Fault YANG Model

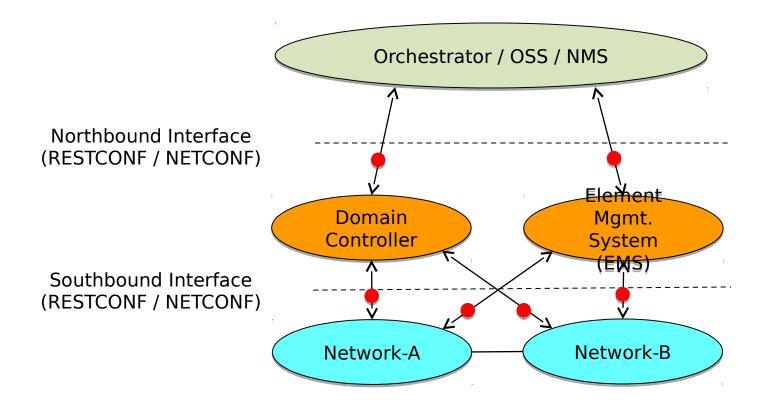
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Motivation

- Create a common base Fault YANG model based on:
 - ITU Recommendation X.733: Alarm Reporting Function
 - RFC3877: Alarm Management Information Base (MIB)
- Create a model that can be extended by vendors using YANG augmentations.

Fault Reference Points



Fault Model is exposed by all network devices, controllers, orchestrators, application, etc. that expose a YANG based model.

YANG Tree Overview



Fault Entry

- The Fault YANG Data Model currently models the most widely used attributes.
 - Fault Entity
 - Fault Severity
 - Fault Type
 - Probable Cause
 - Service Affecting
 - Fault Time
 - Additional Text
- Fault Entry also reported as part of Fault Notification.

Probable Cause & Fault Type

- New networking architectures can pose a need for additional fault types and probable causes
 - E.g. Discrepancy between config and operational datastores.
- Probable Cause & Fault Type fields have been modeled using identity instead of enumeration.
 - Use of identity in model will allow vendors to augment new probable cause and fault type values.

Next Steps

- Get feedback on the current model.
- Add the following in the next version of the model:
 - Model all attributes in Fault Entry as per RFC3877 and RFC3877.
 - Model all probable cause as per X.733 and RFC3877.