Enabler Release Definition for Unified Cloud Disk Enabler (UCD)

Candidate Version 1.0 – 16 Dec 2014

Open Mobile Alliance

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1. Scope

The scope of this document is limited to the Enabler Release Definition of Unified Cloud Disk (UCD) 1.0 according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

[REST_NetAPI_UCD]	"RESTful Network API for Unified Cloud Disk", Open Mobile Alliance™, OMA-TS-REST_NetAPI_UCD-V1_0, URL:http://www.openmobilealliance.org/
[RFC2119]	"Key words for use in RFCs to Indicate Requirement Levels", S. Bradner, March 1997, URL:http://www.ietf.org/rfc/rfc2119.txt
[SCRRULES]	"SCR Rules and Procedures", Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures, URL:http://www.openmobilealliance.org/
[UCD-ER]	"Unified Cloud Disk Enabler", Open Mobile Alliance™, OMA-ER-UCD-V1_0, URL:http://www.openmobilealliance.org/

2.2 Informative References

[OMADICT]	"Dictionary for OMA Specifications", Version 2.9, Open Mobile Alliance™, OMA-ORG-Dictionary-V2_9, URL:http://www.openmobilealliance.org/

3. Terminology and Conventions

3.1 Conventions

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].

All sections and appendixes, except "Scope", "Release Version Overview" and "Conformance Requirements Notation Details", are normative, unless they are explicitly indicated to be informative.

The formal notation convention used in sections 8 and 9 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCRRULES].

3.2 Definitions

Enabler Release	Collection of specifications that combined together form an enabler for a service area, e.g. a download enabler, a browsing enabler, a messaging enabler, a location enabler, etc. The specifications that are forming an enabler should combined fulfil a number of related market requirements.

3.3 Abbreviations

API	Application Programming Interface
ER	Enabler Release
ERDEF	Enabler Requirement Definition
ERELD	Enabler Release Definition
OMA	Open Mobile Alliance
OMNA	Open Mobile Naming Authority
SCR	Static Conformance Requirements
SSO	Single Sign-On
UCD	Unified Cloud Disk
URN	Uniform Resource Name

4. Release Version Overview

This Enabler Release (ER) document is a combined document of requirements, architecture and technical specification for Unified Cloud Disk (UCD) Enabler.

The UCD Enabler provides unified cloud storage system in mobile cloud computing environment.

In particular, the user can access the cloud storage services of a specific UCD compliant SP or the cloud storage services of multiple UCD compliant SPs using SSO mechanism.

The user can also access the external cloud storage services of non-UCD compliant SPs through the gateway functionality of the UCD Server.

Furthermore, the UCD Enabler provides standard storage-as-a-service APIs for UCD compliant applications to access the UCD service.

4.1   Version 1.0 Functionality

The version 1.0 of the UCD Enabler defines an overall framework that enables Unified Cloud Disk services.

The core functionalities exposed by the UCD Enabler include:

- User account management including identity federation/defederation and SSO login and logout

- Access files including file/folder and file/folder attributes operations

- Search

- Recycle bin function

- Security and privacy aspects

- A set of network APIs to allow UCD compliant applications to access UCD cloud services , as well as the authorization framework to control access to information through these APIs.

5. Document Listing for UCD 1.0

This section is normative.

Doc Ref	Permanent Document Reference	Description
Enabler Release		
[UCD-ER]	OMA-ER-UCD-V1_0-20141216-C	Requirements, architecture and technical specification of the UCD enabler.
Technical Specification		
[TS-REST_NetAPI_UCD]	OMA-TS-REST_NetAPI_UCD-V1_0-20141216-C	RESTful Network API for Unidied Cloud Disk
Supporting File		

[SUP-XSD_rest_ucd]	OMA-SUP-XSD_rest_netapi_ucd-V1_0-20141216-C	XML schema for the RESTful Network API for Unified Cloud Disk
		
		Working file in Schema directory:
		   file: rest_netapi_ucd-v1_0.xsd
		   path: http://www.openmobilealliance.org/tech/profiles/

Table 1: Listing of Documents in UCD 1.0 Enabler

6. OMNA Considerations

The RESTful Network API for Undified Cloud Disk 1.0 enabler introduces the following namespaces.

Note that in order to maintain compatibility between minor versions of the same major version, only the major version is reflected in the namespace identifier. Further note that subsequent minor versions of the same XML schema (e.g. 1.1) will be registered against the same namespace identifier.

Description	Registered URN	Schema Links
Unified Cloud Disk Restful network API	urn:oma:xml:rest:netapi:ucd:1	http://www.openmobilealliance.org/tech/profiles/rest_netapi_ucd-v1_0.xsd

Table 2: OMNA Namespaces

7. Conformance Requirements Notation Details

This section is informative.

The tables in following chapters use the following notation:

Item: Entry in this column MUST be a valid ScrItem according to [SCRRULES].

Feature/Application: Entry in this column SHOULD be a short descriptive label to the **Item** in question.

Requirement: Expression in the column MUST be a valid TerminalExpression according to [SCRRULES] and it MUST accurately reflect the architectural requirement of the **Item** in question.

8. ERDEF for UCD 1.0 – Client Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-UCD-C-001-M	UCD Client	

Table 3: ERDEF for UCD 1.0 Client-side Requirements

9. ERDEF for UCD 1.0 – Server Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-UCD-S-001-M	UCD Server	

Table 4: ERDEF for UCD 1.0 Server-side Requirements

Appendix A.   Change History   (Informative)

A.1   Approved Version History

Reference	Date	Description
n/a	n/a	No prior version

A.2   Draft/Candidate Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-ERELD-UCD-V1_0	02 Jul 2014	All	Initial draft baseline document.
	08 Jul 2014	5	Update the document list prior to Consistency Review
	10 Sep 2014	All	OMA-CD-UCD-2014-0081R01-CR_ERELD_ZTE
	17 Nov 2014	All	OMA-CD-UCD-2014-0107R01-CR_ERELD
	02 Dec 2014	5	Editorial update of permanent document references in section 5
Candidate Version OMA-ERELD-UCD-V1_0	16 Dec 2014	All	Status changed to Candidate by TP TP Ref # OMA-TP-2014-0277- INP_UCD_V1_0_ERP_and_ETR_for_Candidate_Approval