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**Change #1**

### 12.2.9 Generic requirements for CoAP multicast

A Client may use CoAP multicast to retrieve a target Resource with a fixed local path from multiple other Devices. This clause provides generic requirements for this mechanism.

- Devices shall join the All OCF Nodes multicast groups (as defined in [Error! Reference source not found.]) with scopes 2, 3, and 5 (i.e., ff02::158, ff03::158 and ff05::158) and shall listen on the port 5683. For compliance to Error! Reference source not found. a Device may additionally join the All CoAP Nodes multicast groups.

- Clients intending to discover Resources shall join the multicast groups as defined in the first bullet.

- Clients shall send multicast requests to the All OCF Nodes multicast group address with scope 2 ("ff02::158") or with scope 5 ("ff05::158") at port "5683". The requested URI shall be the fixed local path of the target Resource optionally followed by query parameters. For compliance to Error! Reference source not found. a Client may additionally send to the All CoAP Nodes multicast groups.

- To discover Devices on a low-rate wireless personal area network (LR-WPAN) [see Error! Reference source not found.], Clients should send additional discovery requests (GET request) to the All OCF Nodes multicast group address with REALM_LOCAL scope 3 ("ff03::158") at port "5683". The set of replying Devices then can be used to distinguish if the Device is SITE_LOCAL or REALM_LOCAL to the Client discovering the Devices. Such request shall use the IPv6 hop limit with a value of 255. If the Client sends discovery requests to All OCF Nodes, then for compliance to Error! Reference source not found. a Client may additionally send to the All CoAP Nodes multicast groups with the same REALM_LOCAL scope with the IPv6 hop limit value of 255.

- The multicast request shall be permitted by matching the request to an ACE which permits unauthenticated access to the target Resource as described in Error! Reference source not found..

- Handling of multicast requests shall be as described in clause 8 of Error! Reference source not found. and clause 4.1 in Error! Reference source not found..

- Devices which receive the request shall respond, subject to query parameter processing specific to the requested Resource.

- A Device may expose the All OCF Nodes multicast address as part of an OCF Endpoint “eps” Link Parameter for a Resource, see clause 10. The behaviour of a Device that receives a CRUDN operation on the exposed multicast address for such a Resource (outside of those Resources explicitly defined as being for the purposes of discovery, see clause 11.2.3) is not specified by this document.