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| CHANGE REQUEST |
| Meeting:\* | TP#19 |
| Source:\* | InterDigital |
| Date:\* | 2015-08-28 |
| Contact:\* | Qing Li (qing.li@InterDigital.com)Dale Seed (dale.seed@InterDigital.com)  |
| Reason for Change/s:\* | Add a new attribute (*operation*) to the filter Criteria of discover request. R01: replaced “*operation*” to “*logicalOperation*”, and added examples of “*logicalOperation*” usage.R02: replaced *logicalOperation* to *filterOperation*. |
| CR against: Release\* | Rel-2 |
| CR against: WI\* | [ ]  Active <Work Item number> [ ]  MNT Maintenace / < Work Item number(optional)>[x]  STE Small Technical Enhancements / < Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0001 v2.2.0 |
| Clauses/Sub Clauses\* | Table 8.1.2-1: |
| Type of change: \* | [ ]  Editorial change[ ]  Bug Fix or Correction[x]  Change to existing feature or functionality[ ]  New feature or functionalityOnly ONE of the above shall be ticked |
| Post Freeze checking:\* | This CR contains only essential changes and corrections? YES [x]  NO [ ] This CR is a mirror CR? YES [ ]  NO [x]  if YES, please indicate the document number of the original CR: <Document Number)<CR Number of the original CR to the current Release> |
| Template Version:23 February 2015 (Dot not modify) |

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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.

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

## Add a new attribute (operation) to the filter Criteria of discover request which specifies the logical operation (AND or OR) between conditions.

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

Table 8.1.2-1: *Filter Criteria* conditions

| Condition tag | Multiplicity | Matching condition |
| --- | --- | --- |
| *createdBefore* | 0..1 | The *creationTime* attribute of the resource is chronologically before the specified value. |
| *createdAfter* | 0..1 | The *creationTime* attribute of the resource is chronologically after the specified value. |
| *modifiedSince* | 0..1 | The *lastModifiedTime* attribute of the resource is chronologically after the specified value. |
| *unmodifiedSince* | 0..1 | The *lastModifiedTime* attribute of the resource is chronologically before the specified value. |
| *stateTagSmaller* | 0..1 | The *stateTag* attribute of the resource is smaller than the specified value. |
| *stateTagBigger* | 0..1 | The *stateTag* attribute of the resource is bigger than the specified value. |
| *expireBefore* | 0..1 | The *expirationTime* attribute of the resource is chronologically before the specified value. |
| *expireAfter* | 0..1 | The *expirationTime* attribute of the resource is chronologically after the specified value. |
| *labels* | 0..n | The *labels* attributes of the resource matches the specified value. |
| *resourceType* | 0..n | The *resourceType* attribute of the resource is the same as the specified value. It also allows differentiating between normal and announced resources. |
| *sizeAbove* | 0..1 | The *contentSize* attribute of the *<contentInstance>* resource is equal to or greater than the specified value. |
| *sizeBelow* | 0..1 | The *contentSize* attribute of the *<contentInstance>* resource is smaller than the specified value. |
| *contentType* | 0..n | The *contentInfo* attribute of the *<contentInstance>* resource matches the specified value. |
| *limit* | 0..1 | Limitation the number of matching resources to the specified value. |
| *attribute* | 0..n | This is an attribute of resource types (clause 9.6). Therefore, a real tag name is variable and depends on its usage. E.g. *creator* of container resource type can be used as a filter criteria tag as "creator=Sam". |
| *filterUsage* | 0..1 | Indicates how the filter criteria is used. If this parameter is not provided, the Retrieve operation is a generic retrieve operation and the content of the child resources fitting the filter criteria is returned. If filterUsage is provided, the Retrieve operation is for resource <discovery> (clause 10.2.6), i.e.only the addresses of the child resources are returned. |
| *filterOperation* | 0..1 | Indicates the logical operation (AND/OR) to be used for different conditions. The default value is logical AND. |

The rules when multiple conditions are used together shall be as follows.

* Different conditions shall use the "AND/OR" logical operation based on the *filterOperation* specified,

e.g. *createdBefore* = “time1” AND *unmodifiedSince* = “time2” if *filterOperation* = “AND” or “NULL”, or *createdBefore* = “time1” OR *unmodifiedSince* = “time2” if *filterOperation* = “OR”.

* Same conditions shall use the "OR" logical operation, i.e. *filterOperation* doesn’t apply to same conditions.
* No mixed AND/OR filter operations is supported.

Below is an example usage of filter criteria conditions in a HTTP query: an HTTP GET operation can be requested applying also a filter in the query part of the request itself:

 GET /root?label=one&label=two&createdBefore=2014-01-01T00:00:00&limit=128&filterUsage=discovery.

The example discovers a maximum of 128 resources matching the following logical condition: *createdBefore* < 2014‑01‑01T00:00:00 AND (label = one OR label = two).

Once the Request is delivered, the Receiver shall analyze the Request to determine the target resource.

If the target resource is addressing another M2M Node, the Receiver shall route the request appropriately.

If the target resource is addressing the Receiver, it shall:

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

1.