



CrossTalk™ Mediation AM Toolkit

Configurable Mediation Facility for Integration into HP OpenView TeMIP

- ◆ Integration of Sub-Network/Element Management systems & Network Equipment with HP OpenView TeMIP—enabling a combined architecture for heterogeneous network management
- ◆ Flexible mapping of external alarms into HP OpenView TeMIP OSI events with dynamic load facility
- ◆ Modelling of devices and sub-components
- ◆ Clear Correlation
- ◆ Resynchronisation of outstanding alarms
- ◆ Bi-directional synchronisation of alarms status (acknowledgment, termination, etc.)
- ◆ Contextual launch of the sub-network management system GUI
- ◆ Low Cost of Ownership—updates to alarm message formats or the addition of new equipment classes are achieved through configuration

The CrossTalk™ Mediation AM toolkit is a set of tools and components providing a configurable mediation facility within the HP OpenView TeMIP framework. It enables alarm streams from a variety of sources external to HP OpenView TeMIP to be imported into HP OpenView TeMIP through the CrossTalk™ Mediation Services AM and mapped against a rich entity model provided by CrossTalk™ Device AMs.

Alarm Feeds

The CrossTalk™ Mediation Services AM accepts alarms in various forms, including text messages over TCP/IP and SNMP traps without the need for any MIBs. CORBA interfaces are supported via generic CORBA client interfacing over TCP/IP.

Mapping to HP OpenView TeMIP OSI Events

Each alarm feed uses an associated set of mapping rules responsible for the mapping of the alarms into standard OSI events. Mapping rules can perform database lookups, execute Perl scripts, and many other useful operations in order to achieve the required mapping. The resulting HP OpenView TeMIP events contain relevant information and provide Clear Correlation. Mapping rules can be dynamically loaded without interruption to service and can be defined using the CrossTalk™ Mapper GUI.

Devices Modelling

A dedicated Access Module generation toolkit is used to produce HP OpenView TeMIP Access Modules. It provides the capability to model

the Managed Object global class and sub-classes for the various devices, offering a complex mapping of alarms against any class and sub-class.

Outstanding Alarms Resynchronisation

The Access Modules (CrossTalk™ Device AMs) generated using the CrossTalk™ toolkit support an efficient hash table based Current Problem List (compatible with GAT CPL attribute) for the resynchronisation of alarms using the standard HP OpenView TeMIP Resynchronisation FM. The CrossTalk™ Mediation Services AM is also able to resynchronise alarms with the sub-network management systems.

Alarms Status Synchronisation

The customised solution offers bi-directional acknowledgement and termination of alarms between HP OpenView TeMIP and a third party sub-network management system such as HP OpenView Operations.

Contextual Launch

The solution can offer the contextual launch of a third party fault management interface from the HP OpenView TeMIP Client.

Mediations Currently Available:

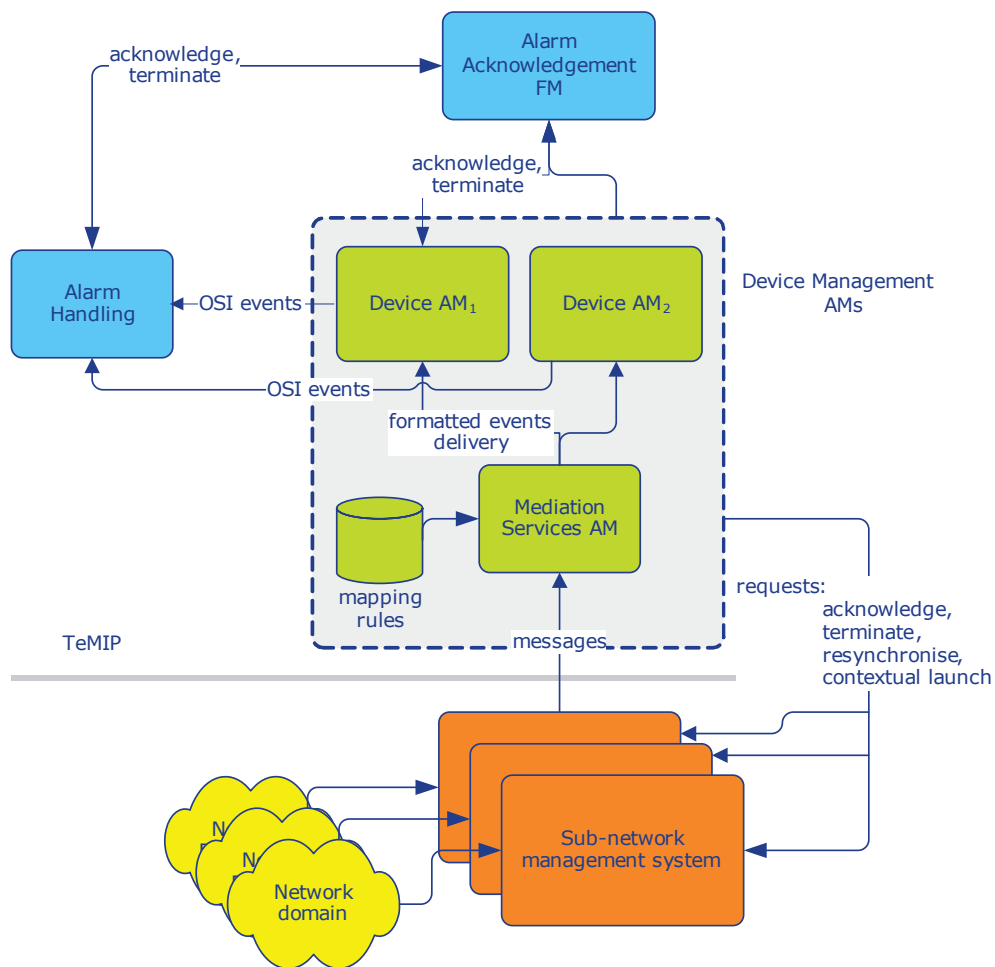
- ◆ EMC Smarts Liaison
- ◆ HP OpenView Operations Bridge
- ◆ Lucent NFM Liaison
- ◆ Aircom Optima Liaison
- ◆ Agilent Firehunter AM
- ◆ Cisco MWTM AM

CrossTalk™ Mediation AM Toolkit

Architecture

A sub-network management system sends alarms to the CrossTalk™ Mediation Services AM, which maps the alarm attributes to HP OpenView TeMIP OSI event attributes. These OSI event details are forwarded to the appropriate device AM (generated using the CrossTalk™ AM generation toolkit) providing the entity model to which the alarm is targeted. The device AMs generate HP OpenView TeMIP OSI events based on the event details passed from the Mediation Services AM. Device AMs implement a variety of alarm processing logic paths based on configuration of event detail fields determined by the Mediation Services AM and associated mapping rules. For instance alarm details can indicate whether an alarm should be maintained in device AM Current Problem Lists or not.

The following diagram shows the interactions between the components operating in the solution:



Systems Mechanics Ltd

Ferndale Court, West End Road, Mortimer, Reading, RG7 3SY

Tel: +44 (0)118 9332220

Fax: +44 (0)118 9333807

Email: sales@sysmech.co.uk

CrossTalk™, SysMech™ and their respective logos are trademarks of Systems Mechanics Ltd. All other trademarks are the property of their respective holders. Information in this document is subject to change without notice.

Copyright © 2006 Systems Mechanics Ltd. All rights reserved.