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# 1 Grid table examples

Example Grid Table 1

| Use cases | Characteristic parameter (KPI) | | | Influence quantity | | | Remarks |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Max allowed end-to-end latency | Service bit rate: user- experienced data rate | Reliability | Message size (byte) | UE Speed | Service Area |  |
| Immersive multi-modal VR (UL: device → application server) | 5 ms (note 2) | 16 Kbit/s -2 Mbit/s (without haptic compression encoding)  0.8 - 200 Kbit/s (with haptic encoding) | 99.9% (without haptic compression encoding)  99.999% (with haptic encoding) | 1 DoF:2-8 3 DoFs:6-24 6 DoFs:12-48 More DoFs can be supported by the haptic device | Stationary or pedestrian | typically < 100 Km2 | Haptic feedback |
| 5 ms | < 1 Mbit/s | 99.99% [40] | 1500 | Sensing information e.g. position and view information generated by the VR glasses |
| Immersive multi-modal VR (DL: application server → device) | 10 ms (note 1) | 1-100 Mbit/s | 99.9% [40] | 1500 | Stationary or pedestrian | typically < 100 Km2 (note 5) | Video |
| 10 ms | 5-512 Mbit/s | 99.9% [40] | 50 | Audio |
| 5 ms | 16 Kbit/s-2 Mbit/s (without haptic) | 99.9% (with haptic compression) | 1 DoF:2-8 3 DoFs:6-24 6 DoFs:12-48 6 DoFs:12-48 | Haptic feedback |

Example Grid Table 2

| Name | DedicatedBearerCnf | |
| --- | --- | --- |
| Port | IPCANctl | |
| Comment | ASP type which returns the result of the execution of DedicatedBearerReq, when it is ocmpleted | |
| Parameter Name | Parameter Type | Comment |
| status | Status |  |

Example Grid Table 3

| Antenna HAAT (meters/feet) | ERP (watts) | | ERP (watts/MHz) | |
| --- | --- | --- | --- | --- |
| Emission BW 1 MHz | | Emission BW > 1MHz | |
| Non-rural areas | Rural areas\* | Non-rural areas | Rural areas\* |
| Higher than 1372 (4500) | 65 | 130 | 65 | 130 |
| 1220 (4000) to 1372(4500) | 70 | 140 | 70 | 140 |
| 1067 (3500) to 1220 (4000) | 75 | 150 | 75 | 150 |
| 915 (3000) to 1067(3500) | 100 | 200 | 100 | 200 |
| 763 (2500) to 915 (3000) | 140 | 280 | 140 | 280 |
| 610 (2000) to 763 (2500) | 200 | 400 | 200 | 400 |
| 458 (1500) to 610 (2000) | 350 | 700 | 350 | 700 |
| 305 (1000) to 458 (1500) | 600 | 1200 | 600 | 1200 |
| Up to 305 (1000) | 1000 | 2000 | 1000 | 2000 |
| Note:\* with population density of 100 or fewer persons per square mile | | | | |

Example grid table 4

| Ut Control Primitive message | Mapping to oneM2M data types | Description | Reference | Triggering Message | HTTP |
| --- | --- | --- | --- | --- | --- |
| *UtTrigger* *Primitive* | *requestPrimitive* | ONLY essential parameters included for certain test case See NOTE 1 | oneM2M TS-0004 [2] | **EXAMPLE** **1:** If the test objective is to test ***“Test triggers* *IUT* *to execute a test case for creation of <* *AE* *> with abels attribute under a* *CSEBase* *resource*"**, then triggering message would be serialized as following. | |
| **Request** { “m2m:rqp” :{ “op”: 1, //indicate CREATE operation “ty”: 2, //indicate AE resource type “to”: {TEST\_SYSTEM\_ADDRESS}, “pc”: { “m2m:ae”: { “lbl”:“UNINITIALIZED” //indicate that attribute labels needs to be included }, } “rvi”: “2a”  } } } | **Request** **POST** /{SUT\_UT\_APPLICATION\_URL} HTTP/1.1 **Host**: {SUT\_IP\_ADDRESS:PORT} **Content-Length**: {PAYLOAD\_LENGTH} **Content-Type**: **application/json**  {“m2m:rqp” :{ “op”: 1, //indicate CREATE operation “ty”: 2, //indicate AE resource type “to”: {TEST\_SYSTEM\_ADDRESS}, “pc”: { “m2m:ae”: { “lbl”:“UNINITIALIZED” //indicate that attribute labels needs to be included } }, “rvi”: “2a” } } |
| **EXAMPLE** **2:** If the test objective is to test \*\**“Test System triggers* *IUT* *to execute a test case for delete of <* *AE* \_> *resource*"\*\*, then triggering message would be serialized as following. | |
| **Request** { “m2m:rqp” :{ “op”: 4, //indicate DELETE operation “to”:{TARGET\_AE\_RESOURCE\_ADDRESS}, //indicate Target AE resource address “rvi”: “2a” } } | **Request** **POST** /{SUT\_UT\_APPLICATION\_URL} HTTP/1.1 **Host**: {SUT\_IP\_ADDRESS:PORT} **Content-Length**: {PAYLOAD\_LENGTH} **Content-Type**: **application/json**  {“m2m:rqp” :{ “op”: 4, //indicate DELETE peration “to”:{TARGET\_AE\_RESOURCE\_ADDRESS}, //indicate Target AE resource address “rvi”: “2a” } } |
| N/A | Special upper tester commands | N/A | **“RESET”** | **Request** **POST** /{SUT\_UT\_APPLICATION\_URL} HTTP/1.1 **Host** : {SUT\_IP\_ADDRESS:PORT} **X-M2M-UTCMD: Reset** |
| *UtTrigger* *Ack* *Primitive* | *responsePrimitive* | ONLY responseStatusCode attribute included  See Note 2. | oneM2M TS-0004 [2] | **Response** { “m2m:rsp”: { “rsc”: 2000 } }  For any triggering response, it only contains aresponse status code, and the response status code for the triggering operation can only be set to either either 2000 (OK) or 4000 (BAD\_REQUEST) according to the rules for triggering operations. | **Response** HTTP/1.1 200 OK X-M2M-RSC: 2000 |
| NOTE 1: Additional rules defined in table 5.4.4.2.2-3 are also applied. NOTE 2: Attribute response status code is defined at table 5.4.4.2.2-3. | | | | | |

# 2 Pipe table examples

| Name | Instance type | Element type | Description |
| --- | --- | --- | --- |
| mcnPort | port | OneM2MPort | Port that implements the mcn interface when test system is the client (sending requests) |
| mcnPortIn | port | OneM2MPort | Port that implements the mcn interface when test system is the server (receiving requests) |
| vc\_ae1 | test component | AeSimu | Reference to the AE1 component when required |
| vc\_cse2 | test component | CseSimu | Reference to the CSE1 component when required |
| vc\_aeSimuDesc | variable | AeSimuComponentDesc | Component configuration extracted from required (AE1) tester pixit |
| vc\_cseSimuDesc | variable | CseSimuComponentDesc | Component configuration extracted from required (CSE1) tester pixit |
| vc\_cseType | variable | CseTypeID | CSE type of the test system (default is MN) |
| vc\_scefSimuDesc | variable | ScefSimuComponentDesc | Component configuration extracted from required (SCEF) tester pixit |
| vc\_configurations | variable | NiddConfigurations | NIDD configurations of SCEF component |

# 3 History

| **Document history** | | |
| --- | --- | --- |
| V0.0.0 | 2024-05-12 | First examples |
|  |  |  |

# 4 UML Diagrams

Example of UML diagrams

@startuml  
Bob -> Alice : hello  
@enduml