009 11:52 AM**

42007601000000C0420075010000004842006501000000204200660200000040000000000000000420067020  
0000004000000620000000042008E090000000080000000004A71B8EB42000D020000000400000001000000004  
000F01000000684200570500000004000000010000000042007A0500000004000000000000000042007701000  
0004042005205000000004000000020000000042008F070000002464353135633836312D373739632D34343439  
2D613734352D65396539316639353032343900000000

**Page 16: [25] Deleted Mathias Björkqvist 9/24/2009 11:53 AM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type  
Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002  
(Symmetric Key)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
Tag: Name Value (0x420050), Type: Text String (0x07), Data: Key1

Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001  
(Uninterpreted text string)

**Page 16: [26] Deleted** **Mathias Björkqvist** **9/24/2009 11:53 AM**  
42007301000000D04200720100000038420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042000D0200000004000000010000000042000F0100000088420057050000000400  
00000800000004200740100000070420008010000002842000A070000000B4F626A656374205479706500000  
0000042000B05000000040000000200000000420008010000003842000A07000000044E616D65000000004200  
0B010000002042005007000000044B6579310000000042004F05000000040000000100000000

**Page 16: [27] Deleted** **Mathias Björkqvist** **9/24/2009 11:53 AM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8EC (Thu Jul  
30 17:14:52 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d515c861-779c-  
4449-a745-e9e91f950249

**Page 16: [28] Deleted** **Mathias Björkqvist** **9/24/2009 11:53 AM**  
42007601000000B04200750100000048420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8EC42000D0200000004000000010000000042  
000F01000000584200570500000004000000080000000042007A0500000004000000000000000042007701000  
0003042008F070000002464353135633836312D373739632D343434392D613734352D65396539316639353032  
343900000000

**Page 16: [29] Deleted** **Mathias Björkqvist** **9/24/2009 11:54 AM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d515c861-779c-  
4449-a745-e9e91f950249

**Page 17: [30] Deleted** **Mathias Björkqvist** **9/24/2009 11:54 AM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8EC (Thu Jul  
30 17:14:52 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric  
Key)  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d515c861-779c-  
4449-a745-e9e91f950249  
Tag: Symmetric Key (0x42008A), Type: Structure (0x01), Data:  
Tag: Key Block (0x42003C), Type: Structure (0x01), Data:  
Tag: Key Value Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001

Tag: Key Value (0x42003F), Type: Structure (0x01), Data:  
Tag: Key Material (0x42003D), Type: Octet String (0x08), Data:  
5BEAC8405BA41015  
Tag: Cryptographic Algorithm (0x420025), Type: Enumeration (0x05), Data:  
0x00000001 (DES)  
Tag: Cryptographic Length (0x420026), Type: Integer (0x02), Data: 0x00000038  
(56)

**Page 17: [31] Deleted Mathias Björkqvist 9/24/2009 11:54 AM**

42007601000001184200750100000048420065010000002042006602000000040000000000000000420067020  
00000040000000620000000042008E0900000008000000004A71B8EC42000D0200000004000000010000000042  
00F01000000C042005705000000040000000A0000000042007A0500000004000000000000000042007701000  
00098420052050000000400000002000000042008F070000002464353135633836312D373739632D34343439  
2D613734352D6539653931663935303234390000000042008A010000005042003C01000000484200400500000  
00400000001000000042003F010000001042003D08000000085BEAC8405BA410154200250500000004000000  
010000000042002602000000040000003800000000

**Page 18: [32] Deleted Mathias Björkqvist 9/24/2009 11:55 AM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d515c861-779c-  
4449-a745-e9e91f950249

**Page 18: [33] Deleted Mathias Björkqvist 9/24/2009 11:55 AM**

42007301000000904200720100000038420065010000002042006602000000040000000000000000420067020  
00000040000000620000000042000D0200000004000000010000000042000F0100000048420057050000000400  
00001400000000420074010000003042008F070000002464353135633836312D373739632D343434392D61373  
4352D65396539316639353032343900000000

**Page 18: [34] Deleted Mathias Björkqvist 9/24/2009 11:55 AM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8EC (Thu Jul  
30 17:14:52 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d515c861-779c-  
4449-a745-e9e91f950249

**Page 18: [35] Deleted Mathias Björkqvist 9/24/2009 11:55 AM**

42007601000000B04200750100000048420065010000002042006602000000040000000000000000420067020  
00000040000000620000000042008E0900000008000000004A71B8EC42000D0200000004000000010000000042  
000F01000000584200570500000004000000140000000042007A0500000004000000000000000042007701000  
0003042008F070000002464353135633836312D373739632D343434392D613734352D65396539316639353032  
343900000000

**Page 18: [36] Deleted Mathias Björkqvist 9/24/2009 11:59 AM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)



Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Unique Identifier  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: d515c861-779c-4449-a745-e9e91f950249

**Page 18: [37] Deleted Mathias Björkqvist 9/24/2009 11:59 AM**

42007301000000B84200720100000038420065010000002042006602000000040000000000000000420067020  
00000040000000620000000042000D0200000004000000010000000042000F01000000704200570500000000400  
000008000000004200740100000058420008010000005042000A0700000011556E69717565204964656E74696  
66965720000000000000042000B070000002464353135633836312D373739632D343434392D613734352D6539  
6539316639353032343900000000

**Page 20: [38] Deleted Mathias Björkqvist 9/24/2009 12:15 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000003 (Register)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000006 (Template)  
Tag: Template-Attribute (0x42008D), Type: Structure (0x01), Data:  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic  
Algorithm  
Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000003  
(AES)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic  
Length  
Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000080 (128)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
Tag: Name Value (0x420050), Type: Text String (0x07), Data: Template1  
Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001  
(Uninterpreted text string)

**Page 20: [39] Deleted Mathias Björkqvist 9/24/2009 12:15 PM**

42007301000001304200720100000038420065010000002042006602000000040000000000000000420067020  
00000040000000620000000042000D0200000004000000010000000042000F01000000E84200570500000000400  
0000030000000042007401000000D04200520500000004000000060000000042008D01000000B842000801000  
0003042000A070000001743727970746F6772617068696320416C676F726974686D0042000B050000000040000  
000300000000420008010000003042000A070000001443727970746F67726170686963204C656E6774680000  
00042000B02000000040000008000000000420008010000004042000A07000000044E616D650000000042000B  
0100000028420050070000000954656D706C617465310000000000000042004F050000000400000001000000  
0

**Page 20: [40] Deleted Mathias Björkqvist 9/24/2009 12:16 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8ED (Thu Jul  
30 17:14:53 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000003 (Register)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)

Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000006 (Template)  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 08f9f9a2-3691-40b6-baa9-dc6a116c74bb

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**Page 20: [41] Deleted** **Mathias Björkqvist** **9/24/2009 12:15 PM**  
42007601000000C04200750100000048420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8ED42000D0200000004000000010000000042  
000F01000000684200570500000004000000030000000042007A0500000004000000000000000042007701000  
000404200520500000004000000060000000042008F070000002430386639663961322D333639312D34306236  
2D626161392D64633661313136633734626200000000

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**Page 21: [42] Deleted** **Mathias Björkqvist** **9/24/2009 12:16 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
Tag: Template-Attribute (0x42008D), Type: Structure (0x01), Data:  
Tag: Name (0x42004E), Type: Structure (0x01), Data:  
Tag: Name Value (0x420050), Type: Text String (0x07), Data: Template1  
Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001  
(Uninterpreted text string)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
Tag: Name Value (0x420050), Type: Text String (0x07), Data: Key1  
Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001  
(Uninterpreted text string)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic  
Usage Mask  
Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000004  
(Encrypt)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Contact  
Information  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Foo

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**Page 22: [43] Deleted** **Mathias Björkqvist** **9/24/2009 12:17 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8ED (Thu Jul  
30 17:14:53 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-47e4-9d8e-2d6fa4d2311e

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**Page 22: [44] Deleted** **Mathias Björkqvist** **9/24/2009 12:17 PM**  
42007601000000C04200750100000048420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8ED42000D0200000004000000010000000042

000F0100000068420057050000004000000010000000042007A050000000400000000000000042007701000  
000404200520500000004000000020000000042008F070000002464313065333564372D383632662D34376534  
2D396438652D32643666613464323331316500000000

**Page 22: [45] Deleted** **Mathias Björkqvist** **9/24/2009 12:17 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Order Option (0x420010), Type: Boolean (0x06), Data: TRUE  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: D5D4DD19F80FA0B5  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type  
Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002  
(Symmetric Key)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
Tag: Name Value (0x420050), Type: Text String (0x07), Data: Key1  
Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001  
(Uninterpreted text string)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 0A477D6656E29BBA  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data: null

**Page 22: [46] Deleted** **Mathias Björkqvist** **9/24/2009 12:18 PM**

42007301000001204200720100000048420065010000002042006602000000040000000000000000420067020  
000000400000062000000004200100600000008000000000000000142000D020000000400000002000000042  
000F01000000984200570500000004000000080000000004200900800000008D5D4DD19F80FA0B542007401000  
00070420008010000002842000A070000000B4F626A656374205479706500000000042000B05000000040000  
000200000000420008010000003842000A07000000044E616D650000000042000B01000000204200500700000  
0044B657931000000042004F050000000400000001000000042000F01000000284200570500000004000000  
0A0000000042009008000000080A477D6656E29BBA4200740100000000

**Page 23: [47] Deleted** **Mathias Björkqvist** **9/24/2009 12:26 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8EE (Thu Jul  
30 17:14:54 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: D5D4DD19F80FA0B5  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-  
47e4-9d8e-2d6fa4d2311e  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 0A477D6656E29BBA  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric  
Key)  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-  
47e4-9d8e-2d6fa4d2311e  
Tag: Symmetric Key (0x42008A), Type: Structure (0x01), Data:  
Tag: Key Block (0x42003C), Type: Structure (0x01), Data:  
Tag: Key Value Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001

Tag: Key Value (0x42003F), Type: Structure (0x01), Data:  
 Tag: Key Material (0x42003D), Type: Octet String (0x08), Data:  
 4BA2FB14F176929D3D2E7FA20F604B49  
 Tag: Cryptographic Algorithm (0x420025), Type: Enumeration (0x05), Data:  
 0x00000003 (AES)  
 Tag: Cryptographic Length (0x420026), Type: Integer (0x02), Data: 0x00000080  
 (128)

**Page 23: [48] Deleted Mathias Björkqvist 9/24/2009 12:26 PM**

42007601000001A04200750100000048420065010000002042006602000000040000000000000000420067020  
 0000004000000620000000042008E0900000008000000004A71B8EE42000D0200000004000000020000000042  
 00F0100000068420057050000000400000008000000004200900800000008D5D4DD19F80FA0B542007A05000  
 00004000000000000000420077010000003042008F070000002464313065333564372D383632662D34376534  
 2D396438652D326436666134643233313165000000042000F01000000D842005705000000040000000A00000  
 00042009008000000080A477D6656E29BBA42007A0500000004000000000000000042007701000000A0420052  
 0500000004000000020000000042008F070000002464313065333564372D383632662D343765342D396438652  
 D326436666134643233313165000000042008A010000005842003C0100000050420040050000000400000001  
 0000000042003F010000001842003D08000000104BA2FB14F176929D3D2E7FA20F604B4942002505000000040  
 00000030000000042002602000000040000008000000000

**Page 24: [49] Deleted Mathias Björkqvist 9/24/2009 12:27 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000C (Get Attribute  
 List)  
 Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-  
 47e4-9d8e-2d6fa4d2311e

**Page 24: [50] Deleted Mathias Björkqvist 9/24/2009 12:27 PM**

42007301000000904200720100000038420065010000002042006602000000040000000000000000420067020  
 0000004000000620000000042000D0200000004000000010000000042000F0100000048420057050000000400  
 00000C00000000420074010000003042008F070000002464313065333564372D383632662D343765342D39643  
 8652D32643666613464323331316500000000

**Page 24: [51] Deleted Mathias Björkqvist 9/24/2009 12:28 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8EE (Thu Jul  
 30 17:14:54 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000C (Get Attribute  
 List)  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-  
 47e4-9d8e-2d6fa4d2311e  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic  
 Length  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic  
 Algorithm  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Digest  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Initial Date  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Unique Identifier  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage  
 Mask

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Contact Information  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Last Changed Date

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42007601000001D04200750100000048420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8EE42000D0200000004000000010000000042  
000F010000017842005705000000040000000C0000000042007A050000000400000000000000000042007701000  
0015042008F070000002464313065333564372D383632662D343765342D396438652D32643666613464323331  
31650000000042000A070000001443727970746F67726170686963204C656E6774680000000042000A0700000  
01743727970746F6772617068696320416C676F726974686D0042000A0700000005537461746500000042000A  
0700000006446967657374000042000A070000000C496E697469616C20446174650000000042000A070000001  
1556E69717565204964656E746966696572000000000000042000A07000000044E616D650000000042000A07  
0000001843727970746F67726170686963205573616765204D61736B42000A070000000B4F626A65637420547  
9706500000000042000A0700000013436F6E7461637420496E666F726D6174696F6E000000000042000A0700  
0000114C617374204368616E676564204461746500000000000000

**Page 25: [53] Deleted Mathias Björkqvist 9/24/2009 12:29 PM**

42007301000000C04200720100000038420065010000002042006602000000040000000000000000420067020  
00000040000006200000000042000D0200000004000000010000000042000F0100000078420057050000000400  
00000B00000000420074010000006042008F070000002464313065333564372D383632662D343765342D39643  
8652D3264366661346432333131650000000042000A07000000044E616D650000000042000A0700000013436F  
6E7461637420496E666F726D6174696F6E0000000000

**Page 25: [54] Deleted Mathias Björkqvist 9/24/2009 12:29 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8EE (Thu Jul  
30 17:14:54 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000B (Get  
Attributes)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-  
47e4-9d8e-2d6fa4d2311e  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
Tag: Name Value (0x420050), Type: Text String (0x07), Data: Key1  
Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001  
(Uninterpreted text string)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Contact  
Information  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Foo

**Page 26: [55] Deleted Mathias Björkqvist 9/24/2009 12:29 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 58E94E8970FFB88B  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-  
47e4-9d8e-2d6fa4d2311e  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Value1

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 8AD0A151238C7B7C  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-47e4-9d8e-2d6fa4d2311e  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Value2

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420073010000016042007201000000384200650100000020420066020000004000000000000000420067020000004000000620000000042000D0200000004000000020000000042000F01000000884200570500000004000000D00000000420090080000000858E94E8970FFB88B420074010000006042008F070000002464313065333564372D383632662D343765342D396438652D3264366661346432333131650000000420008010000002842000A070000000C782D61747472696275746531000000042000B070000000656616C756531000042000F01000000884200570500000040000000D000000004200900800000088AD0A151238C7B7C420074010000006042008F070000002464313065333564372D383632662D343765342D396438652D3264366661346432333131650000000420008010000002842000A070000000C782D61747472696275746532000000042000B070000000656616C7565320000

**Page 27: [57] Deleted Mathias Björkqvist 9/24/2009 12:30 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8EE (Thu Jul 30 17:14:54 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 58E94E8970FFB88B  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-47e4-9d8e-2d6fa4d2311e  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Value1  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 8AD0A151238C7B7C  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-47e4-9d8e-2d6fa4d2311e  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Value2

**Page 27: [58] Deleted Mathias Björkqvist 9/24/2009 12:30 PM**

420076010000019042007501000000484200650100000020420066020000004000000000000000420067020000004000000620000000042008E0900000008000000004A71B8EE42000D0200000004000000020000000042000F01000000984200570500000004000000D00000000420090080000000858E94E8970FFB88B420074010000006042008F0700000002464313065333564372D383632662D343765342D396438652D3264366661346432333131650000000420008010000002842000A070000000C782D61747472696275746531000000042000B070000000656616C756531000042000F01000000984200570500000004000000D000000004200900800000088AD0A151238C7B7C420074010000006042008F0700000002464313065333564372D383632662D343765342D396438652D3264366661346432333131650000000420008010000002842000A070000000C782D61747472696275746532000000042000B070000000656616C7565320000

**Page 28: [59] Deleted Mathias Björkqvist 9/24/2009 12:30 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000E (Modify Attribute)  
 Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 361C8B13C749A31F  
 Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-47e4-9d8e-2d6fa4d2311e  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1  
 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue1  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000E (Modify Attribute)  
 Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 0BD5758C795439AE  
 Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-47e4-9d8e-2d6fa4d2311e  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2  
 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue2

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42007301000001704200720100000038420065010000002042006602000000040000000000000000420067020  
 00000040000000620000000042000D0200000004000000020000000042000F0100000090420057050000000400  
 00000E000000004200900800000008361C8B13C749A31F420074010000006842008F070000002464313065333  
 564372D383632662D343765342D396438652D326436666134643233313165000000042000801000000304200  
 0A070000000C782D617474726962757465310000000042000B070000000E4D6F64696669656456616C7565310  
 00042000F010000009042005705000000040000000E00000004200900800000080BD5758C795439AE420074  
 010000006842008F070000002464313065333564372D383632662D343765342D396438652D326436666134643  
 2333131650000000420008010000003042000A070000000C782D61747472696275746532000000042000B07  
 0000000E4D6F64696669656456616C7565320000

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**Page 28: [61] Deleted** **Mathias Björkqvist** **9/24/2009 12:31 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8EF (Thu Jul 30 17:14:55 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000E (Modify Attribute)  
 Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 361C8B13C749A31F  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-47e4-9d8e-2d6fa4d2311e  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1  
 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue1  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000E (Modify Attribute)  
 Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 0BD5758C795439AE  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-47e4-9d8e-2d6fa4d2311e  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2  
 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue2

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Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute)  
 Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 71FE1FBB074EFE2F  
 Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: dl0e35d7-862f-47e4-9d8e-2d6fa4d2311e  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute)  
 Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 5F5B437A980D0306  
 Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: dl0e35d7-862f-47e4-9d8e-2d6fa4d2311e  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2

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4200730100000130420072010000003842006501000000204200660200000004000000000000000042006702000000040000006200000000042000D0200000004000000020000000042000F01000000704200570500000004000000F00000000420090080000000871FE1FBB074EFE2F420074010000004842008F0700000002464313065333564372D383632662D343765342D396438652D326436666134643233313165000000042000A070000000C782D617474726962757465310000000042000F010000007042005705000000040000000F0000000042009008000000085F5B437A980D0306420074010000004842008F070000002464313065333564372D383632662D343765342D396438652D326436666134643233313165000000042000A070000000C782D6174747269627574653200000000		

Page 30: [64] Deleted	Mathias Björkqvist	9/24/2009 1:39 PM
Tag: Response Message (0x420076), Type: Structure (0x01), Data: Tag: Response Header (0x420075), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8EF (Thu Jul 30 17:14:55 CEST 2009) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2) Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute) Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 71FE1FBB074EFE2F Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success) Tag: Response Payload (0x420077), Type: Structure (0x01), Data: Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: dl0e35d7-862f-47e4-9d8e-2d6fa4d2311e Tag: Attribute (0x420008), Type: Structure (0x01), Data: Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue1 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute) Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 5F5B437A980D0306 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success) Tag: Response Payload (0x420077), Type: Structure (0x01), Data: Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: dl0e35d7-862f-47e4-9d8e-2d6fa4d2311e Tag: Attribute (0x420008), Type: Structure (0x01), Data: Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue2		

Page 30: [65] Deleted	Mathias Björkqvist	9/24/2009 1:38 PM
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42007601000001A042007501000000484200650100000020420066020000004000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8EF42000D020000004000000020000000042  
00F0100000A04200570500000004000000F0000000042009008000000871FE1FBB074EFE2F42007A05000  
00004000000000000000420077010000006842008F070000002464313065333564372D383632662D34376534  
2D396438652D3264366661346432333131650000000420008010000003042000A070000000C782D617474726  
962757465310000000042000B070000000E4D6F64696669656456616C756531000042000F01000000A0420057  
0500000040000000F000000004200900800000085F5B437A980D030642007A050000004000000000000000  
0420077010000006842008F070000002464313065333564372D383632662D343765342D396438652D32643666  
61346432333131650000000420008010000003042000A070000000C782D6174747269627574653200000004  
2000B070000000E4D6F64696669656456616C7565320000

**Page 30: [66] Deleted** **Mathias Björkqvist** **9/24/2009 1:39 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-47e4-9d8e-2d6fa4d2311e

**Page 30: [67] Deleted** **Mathias Björkqvist** **9/24/2009 1:39 PM**  
420073010000009042007201000000384200650100000020420066020000004000000000000000420067020  
0000004000000620000000042000D0200000004000000010000000042000F0100000048420057050000000400  
00001400000000420074010000003042008F070000002464313065333564372D383632662D343765342D39643  
8652D32643666613464323331316500000000

**Page 31: [68] Deleted** **Mathias Björkqvist** **9/24/2009 1:40 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F0 (Thu Jul 30 17:14:56 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-47e4-9d8e-2d6fa4d2311e

**Page 31: [69] Deleted** **Mathias Björkqvist** **9/24/2009 1:39 PM**  
42007601000000B0420075010000004842006501000000204200660200000040000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8F042000D020000004000000010000000042  
00F01000000584200570500000004000000140000000042007A0500000004000000000000000042007701000  
0003042008F070000002464313065333564372D383632662D343765342D396438652D32643666613464323331  
316500000000

**Page 31: [70] Deleted** **Mathias Björkqvist** **9/24/2009 1:40 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: d10e35d7-862f-47e4-9d8e-2d6fa4d2311e

**Page 31: [71] Deleted** **Mathias Björkqvist** **9/24/2009 1:40 PM**  
42007301000000904200720100000038420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042000D0200000004000000010000000042000F0100000048420057050000000400  
00000A00000000420074010000003042008F0700000002464313065333564372D383632662D343765342D39643  
8652D32643666613464323331316500000000

**Page 32: [72] Deleted** **Mathias Björkqvist** **9/24/2009 1:40 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F0 (Thu Jul  
30 17:14:56 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000001 (Failed)  
Tag: Result Reason (0x420079), Type: Enumeration (0x05), Data: 0x00000001 (Item Not  
Found)  
Tag: Result Message (0x420078), Type: Text String (0x07), Data: No Cryptographic  
Object found with given Unique Identifier

**Page 32: [73] Deleted** **Mathias Björkqvist** **9/24/2009 1:40 PM**  
42007601000000D04200750100000048420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8F042000D0200000004000000010000000042  
000F0100000007842005705000000040000000A0000000042007A0500000004000000010000000042007905000  
000040000000100000000420078070000003A4E6F2043727970746F67726170686963204F626A65637420666F  
756E64207769746820676976656E20556E69717565204964656E746966696572000000000000

**Page 32: [74] Deleted** **Mathias Björkqvist** **9/24/2009 1:41 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 08f9f9a2-3691-  
40b6-baa9-dc6a116c74bb

**Page 32: [75] Deleted** **Mathias Björkqvist** **9/24/2009 1:41 PM**  
42007301000000904200720100000038420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042000D0200000004000000010000000042000F0100000048420057050000000400  
00001400000000420074010000003042008F0700000002430386639663961322D333639312D343062362D62616  
1392D64633661313136633734626200000000

**Page 33: [76] Deleted** **Mathias Björkqvist** **9/24/2009 1:41 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F0 (Thu Jul  
30 17:14:56 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 08f9f9a2-3691-  
40b6-baa9-dc6a116c74bb

**Page 33: [77] Deleted** **Mathias Björkqvist** **9/24/2009 1:41 PM**

42007601000000B04200750100000048420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8F042000D0200000004000000010000000042  
000F01000000584200570500000004000000140000000042007A0500000004000000000000000042007701000  
0003042008F070000002430386639663961322D333639312D343062362D626161392D64633661313136633734  
626200000000

**Page 33: [78] Deleted** **Mathias Björkqvist** **9/24/2009 1:42 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 08f9f9a2-3691-40b6-baa9-dc6a116c74bb

**Page 33: [79] Deleted** **Mathias Björkqvist** **9/24/2009 1:42 PM**

42007301000000904200720100000038420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042000D0200000004000000010000000042000F01000000484200570500000000400  
00000A00000000420074010000003042008F070000002430386639663961322D333639312D343062362D62616  
1392D64633661313136633734626200000000

**Page 33: [80] Deleted** **Mathias Björkqvist** **9/24/2009 1:42 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F0 (Thu Jul 30 17:14:56 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000001 (Failed)  
Tag: Result Reason (0x420079), Type: Enumeration (0x05), Data: 0x00000001 (Item Not Found)  
Tag: Result Message (0x420078), Type: Text String (0x07), Data: No Cryptographic Object found with given Unique Identifier

**Page 33: [81] Deleted** **Mathias Björkqvist** **9/24/2009 1:42 PM**

42007601000000D04200750100000048420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8F042000D0200000004000000010000000042  
000F010000007842005705000000040000000A0000000042007A0500000004000000010000000042007905000  
000040000000100000000420078070000003A4E6F2043727970746F67726170686963204F626A65637420666F  
756E64207769746820676976656E20556E69717565204964656E746966696572000000000000

**Page 35: [82] Deleted** **Mathias Björkqvist** **9/24/2009 1:52 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
Tag: Template-Attribute (0x42008D), Type: Structure (0x01), Data:  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic  
 Algorithm  
 Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000003  
 (AES)  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic  
 Length  
 Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000080 (128)  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
 Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
 Tag: Name Value (0x420050), Type: Text String (0x07), Data: Key1  
 Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001  
 (Uninterpreted text string)  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic  
 Usage Mask  
 Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000004  
 (Encrypt)  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Group  
 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Group1

Page 35: [83] Deleted	Mathias Björkqvist	9/24/2009 1:52 PM
420073010000019042007201000000384200650100000020420066020000004000000000000000420067020 0000004000000620000000042000D0200000004000000010000000042000F0100000148420057050000000400 0000010000000042007401000001304200520500000004000000020000000042008D010000011842000801000 0003042000A070000001743727970746F6772617068696320416C676F726974686D0042000B05000000040000 00030000000042008010000003042000A070000001443727970746F67726170686963204C656E6774680000 00042000B0200000004000000800000000042008010000003842000A07000000044E616D650000000042000B 010000002042005007000000044B6579310000000042004F0500000004000000010000000042008010000003 042000A070000001843727970746F67726170686963205573616765204D61736B42000B020000000400000004 0000000042008010000002842000A0700000000C4F626A6563742047726F75700000000042000B07000000064 7726F7570310000		

Page 35: [84] Deleted	Mathias Björkqvist	9/24/2009 1:53 PM
Tag: Response Message (0x420076), Type: Structure (0x01), Data: Tag: Response Header (0x420075), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F1 (Thu Jul 30 17:14:57 CEST 2009) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1) Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create) Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success) Tag: Response Payload (0x420077), Type: Structure (0x01), Data: Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key) Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 2f45993b-9af6- 4b75-a990-d6211814ea11		

Page 35: [85] Deleted	Mathias Björkqvist	9/24/2009 1:52 PM
42007601000000C042007501000000484200650100000020420066020000004000000000000000420067020 0000004000000620000000042008E0900000008000000004A71B8F142000D0200000004000000010000000042 000F01000000684200570500000004000000010000000042007A0500000004000000000000000042007701000 0004042005205000000004000000020000000042008F070000002432663435393933622D396166362D34623735 2D613939302D64363231313831346561313100000000		

Page 36: [86] Deleted	Mathias Björkqvist	9/24/2009 1:53 PM
Tag: Request Message (0x420073), Type: Structure (0x01), Data: Tag: Request Header (0x420072), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Asynchronous Indicator (0x420007), Type: Boolean (0x06), Data: TRUE		

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type  
Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002  
(Symmetric Key)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
Tag: Name Value (0x420050), Type: Text String (0x07), Data: Key1  
  
Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001  
(Uninterpreted text string)

**Page 36: [87] Deleted Mathias Björkqvist 9/24/2009 1:53 PM**

42007301000000E04200720100000048420065010000002042006602000000040000000000000000420067020  
0000004000000062000000004200070600000008000000000000000142000D0200000004000000010000000042  
000F0100000088420057050000000400000008000000004200740100000070420008010000002842000A07000  
0000B4F626A656374205479706500000000042000B0500000004000000020000000042000801000000384200  
0A07000000044E616D650000000042000B010000002042005007000000044B6579310000000042004F0500000  
00400000000100000000

**Page 36: [88] Deleted Mathias Björkqvist 9/24/2009 1:54 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F1 (Thu Jul  
30 17:14:57 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000002 (Pending)  
  
Tag: Asynchronous Correlation Value (0x420006), Type: Octet String (0x08), Data:  
40736460C5C6EEBD

**Page 36: [89] Deleted Mathias Björkqvist 9/24/2009 1:54 PM**

42007601000000884200750100000048420065010000002042006602000000040000000000000000420067020  
00000040000000620000000042008E0900000008000000004A71B8F142000D0200000004000000010000000042  
000F01000000304200570500000004000000080000000042007A0500000004000000020000000042000608000  
0000840736460C5C6EEBD

**Page 36: [90] Deleted Mathias Björkqvist 9/24/2009 1:54 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000001A (Poll)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
  
Tag: Asynchronous Correlation Value (0x420006), Type: Octet String (0x08), Data:  
40736460C5C6EEBD

**Page 37: [91] Deleted Mathias Björkqvist 9/24/2009 1:54 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F1 (Thu Jul  
30 17:14:57 CEST 2009)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 2f45993b-9af6-4b75-a990-d6211814ea11

**Page 37: [92] Deleted Mathias Björkqvist 9/24/2009 1:54 PM**

42007601000000B0420075010000004842006501000000204200660200000004000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8F142000D0200000004000000010000000042  
00F01000000584200570500000004000000080000000042007A050000000400000000000000042007701000  
0003042008F070000002432663435393933622D396166362D346237352D613939302D64363231313831346561  
313100000000

**Page 37: [93] Deleted Mathias Björkqvist 9/24/2009 1:55 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 2f45993b-9af6-4b75-a990-d6211814ea11

**Page 37: [94] Deleted Mathias Björkqvist 9/24/2009 1:55 PM**

4200730100000090420072010000003842006501000000204200660200000004000000000000000420067020  
0000004000000620000000042000D0200000004000000010000000042000F0100000048420057050000000400  
00000A00000000420074010000003042008F070000002432663435393933622D396166362D346237352D61393  
9302D64363231313831346561313100000000

**Page 38: [95] Deleted Mathias Björkqvist 9/24/2009 1:56 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F1 (Thu Jul 30 17:14:57 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 2f45993b-9af6-4b75-a990-d6211814ea11  
Tag: Symmetric Key (0x42008A), Type: Structure (0x01), Data:  
Tag: Key Block (0x42003C), Type: Structure (0x01), Data:  
Tag: Key Value Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001  
Tag: Key Value (0x42003F), Type: Structure (0x01), Data:  
Tag: Key Material (0x42003D), Type: Octet String (0x08), Data: C3F5135717E01CBB7DD476CB70AC47A6  
Tag: Cryptographic Algorithm (0x420025), Type: Enumeration (0x05), Data: 0x00000003 (AES)  
Tag: Cryptographic Length (0x420026), Type: Integer (0x02), Data: 0x00000080 (128)

**Page 38: [96] Deleted Mathias Björkqvist 9/24/2009 1:55 PM**

4200760100000120420075010000004842006501000000204200660200000004000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8F142000D0200000004000000010000000042

000F01000000C84200570500000040000000A0000000042007A050000000400000000000000042007701000  
000A04200520500000004000000020000000042008F070000002432663435393933622D396166362D34623735  
2D613939302D6436323131383134656131310000000042008A010000005842003C01000000504200400500000  
004000000010000000042003F010000001842003D0800000010C3F5135717E01CBB7DD476CB70AC47A6420025  
0500000004000000030000000042002602000000040000008000000000

**Page 39: [97] Deleted Mathias Björkqvist 9/24/2009 1:58 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Asynchronous Indicator (0x420007), Type: Boolean (0x06), Data: TRUE  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type  
Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002  
(Symmetric Key)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Group  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Group1

**Page 39: [98] Deleted Mathias Björkqvist 9/24/2009 1:58 PM**

42007301000000D0420072010000004842006501000000204200660200000004000000000000000420067020  
000000400000062000000004200070600000008000000000000000142000D0200000004000000010000000042  
000F01000000784200570500000004000000080000000004200740100000060420008010000002842000A07000  
0000B4F626A656374205479706500000000042000B050000000400000002000000042000801000000284200  
0A070000000C4F626A6563742047726F75700000000042000B070000000647726F7570310000

**Page 39: [99] Deleted Mathias Björkqvist 9/24/2009 1:59 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F1 (Thu Jul  
30 17:14:57 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000002 (Pending)  
Tag: Asynchronous Correlation Value (0x420006), Type: Octet String (0x08), Data:  
140C3B936914BEE5

**Page 39: [100] Deleted Mathias Björkqvist 9/24/2009 1:58 PM**

4200760100000088420075010000004842006501000000204200660200000004000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8F142000D0200000004000000010000000042  
000F01000000304200570500000004000000080000000042007A050000000400000002000000042000608000  
00008140C3B936914BEE5

**Page 39: [101] Deleted Mathias Björkqvist 9/24/2009 1:59 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000001A (Poll)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Asynchronous Correlation Value (0x420006), Type: Octet String (0x08), Data:  
140C3B936914BEE5

**Page 39: [102] Deleted** **Mathias Björkqvist** **9/24/2009 1:59 PM**

420073010000007042007201000000384200650100000020420066020000004000000000000000420067020000004000000620000000042000D0200000004000000010000000042000F01000000284200570500000004000001A0000000042007401000000104200060800000008140C3B936914BEE5

**Page 40: [103] Deleted** **Mathias Björkqvist** **9/24/2009 1:59 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F1 (Thu Jul 30 17:14:57 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 2f45993b-9af6-4b75-a990-d6211814ea11

**Page 40: [104] Deleted** **Mathias Björkqvist** **9/24/2009 1:59 PM**

42007601000000B0420075010000004842006501000000204200660200000040000000000000000420067020000004000000620000000042008E0900000008000000004A71B8F142000D0200000004000000010000000042000F01000000584200570500000004000000080000000042007A05000000040000000000000000420077010000003042008F070000002432663435393933622D396166362D346237352D613939302D64363231313831346561313100000000

**Page 40: [105] Deleted** **Mathias Björkqvist** **9/24/2009 2:00 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 2f45993b-9af6-4b75-a990-d6211814ea11

**Page 40: [106] Deleted** **Mathias Björkqvist** **9/24/2009 2:00 PM**

4200730100000090420072010000003842006501000000204200660200000040000000000000000420067020000004000000620000000042000D0200000004000000010000000042000F01000000484200570500000004000000A00000000420074010000003042008F070000002432663435393933622D396166362D346237352D613939302D64363231313831346561313100000000

**Page 41: [107] Deleted** **Mathias Björkqvist** **9/24/2009 2:01 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F2 (Thu Jul 30 17:14:58 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 2f45993b-9af6-4b75-a990-d6211814ea11



Tag: Symmetric Key (0x42008A), Type: Structure (0x01), Data:  
Tag: Key Block (0x42003C), Type: Structure (0x01), Data:  
Tag: Key Value Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001  
Tag: Key Value (0x42003F), Type: Structure (0x01), Data:  
Tag: Key Material (0x42003D), Type: Octet String (0x08), Data:  
C3F5135717E01CBB7DD476CB70AC47A6  
Tag: Cryptographic Algorithm (0x420025), Type: Enumeration (0x05), Data:  
0x00000003 (AES)  
Tag: Cryptographic Length (0x420026), Type: Integer (0x02), Data: 0x00000080  
(128)

**Page 41: [108] Deleted Mathias Björkqvist 9/24/2009 2:00 PM**

420076010000012042007501000000484200650100000020420066020000004000000000000000420067020  
00000040000000620000000042008E0900000008000000004A71B8F242000D0200000004000000010000000042  
000F01000000C842005705000000040000000A0000000042007A0500000004000000000000000042007701000  
000A04200520500000004000000020000000042008F070000002432663435393933622D396166362D34623735  
2D613939302D6436323131383134656131310000000042008A010000005842003C01000000504200400500000  
004000000010000000042003F010000001842003D0800000010C3F5135717E01CBB7DD476CB70AC47A6420025  
0500000004000000030000000042002602000000040000008000000000

**Page 41: [109] Deleted Mathias Björkqvist 9/24/2009 2:01 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Asynchronous Indicator (0x420007), Type: Boolean (0x06), Data: TRUE  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type  
Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002  
(Symmetric Key)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
Tag: Name Value (0x420050), Type: Text String (0x07), Data: Key1  
Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001  
(Uninterpreted text string)

**Page 41: [110] Deleted Mathias Björkqvist 9/24/2009 2:01 PM**

42007301000000E042007201000000484200650100000020420066020000004000000000000000420067020  
000000400000006200000000420070600000008000000000000000142000D0200000004000000010000000042  
000F01000000884200570500000004000000080000000042007A010000007042008010000002842000A07000  
0000B4F626A65637420547970650000000042000B05000000040000000200000004200801000000384200  
0A07000000044E616D650000000042000B010000002042005007000000044B6579310000000042004F0500000  
0040000000100000000

**Page 42: [111] Deleted Mathias Björkqvist 9/24/2009 2:01 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8F2 (Thu Jul  
30 17:14:58 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000002 (Pending)  
Tag: Asynchronous Correlation Value (0x420006), Type: Octet String (0x08), Data:  
F6E77C5F2C1B74E0

**Page 42: [112] Deleted Mathias Björkqvist 9/24/2009 2:01 PM**

42007601000000884200750100000048420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8F242000D0200000004000000010000000042  
000F01000000304200570500000004000000080000000042007A0500000004000000020000000042000608000  
00008F6E77C5F2C1B74E0

**Page 42: [113] Deleted Mathias Björkqvist 9/24/2009 2:02 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000019 (Cancel)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Asynchronous Correlation Value (0x420006), Type: Octet String (0x08), Data:  
F6E77C5F2C1B74E0

**Page 43: [114] Deleted Mathias Björkqvist 9/24/2009 2:02 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F2 (Thu Jul  
30 17:14:58 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000019 (Cancel)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Asynchronous Correlation Value (0x420006), Type: Octet String (0x08), Data:  
F6E77C5F2C1B74E0  
Tag: Cancellation Result (0x420012), Type: Enumeration (0x05), Data: 0x00000001  
(Cancelled)

**Page 43: [115] Deleted Mathias Björkqvist 9/24/2009 2:02 PM**

42007601000000A04200750100000048420065010000002042006602000000040000000000000000420067020  
00000040000006200000000042008E0900000008000000004A71B8F242000D0200000004000000010000000042  
000F01000000484200570500000004000000190000000042007A0500000004000000000000000042007701000  
000204200060800000008F6E77C5F2C1B74E042001205000000040000000100000000

**Page 43: [116] Deleted Mathias Björkqvist 9/24/2009 2:03 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 2f45993b-9af6-  
4b75-a990-d6211814ea11

**Page 43: [117] Deleted Mathias Björkqvist 9/24/2009 2:03 PM**

42007301000000904200720100000038420065010000002042006602000000040000000000000000420067020  
00000040000006200000000042000D0200000004000000010000000042000F0100000048420057050000000400  
00001400000000420074010000003042008F070000002432663435393933622D396166362D346237352D61393  
9302D64363231313831346561313100000000

**Page 43: [118] Deleted Mathias Björkqvist 9/24/2009 2:03 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:

Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F2 (Thu Jul 30 17:14:58 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 2f45993b-9af6-4b75-a990-d6211814ea11

Page 45: [119] Deleted	Mathias Björkqvist	9/24/2009 2:04 PM
Tag: Request Message (0x420073), Type: Structure (0x01), Data: Tag: Request Header (0x420072), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1) Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create) Tag: Request Payload (0x420074), Type: Structure (0x01), Data: Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key) Tag: Template-Attribute (0x42008D), Type: Structure (0x01), Data: Tag: Attribute (0x420008), Type: Structure (0x01), Data: Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Algorithm Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000003 (AES) Tag: Attribute (0x420008), Type: Structure (0x01), Data: Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Length Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000080 (128) Tag: Attribute (0x420008), Type: Structure (0x01), Data: Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data: Tag: Name Value (0x420050), Type: Text String (0x07), Data: Key1 Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001 (Uninterpreted text string) Tag: Attribute (0x420008), Type: Structure (0x01), Data: Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage Mask Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000004 (Encrypt)		

Page 45: [120] Deleted	Mathias Björkqvist	9/24/2009 2:04 PM
420073010000016042007201000000384200650100000020420066020000000400000000000000042006702000000040000006200000000042000D0200000004000000010000000042000F0100000118420057050000000400000010000000042007401000001004200520500000004000000020000000042008D01000000E8420008010000003042000A070000001743727970746F6772617068696320416C676F726974686D0042000B0500000004000000300000000420008010000003042000A070000001443727970746F67726170686963204C656E677468000000042000B02000000040000008000000000420008010000003842000A07000000044E616D65000000042000B010000002042005007000000044B6579310000000042004F05000000040000000100000000420008010000003042000A070000001843727970746F67726170686963205573616765204D61736B42000B02000000040000000400000000		

Page 45: [121] Deleted	Mathias Björkqvist	9/24/2009 2:05 PM
Tag: Response Message (0x420076), Type: Structure (0x01), Data: Tag: Response Header (0x420075), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F2 (Thu Jul 30 17:14:58 CEST 2009) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1) Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create)		

Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56

**Page 45: [122] Deleted Mathias Björkqvist 9/24/2009 2:04 PM**

42007601000000C042007501000000484200650100000020420066020000000400000000000000004200670200000004000000620000000042008E0900000008000000004A71B8F242000D020000000400000001000000004200F01000000684200570500000004000000010000000042007A050000000400000000000000004200770100000404200520500000004000000020000000042008F070000002432326362653134332D666564622D343230392D386134332D6330366161396563386535360000000

**Page 46: [123] Deleted Mathias Björkqvist 9/24/2009 2:05 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State

**Page 46: [124] Deleted Mathias Björkqvist 9/24/2009 2:05 PM**

42007301000000A042007201000000384200650100000020420066020000000400000000000000004200670200000004000000620000000042000D020000000400000001000000004200F01000000584200570500000004000000B00000000420074010000004042008F070000002432326362653134332D666564622D343230392D386134332D6330366161396563386535360000000042000A07000000055374617465000000

**Page 46: [125] Deleted Mathias Björkqvist 9/24/2009 2:05 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F3 (Thu Jul 30 17:14:59 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State  
Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000001 (Pre-Active)

**Page 46: [126] Deleted Mathias Björkqvist 9/24/2009 2:05 PM**

42007601000000D842007501000000484200650100000020420066020000000400000000000000004200670200000004000000620000000042008E0900000008000000004A71B8F342000D020000000400000001000000004200F010000008042005705000000040000000B0000000042007A050000000400000000000000004200770100000005842008F070000002432326362653134332D666564622D343230392D386134332D6330366161396563386535360000000042008010000002042000A0700000005537461746500000042000B0500000004000000010000000

**Page 47: [127] Deleted** **Mathias Björkqvist** **9/24/2009 2:06 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Activation Date  
Tag: Attribute Value (0x42000B), Type: Date-Time (0x09), Data: 0x0000000000000002 (Thu Jan 01 01:00:02 CET 1970)

**Page 47: [128] Deleted** **Mathias Björkqvist** **9/24/2009 2:06 PM**  
42007301000000C042007201000000384200650100000020420066020000000400000000000000004200670200000004000000620000000042000D0200000004000000010000000042000F01000000784200570500000004000000D00000000420074010000006042008F07000000243232632653134332D666564622D343230392D386134332D633036616139656338653536000000042008010000002842000A07000000F41637469766174696F6E20446174650042000B090000000800000000000000

**Page 47: [129] Deleted** **Mathias Björkqvist** **9/24/2009 2:06 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8F3 (Thu Jul 30 17:14:59 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Activation Date  
Tag: Attribute Value (0x42000B), Type: Date-Time (0x09), Data: 0x0000000000000002 (Thu Jan 01 01:00:02 CET 1970)

**Page 47: [130] Deleted** **Mathias Björkqvist** **9/24/2009 2:06 PM**  
42007601000000E04200750100000048420065010000002042006602000000040000000000000000420067020000004000000620000000042008E0900000008000000004A71B8F342000D0200000004000000010000000042000F01000000884200570500000040000000D0000000042007A050000000400000000000000420077010000006042008F07000000243232632653134332D666564622D343230392D386134332D633036616139656338653536000000042008010000002842000A07000000F41637469766174696F6E20446174650042000B090000008000000000000000

**Page 47: [131] Deleted** **Mathias Björkqvist** **9/24/2009 2:08 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State

**Page 48: [132] Deleted** **Mathias Björkqvist** **9/24/2009 2:08 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F3 (Thu Jul 30 17:14:59 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State  
Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002 (Active)

**Page 48: [133] Deleted** **Mathias Björkqvist** **9/24/2009 2:08 PM**  
42007601000000D8420075010000004842006501000000204200660200000004000000000000000420067020000004000000620000000042008E0900000008000000004A71B8F342000D0200000004000000001000000004200F010000008042005705000000040000000B0000000042007A050000000400000000000000042007701000005842008F070000002432326362653134332D666564622D343230392D386134332D6330366161396563386535360000000042008010000002042000A0700000005537461746500000042000B0500000004000000020000000

**Page 49: [134] Deleted** **Mathias Björkqvist** **9/24/2009 2:08 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type  
Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
Tag: Name Value (0x420050), Type: Text String (0x07), Data: Key1  
Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001 (Uninterpreted text string)

**Page 49: [135] Deleted** **Mathias Björkqvist** **9/24/2009 2:08 PM**  
42007301000000D0420072010000003842006501000000204200660200000004000000000000000420067020000004000000620000000042000D020000000400000001000000004200F0100000088420057050000000400000800000000420074010000007042008010000002842000A070000000B4F626A656374205479706500000000042000B0500000004000000020000000420008010000003842000A07000000044E616D650000000042000B0100000002042005007000000044B6579310000000042004F05000000040000000100000000

**Page 49: [136] Deleted** **Mathias Björkqvist** **9/24/2009 2:09 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F4 (Thu Jul 30 17:15:00 CEST 2009)

Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56

**Page 49: [137] Deleted Mathias Björkqvist 9/24/2009 2:09 PM**

42007601000000B04200750100000048420065010000002042006602000000040000000000000000420067020000004000000620000000042008E0900000008000000004A71B8F442000D020000000400000001000000004200F01000000584200570500000004000000080000000042007A050000000400000000000000420077010000003042008F070000002432326362653134332D666564622D343230392D386134332D63303661613965633865353600000000

**Page 49: [138] Deleted Mathias Björkqvist 9/24/2009 2:09 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56

**Page 49: [139] Deleted Mathias Björkqvist 9/24/2009 2:09 PM**

42007301000000904200720100000038420065010000002042006602000000040000000000000000420067020000004000000620000000042000D020000000400000001000000004200F01000000484200570500000004000000A00000000420074010000003042008F070000002432326362653134332D666564622D343230392D386134332D63303661613965633865353600000000

**Page 50: [140] Deleted Mathias Björkqvist 9/24/2009 2:10 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F5 (Thu Jul 30 17:15:01 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
Tag: Symmetric Key (0x42008A), Type: Structure (0x01), Data:  
Tag: Key Block (0x42003C), Type: Structure (0x01), Data:  
Tag: Key Value Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001  
Tag: Key Value (0x42003F), Type: Structure (0x01), Data:  
Tag: Key Material (0x42003D), Type: Octet String (0x08), Data: 176CFFCB50904DB2AFD75D1FFF74F14F  
Tag: Cryptographic Algorithm (0x420025), Type: Enumeration (0x05), Data: 0x00000003 (AES)  
Tag: Cryptographic Length (0x420026), Type: Integer (0x02), Data: 0x00000080 (128)

**Page 50: [141] Deleted Mathias Björkqvist 9/24/2009 2:09 PM**

42007601000001204200750100000048420065010000002042006602000000040000000000000000420067020000004000000620000000042008E0900000008000000004A71B8F542000D0200000004000000010000000042

000F01000000C842005705000000040000000A0000000042007A050000000400000000000000042007701000  
000A04200520500000004000000020000000042008F070000002432326362653134332D666564622D34323039  
2D386134332D6330366161396563386535360000000042008A010000005842003C01000000504200400500000  
004000000010000000042003F010000001842003D0800000010176CFFCB50904DB2AFD75D1FFF74F14F420025  
0500000004000000030000000042002602000000040000008000000000

**Page 51: [142] Deleted Mathias Björkqvist 9/24/2009 2:11 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000013 (Revoke)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-  
4209-8a43-c06aa9ec8e56  
Tag: Revocation Reason (0x42007C), Type: Structure (0x01), Data:  
Tag: Revocation Reason Code (0x42007D), Type: Enumeration (0x05), Data:  
0x00000001 (Key Compromise)  
Tag: Compromise Occurrence Date (0x42001E), Type: Date-Time (0x09), Data:  
0x0000000000000006 (Thu Jan 01 01:00:06 CET 1970)

**Page 51: [143] Deleted Mathias Björkqvist 9/24/2009 2:11 PM**

42007301000000B8420072010000003842006501000000204200660200000004000000000000000420067020  
0000004000000620000000042000D0200000004000000010000000042000F0100000070420057050000000400  
00001300000000420074010000005842008F070000002432326362653134332D666564622D343230392D38613  
4332D6330366161396563386535360000000042007C010000001042007D050000000400000001000000004200  
1E09000000080000000000000000

**Page 51: [144] Deleted Mathias Björkqvist 9/24/2009 2:11 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8F5 (Thu Jul  
30 17:15:01 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000013 (Revoke)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-  
4209-8a43-c06aa9ec8e56

**Page 51: [145] Deleted Mathias Björkqvist 9/24/2009 2:11 PM**

42007601000000B0420075010000004842006501000000204200660200000004000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8F542000D0200000004000000010000000042  
000F01000000584200570500000004000000130000000042007A050000000400000000000000042007701000  
0003042008F070000002432326362653134332D666564622D343230392D386134332D63303661613965633865  
353600000000

**Page 51: [146] Deleted Mathias Björkqvist 9/24/2009 2:11 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000B (Get  
Attributes)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:



Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56

Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State

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<b>Page 51: [147] Deleted</b>	<b>Mathias Björkqvist</b>	<b>9/24/2009 2:11 PM</b>
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42007301000000A04200720100000038420065010000002042006602000000040000000000000000420067020000004000000620000000042000D0200000004000000010000000042000F01000000584200570500000004000000B00000000420074010000004042008F070000002432326362653134332D666564622D343230392D386134332D6330366161396563386535360000000042000A07000000055374617465000000

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<b>Page 52: [148] Deleted</b>	<b>Mathias Björkqvist</b>	<b>9/24/2009 2:12 PM</b>
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Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F5 (Thu Jul 30 17:15:01 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State  
Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000004 (Compromised)

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<b>Page 52: [149] Deleted</b>	<b>Mathias Björkqvist</b>	<b>9/24/2009 2:12 PM</b>
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42007601000000D84200750100000048420065010000002042006602000000040000000000000000420067020000004000000620000000042008E0900000008000000004A71B8F542000D020000000400000001000000004200F010000008042005705000000040000000B0000000042007A05000000040000000000000000420077010000005842008F070000002432326362653134332D666564622D343230392D386134332D63303661613965633865353600000000420008010000002042000A0700000005537461746500000042000B05000000040000000400000000

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<b>Page 52: [150] Deleted</b>	<b>Mathias Björkqvist</b>	<b>9/24/2009 2:12 PM</b>
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Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000C (Get Attribute List)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56

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<b>Page 52: [151] Deleted</b>	<b>Mathias Björkqvist</b>	<b>9/24/2009 2:12 PM</b>
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42007301000000904200720100000038420065010000002042006602000000040000000000000000420067020000004000000620000000042000D0200000004000000010000000042000F01000000484200570500000004000000C00000000420074010000003042008F070000002432326362653134332D666564622D343230392D386134332D63303661613965633865353600000000

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<b>Page 53: [152] Deleted</b>	<b>Mathias Björkqvist</b>	<b>9/24/2009 2:13 PM</b>
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Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)

Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F5 (Thu Jul 30 17:15:01 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000C (Get Attribute List)  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Length  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Algorithm  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Compromise Occurrence Date  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Compromise Date  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Digest  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Initial Date  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Activation Date  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Revocation Reason  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Unique Identifier  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage  
 Mask  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Last Changed Date

Page 53: [153] Deleted	Mathias Björkqvist	9/24/2009 2:13 PM
4200760100000228420075010000004842006501000000204200660200000004000000000000000420067020 0000004000000620000000042008E0900000008000000004A71B8F542000D0200000004000000010000000042 000F01000001D042005705000000040000000C000000042007A050000000400000000000000042007701000 001A842008F070000002432326362653134332D666564622D343230392D386134332D63303661613965633865 3536000000004200A070000001443727970746F6772617068696320416C676F726974686D0042000A0700000005537461746500000042000A 01743727970746F6772617068696320416C676F726974686D0042000A0700000005537461746500000042000A 070000001A436F6D70726F6D697365204F6363757272656E636520446174650000000000042000A070000000 F436F6D70726F6D69736520446174650042000A0700000006446967657374000042000A070000000C496E6974 69616C2044617465000000042000A070000000F41637469766174696F6E20446174650042000A07000000115 265766F636174696F6E20526561736F6E000000000000042000A07000000011556E69717565204964656E7469 66696572000000000000042000A07000000044E616D65000000042000A070000001843727970746F6772617 0686963205573616765204D61736B42000A070000000B4F626A656374205479706500000000042000A070000 00114C617374204368616E6765642044617465000000000000		

Page 54: [154] Deleted	Mathias Björkqvist	9/24/2009 2:13 PM
Tag: Request Message (0x420073), Type: Structure (0x01), Data: Tag: Request Header (0x420072), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1) Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes) Tag: Request Payload (0x420074), Type: Structure (0x01), Data: Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State		

Page 54: [155] Deleted	Mathias Björkqvist	9/24/2009 2:13 PM
42007301000000A0420072010000003842006501000000204200660200000004000000000000000420067020 0000004000000620000000042000D020000000400000001000000042000F010000058420057050000000400 00000B000000004020074010000004042008F0700000002432326362653134332D666564622D343230392D38613 4332D6330366161396563386535360000000042000A07000000055374617465000000		

Page 54: [156] Deleted	Mathias Björkqvist	9/24/2009 2:14 PM
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Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F5 (Thu Jul 30 17:15:01 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000B (Get Attributes)  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: State  
 Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000004 (Compromised)

Page 54: [157] Deleted	Mathias Björkqvist	9/24/2009 2:13 PM
42007601000000D84200750100000048420065010000002042006602000000040000000000000000420067020000004000000620000000042008E0900000008000000004A71B8F542000D020000000400000001000000004200F010000008042005705000000040000000B0000000042007A0500000004000000000000000420077010000005842008F070000002432326362653134332D666564622D343230392D386134332D6330366161396563386535360000000042008010000002042000A0700000005537461746500000042000B05000000040000000400000000		

Page 55: [158] Deleted	Mathias Björkqvist	9/24/2009 2:14 PM
Tag: Request Message (0x420073), Type: Structure (0x01), Data: Tag: Request Header (0x420072), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2) Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute) Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 4B1F8ADA814C41DE Tag: Request Payload (0x420074), Type: Structure (0x01), Data: Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56 Tag: Attribute (0x420008), Type: Structure (0x01), Data: Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Value1 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute) Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 9E3FC11EE4C2767B Tag: Request Payload (0x420074), Type: Structure (0x01), Data: Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56 Tag: Attribute (0x420008), Type: Structure (0x01), Data: Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Value2		

Page 55: [159] Deleted	Mathias Björkqvist	9/24/2009 2:14 PM
42007301000001604200720100000038420065010000002042006602000000040000000000000000420067020000004000000620000000042000D0200000004000000020000000042000F01000000884200570500000004000000D0000000042009008000000084B1F8ADA814C41DE420074010000006042008F070000002432326362653134332D666564622D343230392D386134332D633036616139656338653536000000042008010000002842000A070000000C782D61747472696275746531000000042000B070000000656616C756531000042000F01000000884200570500000040000000D00000004200900800000089E3FC11EE4C2767B420074010000006042008F070000002432326362653134332D666564622D343230392D386134332D633036616139656338653536000000042008010000002842000A070000000C782D61747472696275746532000000042000B070000000656616C7565320000		

Page 56: [160] Deleted	Mathias Björkqvist	9/24/2009 2:14 PM
Tag: Response Message (0x420076), Type: Structure (0x01), Data:		

Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
   Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
     Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
     Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
     Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F6 (Thu Jul 30 17:15:02 CEST 2009)  
   Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
   Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
   Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 4B1F8ADA814C41DE  
   Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
   Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
     Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
     Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
       Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1  
       Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Value1  
   Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
     Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
     Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 9E3FC11EE4C2767B  
     Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
     Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
       Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
       Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
         Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2  
         Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: Value2

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**Mathias Björkqvist**

**9/24/2009 2:14 PM**

4200760100000190420075010000004842006501000000204200660200000004000000000000000420067020  
 00000040000000620000000042008E0900000008000000004A71B8F642000D0200000004000000020000000042  
 000F010000009842005705000000040000000D000000042009008000000084B1F8ADA814C41DE42007A05000  
 00004000000000000000420077010000006042008F070000002432326362653134332D666564622D34323039  
 2D386134332D633036616139656338653536000000042008010000002842000A070000000C782D617474726  
 962757465310000000042000B070000000656616C756531000042000F01000000984200570500000004000000  
 0D000000042009008000000089E3FC11EE4C2767B42007A050000000400000000000000420077010000006  
 042008F070000002432326362653134332D666564622D343230392D386134332D633036616139656338653536  
 0000000042008010000002842000A070000000C782D61747472696275746532000000042000B07000000065  
 6616C7565320000

**Page 56: [162] Deleted**

**Mathias Björkqvist**

**9/24/2009 2:16 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
   Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
     Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
       Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
       Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
     Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
   Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
     Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000E (Modify Attribute)  
     Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 1C27761B124BFE06  
     Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
       Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
       Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
         Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1  
         Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue1  
     Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
       Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000E (Modify Attribute)  
       Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 167C5332C5007D81  
       Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
         Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
         Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
           Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2  
           Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue2

**Page 56: [163] Deleted** **Mathias Björkqvist** **9/24/2009 2:16 PM**  
42007301000001704200720100000038420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042000D0200000004000000020000000042000F0100000090420057050000000400  
00000E0000000042009008000000081C27761B124BFE06420074010000006842008F070000002432326362653  
134332D666564622D343230392D386134332D6330366161396563386535360000000042000801000000304200  
0A070000000C782D617474726962757465310000000042000B070000000E4D6F64696669656456616C7565310  
00042000F010000009042005705000000040000000E000000004200900800000008167C5332C5007D81420074  
010000006842008F070000002432326362653134332D666564622D343230392D386134332D633036616139656  
338653536000000042000801000000304200A070000000C782D61747472696275746532000000042000B07  
0000000E4D6F64696669656456616C7565320000

**Page 57: [164] Deleted** **Mathias Björkqvist** **9/24/2009 2:17 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F7 (Thu Jul  
30 17:15:03 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000E (Modify  
Attribute)  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 1C27761B124BFE06  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-  
4209-8a43-c06aa9ec8e56  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue1  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000E (Modify  
Attribute)  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 167C5332C5007D81  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-  
4209-8a43-c06aa9ec8e56  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue2

**Page 57: [165] Deleted** **Mathias Björkqvist** **9/24/2009 2:17 PM**  
42007601000001A04200750100000048420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8F742000D0200000004000000020000000042  
000F01000000A042005705000000040000000E0000000042009008000000081C27761B124BFE0642007A05000  
00004000000000000000420077010000006842008F070000002432326362653134332D666564622D34323039  
2D386134332D6330366161396563386535360000000042000801000000304200A070000000C782D617474726  
96275746531000000042000B070000000E4D6F64696669656456616C756531000042000F01000000A0420057  
05000000040000000E000000004200900800000008167C5332C5007D8142007A050000000400000000000000  
0420077010000006842008F070000002432326362653134332D666564622D343230392D386134332D63303661  
61396563386535360000000042000801000000304200A070000000C782D61747472696275746532000000004  
2000B070000000E4D6F64696669656456616C7565320000

**Page 58: [166] Deleted** **Mathias Björkqvist** **9/24/2009 2:17 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000F (Delete  
Attribute)  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 654B7833A879B8C8  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute)  
 Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 7F8D524BCE36A535  
 Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2

**Page 59: [167] Deleted Mathias Björkqvist 9/24/2009 2:18 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8F7 (Thu Jul 30 17:15:03 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute)  
 Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 654B7833A879B8C8  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute1  
 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue1  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000F (Delete Attribute)  
 Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 7F8D524BCE36A535  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-attribute2  
 Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: ModifiedValue2

**Page 59: [168] Deleted Mathias Björkqvist 9/24/2009 2:17 PM**

42007601000001A04200750100000048420065010000002042006602000000040000000000000000420067020000004000000620000000042008E090000000800000004A71B8F742000D02000000400000002000000004200F01000000A042005705000000040000000F000000004200900800000008654B7833A879B8C842007A0500000040000000000000000420077010000006842008F070000002432326362653134332D666564622D343230392D386134332D6330366161396563386535360000000420008010000003042000A070000000C782D61747472696275746531000000042000B070000000E4D6F64696669656456616C756531000042000F01000000A04200570500000040000000F0000000042009008000000087F8D524BCE36A53542007A0500000040000000000000000420077010000006842008F070000002432326362653134332D666564622D343230392D386134332D6330366161396563386535360000000420008010000003042000A070000000C782D61747472696275746532000000042000B070000000E4D6F64696669656456616C7565320000

**Page 59: [169] Deleted Mathias Björkqvist 9/24/2009 2:18 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
 Tag: Request Payload (0x420074), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56

**Page 59: [170] Deleted** **Mathias Björkqvist** **9/24/2009 2:18 PM**  
4200730100000090420072010000003842006501000000204200660200000040000000000000000420067020  
0000004000000620000000042000D020000000400000001000000004200F0100000048420057050000000400  
00000A00000000420074010000003042008F070000002432326362653134332D666564622D343230392D38613  
4332D63303661613965633865353600000000

**Page 60: [171] Deleted** **Mathias Björkqvist** **9/24/2009 2:19 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F7 (Thu Jul  
30 17:15:03 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric  
Key)  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-  
4209-8a43-c06aa9ec8e56  
Tag: Symmetric Key (0x42008A), Type: Structure (0x01), Data:  
Tag: Key Block (0x42003C), Type: Structure (0x01), Data:  
Tag: Key Value Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001  
Tag: Key Value (0x42003F), Type: Structure (0x01), Data:  
Tag: Key Material (0x42003D), Type: Octet String (0x08), Data:  
176CFFCB50904DB2AFD75D1FFF74F14F  
Tag: Cryptographic Algorithm (0x420025), Type: Enumeration (0x05), Data:  
0x00000003 (AES)  
Tag: Cryptographic Length (0x420026), Type: Integer (0x02), Data: 0x00000080  
(128)

**Page 60: [172] Deleted** **Mathias Björkqvist** **9/24/2009 2:18 PM**  
4200760100000120420075010000004842006501000000204200660200000040000000000000000420067020  
00000040000006200000000042008E0900000008000000004A71B8F742000D0200000004000000010000000042  
000F01000000C842005705000000040000000A0000000042007A05000000040000000000000000042007701000  
000A04200520500000004000000020000000042008F070000002432326362653134332D666564622D34323039  
2D386134332D633036616139656338653536000000042008A010000005842003C01000000504200400500000  
0040000000010000000042003F010000001842003D0800000010176CFFCB50904DB2AFD75D1FFF74F14F420025  
0500000004000000030000000042002602000000040000008000000000

**Page 60: [173] Deleted** **Mathias Björkqvist** **9/24/2009 2:19 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-  
4209-8a43-c06aa9ec8e56

**Page 60: [174] Deleted** **Mathias Björkqvist** **9/24/2009 2:19 PM**  
4200730100000090420072010000003842006501000000204200660200000040000000000000000420067020  
0000004000000620000000042000D020000000400000001000000004200F0100000048420057050000000400  
00001400000000420074010000003042008F070000002432326362653134332D666564622D343230392D38613  
4332D63303661613965633865353600000000

**Page 60: [175] Deleted** **Mathias Björkqvist** **9/24/2009 2:19 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F8 (Thu Jul 30 17:15:04 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 22cbe143-fedb-4209-8a43-c06aa9ec8e56

**Page 62: [176] Deleted** **Mathias Björkqvist** **9/24/2009 2:25 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
Tag: Template-Attribute (0x42008D), Type: Structure (0x01), Data:  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Algorithm  
Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000003 (AES)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Length  
Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000080 (128)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
Tag: Name Value (0x420050), Type: Text String (0x07), Data: Key1  
Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001 (Uninterpreted text string)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage Mask  
Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000004 (Encrypt)

**Page 62: [177] Deleted** **Mathias Björkqvist** **9/24/2009 2:25 PM**  
420073010000016042007201000000384200650100000020420066020000004000000000000000420067020  
0000004000000620000000042000D0200000004000000010000000042000F0100000118420057050000000400  
0000010000000042007401000001004200520500000004000000020000000042008D01000000E842000801000  
0003042000A070000001743727970746F6772617068696320416C676F726974686D0042000B05000000040000  
000300000000420008010000003042000A070000001443727970746F67726170686963204C656E67746800000  
00042000B020000004000000800000000420008010000003842000A07000000044E616D65000000042000B  
010000002042005007000000044B657931000000042004F05000000040000000100000000420008010000003  
042000A070000001843727970746F67726170686963205573616765204D61736B42000B020000000400000004  
00000000

**Page 62: [178] Deleted** **Mathias Björkqvist** **9/24/2009 2:26 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)



Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F8 (Thu Jul 30 17:15:04 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000001 (Create)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335

**Page 62: [179] Deleted Mathias Björkqvist 9/24/2009 2:26 PM**

42007601000000C042007501000000484200650100000020420066020000000400000000000000004200670200000004000000620000000042008E0900000008000000004A71B8F842000D0200000004000000010000000042007A0500000004000000000000000042007701000000404200520500000004000000020000000042008F070000002439343131656136342D656566372D34353132D616437352D63353136353038333833333500000000

**Page 63: [180] Deleted Mathias Björkqvist 9/24/2009 2:27 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 2470BEBF04DB1DAA  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Activation Date  
Tag: Attribute Value (0x42000B), Type: Date-Time (0x09), Data: 0x0000000000000002 (Thu Jan 01 01:00:02 CET 1970)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 7266E87E2198E367  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Protect Stop Date  
Tag: Attribute Value (0x42000B), Type: Date-Time (0x09), Data: 0x000000004A71BB50 (Thu Jul 30 17:25:04 CEST 2009)

**Page 63: [181] Deleted Mathias Björkqvist 9/24/2009 2:27 PM**

420073010000016842007201000000384200650100000020420066020000000400000000000000004200670200000004000000620000000042000D020000000400000000200000000042000F010000008842005705000000040000000000000042009008000000082470BEBF04DB1DAA420074010000006042008F070000002439343131656136342D656566372D343531322D616437352D63353136353038333833333500000000420008010000002842000A070000000F41637469766174696F6E20446174650042000B0900000008000000000000000242000F010000009042005705000000040000000D000000004200900800000087266E87E2198E367420074010000006842008F070000002439343131656136342D656566372D343531322D616437352D63353136353038333833333500000000420008010000003042000A070000001150726F746563742053746F7020446174650000000000000042000B090000008000000004A71BB50

**Page 64: [182] Deleted Mathias Björkqvist 9/24/2009 2:27 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8F9 (Thu Jul 30 17:15:05 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000002 (2)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
 Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 2470BEBF04DB1DAA  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Activation Date  
 Tag: Attribute Value (0x42000B), Type: Date-Time (0x09), Data: 0x0000000000000002 (Thu Jan 01 01:00:02 CET 1970)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
 Tag: Unique Message ID (0x420090), Type: Octet String (0x08), Data: 7266E87E2198E367  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Protect Stop Date  
 Tag: Attribute Value (0x42000B), Type: Date-Time (0x09), Data: 0x000000004A71BB50 (Thu Jul 30 17:25:04 CEST 2009)

Page 64: [183] Deleted	Mathias Björkqvist	9/24/2009 2:27 PM
42007601000001984200750100000048420065010000002042006602000000040000000000000004200670200000004000000620000000042008E0900000008000000004A71B8F942000D0200000004000000020000000042000F010000009842005705000000040000000D0000000042009008000000082470BEBF04DB1DAA42007A0500000040000000000000000420077010000006042008F070000002439343131656136342D656566372D343531322D616437352D633531363530383333333500000000420008010000002842000A070000000F41637469766174696F6E20446174650042000B0900000008000000000000000242000F01000000A042005705000000040000000D0000000042009008000000087266E87E2198E36742007A0500000004000000000000000420077010000006842008F070000002439343131656136342D656566372D343531322D616437352D63353136353038333333350000000420008010000003042000A070000001150726F746563742053746F702044617465000000000000042000B0900000008000000004A71BB50		

Page 64: [184] Deleted	Mathias Björkqvist	9/24/2009 2:28 PM
Tag: Request Message (0x420073), Type: Structure (0x01), Data: Tag: Request Header (0x420072), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1) Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute) Tag: Request Payload (0x420074), Type: Structure (0x01), Data: Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335 Tag: Attribute (0x420008), Type: Structure (0x01), Data: Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Usage Limits Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data: Tag: Usage Limits Total Bytes (0x420094), Type: Big Integer (0x04), Data: 03E8 (1000)		

Page 64: [185] Deleted	Mathias Björkqvist	9/24/2009 2:28 PM
42007301000000C8420072010000003842006501000000204200660200000004000000000000000420067020000004000000620000000042000D0200000004000000010000000042000F01000000804200570500000004000000D00000000420074010000006842008F070000002439343131656136342D656566372D343531322D616437352D63353136353038333333333500000000420008010000003042000A07000000C5573616765204C696D697473000000042000B0100000010420094040000008000000000000003E8		

Page 65: [186] Deleted	Mathias Björkqvist	9/24/2009 2:28 PM
Tag: Response Message (0x420076), Type: Structure (0x01), Data: Tag: Response Header (0x420075), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)		

Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FA (Thu Jul 30 17:15:06 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
   Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute)  
   Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
   Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
     Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335  
     Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
       Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Usage Limits  
       Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
         Tag: Usage Limits Total Bytes (0x420094), Type: Big Integer (0x04), Data: 00000000000003E8 (1000)  
         Tag: Usage Limits Byte Count (0x420092), Type: Big Integer (0x04), Data: 00000000000003E8 (1000)

Page 65: [187] Deleted	Mathias Björkqvist	9/24/2009 2:28 PM
42007601000000F84200750100000048420065010000002042006602000000400000000000000420067020 0000004000000620000000042008E0900000008000000004A71B8FA4200D0200000004000000010000000042 000F01000000A042005705000000040000000D0000000042007A050000000400000000000000042007701000 0007842008F070000002439343131656136342D656566372D343531322D616437352D63353136353038333833 33350000000042008010000004042000A070000000C5573616765204C696D697473000000004200B0100000 020420094040000000800000000000003E84200920400000008000000000000003E8		

Page 65: [188] Deleted	Mathias Björkqvist	9/24/2009 2:28 PM
Tag: Request Message (0x420073), Type: Structure (0x01), Data: Tag: Request Header (0x420072), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1) Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate) Tag: Request Payload (0x420074), Type: Structure (0x01), Data: Tag: Attribute (0x420008), Type: Structure (0x01), Data: Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key) Tag: Attribute (0x420008), Type: Structure (0x01), Data: Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data: Tag: Name Value (0x420050), Type: Text String (0x07), Data: Key1 Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001 (Uninterpreted text string)		

Page 65: [189] Deleted	Mathias Björkqvist	9/24/2009 2:28 PM
42007301000000D042007201000000384200650100000020420066020000004000000000000000420067020 0000004000000620000000042000D0200000004000000010000000042000F0100000088420057050000000400 00000800000000420074010000007042008010000002842000A070000000B4F626A656374205479706500000 000042000B0500000004000000020000000420008010000003842000A07000000044E616D65000000004200 0B010000002042005007000000044B6579310000000042004F05000000040000000100000000		

Page 66: [190] Deleted	Mathias Björkqvist	9/24/2009 2:29 PM
Tag: Response Message (0x420076), Type: Structure (0x01), Data: Tag: Response Header (0x420075), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FB (Thu Jul 30 17:15:07 CEST 2009) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1) Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate) Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success) Tag: Response Payload (0x420077), Type: Structure (0x01), Data:		

Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335

**Page 66: [191] Deleted** **Mathias Björkqvist** **9/24/2009 2:29 PM**  
42007601000000B04200750100000048420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8FB42000D0200000004000000010000000042  
000F01000000584200570500000004000000080000000042007A050000000400000000000000042007701000  
0003042008F070000002439343131656136342D656566372D343531322D616437352D63353136353038333833  
333500000000

**Page 66: [192] Deleted** **Mathias Björkqvist** **9/24/2009 2:29 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335

**Page 66: [193] Deleted** **Mathias Björkqvist** **9/24/2009 2:29 PM**  
42007301000000904200720100000038420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042000D0200000004000000010000000042000F0100000048420057050000000400  
0000A00000000420074010000003042008F070000002439343131656136342D656566372D343531322D61643  
7352D63353136353038333833333500000000

**Page 67: [194] Deleted** **Mathias Björkqvist** **9/24/2009 2:30 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FB (Thu Jul 30 17:15:07 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335  
Tag: Symmetric Key (0x42008A), Type: Structure (0x01), Data:  
Tag: Key Block (0x42003C), Type: Structure (0x01), Data:  
Tag: Key Value Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001  
Tag: Key Value (0x42003F), Type: Structure (0x01), Data:  
Tag: Key Material (0x42003D), Type: Octet String (0x08), Data:  
0ABCB1BBF5CE0CEC378DB641146C17CE  
Tag: Cryptographic Algorithm (0x420025), Type: Enumeration (0x05), Data:  
0x00000003 (AES)  
Tag: Cryptographic Length (0x420026), Type: Integer (0x02), Data: 0x00000080  
(128)

**Page 67: [195] Deleted** **Mathias Björkqvist** **9/24/2009 2:29 PM**  
42007601000001204200750100000048420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8FB42000D0200000004000000010000000042  
000F01000000C842005705000000040000000A0000000042007A050000000400000000000000042007701000  
000A042005205000000004000000020000000042008F070000002439343131656136342D656566372D34353132  
2D616437352D6335313635303833383333350000000042008A010000005842003C01000000504200400500000  
004000000010000000042003F010000001842003D08000000100ABCB1BBF5CE0CEC378DB641146C17CE420025  
0500000004000000030000000042002602000000040000008000000000

**Page 67: [196] Deleted** **Mathias Björkqvist** **9/24/2009 2:30 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000011 (Get Usage Allocation)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335  
Tag: Usage Limits Byte Count (0x420092), Type: Big Integer (0x04), Data: 01F4 (500)

**Page 67: [197] Deleted** **Mathias Björkqvist** **9/24/2009 2:30 PM**  
42007301000000A042007201000000384200650100000020420066020000000400000000000000004200670200000004000000620000000042000D0200000004000000010000000042000F01000000584200570500000004000001100000000420074010000004042008F070000002439343131656136342D656566372D343531322D616437352D6335313635303833333333350000000042009204000000080000000000000001F4

**Page 68: [198] Deleted** **Mathias Björkqvist** **9/24/2009 2:30 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FB (Thu Jul 30 17:15:07 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000011 (Get Usage Allocation)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335  
Tag: Usage Limits Byte Count (0x420092), Type: Big Integer (0x04), Data: 00000000000001F4 (500)

**Page 68: [199] Deleted** **Mathias Björkqvist** **9/24/2009 2:30 PM**  
42007601000000C042007501000000484200650100000020420066020000000400000000000000004200670200000004000000620000000042008E0900000008000000004A71B8FB42000D0200000004000000010000000042000F01000000684200570500000004000000110000000042007A05000000040000000000000000420077010000004042008F070000002439343131656136342D656566372D343531322D616437352D6335313635303833333333350000000042009204000000080000000000000001F4

**Page 68: [200] Deleted** **Mathias Björkqvist** **9/24/2009 2:30 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000011 (Get Usage Allocation)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335  
Tag: Usage Limits Byte Count (0x420092), Type: Big Integer (0x04), Data: 01F4 (500)

**Page 68: [201] Deleted** **Mathias Björkqvist** **9/24/2009 2:31 PM**  
42007301000000A042007201000000384200650100000020420066020000000400000000000000004200670200000004000000620000000042000D0200000004000000010000000042000F0100000058420057050000000400

00001100000000420074010000004042008F070000002439343131656136342D656566372D343531322D61643  
7352D63353136353038333333335000000042009204000000800000000000001F4

**Page 69: [202] Deleted** **Mathias Björkqvist** **9/24/2009 2:31 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FB (Thu Jul  
30 17:15:07 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000011 (Get Usage  
Allocation)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-  
4512-ad75-c51650838335  
Tag: Usage Limits Byte Count (0x420092), Type: Big Integer (0x04), Data:  
00000000000001F4 (500)

**Page 69: [203] Deleted** **Mathias Björkqvist** **9/24/2009 2:31 PM**  
42007601000000C0420075010000004842006501000000204200660200000004000000000000000420067020  
00000040000000620000000042008E0900000008000000004A71B8FB42000D0200000004000000010000000042  
000F01000000684200570500000004000000110000000042007A05000000040000000000000042007701000  
0004042008F070000002439343131656136342D656566372D343531322D616437352D63353136353038333833  
333500000000420092040000008000000000000001F4

**Page 69: [204] Deleted** **Mathias Björkqvist** **9/24/2009 2:31 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Object Type  
Tag: Attribute Value (0x42000B), Type: Enumeration (0x05), Data: 0x00000002  
(Symmetric Key)  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Name  
Tag: Attribute Value (0x42000B), Type: Structure (0x01), Data:  
Tag: Name Value (0x420050), Type: Text String (0x07), Data: Key1  
Tag: Name Type (0x42004F), Type: Enumeration (0x05), Data: 0x00000001  
(Uninterpreted text string)

**Page 69: [205] Deleted** **Mathias Björkqvist** **9/24/2009 2:31 PM**  
42007301000000D0420072010000003842006501000000204200660200000004000000000000000420067020  
00000040000000620000000042000D0200000004000000010000000042000F0100000088420057050000000400  
000008000000004200740100000070420008010000002842000A070000000B4F626A656374205479706500000  
0000042000B0500000004000000200000000420008010000003842000A07000000044E616D65000000004200  
0B010000002042005007000000044B6579310000000042004F05000000040000000100000000

**Page 70: [206] Deleted** **Mathias Björkqvist** **9/24/2009 2:32 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FB (Thu Jul  
30 17:15:07 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)

Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000008 (Locate)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335

**Page 70: [207] Deleted Mathias Björkqvist 9/24/2009 2:31 PM**

42007601000000B042007501000000484200650100000020420066020000000400000000000000004200670200000004000000620000000042008E0900000008000000004A71B8FB42000D020000000400000001000000004200F01000000584200570500000004000000080000000042007A05000000040000000000000000420077010000003042008F0700000002439343131656136342D656566372D343531322D616437352D63353136353038333383333500000000

**Page 70: [208] Deleted Mathias Björkqvist 9/24/2009 2:32 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335

**Page 70: [209] Deleted Mathias Björkqvist 9/24/2009 2:32 PM**

420073010000009042007201000000384200650100000020420066020000000400000000000000004200670200000004000000620000000042000D020000000400000001000000004200F01000000484200570500000004000000A00000000420074010000003042008F0700000002439343131656136342D656566372D343531322D616437352D6335313635303833333500000000

**Page 71: [210] Deleted Mathias Björkqvist 9/24/2009 2:32 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FB (Thu Jul 30 17:15:07 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000A (Get)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335  
Tag: Symmetric Key (0x42008A), Type: Structure (0x01), Data:  
Tag: Key Block (0x42003C), Type: Structure (0x01), Data:  
Tag: Key Value Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001  
Tag: Key Value (0x42003F), Type: Structure (0x01), Data:  
Tag: Key Material (0x42003D), Type: Octet String (0x08), Data: 0ABCb1BBF5CE0CEC378DB641146C17CE  
Tag: Cryptographic Algorithm (0x420025), Type: Enumeration (0x05), Data: 0x00000003 (AES)  
Tag: Cryptographic Length (0x420026), Type: Integer (0x02), Data: 0x00000080 (128)

**Page 71: [211] Deleted Mathias Björkqvist 9/24/2009 2:32 PM**

420076010000012042007501000000484200650100000020420066020000000400000000000000004200670200000004000000620000000042008E0900000008000000004A71B8FB42000D020000000400000001000000004200F01000000c842005705000000040000000A0000000042007A05000000040000000000000000420077010000003042008F0700000002439343131656136342D656566372D343531322D616437352D63353136353038333383333500000000

000A04200520500000004000000020000000042008F070000002439343131656136342D656566372D34353132  
2D616437352D6335313635303833383333350000000042008A010000005842003C01000000504200400500000  
00400000001000000042003F010000001842003D08000000100ABCBI5CE0CEC378DB641146C17CE420025  
0500000004000000030000000042002602000000040000008000000000

**Page 71: [212] Deleted** **Mathias Björkqvist** **9/24/2009 2:32 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000011 (Get Usage Allocation)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335  
Tag: Usage Limits Byte Count (0x420092), Type: Big Integer (0x04), Data: 01F4 (500)

**Page 71: [213] Deleted** **Mathias Björkqvist** **9/24/2009 2:33 PM**  
42007301000000A0420072010000003842006501000000204200660200000004000000000000000420067020  
0000004000000620000000042000D0200000004000000010000000042000F0100000058420057050000000400  
00001100000000420074010000004042008F070000002439343131656136342D656566372D343531322D61643  
7352D63353136353038333833333500000000420092040000000800000000000001F4

**Page 71: [214] Deleted** **Mathias Björkqvist** **9/24/2009 2:33 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FC (Thu Jul 30 17:15:08 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000011 (Get Usage Allocation)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335  
Tag: Usage Limits Byte Count (0x420092), Type: Big Integer (0x04), Data: 0000000000000000 (0)

**Page 72: [215] Deleted** **Mathias Björkqvist** **9/24/2009 3:07 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335

**Page 72: [216] Deleted** **Mathias Björkqvist** **9/24/2009 3:07 PM**  
4200730100000090420072010000003842006501000000204200660200000004000000000000000420067020  
0000004000000620000000042000D0200000004000000010000000042000F0100000048420057050000000400  
00001400000000420074010000003042008F070000002439343131656136342D656566372D343531322D61643  
7352D63353136353038333833333500000000

**Page 72: [217] Deleted** **Mathias Björkqvist** **9/24/2009 3:07 PM**



Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FC (Thu Jul 30 17:15:08 CEST 2009)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
 Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
 Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
 Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: 9411ea64-eef7-4512-ad75-c51650838335

**Page 72: [218] Deleted Mathias Björkqvist 9/24/2009 3:07 PM**

42007601000000B0420075010000004842006501000000204200660200000004000000000000000042006702000000040000006200000000042008E0900000008000000004A71B8FC42000D020000000400000001000000004200F01000000584200570500000004000000140000000042007A050000000400000000000000000042007701000003042008F070000002439343131656136342D656566372D343531322D616437352D6335313635303833383333500000000

**Page 73: [219] Deleted Mathias Björkqvist 9/24/2009 3:09 PM**

Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
 Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
 Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
 Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
 Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000003 (Register)  
 Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
 Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
 Tag: Template-Attribute (0x42008D), Type: Structure (0x01), Data:  
 Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
 Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: Cryptographic Usage Mask  
 Tag: Attribute Value (0x42000B), Type: Integer (0x02), Data: 0x00000004 (Encrypt)  
 Tag: Symmetric Key (0x42008A), Type: Structure (0x01), Data:  
 Tag: Key Block (0x42003C), Type: Structure (0x01), Data:  
 Tag: Key Value Type (0x420040), Type: Enumeration (0x05), Data: 0x00000001  
 Tag: Key Value (0x42003F), Type: Structure (0x01), Data:  
 Tag: Key Material (0x42003D), Type: Octet String (0x08), Data: 0123456789ABCDEF0123456789ABCDEF  
 Tag: Cryptographic Algorithm (0x420025), Type: Enumeration (0x05), Data: 0x00000003 (AES)  
 Tag: Cryptographic Length (0x420026), Type: Integer (0x02), Data: 0x00000080 (128)

**Page 73: [220] Deleted Mathias Björkqvist 9/24/2009 3:09 PM**

4200730100000110420072010000003842006501000000204200660200000004000000000000000042006702000000040000006200000000042000D020000000400000001000000004200F01000000C842005705000000040000030000000042007401000000B042005205000000400000002000000042008D01000000384200801000003042000A070000001843727970746F67726170686963205573616765204D61736B42000B020000000400000004000000042008A010000005842003C0100000050420040050000000400000001000000042003F01000001842003D08000000100123456789ABCDEF0123456789ABCDEF4200250500000004000000030000000042002602000000040000008000000000

**Page 74: [221] Deleted Mathias Björkqvist 9/24/2009 3:10 PM**

Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
 Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
 Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
 Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
 Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)

Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FC (Thu Jul 30 17:15:08 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000003 (Register)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Object Type (0x420052), Type: Enumeration (0x05), Data: 0x00000002 (Symmetric Key)  
  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: efc9e72e-6922-4b36-8651-f91a69924358

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Page 74: [222] Deleted	Mathias Björkqvist	9/24/2009 3:09 PM
42007601000000C042007501000000484200650100000020420066020000000400000000000000004200670200000004000000620000000042008E0900000008000000004A71B8FC42000D020000000400000001000000004200F01000000684200570500000004000000030000000042007A0500000004000000000000000042007701000000404200520500000004000000020000000042008F070000002465666339653732652D363932322D346233362D383635312D66393161363939323433353800000000		

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Page 74: [223] Deleted	Mathias Björkqvist	9/24/2009 3:10 PM
Tag: Request Message (0x420073), Type: Structure (0x01), Data: Tag: Request Header (0x420072), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1) Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute) Tag: Request Payload (0x420074), Type: Structure (0x01), Data: Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: efc9e72e-6922-4b36-8651-f91a69924358 Tag: Attribute (0x420008), Type: Structure (0x01), Data: Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-provider Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: unknown		

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Page 74: [224] Deleted	Mathias Björkqvist	9/24/2009 3:10 PM
42007301000000C042007201000000384200650100000020420066020000000400000000000000004200670200000004000000620000000042000D020000000400000001000000004200F0100000078420057050000000400000000000000042007401000000642008F070000002465666339653732652D363932322D346233362D383635312D6639316136393932343335380000000042008010000002842000A070000000A782D70726F7669646572000000000004200B0700000007756E6B6E6F776E00		

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Page 75: [225] Deleted	Mathias Björkqvist	9/24/2009 3:11 PM
Tag: Response Message (0x420076), Type: Structure (0x01), Data: Tag: Response Header (0x420075), Type: Structure (0x01), Data: Tag: Protocol Version (0x420065), Type: Structure (0x01), Data: Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0) Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98) Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FD (Thu Jul 30 17:15:09 CEST 2009) Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1) Tag: Batch Item (0x42000F), Type: Structure (0x01), Data: Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000D (Add Attribute) Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success) Tag: Response Payload (0x420077), Type: Structure (0x01), Data: Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: efc9e72e-6922-4b36-8651-f91a69924358 Tag: Attribute (0x420008), Type: Structure (0x01), Data: Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-provider Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: unknown		

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Page 75: [226] Deleted	Mathias Björkqvist	9/24/2009 3:10 PM
42007601000000E042007501000000484200650100000020420066020000000400000000000000004200670200000004000000620000000042008E0900000008000000004A71B8FD42000D020000000400000001000000004200F010000008842005705000000040000000D0000000042007A050000000400000000000000000042007701000000		

0006042008F070000002465666339653732652D363932322D346233362D383635312D66393161363939323433  
35380000000420008010000002842000A070000000A782D70726F76696465720000000000042000B0700000  
007756E6B6E6F776E00

**Page 75: [227] Deleted** **Mathias Björkqvist** **9/24/2009 3:11 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000E (Modify Attribute)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: efc9e72e-6922-4b36-8651-f91a69924358  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-provider  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: third party

**Page 75: [228] Deleted** **Mathias Björkqvist** **9/24/2009 3:11 PM**  
420073010000000C84200720100000038420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042000D0200000004000000010000000042000F0100000080420057050000000400  
00000E00000000420074010000006842008F070000002465666339653732652D363932322D346233362D38363  
5312D66393161363939323433353800000000420008010000003042000A070000000A782D70726F7669646572  
0000000000042000B070000000B74686972642070617274790000000000

**Page 76: [229] Deleted** **Mathias Björkqvist** **9/24/2009 3:11 PM**  
Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x00000004A71B8FD (Thu Jul 30 17:15:09 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x0000000E (Modify Attribute)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: efc9e72e-6922-4b36-8651-f91a69924358  
Tag: Attribute (0x420008), Type: Structure (0x01), Data:  
Tag: Attribute Name (0x42000A), Type: Text String (0x07), Data: x-provider  
Tag: Attribute Value (0x42000B), Type: Text String (0x07), Data: third party

**Page 76: [230] Deleted** **Mathias Björkqvist** **9/24/2009 3:11 PM**  
420076010000000E84200750100000048420065010000002042006602000000040000000000000000420067020  
0000004000000620000000042008E0900000008000000004A71B8FD42000D0200000004000000010000000042  
000F010000009042005705000000040000000E0000000042007A0500000004000000000000000042007701000  
0006842008F070000002465666339653732652D363932322D346233362D383635312D66393161363939323433  
35380000000420008010000003042000A070000000A782D70726F7669646572000000000000042000B0700000  
00B74686972642070617274790000000000

**Page 76: [231] Deleted** **Mathias Björkqvist** **9/24/2009 3:12 PM**  
Tag: Request Message (0x420073), Type: Structure (0x01), Data:  
Tag: Request Header (0x420072), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
Tag: Request Payload (0x420074), Type: Structure (0x01), Data:

Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: efc9e72e-6922-4b36-8651-f91a69924358

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4200730100000090420072010000003842006501000000204200660200000040000000000000000420067020000004000000620000000042000D0200000004000000010000000042000F0100000048420057050000000400000140000000420074010000003042008F070000002465666339653732652D363932322D346233362D383635312D66393161363939323433353800000000

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Tag: Response Message (0x420076), Type: Structure (0x01), Data:  
Tag: Response Header (0x420075), Type: Structure (0x01), Data:  
Tag: Protocol Version (0x420065), Type: Structure (0x01), Data:  
Tag: Protocol Version Major (0x420066), Type: Integer (0x02), Data: 0x00000000 (0)  
Tag: Protocol Version Minor (0x420067), Type: Integer (0x02), Data: 0x00000062 (98)  
Tag: Time Stamp (0x42008E), Type: Date-Time (0x09), Data: 0x000000004A71B8FD (Thu Jul 30 17:15:09 CEST 2009)  
Tag: Batch Count (0x42000D), Type: Integer (0x02), Data: 0x00000001 (1)  
Tag: Batch Item (0x42000F), Type: Structure (0x01), Data:  
Tag: Operation (0x420057), Type: Enumeration (0x05), Data: 0x00000014 (Destroy)  
Tag: Result Status (0x42007A), Type: Enumeration (0x05), Data: 0x00000000 (Success)  
Tag: Response Payload (0x420077), Type: Structure (0x01), Data:  
Tag: Unique Identifier (0x42008F), Type: Text String (0x07), Data: efc9e72e-6922-4b36-8651-f91a69924358

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42007601000000B0420075010000004842006501000000204200660200000040000000000000000420067020000004000000620000000042008E0900000008000000004A71B8FD42000D020000000400000001000000004200F01000000584200570500000004000000140000000042007A050000000400000000000000042007701000003042008F0700000002465666339653732652D363932322D346233362D383635312D66393161363939323433353800000000