

An Archiving Profile for OASIS DSS



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Agenda

- **Motivation**
- Architecture
- Interfaces
- Outlook

Motivation

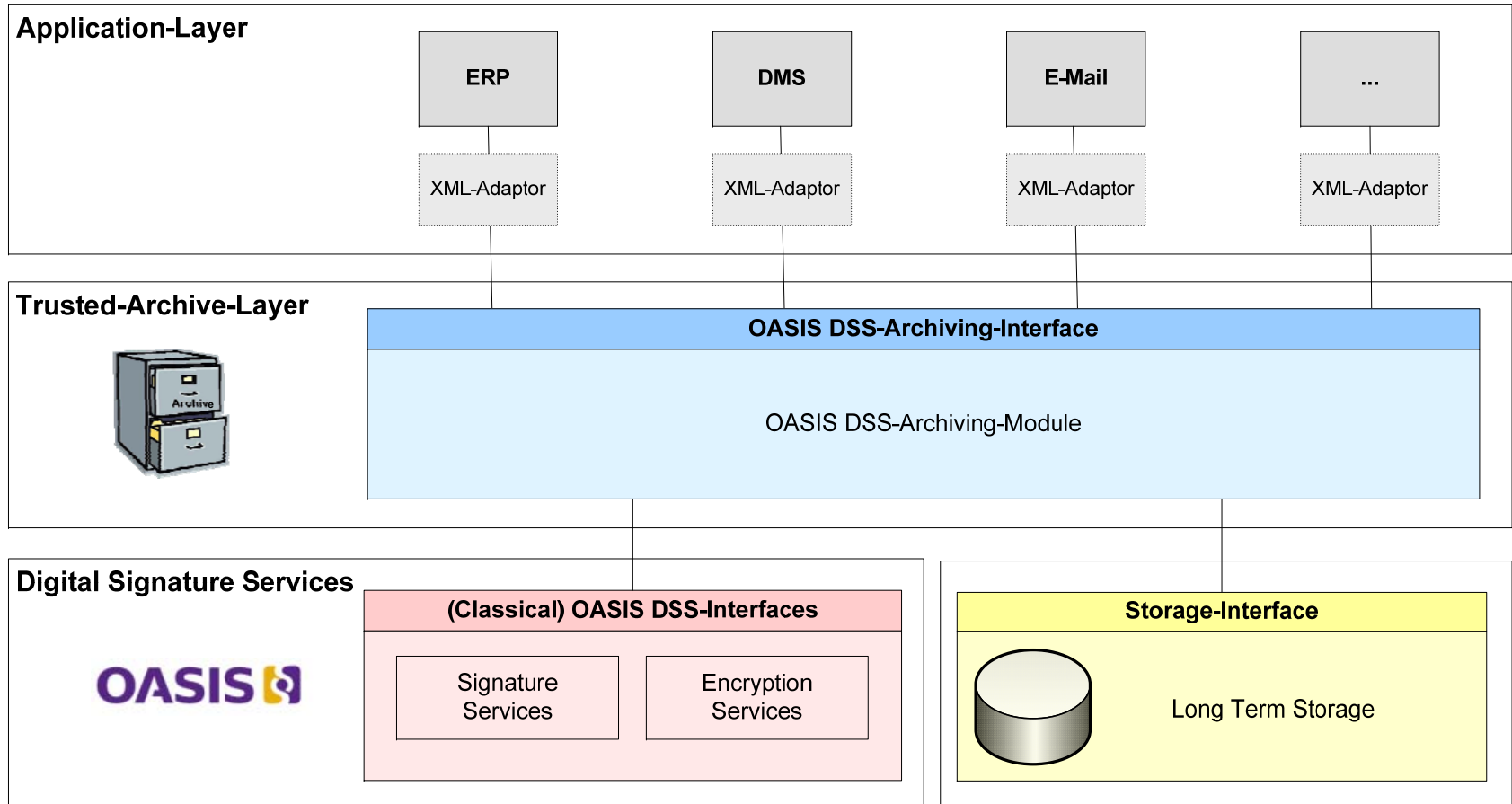
- ❑ It is well known that cryptographic algorithms may become weak due to increased computational power or improved algorithms
- ❑ Hence the conclusiveness of digital signatures may decrease over time ...
- ❑ ... at least if one does not apply appropriate counter-measures such as
 - ❑ Archive Time-Stamps according to XAdES / CAdES
 - ❑ Evidence Records according to RFC 4998
- ❑ Some EU-member-states have explicit legal stipulations for long-term archiving of qualified electronic signatures (e.g. § 17 SigV in Germany)

 **It is an obvious approach to use DSS for long term archiving of signatures and signed data**

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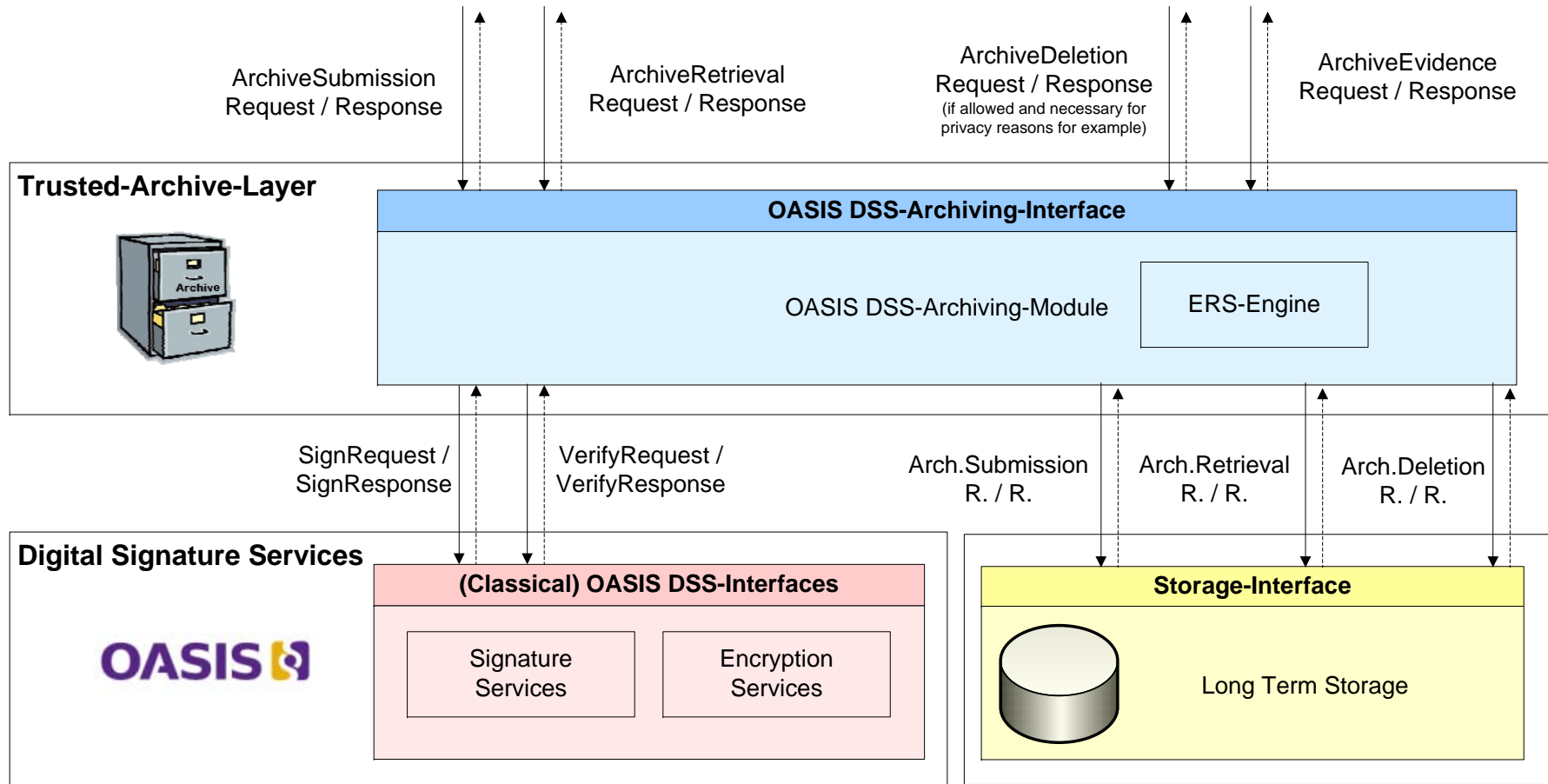
Architecture



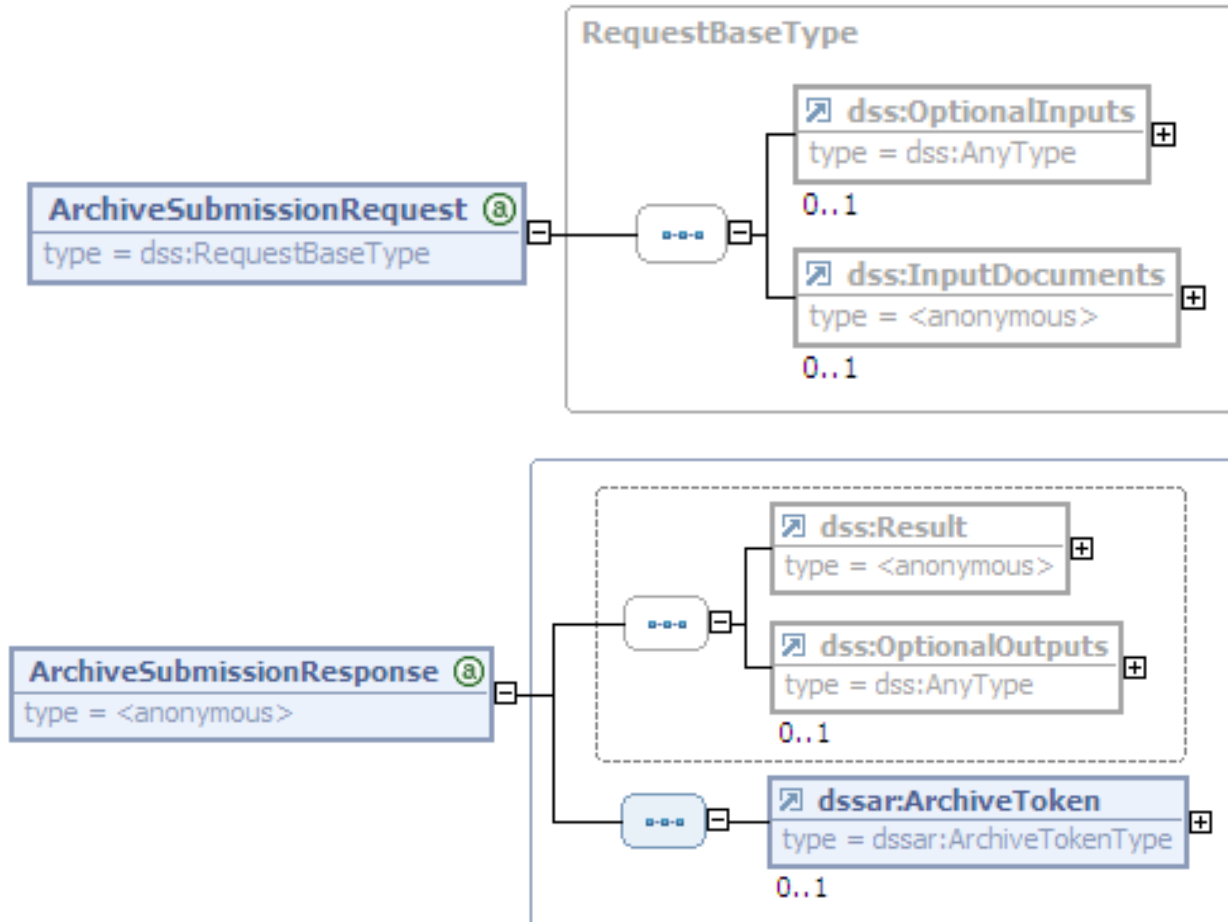
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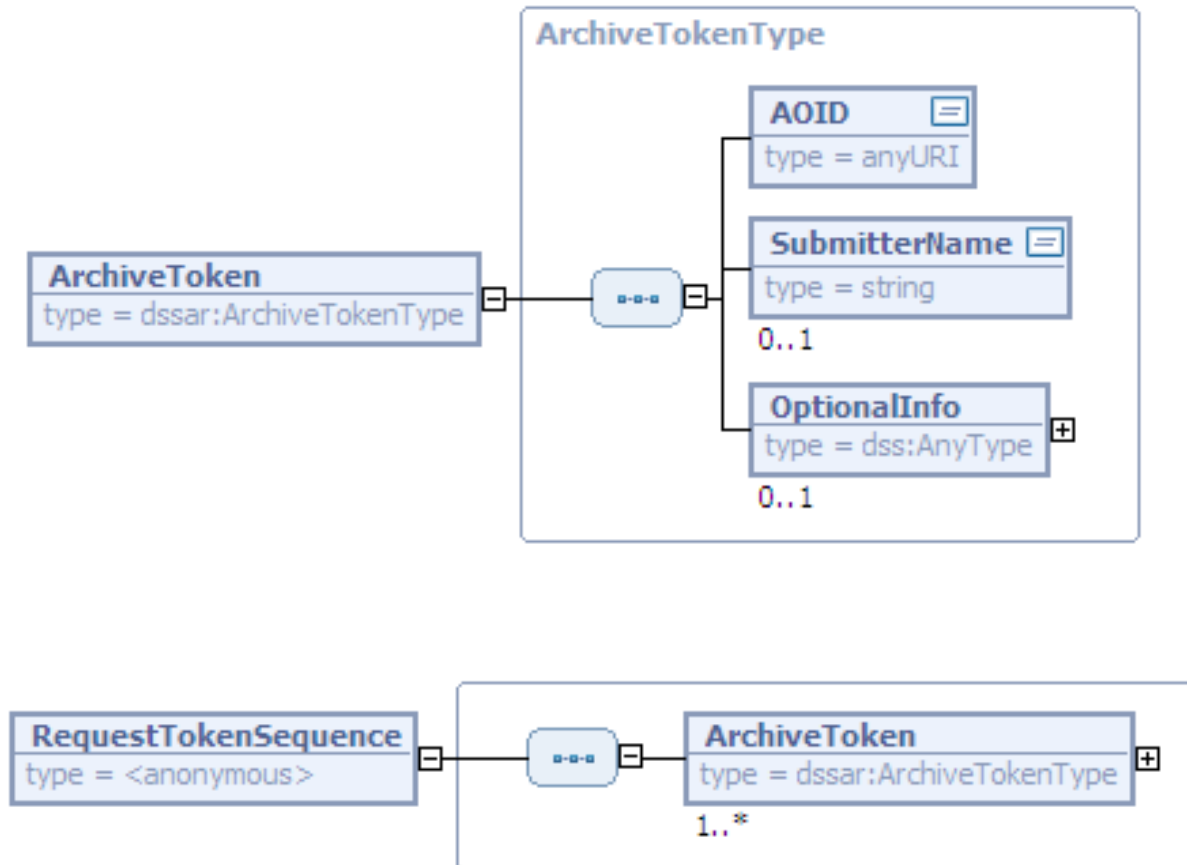
Interfaces



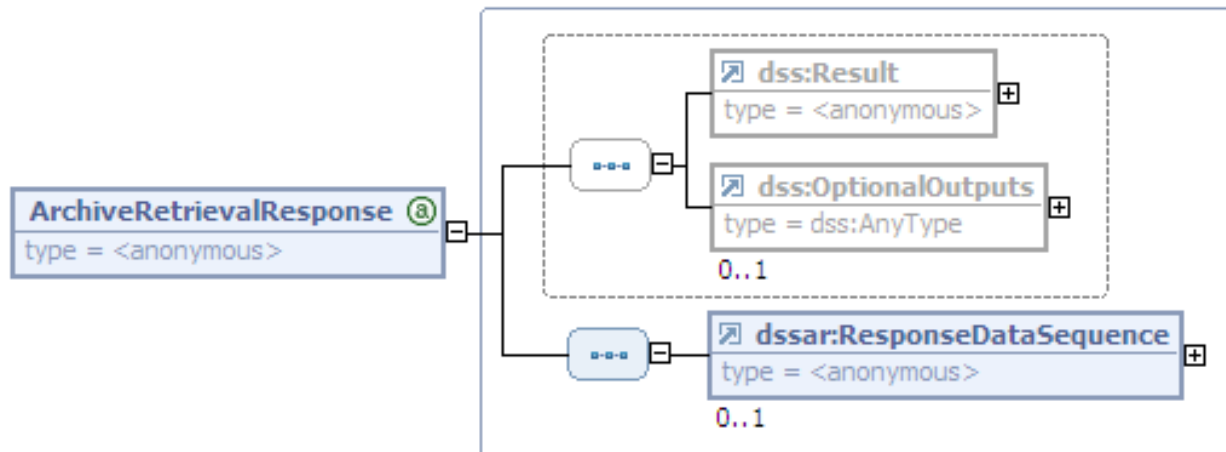
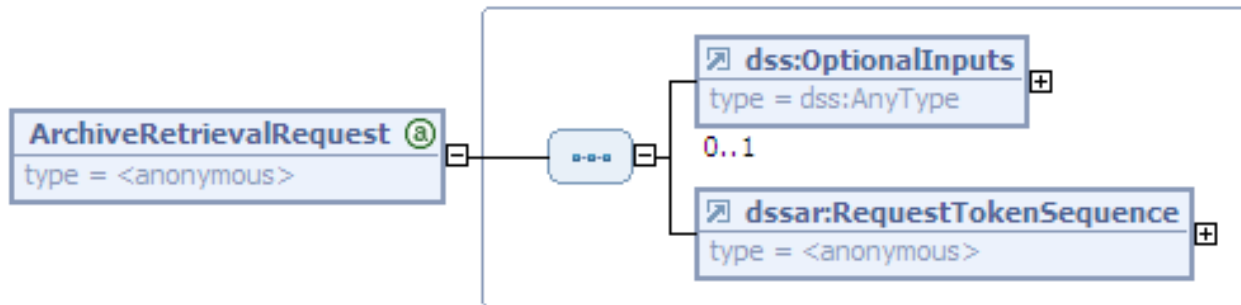
ArchiveSubmission Request / Response



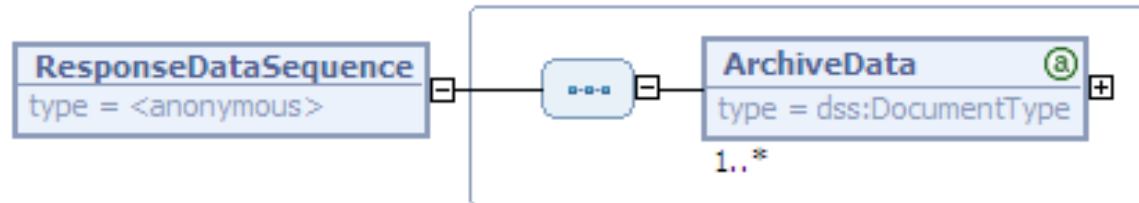
ArchiveToken & RequestTokenSequence



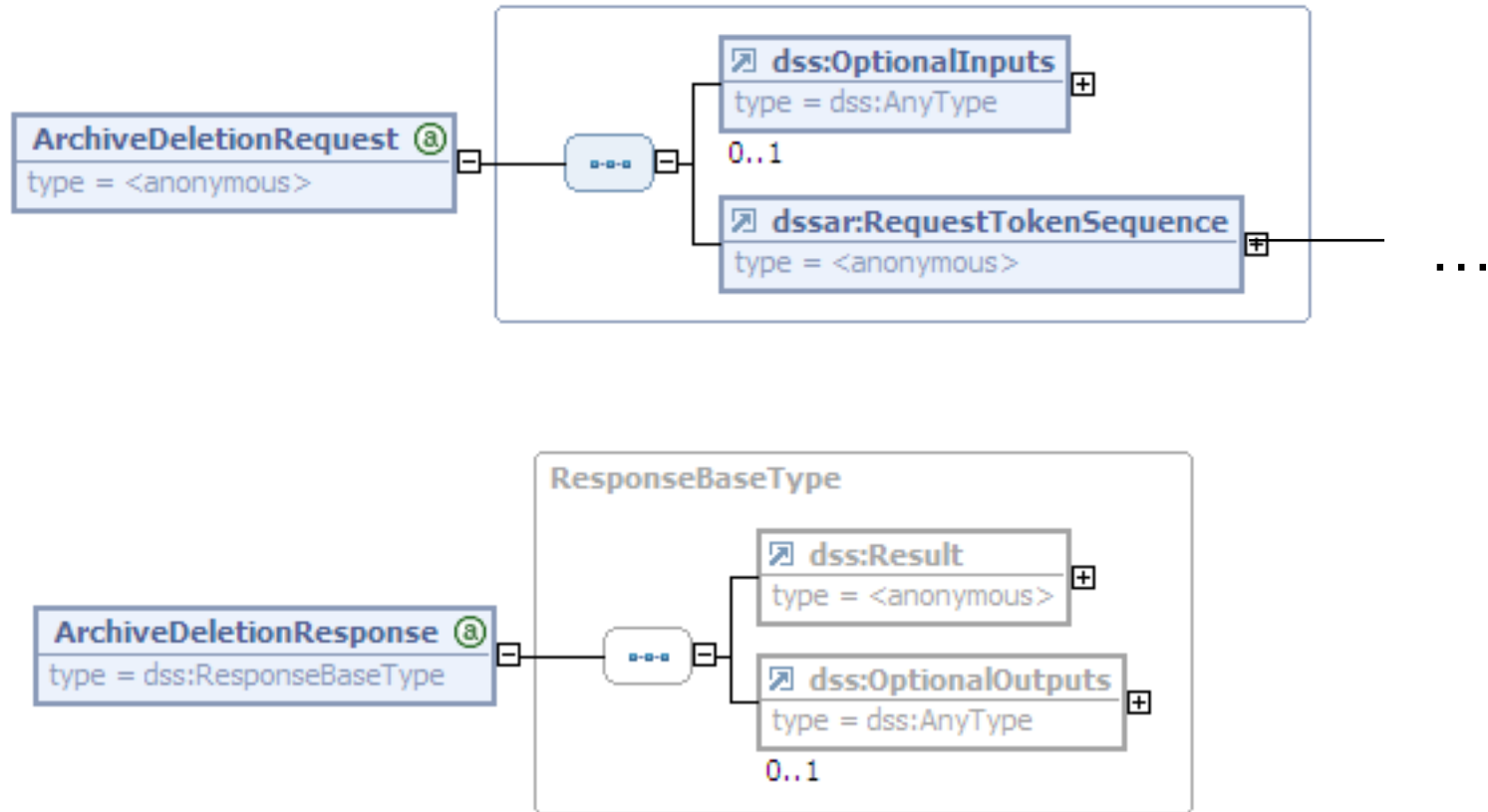
ArchiveRetrieval Request / Response



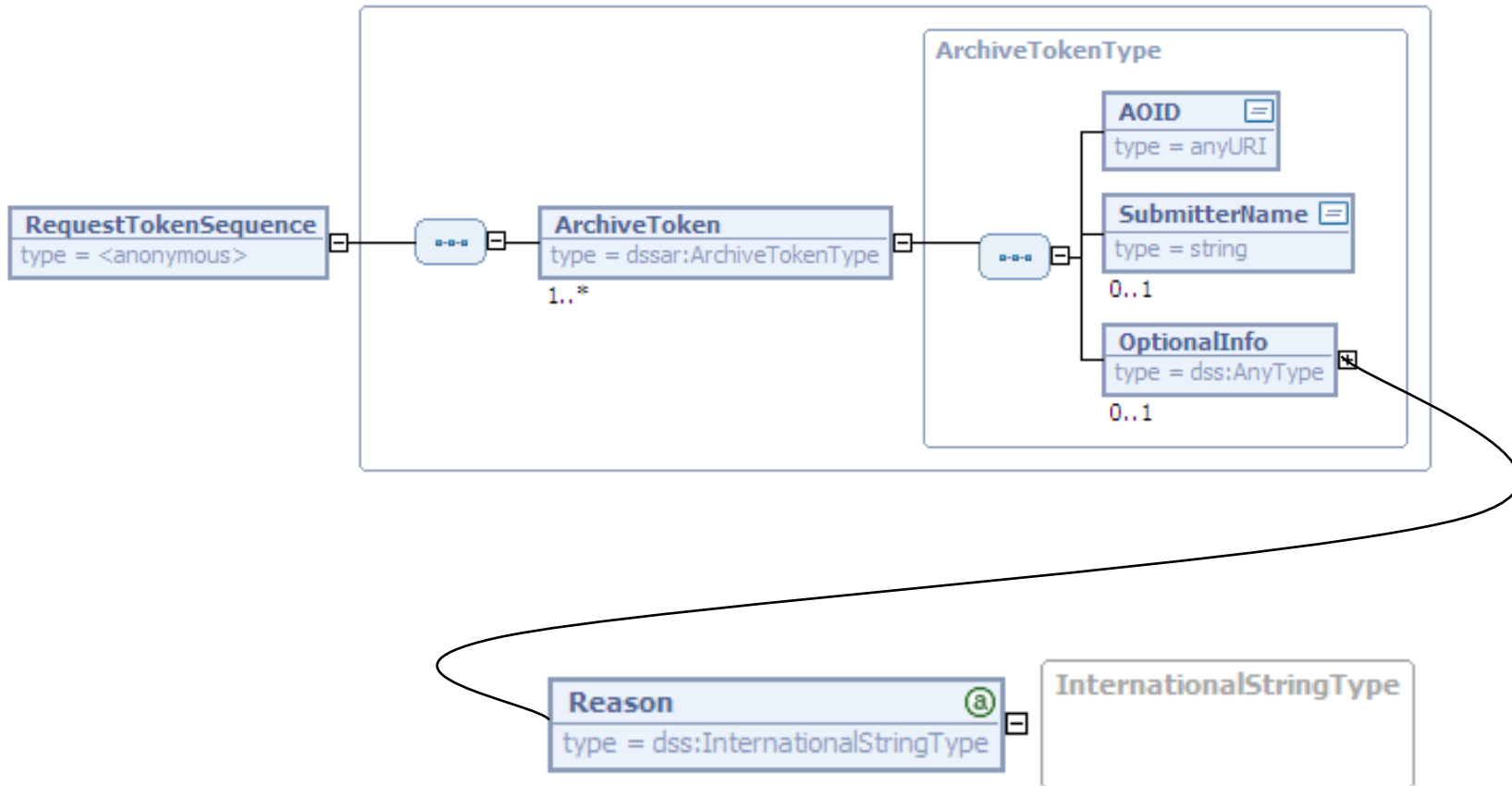
ResponseDataSequence



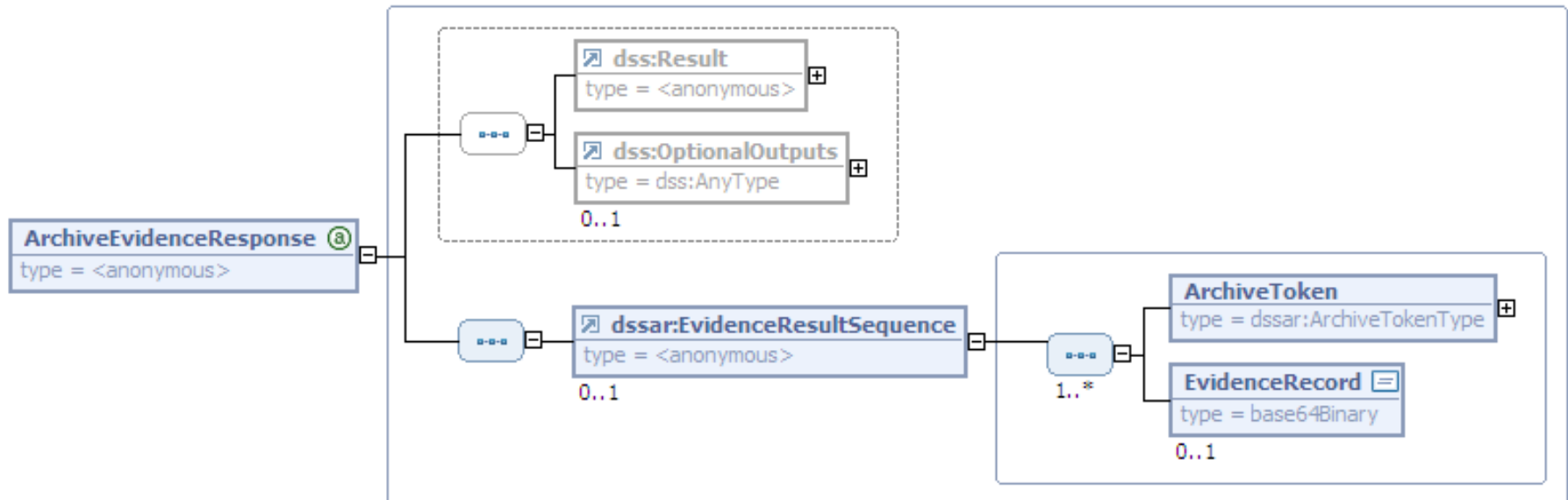
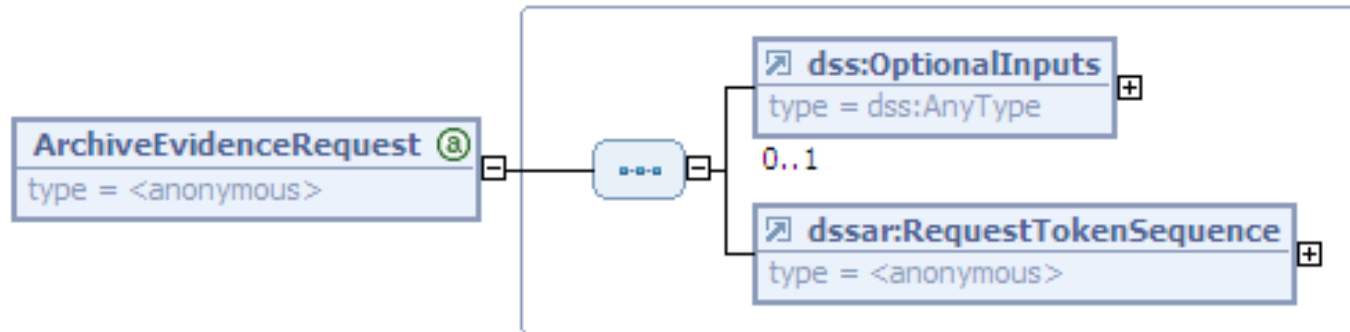
ArchiveDeletion Request / Response



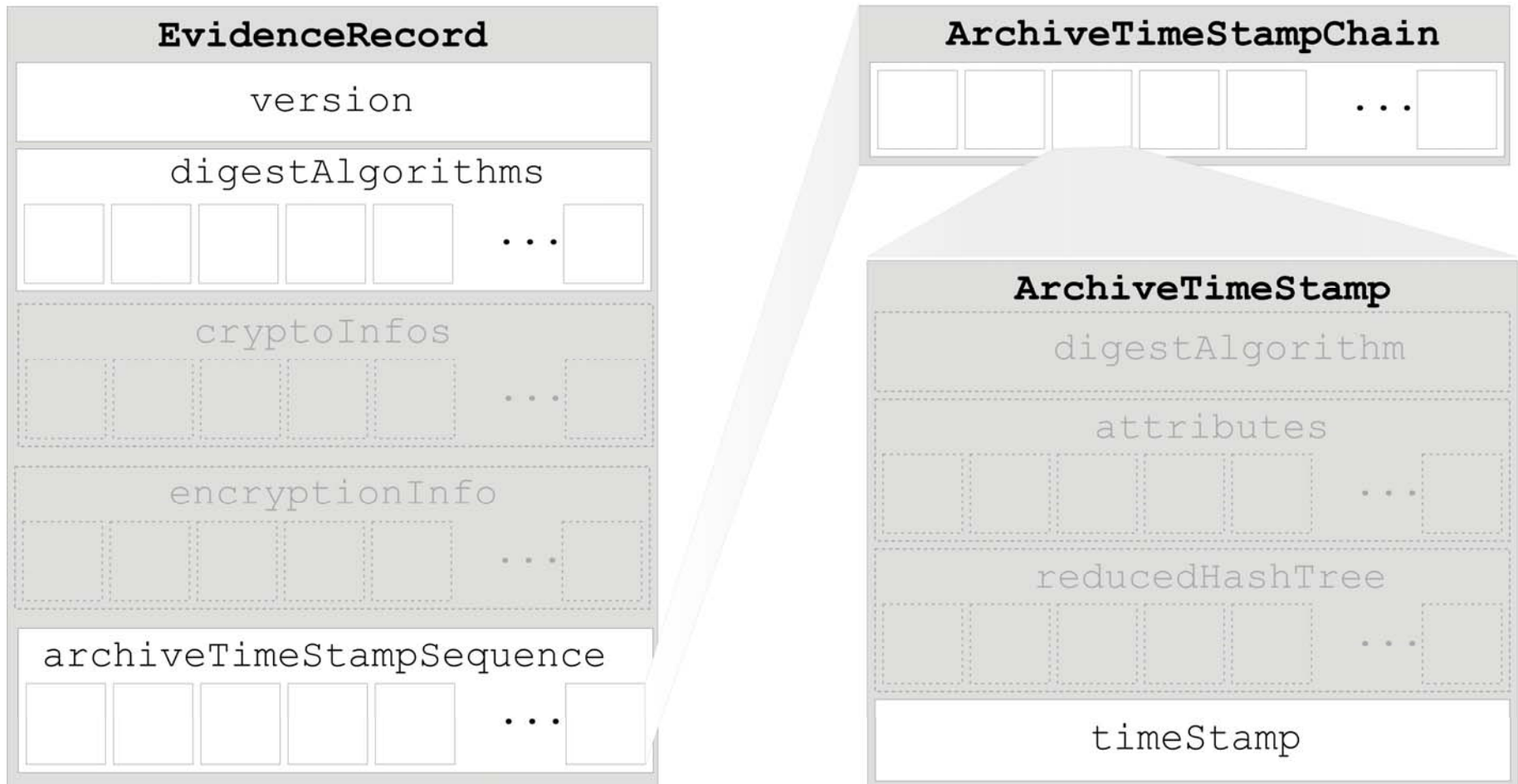
RequestTokenSequence @ ArchiveDeletionRequest



ArchiveEvidence Request / Response



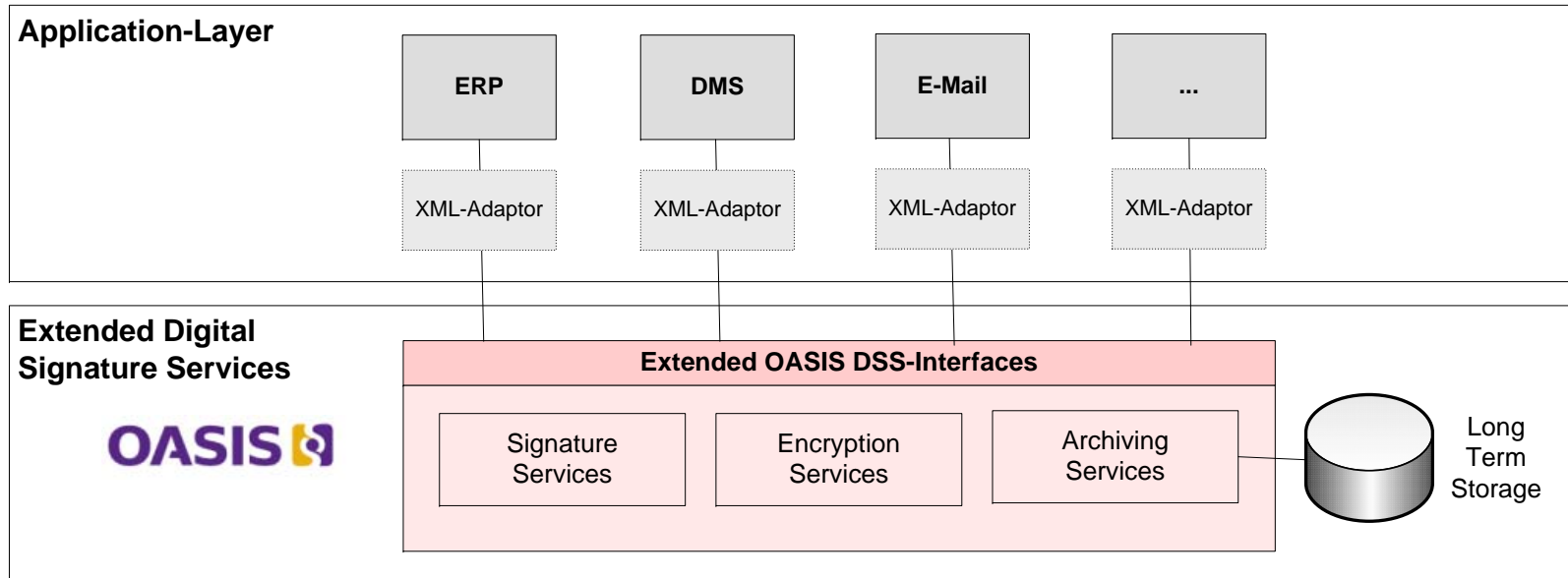
Evidence Record Syntax



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Outlook



<urn:oasis:names:tc:dss:1.0:profiles:archiving:operation:archiveall>
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<urn:oasis:names:tc:dss:1.0:profiles:archiving:operation:archivesignature>

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Thank you very much for your kind attention!

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