CMIS
Content Management Interoperability Services
Cheat Sheet

Services and Operations

Repository Service
getRepositories
getRepositoryInfo
getTypeChildren
getTypeDescendants
getTypeDefinition

Navigation Service
getChildren
getDescendants
getFolderTree
getFolderParent
getObjectParents

Object Service
createDocument
createDocumentFromSource
createFolder
createRelationship
createPolicy
getAllowableActions
getObject
getProperties
getObjectByPath
getContentStream
getRenditions
updateProperties
moveObject
deleteObject
deleteTree
setContentStream
deleteContentStream

Versioning Service
checkOut
cancelCheckOut
checkIn
getObjectOfLatestVersion
getPropertiesOfLatestVersion
getAllVersions

Multi-filing Service
addObjectToFolder
removeObjectFromFolder

Discovery Service
query
getContentChanges

Relationship Service
getObjectRelationships

Policy Service
applyPolicy
removePolicy
getAppliedPolicies

ACL Service
getACL
applyACL

CMIS Base Types Properties

Type	Property	
String	cmis:name	
ID	cmis:objectId	ro
ID	cmis:baseTypeId	ro
ID	cmis:objectTypeId	oc
String	cmis:createdBy	ro
DateTime	cmis:creationDate	ro
String	cmis:lastModifiedBy	ro
DateTime	cmis:lastModificationDate	ro
String	cmis:changetoken	ro
Boolean	cmis:isImmutable	ro
Boolean	cmis:isLatestVersion	ro
Boolean	cmis:isMajorVersion	ro
Boolean	cmis:isLatestMajorVersion	ro
String	cmis:versionLabel	ro
ID	cmis:versionSeriesId	ro
Boolean	cmis:isVersionSeriesCheckedOut	ro
String	cmis:versionSeriesCheckedOutBy	ro
ID	cmis:versionSeriesCheckedOutId	ro
String	cmis:checkinComment	ro
Integer	cmis:contentStreamLength	ro
String	cmis:contentStreamMimeType	ro
String	cmis:contentStreamFileName	
ID	cmis:contentStreamId	ro
ID	cmis:parentId	ro
String	cmis:path	ro
ID (multi)	cmis:allowedChildObjectTypeIds	ro
ID	cmis:sourceId	
ID	cmis:targetId	
String	cmis:policyText	

Allowable Actions

canGetDescendants
canGetFolderTree
canGetChildren
canGetFolderParent
canGetObjectParents
canCreateDocument
canCreateFolder
canCreateRelationship
canGetProperties
canGetRenditions
canGetContentStream
canUpdateProperties
canMoveObject
canDeleteObject
canGetContentStream
canSetContentStream
canDeleteContentStream
canDeleteTree
canAddObjectToFolder
canRemoveObjectFromFolder
canCheckOut
can cancelCheckOut
canCheckIn
canGetAllVersions
canGetObjectRelationships
canApplyPolicy
canRemovePolicy
canGetAppliedPolicies
canGetACL
canApplyACL

Renditions

Type	Property
ID	streamId
String	mimeType
Integer	length
String	title
String	kind
Integer	height
Integer	width

Permissions

cmis:read
cmis:write
cmis:all

Exceptions

invalidArgument
objectNotFound
notSupported
permissionDenied
runtime
constraint
contentAlreadyExists
filterNotValid
nameConstraintViolation
storage
streamNotSupported
updateConflict
versioning

CMIS Query Language

```
SELECT    <property query name> [AS <alias>], <property query name>, SCORE(), ...
FROM      <type query name> [AS <alias>]
WHERE     <condition>
ORDER BY <property query name> [ASC|DESC], <property query name>, ...
```

JOINs:

```
SELECT ...
FROM    <type A query name> [INNER | LEFT [OUTER]] JOIN <type B query name>
        ON (<property A query name> = <property B query name>)
```

Conditions:

```
<property query name> [ = | <> | < | > | <= | >= ] <literal>
<property query name> [NOT] IN (<comma separated literal list>)
<property query name> [NOT] LIKE <string literal>
<property query name> IS [NOT] NULL
<literal> = ANY <multi-value property query name>
CONTAINS(<text search expression>)
IN_FOLDER([<qualifier>,] <folder id>)
IN_TREE([<qualifier>,] <folder id>)
<condition> [ AND | OR ] <condition>
NOT <condition>
```

Timestamp format:

```
TIMESTAMP "YYYY-MM-DDThh:mm:ss.sss[Z|+hh:mm|-hh:mm]"
```

Type	
Type	(yellow)
Object	(grey)
cmis:document	(orange)
cmis:folder	(blue)
cmis:relationship	(green)
cmis:policy	(pink)