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| Comment Resolution for FDM configuration | | | |
| Date: 2016-07-28 | | | |
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# Abstract

This document provides the comment resolution for fault diagnostics and maintenance (FDM) procedure in Recommended Practice specification of IEEE 802.1CF D0.1 to address the technical comment of #9 of omniRAN-16/0048-01.

**Comments on D0.1:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Category | Page | Sub-Cause | Line# | Comment | Proposed Change | Resolution |
| 9 | Technical | 53 | 7.8.6.2 | 1477 | Bundle registration and configuration creates ambiguities on each individual function which makes it more difficult to clarify the concept, purpose and relationship to other FDM functions. | Suggest to separate function description of registration and configuration and add more texts for explanation.  See a separate contribution for the change, omniran-16-0051-00-CF00-comment-resolution-for-fdm-configuration. | Revised.  See detail below. |

**Discussion:**

The section 7.8.6.2 describes the very basic process of FDM registration and configuration lacking of detail information. Such descriptions may create ambiguities to the readers and make them more difficult to understand the internal relationship for the whole FDM function.

Both functions are initially mentioned by WiMAX specification ‘WMF-T31-119-R016v01’ and classified as the same type of functions termed ‘General NMS Service Requests Use Case’ (refer to chapter 7.1.6).

**Proposed Text Changes:**

1. Modify section 7.8.6.2 to clearly address the FDM registration process between NMS and ANC.
2. Add a new section 7.8.7.1 for describing detail procedure of “FDM configuration”.

**Proposed Text Changes 1:**

Instruction to Editor:

Please replace text of clause 7.8.6.2 of IEEE802.1CF D0.1 omniRAN specification with the following text.

------------- Begin Text Changes ---------------



#### FDM registration

NMS should complete the registration process to fully enable its FDM functionality.

By sending request to a specific ANC, NMS registers to receive alarms and other FDM information. ANC should send a confirmation to NMS to indicate whether the requested registration has been implemented successfully.

NMS may initiate configuration request to ANC after registration.

-------------- End Text Changes ----------------

**Proposed Text Changes 2:**

Instruction to Editor:

Please add the following text before clause 7.8.7.1 of IEEE802.1CF D0.1 omniRAN specification and renumber other clauses and figures in 7.8.7.

------------- Begin Text Changes ---------------

### Detailed procedures

#### FDM configuration

FDM configuration describes the procedure for applying FDM rules and parameters from NMS to ANC for e.g generation alarms, monitoring performance, execution of isolation and recovery actions. As shown in Figure 29, the procedure is described as follows,

* After registered its FDM capability to ANC, the NMS sends FDM configuration message to ANC with the configuration parameters. Such configuration request includes the following information:
  + Address of network devices, alarm notification structure, performance criteria, link monitoring parameters, report interval, rules for isolation and recovery, etc.
* ANC receives the configuration message and replies ACK. Then it converts the configurations and applies to the appropriate sub-ordinate entity or multiple entities within AN, and even forwards to TE if necessary.
* The relevant entity, such as NA in this case, acknowledges the configuration message and enables the relevant functions.



* Figure 29 Procedure of FDM configuration

-------------- End Text Changes ----------------