

# Content Management Interoperability Services (CMIS) Version 1.1 Errata 01

## Committee Specification Draft 01 / Public Review Draft 01

13 July 2015

### Specification URIs

#### This version:

<http://docs.oasis-open.org/cmisis/CMIS/v1.1/errata01/csprd01/CMIS-v1.1-errata01-csprd01.pdf>  
(Authoritative)  
<http://docs.oasis-open.org/cmisis/CMIS/v1.1/errata01/csprd01/CMIS-v1.1-errata01-csprd01.html>  
<http://docs.oasis-open.org/cmisis/CMIS/v1.1/errata01/csprd01/CMIS-v1.1-errata01-csprd01.doc>

#### Previous version:

N/A

#### Latest version:

<http://docs.oasis-open.org/cmisis/CMIS/v1.1/errata01/CMIS-v1.1-errata01.pdf> (Authoritative)  
<http://docs.oasis-open.org/cmisis/CMIS/v1.1/errata01/CMIS-v1.1-errata01.html>  
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#### Additional artifacts:

This prose specification is one component of a Work Product that also includes:

- *Content Management Interoperability Services (CMIS) Version 1.1 Plus Errata 01*. Edited by Florian Müller and Ken Baclawski. 13 July 2015. OASIS Standard Incorporating Draft 01 of Errata 01. <http://docs.oasis-open.org/cmisis/CMIS/v1.1/errata01/csprd01/CMIS-v1.1-errata01-csprd01-complete.html>.
- XML schemas, WSDL and Orderly schema: <http://docs.oasis-open.org/cmisis/CMIS/v1.1/errata01/csprd01/schema/>.
- XML and JSON examples: <http://docs.oasis-open.org/cmisis/CMIS/v1.1/errata01/csprd01/examples/>.
- TeX source files for this prose document: <http://docs.oasis-open.org/cmisis/CMIS/v1.1/errata01/csprd01/tex/>.

#### Related work:

This specification is related to:

- *Content Management Interoperability Services (CMIS) Version 1.1*. Edited by Florian Müller, Ryan McVeigh, and Jens Hübel. 23 May 2013. OASIS Standard. <http://docs.oasis-open.org/cmisis/CMIS/v1.1/os/CMIS-v1.1-os.html>.

**Declared XML namespaces:**

- <http://docs.oasis-open.org/ns/cmisis/core/200908/>
- <http://docs.oasis-open.org/ns/cmisis/restatom/200908/>
- <http://docs.oasis-open.org/ns/cmisis/messaging/200908/>
- <http://docs.oasis-open.org/ns/cmisis/ws/200908/>
- <http://docs.oasis-open.org/ns/cmisis/link/200908/>

**Abstract:**

This document lists errata for the OASIS Standard *Content Management Interoperability Services (CMIS) Version 1.1*.

**Status:**

This document was last revised or approved by the OASIS Content Management Interoperability Services (CMIS) TC on the above date. The level of approval is also listed above. Check the “Latest version” location noted above for possible later revisions of this document. Any other numbered Versions and other technical work produced by the Technical Committee (TC) are listed at [https://www.oasis-open.org/committees/tc\\_home.php?wg\\_abbrev=cmisis#technical](https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=cmisis#technical).

TC members should send comments on this specification to the TC’s email list. Others should send comments to the TC’s public comment list, after subscribing to it by following the instructions at the “Send A Comment” button on the TC’s web page at <https://www.oasis-open.org/committees/cmisis/>.

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**Citation format:**

When referencing this specification the following citation format should be used:

**[CMIS-V1.1-Errata01]**

*Content Management Interoperability Services (CMIS) Version 1.1 Errata 01*. Edited by Florian Müller and Ken Baclawski. 13 July 2015. OASIS Committee Specification Draft 01 / Public Review Draft 01. <http://docs.oasis-open.org/cmisis/CMIS/v1.1/errata01/csprd01/CMIS-v1.1-errata01-csprd01.html>. Latest version: <http://docs.oasis-open.org/cmisis/CMIS/v1.1/errata01/CMIS-v1.1-errata01.html>.

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# 1 Introduction

This document lists the approved errata to the CMIS v1.1 OASIS Standard. Each one has a number that refers to the issue that triggered the erratum.

As required by the OASIS Technical Committee Process, the approved errata represent changes that are not “substantive”. The changes focus on clarifications to ambiguous or conflicting specification text, where different compliant implementations might have reasonably chosen different interpretations. The intent of the CMIS TC has been to resolve such issues in service of improved interoperability based on implementation and deployment experience.

In this document, errata change instructions are presented with surrounding context as necessary to make the intent clear. Original specification text is often presented as follows, with problem text highlighted in bold:

This is an original specification sentence. **The second sentence needs to be changed, removed, or replaced.**

New specification text is typically presented as follows, with new or changed text highlighted in bold:

This is a highly original specification sentence. **This is the wholly new content to replace the old second sentence. It runs on and on and on.**

In a few cases, text needs only to be struck, in which case the change is shown as follows, with text to be removed both highlighted in bold and struck through:

This is yet another original specification sentence which contains ~~**an in appropriately**~~ long description.

In addition to this normative document, non-normative “errata composite” documents may be provided that combine the prescribed corrections with the original specification text, illustrating the changes with margin change bars, struck-through original text, and highlighted new text. These documents, if available, will be found at the same location as this approved form.

## 1.1 Terminology

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

## 1.2 Normative References

- |             |   |
|-------------|---|
| [RFC2119]   | Bradner, S., “Key words for use in RFCs to Indicate Requirement Levels”, BCP 14, RFC 2119, March 1997. <a href="http://www.ietf.org/rfc/rfc2119.txt">http://www.ietf.org/rfc/rfc2119.txt</a> .  |
| [CMIS-v1.1] | <i>Content Management Interoperability Services (CMIS) Version 1.1</i> . 23 May 2013. OASIS Standard. <a href="http://docs.oasis-open.org/cmisis/CMIS/v1.1/os/CMIS-v1.1-os.html">http://docs.oasis-open.org/cmisis/CMIS/v1.1/os/CMIS-v1.1-os.html</a> . |

## 1.3 Non-Normative References

- |             |       |
|-------------|-------|
| [Reference] | [...] |
|-------------|-------|

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## 2 Approved Errata

Following are the approved errata to the CMIS v1.1 OASIS Standard.

### 2.1 CMIS Feature Extensions by the Technical Committee

Append the following sentences to section 2.1.1.3, page 19.

The CMIS Technical Committee defines feature extensions over time and publishes them on the CMIS TC web site: <https://www.oasis-open.org/committees/cmis>

These optional extensions are describing features that can be supported by a wide range of repositories and are likely to become part of the next CMIS specification version.

### 2.2 CMIS-748: cmis:objectTypeId definition: Updatability and Required attributes are wrong

Change section 2.1.4.3.3, page 36, section 2.1.5.4.2, page 53, section 2.1.6.1.3, page 61, and section 2.1.8.1.2, page 75.

(Please note that this errata only addresses the Updatability attribute.)

Original:

<b>cmis:objectTypeId</b>	Id of the object's type.
Property Type:	Id
Inherited:	FALSE
Required:	FALSE
Cardinality:	single
<b>Updatability:</b>	<b>readonly</b>
Choices:	Not Applicable
Open Choice:	Not Applicable
Queryable:	SHOULD be TRUE
Orderable:	<repository specific>

The repository MUST return this property with a non-empty value if the property filter does not exclude it.

New:

<b>cmis:objectTypeId</b>	Id of the object's type.
Property Type:	Id
Inherited:	FALSE
Required:	FALSE
Cardinality:	single
<b>Updatability:</b>	<b>oncreate</b>
Choices:	Not Applicable
Open Choice:	Not Applicable
Queryable:	SHOULD be TRUE
Orderable:	<repository specific>

The repository MUST return this property with a non-empty value if the property filter does not exclude it.

---

---

## 2.3 CMIS-749: cmis:contentStreamId has the wrong Property Type

Change section 2.1.4.3.3, page 46.

Original:

<b>cmis:contentStreamId</b>	Id of the content stream. See also section 2.1.4.1 Content Stream.
<b>Property Type:</b>	<b>String</b>
Inherited:	FALSE
Required:	FALSE
Cardinality:	single
Updatability:	readonly
Choices:	Not Applicable
Open Choice:	Not Applicable
Queryable:	<repository specific>
Orderable:	<repository specific>
If the document has no content stream, the repository MUST return "not set".	

New:

<b>cmis:contentStreamId</b>	Id of the content stream. See also section 2.1.4.1 Content Stream.
<b>Property Type:</b>	<b>Id</b>
Inherited:	FALSE
Required:	FALSE
Cardinality:	single
Updatability:	readonly
Choices:	Not Applicable
Open Choice:	Not Applicable
Queryable:	<repository specific>
Orderable:	<repository specific>
If the document has no content stream, the repository MUST return "not set".	

## 2.4 CMIS-750: The property `cmis:allowedChildObjectTypes` is included in the list of orderable properties

Change section 2.2.1.2.7, page 131.

The following set of properties SHOULD be supported by the repository if the optional capability `capabilityOrderBy` is common or custom.

- `cmis:name`
- `cmis:objectId`
- `cmis:objectTypeId`
- `cmis:baseTypeId`
- `cmis:createdBy`
- `cmis:creationDate`
- `cmis:lastModifiedBy`
- `cmis:lastModificationDate`
- `cmis:isImmutable`
- `cmis:isPrivateWorkingCopy`
- `cmis:isLatestVersion`
- `cmis:isMajorVersion`
- `cmis:isLatestMajorVersion`
- `cmis:versionLabel`
- `cmis:versionSeriesId`
- `cmis:isVersionSeriesCheckedOut`
- `cmis:versionSeriesCheckedOutBy`
- `cmis:versionSeriesCheckedOutId`
- `cmis:checkinComment`
- `cmis:contentStreamLength`
- `cmis:contentStreamMimeType`
- `cmis:contentStreamFileName`
- `cmis:contentStreamId`
- `cmis:parentId`
- ~~`cmis:allowedChildObjectTypes`~~
- `cmis:path`



## 2.5 CMIS-751: Permission Mappings for canAddToFolder and canRemoveFromFolder have the wrong base type

Change section 2.1.12.3.2.3, page 91.

Original:

<b>canAddObjectToFolder</b>	
Description:	Can file an object in the specified folder (addObjectToFolder).
<b>Base Type:</b>	<b>cmis:document, cmis:policy, cmis:item</b>
Operand:	Folder
Key:	canAddToFolder.Folder
Permission:	cmis:read

New:

<b>canAddObjectToFolder</b>	
Description:	Can file an object in the specified folder (addObjectToFolder).
<b>Base Type:</b>	<b>cmis:folder</b>
Operand:	Folder
Key:	canAddToFolder.Folder
Permission:	cmis:read

Original:

<b>canRemoveObjectFromFolder</b>	
Description:	Can file an object in the specified folder (addObjectToFolder).
<b>Base Type:</b>	<b>cmis:document, cmis:policy</b>
Operand:	Folder
Key:	canAddToFolder.Folder
Permission:	cmis:read

New:

<b>canRemoveObjectFromFolder</b>	
Description:	Can unfile an object from the specified folder (removeObjectFromFolder).
<b>Base Type:</b>	<b>cmis:folder</b>
Operand:	Folder
Key:	canRemoveFromFolder.Folder
Permission:	cmis:read

## 2.6 CMIS-755: cmis:policyText definition: Updatability and Required attributes are wrong

Change section 2.1.7.1.2, page 71.

Original:

<b>cmis:policyText</b>	User-friendly description of the policy.
Property Type:	String
Inherited:	FALSE
Required:	FALSE
Cardinality:	single
<b>Updatability:</b>	<b>readonly</b>
Choices:	Not Applicable
Open Choice:	Not Applicable
Queryable:	<repository specific>
Orderable:	<repository specific>

New:

<b>cmis:policyText</b>	User-friendly description of the policy.
Property Type:	String
Inherited:	FALSE
Required:	FALSE
Cardinality:	single
<b>Updatability:</b>	<b>readwrite</b>
Choices:	Not Applicable
Open Choice:	Not Applicable
Queryable:	<repository specific>
Orderable:	<repository specific>

## 2.7 CMIS-756: Clarify that support for appendContentStream is optional

Add the following item to the Notes list in section 2.2.4.19, page 174.

Repositories that do not support this service MUST throw a notSupported exception.

## 2.8 CMIS-757: cmis:sourceId and cmis:targetId definitions: Updatability attribute is wrong

Change section 2.1.6.1.3, page 63.

Original:

<b>cmis:sourceId</b>	Id of the source object of the relationship.
Property Type:	Id
Inherited:	FALSE
Required:	FALSE
Cardinality:	single
<b>Updatability:</b>	<b>readonly</b>
Choices:	Not Applicable
Open Choice:	Not Applicable
Queryable:	<repository specific>
Orderable:	<repository specific>
The repository MUST return this property with a non-empty value if the property filter does not exclude it.	

New:

<b>cmis:sourceId</b>	Id of the source object of the relationship.
Property Type:	Id
Inherited:	FALSE
Required:	FALSE
Cardinality:	single
<b>Updatability:</b>	<b>SHOULD be oncreate</b>
Choices:	Not Applicable
Open Choice:	Not Applicable
Queryable:	<repository specific>
Orderable:	<repository specific>
The repository MUST return this property with a non-empty value if the property filter does not exclude it.	

Change section 2.1.6.1.3, page 64.

Original:

<b>cmis:targetId</b>	Id of the target object of the relationship.
Property Type:	Id
Inherited:	FALSE
Required:	FALSE
Cardinality:	single
<b>Updatability:</b>	<b>readonly</b>
Choices:	Not Applicable
Open Choice:	Not Applicable
Queryable:	<repository specific>
Orderable:	<repository specific>
The repository MUST return this property with a non-empty value if the property filter does not exclude it.	

New:

<b>cmis:targetId</b>	Id of the target object of the relationship.
Property Type:	Id
Inherited:	FALSE
Required:	FALSE
Cardinality:	single
<b>Updatability:</b>	<b>SHOULD be oncreate</b>
Choices:	Not Applicable
Open Choice:	Not Applicable
Queryable:	<repository specific>
Orderable:	<repository specific>
The repository MUST return this property with a non-empty value if the property filter does not exclude it.	

## 2.9 CMIS-760: Secondary Object-Type Definition lacks type mutability attributes

Add the following attributes to the list of type attributes in section 2.1.9.2.1, page 79.

```
typeMutability.create  
Value: <repository-specific>  
typeMutability.update  
Value: <repository-specific>  
typeMutability.delete  
Value: <repository-specific>
```

## 2.10 CMIS-761: Rules for query names are described for properties but not for types

Change section 2.1.2.1.3, page 22.

All **object types** and properties **MUST** supply a string `queryName` attribute which is used for query and filter operations on object-types.

## 2.11 CMIS-762: Clarify the impact of repository specific collation

Add the following sentences to section 2.1.14.2.4.1, page 107.

The collation rules used to evaluate comparison predicates for String properties are repository specific.

For example, a predicate of the form

```
... where cmis:name LIKE 'a%' ...
```

**MUST** match a `cmis:name` starting with 'a' and **MAY** match a `cmis:name` starting with 'A'

## 2.12 CMIS-765: Clarification for the GetContentChanges service

Add the following item to the Notes list in section 2.2.6.2, page 182.

If a change log token is specified and the repository knows the corresponding change event, then the repository **MUST** return this change event as the first entry in the result set. A client can then compare the first change event of the call with the last change event of the previous call. If they match, the client knows that it didn't miss a change event. If they don't match, the repository truncated the change log between this call and previous call. That is, the client missed one or more change events and may have to re-crawl the repository.

## 2.13 CMIS-769: getContentChanges specs vs xsd

Change section 2.2.6.2.2, page 182.

Original:

String **latestChangeLogToken**: The change log token corresponding to the last change event in `changeEvents`.

New:

String **changeLogToken**: The change log token corresponding to the last change event in `changeEvents`.

## 2.14 CMIS-770: Clarification on the ordering for mixed-type objects

Add the following sentences to the Description paragraph in section 2.2.1.2.7, page 130.

When mixed-type objects are returned (e.g. `getChildren`), an "orderBy" property may be orderable for one type but not orderable for another type. The order is then repository specific.

## 2.15 CMIS-771: Clarify the query support for secondary types

Append the following sentences to section 2.1.14.1, page 101.

Please note that the following text and the BNF grammar are inconsistent. The text allows the use of secondary object types in FROM clauses and the BNF grammar does not. Because the BNF grammar is the formal description of the query language, it takes precedence over the text. That is, secondary object types **MUST NOT** be used in FROM clauses.

The next version of the CMIS specification will correct the BNF grammar and allow the use of secondary object types in FROM clauses.

A CMIS feature extension has been defined by the CMIS Technical Committee that allows support of secondary object types in FROM clauses also for CMIS 1.1 repositories.

## 2.16 CMIS-775: Clarify the default for includeRelativePathSegment for the getObjectParents service

Change section 2.2.3.5.1, page 151.

Original:

Boolean **includeRelativePathSegment**: See section 2.1.5.3 Paths.

New:

Boolean **includeRelativePathSegment**: If TRUE, returns a relativePathSegment for each parent object for use in constructing that object's paths. The default is repository specific. See section 2.1.5.3 Paths.

## 2.17 CMIS-776: Typo in 2.1.3.1

Change section 2.1.3.1, page 23.

Original:

The scope of a query on a given object-type is automatically expanded to include all the *descendant types* of the given object-type with the attribute **includedInSuperTypeQuery** equals TRUE.

New:

The scope of a query on a given object-type is automatically expanded to include all the *descendant types* of the given object-type with the attribute **includedInSupertypeQuery** equals TRUE.

## 2.18 CMIS-783: Typo in 2.2.4.18

Change section 2.2.4.18, page 173.

Original:

A repository **MAY** automatically create new document versions as part of this service operations.

New:

A repository **MAY** automatically create new document versions as part of this service **method**.

## 2.19 CMIS-784: Typo in 2.2.1.2.1

Change section 2.2.1.2.1, page 127.

Original:

```
Example: cmis:name, amount, worflow.stage
```

New:

```
Example: cmis:name, amount, workflow.stage
```

## 2.20 CMIS-787: CMIS-Core.xsd enumAllowableActionsKey missing canCreatePolicy.Folder

Add the following sentences to the canCreatePolicy item in section 2.1.12.3.2.2, page 88.

```
The canCreatePolicy.Folder key has not been defined in the CMIS schema. CMIS implementations must ignore this permission mapping.
```

---

## Appendix A. Acknowledgments

The following individuals have participated in the creation of this specification and are gratefully acknowledged:

### Participants:

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