

# Differences between KMIP 1.0 and KMIP 1.1

This document describes changes to the KMIP protocol, profiles, usage guidance and test cases between KMIP V1.0 and KMIP V1.1. Specific document locations are given in each section.

In addition to the changes noted below, each document also contains revised List of Contributors and Revision History.

## 1.0 Changes in KMIP Specification from V1.0 to V1.1

Section references below are to KMIP Specification V1.1 (OASIS Standard) located at <http://docs.oasis-open.org/kmip/spec/v1.1/os/kmip-spec-v1.1-os.html>.

A working draft of KMIP Specification V1.1 showing changes is available at <https://www.oasis-open.org/apps/org/workgroup/kmip/download.php/45890/kmip-spec-v1.1-wd07.docx>. An earlier working draft showing changes is available at <https://www.oasis-open.org/apps/org/workgroup/kmip/download.php/44536/kmip-spec-1.1-cd-03.doc>.

Section 2.1.2 Credential – A new Credential Value structure is defined for Device Credentials. KMIP 1.0 only had Username and Password credentials.

Section 2.1.5 Key Wrapping Data – the new “Encoding Option” enumeration field is added to the Key Wrapping Data Object Structure.

Section 2.1.6 Key Wrapping Specification – the new “Encoding Option” enumeration field is added to the Key Wrapping Specification Object Structure.

Section 2.1.9 Extension Information defining the Extension Information Structure is new to KMIP 1.1.

Section 3.9 Certificate Length Attribute is new.

Sections 3.10 X.509 Certificate Identifier, 3.11 X.509 Certificate Subject, and 3.12 X.509 Certificate Issuer are all new.

Sections 3.13 Certificate Identifier (was Section 3.9 in KMIP 1.0), 3.14 Certificate Subject (was Section 3.10), and 3.15 Certificate Issuer (was Section 3.11) are all deprecated in KMIP 1.1.

Section 3.16 Digital Signature Algorithm is new.

Section 3.17 Digest (was Section 3.12 in KMIP 1.0) – the new “Key Format Type” enumeration field is added to the Digest Attribute Structure.

Section 3.34 Fresh Attribute is new.

Section 4.5 Re-key Key Pair request is new. Also Re-key Key Pair is added to Section 3.18.2.1 Default Operation Policy for Secret Objects.

Section 4.9 Locate (was Section 4.8 in KMIP 1.0) – the new “Object Group Member” enumeration field is added to the Locate Request Payload.

Section 4.25 Query (was Section 4.24) – the new “Extension Information” structure is added to the Query Response Payload.

Section 4.26 Discover Versions request is new.

Section 9.1.3.1 Tags has the following deprecated tags – Certificate Identifier, Certificate Issuer, Certificate Issuer Alternative Name, Certificate Issuer Distinguished Name, Certificate Subject, Certificate Subject Alternative Name, Certificate Subject Distinguished Name, Issuer, Serial Number.

Section 9.1.3.1 Tags has the following new tags added – from Device Identifier (0x4200A2) to X.509 Certificate Subject (0x4200B7). Also the “(Reserved)” tag range has been moved to start at 0x4200B8.

Section 9.1.3.2.7 Digital Signature Algorithm Enumeration is new.

Section 9.1.3.2.32 Encoding Option Enumeration is new.

Section 9.1.3.2.33 Object Group Member Enumeration is new.

Section 11.4 Register, the “Encoding Option” error definition is added.

Section 11.6 Re-key Key Pair (Error Handling) is new.

Section 11.12 Get has new items added to the error handling table.

## **2.0 Changes in KMIP Profiles from V1.0 to V1.1**

Section references below are to KMIP Profiles V1.1 (OASIS Standard) located at <http://docs.oasis-open.org/kmip/profiles/v1.1/os/kmip-profiles-v1.1-os.html>.

A working draft of KMIP Profiles V1.1 showing changes is available at <https://www.oasis-open.org/apps/org/workgroup/kmip/download.php/45854/kmip-profiles-v1.1-wd11.docx>.

Section n.n: Asymmetric Profile added.

In addition, several profiles applicable to KMIP V1.1 have been approved by the KMIP Technical Committee as Committee Specification Drafts:

KMIP HTTPS Profile (<https://www.oasis-open.org/apps/org/workgroup/kmip/download.php/46755/kmip-https-profile-v1.0-wd04.pdf>)

KMIP JSON Profile (<https://www.oasis-open.org/apps/org/workgroup/kmip/download.php/47288/KMIP-JSON.pdf>)

KMIP XML Profile (<https://www.oasis-open.org/apps/org/workgroup/kmip/download.php/47289/KMIP-XML.pdf>)

### **3.0 Changes in KMIP Usage Guide from V1.0 to V1.1**

Section references are to KMIP Usage Guide V1.1 (Committee Note 01) located at <http://docs.oasis-open.org/kmip/ug/v1.1/cn01/kmip-ug-v1.1-cn01.html>.

A working draft of KMIP Usage Guide V1.1 showing changes is available at <https://www.oasis-open.org/apps/org/workgroup/kmip/download.php/45857/kmip-ug-v1.1-wd10.docx>.

**Section n.n**

### **4.0 Changes in KMIP Test Cases V1.1**

The KMIP Use Cases V1.0 document has been renamed in V1.1 to KMIP Test Cases V1.1. This will allow the creation of a new document in KMIP V1.2 that will contain use case descriptions, rather than test cases.

Section references are to KMIP Test Cases V1.1 (Committee Note 01) located at <http://docs.oasis-open.org/kmip/testcases/v1.1/cn01/kmip-testcases-v1.1-cn01.html>.

A working draft of KMIP Test Cases V1.1 showing changes from V1.0 is not available.

There are a number of changes in the test cases originally published in KMIP V1.0 and brought forward into the KMIP Test Cases V1.1 document, reflecting the changes in the KMIP protocol described in Section 1.0 above. Those changes are not detailed here.

The following test cases were added for KMIP V1.1:

**Section n.n**

No test cases were deleted for KMIP v1.1.