SYSTEMS MECHANICS LTD

CrossTalk™ Mediation Products

TeMIP— Cisco MWTM Access Module

- Full integration of Cisco Mobile Wireless Transport Manager (MWTM) System with TeMIP
- Extensible equipment modelling and low-cost upgrades due to mapping rule based implementation
- Extensible entity modelling and mapping
- Automatic and Manual alarm resynchronization, and inter-system connection monitoring
- Alarm status synchronisation from TeMIP to MWTM via integration with TeMIP Alarm Acknowledgement FM
- Supports MWTM EPM Trap interface and MWTM southbound SOAP interface

OVERVIEW

The TeMIP MWTM Access Module (AM) integrates the management of alarms from the Cisco MWTM platform into the TeMIP Fault Management System. The solution is based on Systems Mechanics CrossTalk™ Mediation Services (MS).

The solution will provide the collection and presentation of MWTM forwarded SNMP equipment traps in TeMIP, trap resynchronisation and Acknowledgement/ Termination synchronisation from TeMIP to MWTM.

Equipment Modelling

The MS MWTM AM models different equipment types as sub-classes of the SGM (Signalling Gateway Manager) Global Class. One SGM instance is used to model a single MWTM platform in TeMIP. The subclass model can be easily extended to support new equipment types managed by MWTM

Configurable Mapping Rules

Mapping of MWTM notifications to TeMIP alarms is highly configurable using the CrossTalk™ Mapper engine. Rules to translate notifications into TeMIP events can be modified and dynamically reloaded. This capability drastically reduces platform upgrade costs.

Alarm Resynchronisation

Full resynchronisation between TeMIP and MWTM is supported. This ensures recovery (manual or automatic) in the event of communications loss or system re-connection. Resynchronisation requests are submitted via the MWTM SOAP interface using the Mediation Services SOAP communications mapping rules plug-in component.

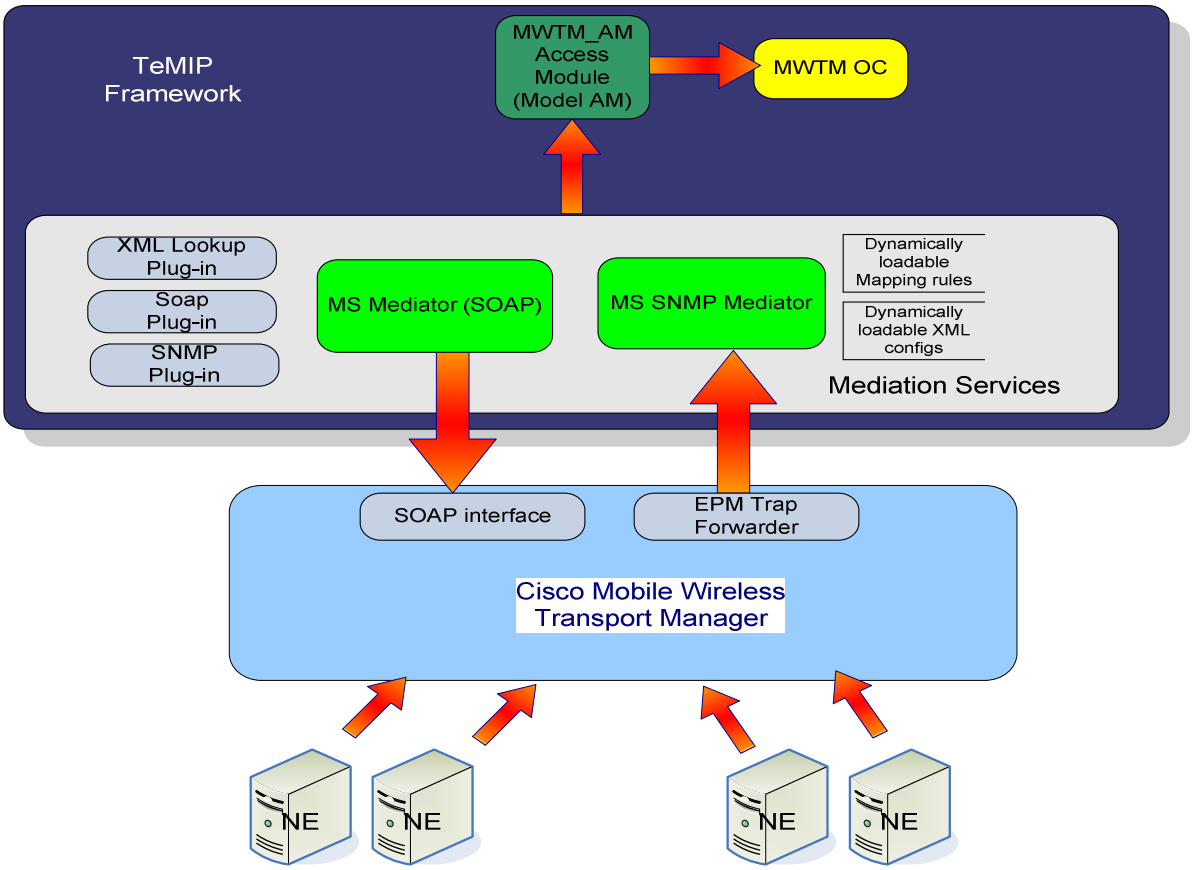
Alarm De-Duplication

Full alarm de-duplication monitoring enables the AM to guarantee Operation Context (OC) integrity. Full support for OC resynchronisation using the TeMIP Resync_FM is provided.

Alarm Status Synchronisation

The MWTM AM supports southbound alarm acknowledgement/termination notification between TeMIP and the MWTM platform. The capability is implemented through MS integration with the TeMIP Alarm Acknowledgement FM. The FM can be configured to monitor all domains/OCs containing MWTM instances. On detection of TeMIP operator acknowledgement/termination of an alarm, a corresponding acknowledgement/ termination is propagated into MWTM via the Mapping rules invoking the SOAP communications plug-in.

Architecture



Key Features:

- Reception of EPM traps from MWTM
- Alarm Resynchronisation triggering via MWTM SOAP interface
- Configurable alarm mapping and modelling in TeMIP
- TeMIP Resynchronisation FM support
- TeMIP Low level event filter support
- Automatic and Manual Alarm resynchronisation

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