

CrossTalk™ Mediation Products

TeMIP – NetCool Liaison

- ◆ Highly resilient and performant framework for the transmission of TeMIP alarms into NetCool OMNIBus and vice versa
- ◆ Bi-directional Liaison handles the transmission of alarms, correlated clears, alarm status and attribute changes into NetCool OMNIBus and TeMIP
- ◆ Configurable filtering and selection of the alarms to be transmitted between the NetCool OMNIBus and TeMIP environments
- ◆ Heartbeat monitoring and fully automated alarm resynchronisation supported
- ◆ Simple user-implementable customised mapping between TeMIP and NetCool OMNIBus alarm attributes via dynamically reloadable mapping rules
- ◆ Founded on production environment proven CrossTalk™ components.
- ◆ Compliant with IBM recommendations for gateway/probe integrations

TeMIP alarm forwarding

Alarm and alarm status information is gathered from the TeMIP environment via the CrossTalk™ AAS FM which manages subscriptions to the TeMIP ACS FM for the collection of Alarm creation, clearance, state and attribute change events. The AAS FM based mapping rules invoke the CrossTalk™ TCP/IP plugin to relay packaged alarm and alarm status details to the platform independent CrossTalk™ MME (Mapping and Mediation Engine). In the absence of alarm traffic the TCP/IP plugin will generate heartbeat alarm messages at configurable intervals into MME to indicate continued connectivity and operation.

NetCool OMNIBus alarm forwarding

Alarm and alarm status information is gathered from the NetCool OMNIBus Objectserver database via configurable triggers. This collection function is provided by the IBM approved methods operating within the NetCool Adapter. This Adapter supports both alarm/ alarm status collection and delivery mechanisms

Delivery to OSS

The MME is responsible for undertaking the mapping between TeMIP alarm attributes and their NetCool OMNIBus counterparts, and delivering these details either via the NetCool Adapter or the TeMIP Gateway adapter. Both adapters create persisted alarm records/objects in the IBM Objectserver and TeMIP Operation Contexts respectively.

Performance & Reliability

The Liaison is designed and proven to handle sustained high alarm volumes. CrossTalk™ AAS FM and MME business logic applied through mapping rules is highly optimized enabling alarm details to be processed efficiently and quickly into the NetCool OMNIBus environment. Cooperating CrossTalk™ components are mature and proven in demanding Telco production environments. Options for failover/fallback configurations are supported.

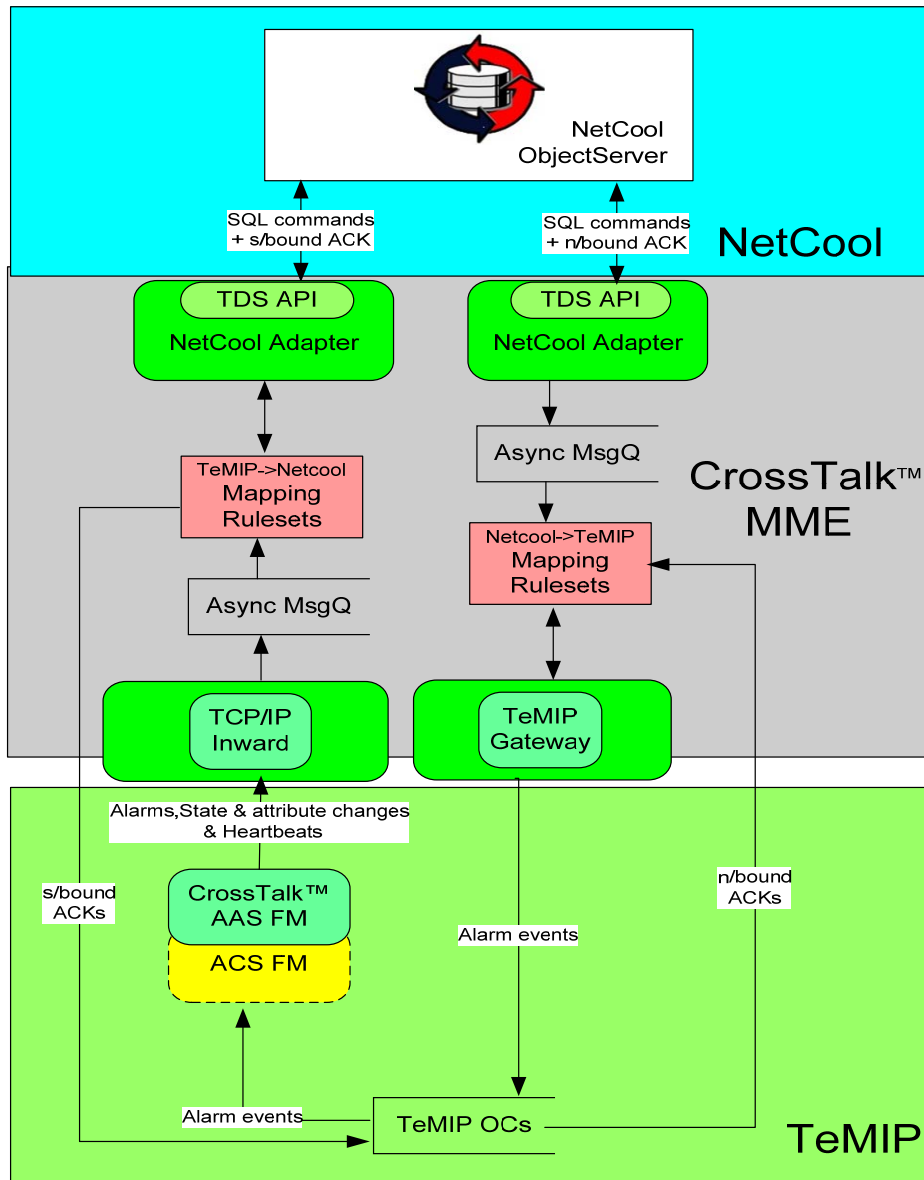
Configurable Mapping Rules

The liaison is delivered with default mapping rules providing a standardised mapping of TeMIP X.733 Alarm attributes to NetCool OMNIBus alarm objects and vice versa. These mapping rules can be quickly and easily customised to the requirements of individual Operators and dynamically reloaded to the “non-stop” operational environment .

Alarm/Status Synchronisation

Full resynchronisation between TeMIP Operation Contexts and NetCool OMNIBus ObjectServer is supported. The CrossTalk™ AAS_FM has capability to replay outstanding alarms held in TeMIP Operation Contexts under resynchronisation conditions occurring on re-establishment of connectivity from MME to NetCool OMNIBus or MME to the TeMIP platform. Synchronisation of event acknowledgement from NetCool OMNIBus to TeMIP is supported.

Architecture



Key Features:

- ◆ Highly resilient and performant bi-directional TeMIP-NetCool OMNibus liaison framework
- ◆ Configurable alarm mapping rules facilitating customised alarm attribute mapping and annotation to individual Operator requirements
- ◆ Fully automated resynchronisation between TeMIP and NetCool OMNibus
- ◆ Synchronisation of event acknowledgements from NetCool OMNibus to TeMIP and vice versa
- ◆ Based on mature, "tried and tested" CrossTalk™ components
- ◆ Full selectivity of alarms entering NetCool OMNibus and TeMIP environments

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