MIF API

draft-ietf-mif-api-extension-05

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Update Summary of IETF#89

- **Align with PvD architecture document**
  - Section 3.1 “Provisioning domains”
  - Section 3.2 “provisioning domain agnosticism”
  - Section 3.2.7.21 “Connect to PvD”
  - Section 4: “Security considerations”
  - References: Add PvD architecture document”

Summary of the New Update

- **3.2.7.5. Announce Provisioning Domain**
- **3.2.7.7. Provisioning Domain Announcement**
- **3.2.7.9. Announce Configuration Element**
- **3.2.7.13. Announce Address**
- **3.2.7.17. Get Configuration Data**
- **3.2.7.18. Translate Name**
- **3.3. Example Usage**

- **3.2.7.5. Announce Provisioning Domain**
  - Old text: “This message requests the MIF API to announce the availability of any provisioning domains configured on a particular interface. The interface identifier must be specified.”
  - Update: this API should work for both explicit and implicit PvD
    - For explicit PvD:
      - PvD information is delivered explicitly to the PvD aware node.
    - For implicit PvD:
      - PvD aware node takes care of the PvD information.
  - For both cases this MIF API should works as advanced PvD API as described in architecture document.

- **3.2.7.7. Provisioning Domain Announcement**
  - Old text: “This message is sent by the MIF API to the subscriber to indicate that a new Provisioning Domain has successfully been configured on an interface. The announcement includes the interface identifier and the provisioning domain identifier…”
  - The PvD information should align with the architecture document. Works for explicit and implicit PvD case.

- **3.2.7.9. Announce Configuration Element**
  - Old text: “This message is sent by the subscriber to request a specific configuration element from a specific provisioning domain. A provisioning domain identifier must be specified…”
  - This should align with the advanced PvD API as described in the architecture document.

- **3.2.7.13. Announce Address**
  - Old text: “This message is sent by the subscriber to request announcements of valid IP addresses for a specific provisioning domain. A provisioning domain identifier must be specified.
    ”
  - This should align with the advanced PvD API case as described in architecture document.

- **3.2.7.17. Get Configuration Data**
  - Old text: “The Get Configuration Data message is sent to the MIF API, and includes a Provisioning Domain ID, a Configuration Element Type, and a Configuration Information Identifier…”
  - This should align with the advanced PvD API case as described in architecture document.

- **3.2.7.18. Translate Name**
  - Old text: “The Translate Name message is sent to the MIF API. It includes a provisioning domain and a name, which is a UTF8 string naming a network node. The message also includes a Translation Identifier, which the subscriber must ensure is unique across all outstanding name service requests..”
  - This should align with the advanced PvD API case as described in architecture document.

- **3.3. Example Usage**
  - Update the example with explicit and implicit PvD cases.

Next Step

- Other comments for update?
- WGLC after the update?

Backup

- Section 3.1 Provisioning domains
  - Add text to describe the background of PvD architecture.
    - “Document [I-D.ietf-mif-mpvd-arch] defines Provisioning Domain (PvD) architecture and its associated mechanism, such as PvD identity/ naming concept, conveying mechanism etc.
    - According to [I-D.ietf-mif-mpvd-arch], a provisioning domain is a consistent set of network configuration information. Classically, the entire set available on a single interface is provided by a single source, such as network administrator, and can therefore be treated as a single provisioning domain.”

- Section 3.2 provisioning domain agnosticism
  - This section is removed

- Section 4: Security considerations
  - Add security considerations texts
  - “This document specifies an abstract API and Implementation should take care not introducing security risk.”

- Section 3.2.7.21 Connect to PvD
  - Connect to PvD: add text to refer to PvD architecture document
    - “This is the advanced case that discussed in section 6.3 of [I-D.ietf-mif-mpvd-arch].”

- References
  - Add PvD architecture draft as references:
  - [I-D.ietf-mif-mpvd-arch] Anipko, D., "Multiple Provisioning Domain Architecture", draft-ietf-mif-mpvd-arch-00 (work in progress), February 2014.