

**NOTIFY Operation - REQUEST** (Reference TS-0001, Table 8.1.2-3)

| Request Parameter                    | Short Name   | Purpose   | Parameter              | TS-001 Ver. | NOTIFY                          |
|--------------------------------------|--------------|---|------------------------|-------------|---------------------------------|
| Operation                            | <i>op</i>    | Operation to be executed  | m2m:operation          | Rel-1       | Mandatory                       |
| To                                   | <i>to</i>    | Address of target resource on the target CSE                        | xs:anyURI              | Rel-1       | Mandatory                       |
| From                                 | <i>fr</i>    | Identifier of the message originator                                | m2m:ID                 | Rel-1       | Mandatory                       |
| Request Identifier                   | <i>rqi</i>   | Uniquely identifies Request message                                 | m2m:requestID          | Rel-1       | Mandatory                       |
| Content                              | <i>pc</i>    | Content to be transferred   | m2m:primitiveContent   | Rel-1       | Mandatory                       |
| Resource Type                        | <i>ty</i>    | Type of resource to be created                                      | m2m:resourceType       | Rel-1       | Not Applicable                  |
| Originating Timestamp                | <i>ot</i>    | Timestamp when the message was built                                | m2m:timestamp          | Rel-1       | Optional                        |
| Request Expiration Timestamp         | <i>rqet</i>  | Timestamp when the request message expires                          | m2m:absRelTimestamp    | Rel-1       | Optional                        |
| Result Expiration Timestamp          | <i>rset</i>  | Timestamp when the result message expires                           | m2m:absRelTimestamp    | Rel-1       | Optional                        |
| Operation Execution Time             | <i>oet</i>   | Time by when specified operation is to be executed by target CSE    | m2m:absRelTimestamp    | Rel-1       | Optional                        |
| Response Type                        | <i>rt</i>    | Type of response that shall be sent to Originator                   | m2m:responseTypeInfo   | Rel-1       | Optional                        |
| Result Persistence                   | <i>rp</i>    | Duration during which reference containing responses persist        | m2m:absRelTimestamp    | Rel-1       | Not Applicable                  |
| Result Content                       | <i>rcn</i>   | Expected components of the result                                   | m2m:resultContent      | Rel-1       | Not Applicable                  |
| Event Category                       | <i>ec</i>    | Indicates how and when the system should deliver message            | m2m:eventCat           | Rel-1       | Optional                        |
| Delivery Aggregation                 | <i>da</i>    | Aggregation of requests to the same target CSE is used              | xs:boolean             | Rel-1       | Optional                        |
| Group Request Identifier             | <i>gid</i>   | Identifier added to group request fanned out to all group members   | xs:string              | Rel-1       | Optional                        |
| Group Request Target Members         | <i>grtm</i>  | Indicates subset of members of a group                              | list of xs:anyURI      | Rel-3       | Not Applicable                  |
| Filter Criteria                      | <i>fc</i>    | Conditions for filtered retrieve operation                          | m2m:filterCriteria     | Rel-1       | Not Applicable                  |
| Desired Identifier Result Type       | <i>drt</i>   | Format of information returned for Discover operation               | m2m:desIdResType       | Rel-1       | Not Applicable                  |
| Token Request Indicator              | <i>tqi</i>   | Originator to attempt Token Req. Procedure if initiated by Receiver | xs:boolean             | Rel-2       | Optional                        |
| Tokens                               | <i>tkns</i>  | Tokens for use in dynamic authorization                             | list of m2m:dynAuthJWT | Rel-2       | Optional                        |
| Token IDs                            | <i>tids</i>  | Token ID for use in dynamic authorization                           | list of m2m:tokenID    | Rel-2       | Optional                        |
| Role IDs                             | <i>rids</i>  | ID for use in role-based access control                             | list of m2m:roleID     | Rel-2       | Optional                        |
| Local Token IDs                      | <i>ltids</i> | ID for use in dynamic authorization                                 | list of xs:NCName      | Rel-2       | Optional                        |
| Authorization Signature Indicator    | <i>asi</i>   | Signature tag for Authorization Relationship Mapping                | xs:boolean             | Rel-3       | Not Applicable                  |
| Authorization Signatures             | <i>aus</i>   | Signature used in Authorization Relationship Mapping                | m2m:signatureList      | Rel-3       | Not Applicable                  |
| Authorization Relationship Indicator | <i>auri</i>  | Relationship tag for Authorization Relationship Mapping             | xs:boolean             | Rel-3       | Not Applicable                  |
| Semantic Query Indicator             | <i>sqi</i>   | Tag used in semantic queries  | xs:boolean             | Rel-3       | Not Applicable                  |
| Release Version Indicator            | <i>rvi</i>   | Informs target entity which oneM2M version message uses             | m2m:releaseVersion     | Rel-2       | Mandatory (except Rel-1 entity) |
| Vendor Information                   | <i>vsi</i>   | Vendor-specific information   | xs:string              | Rel-2       | Optional                        |

**NOTIFY Operation - RESPONSE** (Reference TS-0001, Table 8.1.3-1)

| Request Parameter                    | Short Name  | Purpose  | Parameter                          | ACK                                    | TS-001 Ver. | Successful Operation                   | Unsuccessful Operation                 |
|--------------------------------------|-------------|--|------------------------------------|--|-------------|--|--|
|                                      |             |  |                                    |  |             | NOTIFY                                 | NOTIFY                                 |
| <b>Response Status Code</b>          | <i>rsc</i>  | Response status code (ack, successful, unsuccessful)               | m2m:responseStatusCode             | <b>Mandatory</b>                       | Rel-1       | <b>Mandatory</b>                       | <b>Mandatory</b>                       |
| <b>Request Identifier</b>            | <i>rqi</i>  | Uniquely identifies a Request message                              | m2m:requestID                      | <b>Mandatory</b>                       | Rel-1       | <b>Mandatory</b>                       | <b>Mandatory</b>                       |
| <b>Content</b>                       | <i>pc</i>   | Content to be transferred  | m2m:primitiveContent               | Optional (req. resource addr.)         | Rel-1       | Optional (E2E security msg.)           | Optional (secured w/ ESPrim)           |
| <b>To</b>                            | <i>to</i>   | Identifier of Originator/Transit CSE sending non-blocking request  | m2m:ID                             | Optional                               | Rel-1       | Optional                               | Optional                               |
| <b>From</b>                          | <i>fr</i>   | Identifier of Receiver   | m2m:ID                             | Optional                               | Rel-1       | Optional                               | Optional                               |
| <b>Originating Timestamp</b>         | <i>ot</i>   | Timestamp when the message was built                               | m2m:timestamp                      | Optional                               | Rel-1       | Optional                               | Optional                               |
| <b>Result Expiration Timestamp</b>   | <i>rset</i> | Timestamp when the message expires                                 | m2m:absRelTimestamp                | Optional                               | Rel-1       | Optional (E2E security msg.)           | Optional (E2E security msg.)           |
| <b>Event Category</b>                | <i>ec</i>   | Event category that shall be used of response message              | m2m:eventCat                       | Optional                               | Rel-1       | Optional                               | Optional                               |
| <b>Content Status</b>                | <i>cnst</i> | Present when returned content is partial                           | m2m:contentStatus                  | Operation-specific                     | Rel-2       | Not Applicable                         | Not Applicable                         |
| <b>Content Offset</b>                | <i>cnot</i> | Point Hosting CSE left off Retrieve processing, leading to partial | xs:positiveInteger                 | Operation-specific                     | Rel-2       | Not Applicable                         | Not Applicable                         |
| <b>Token Request Information</b>     | <i>taf</i>  | Used to request tokens from Dynamic Authorization Systems          | m2m:dynAuthTokenReqInfo            | Operation-specific                     | Rel-2       | Not Applicable                         | Optional                               |
| <b>Assigned Token Identifiers</b>    | <i>ati</i>  | Mapping of assigned Local-Token-IDs to corresponding Token-Ids     | m2m:dynAuthLocalTokenIdAssignments | Operation-specific                     | Rel-2       | Optional                               | Optional                               |
| <b>Auth. Signature Request Info.</b> | <i>asi</i>  | Used to request Authorization Signature(s) from holding AE         | xs:boolean                         | Operation-specific                     | Rel-3       | Not Applicable                         | Not Applicable                         |
| <b>Release Version Indicator</b>     | <i>rvi</i>  | Informs target entity which oneM2M version message uses            | m2m:releaseVersion                 | <b>Mandatory (except Rel-1 entity)</b> | Rel-2       | <b>Mandatory (except Rel-1 entity)</b> | <b>Mandatory (except Rel-1 entity)</b> |
| <b>Vendor Information</b>            | <i>vsi</i>  | Vendor-specific information  | xs:string                          | Optional                               | Rel-2       | Optional                               | Optional                               |