|  |
| --- |
|  |

|  |
| --- |
| CHANGE REQUEST |
| Group Name:\* | WG#1 |
| Source:\* | ALU (TIA) / GTO (ETSI) |
| Format:\* | REQ 16.0 |
| Date:\* | 2015-02-13 |
| Contact:\* | Tim Carey, ALU, timothy.carey@alcatel-lucent.comThierry Garnier, GTO, thierry.garnier@gemalto.com |
| Reason for Change/s:\* | Add new requirements to TS-0002 for LWM2M InterworkingR01: new figure for IW mode 1, few typos fixesR02: fix LWM2M-006 requirementR03: Updated based on TP16 REQ sessionR04: Resolve comments from TP16 session 2 |
| CR against:  | TS-0002V1.01 |
| Clauses/Sub ClausesAffected\* | New clause |
| Intended purpose ofdocument:\* | [x]  Decision[x]  Discussion[ ]  Information[ ]  Other <specify> |
| Decision requested or recommendation:\* | <A concise statement of the decision required or the recommended action to be taken> |

**oneM2M Notice**

The document to which this cover statement is attached is submitted to oneM2M. Participation in, or attendance at, any activity of oneM2M, constitutes acceptance of and agreement to be bound by terms of the Working Procedures and the Partnership Agreement, including the Intellectual Property Rights (IPR) Principles Governing oneM2M Work found in Annex 1 of the Partnership Agreement.

GUIDELINES for Change Requests:

Provide an informative introduction containing the problem(s) being solved, and a summary list of proposals.

Each CR should contain changes related to only one particular issue/problem.

Follow the principle of completeness, where all changes related to the issue or problem within a deliverable are simultaneously proposed to be made E.g. A change impacting 5 tables should not only include a proposal to change only 3 tables. Includes any changes to references, definitions, and acronyms in the same deliverable.

Follow the drafting rules.

All pictures must be editable.

Do not conflict with the content of an already approved text, by modification, deletion or the addition of an editor’s note.

Check spelling and grammar to the extent practicable.

Use Change bars for modifications.

The change should include the current and surrounding clauses to clearly show where a change is located and to provide technical context of the proposed change. Additions of complete sections need not show surrounding clauses as long as the proposed section number clearly shows where the new section is proposed to be located.

Multiple changes in a single CR shall be clearly separated by horizontal lines with embedded text such as, start of change 1, end of change 1, start of new clause, end of new clause.

When subsequent changes are made to content of a CR, then the accepted version should not show changes over changes. The accepted version of the CR should only show changes relative to the baseline approved text.

## Introduction

The LWM2M Interworking Architecture is based on TS-0001 Annex F interworking text where the LWM2M Interworking existings for the following combinations:

Hybrid Application

CSE(s)

LWM2M Interface

Mca

LWM2M

IPE

Mca

(note 1)

LWM2M Application

 LWM2M

IPE

Mca

LWM2M Interface

LWM2M IPEs provide the following types of interworkings:

1. Interworking using the <containter> resource for transparent transport of encoded LWM2M application objects that are available to AEs:

ASN/MN/IN

MN/IN

LWM2M Application

CSE

LWM2M Protocol

LWM2M

IPE

Mca

AE

Mca

CSE

Mcc/Mcc’

<container>

LWM2M

Objects

(Serialized)

<container>

LWM2M

Objects

1. Interworking with full mapping of the semantics of LWM2M objects to semantically enabled resources that are available to AEs (oneM2M semantic language is used for describing <container> content)

LWM2M Application

CSE

LWM2M Protocol

LWM2M

IPE

Mca

AE

Mca

ASN/MN/IN

CSE

Mcc/Mcc’

MN/IN

LWM2M

Object

semantic <container>

These types of interworking gives rise the requirements in the following section..

### -----------------------Start of change 1-------------------------------------------

## 6.x LWM2M Interworking Requirements

Table x: LWM2M Interworking Requirements

| Requirement ID | Description | Release |
| --- | --- | --- |
| LWM2M-001 | The oneM2M System shall provide the capability to transparently transport LWM2M Objects between LWM2M Clients and M2M Applications. |  |
| LWM2M-002 | The oneM2M System shall provide the capability to translate LWM2M Objects into a semantic representation of the LWM2M Object as oneM2M Resources. |  |
| LWM2M-003 | The oneM2M System shall provide the capabilities of the LWM2M Server in order to interwork between LWM2M Clients and M2M Applications. |  |
| LWM2M-004 | The oneM2M System shall provide the capability for M2M Applications to discover LWM2M Clients using the LWM2M Client’s Endpoint Name. |  |
| ~~LWM2M-005~~ | ~~The oneM2M System shall provide the capability for M2M Applications to discover the version of the LWM2M Protocol used by the LWM2M Client.~~ |  |
| LWM2M-006 | When transparently transporting LWM2M Objects, the oneM2M System shall provide the capability for M2M Applications to discover the definion of LWM2M Objects transported by the oneM2M System.  |  |
| LWM2M-007 | When interworking with LWM2M objects, the oneM2M System shall provide the capability for M2M Applications to discover a LWM2M Object using the LWM2M Object’s identifier.  |  |
| LWM2M-008 | The oneM2M System shall provide capability to onboard devices that incorporate a LWM2M Client. |  |
| LWM2M-009 | The oneM2M System shall provide the capability to interoperate the underlying security mechanisms of the LWM2M Client with the security capabililities provided by the oneM2M System.  |  |
|  |  |  |

### -----------------------End of change 1---------------------------------------------