

Summary of Content Management Interoperability Services (CMIS) Version 1.1

CMIS specifies a protocol-layer interoperability interface for content management. It addresses the widespread “content silo” problem whereby enterprise contents are trapped in disparate repositories. CMIS also facilitates the emerging “content in the cloud” paradigm and mobile computing. The CMIS v1.0 OASIS Standard contains a domain model with a set of services, and two protocol bindings: a WSDL-based Web Services binding (service-oriented), and a “RESTful” Atom Publishing Protocol binding (resource-oriented). The interface is designed to be easily layer-able on top of most content management systems to provide a common interface for generic content management functions. CMIS is not intended to expose or replace all the capabilities of every proprietary full-function content management system. A summary of CMIS v1.0 can be found at <http://www.oasis-open.org/committees/download.php/36826>.

Since the publication of the CMIS v1.0 standard, many repository vendors have offered CMIS v1.0 services for their products, and many application developers have used CMIS v1.0 to access/manage content. Based on the CMIS v1.0 experience and feedback, the v1.1 specification is developed to further enrich the CMIS functionality and protocol support. Specifically, CMIS v1.1 adds to CMIS v1.0 the following new features:

- **Type Mutability**
Allow CMIS clients to create, modify, and delete Type Definitions and Property Definitions for a given repository.
- **Repository Features**
Allow CMIS clients to discover any extensions or additional CMIS-based standards supported on each repository.
- **Secondary Object Type**
Named sets of properties that can be dynamically added and removed from individual CMIS objects.
- **Retention and Hold**
Use secondary types to support Retention and Hold on CMIS objects. A Retention protects an object from deletion, while a Hold protects an object from modification.
- **“cmis:item” Object Type**
A new top-level data model type that is an extension point for repositories that need to expose other object types via CMIS that do not fit the CMIS model's definition for document, folder, relationship, or policy.
- **“bulkUpdateProperties” Service**
A method for supporting bulk property updates on a set of objects within a single service call.
- **Append to a content stream**
Support for appending to a content stream. Allow clients to break a very large upload of document content into many smaller calls.
- **Browser Binding**
A new optional binding specifically designed to support applications running in a web browser or other clients without the need for any additional client library. Notable among the differences in this binding are the use of JSON (Java Script Object Notation) instead of XML and the exclusive use of HTTP GET and POST for all operations.