



Software Product Description

PRODUCT: Compaq TeMIP Metrica/NPR Liaison V4.0 SPD 80.16.01

DESCRIPTION

Compaq TeMIP features

Compaq TeMIP for Compaq™ Tru64® UNIX™ is a family of software products for the management of telecommunications and corporate networks, including fixed wire and mobile/cellular voice and data multi-vendor, multi-technology networks. TeMIP V4.0 provides comprehensive off-the-shelf fault and trouble management functions such as Alarm Handling and Event Logging for telecommunications network management.

TeMIP supports the International Standards Organization (ISO) management standards ISO 10164-x and 10165-x. TeMIP and its features are applicable in the context of the International Telephone Union-Telecommunication Standards (ITU-T) X.73x and Telecommunication Management Network (TMN) M.3010, M3100 Recommendations. It gives network operators a global view of their networks, and enables them to activate management functions and operations from single or multiple workstations.

TeMIP is built on top of the TeMIP Framework, and fully benefits from the object-oriented and truly distributed software architecture.

Compaq TeMIP Metrica/NPR Liaison description

The Service Assurance process integrates the network management and performance management functions of the Telecommunications Operators by the following provisions:

- linking the occurrence of a Quality of Service (QoS) event raised within Metrica/NPR to the creation of a TeMIP QoS alarm
- direct access to the Metrica/NPR performance metrics and graphs from the TeMIP Iconic Map

The link and access are provided by TeMIP Metrica/NPR (Network Problem Reporting) Liaison.

TeMIP Metrica/NPR Liaison interfaces between the TeMIP Iconic Map and Alarm Handling functions and the partner product Metrica/NPR.

Metrica/NPR is a performance management product for gathering and providing access to network performance data. The data is related to key performance indicators, such as:

- network availability
- levels of interference
- dropped calls
- congestion
- traffic levels
- utilization
- Grade of Service

Integration of Metrica/NPR with TeMIP permits a fusion of the performance data gathering capabilities of Metrica/NPR with the fault management capabilities of TeMIP.

Metrica/NPR is integrated with TeMIP via the Metrica/NPR *Performance Alarm Server* (PAS). This monitors real-time or historical data, and generates alarms when user-defined conditions and thresholds are reached. These performance alarms (QoS alarms) can be sent automatically to TeMIP.

The PAS is used to detect conditions that affect the quality of service; conditions that would not normally be detected with the real-time fault management information available through TeMIP. For example, the PAS can detect sleeping cells, or abnormally high levels of congestion at a particular site.

Once TeMIP receives the performance alarms, other TeMIP functions can use the alarms and the information they provide. For example, TeMIP Clarify Liaison can issue Trouble Tickets in order to track a related problem (or problems) from investigation through to clearance.

TeMIP Metrica/NPR Liaison processes

TeMIP Metrica/NPR Liaison is implemented across the Compaq Tru64 UNIX platform in the form of several modules, as shown in [Figure 1](#).

On the TeMIP server, TeMIP Metrica/NPR Liaison plugs in as an Access Module (NPR_PAS_AM).

On the Metrica/NPR server, no further process is needed for the TeMIP Metrica/NPR Liaison. The name repository (Synonym Service) is used for naming translation by NPR_PAS_AM and must be updated on a regular basis.

A TeMIP Metrica/NPR Liaison “client” is installed with each Alarm Handling Presentation Module (AH PM) and Iconic Map Presentation Module (IM PM) on Compaq Tru64 UNIX. The “client” is a customized Applications menu with keyboard and mouse shortcuts.

Configuration

Setting up TeMIP Metrica/NPR Liaison requires customizing the Metrica/NPR PAS to generate QoS alarms in ASCII format and address them to the NPR_PAS_AM server. Full details are given in the

Compaq TeMIP Metrica/NPR Liaison Getting Started Guide.

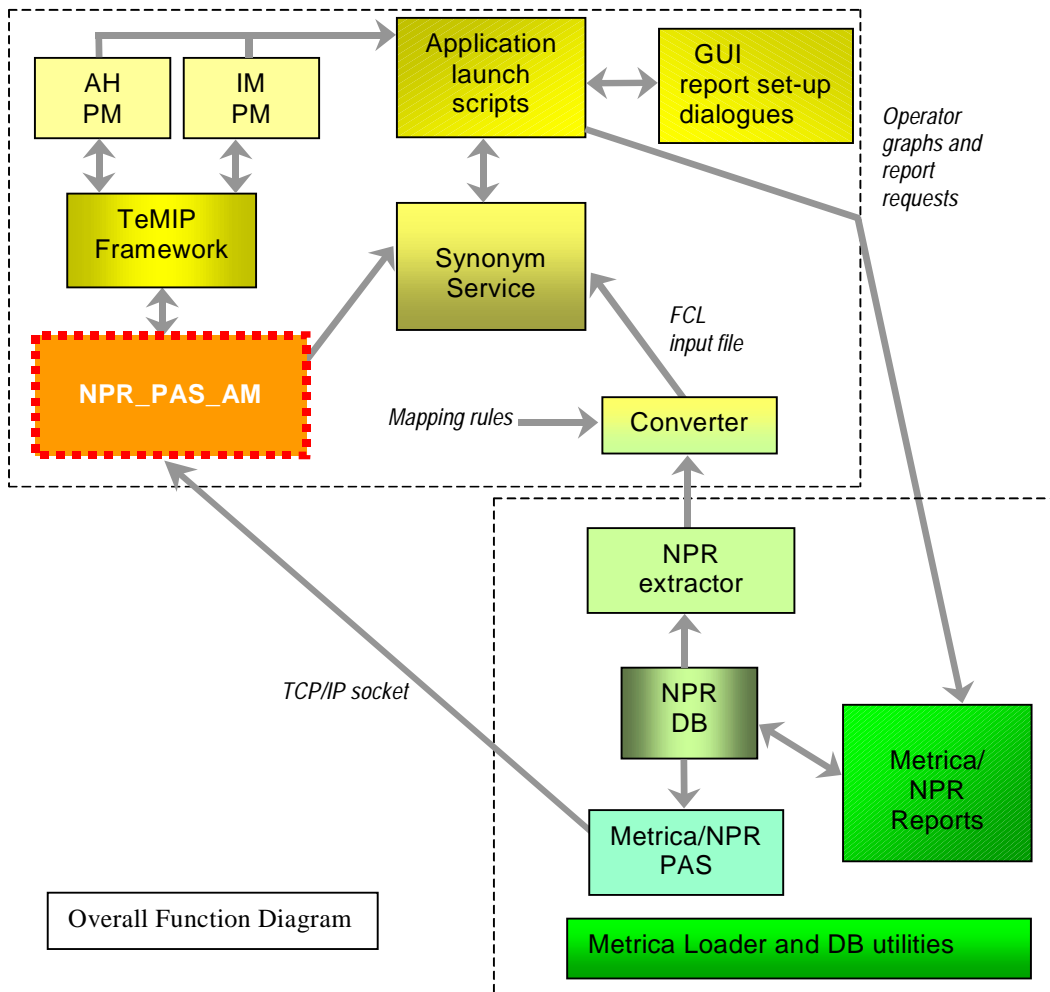
You must establish a mapping from the naming model used in Metrica/NPR to the naming model used in TeMIP. Customizable automation tools are supplied with TeMIP Metrica/NPR Liaison so that a minimum of manual operations will be required for this.

If you need to install Metrica/NPR, you can use SystemMate to set up the installation, configuration, and customization procedure.

You can simplify the customization procedure by using the same naming conventions in both TeMIP and Metrica/NPR.

If you already have a Metrica/NPR configuration set up, you can further simplify customization by importing it.

Figure 1 TeMIP Metrica/NPR Liaison modules



In addition, you can use the Transformation Module (Converter) to customize the field mappings

between TeMIP Alarm Objects and Metrica/NPR alarms. Using this generic software component, script files can be written to override the default field

mappings provided during installation, in order to take account of Alarm Object customization on the TeMIP side or Case customization on the Metrica/NPR side.

DOCUMENTATION

Two documents describe the procedures for installing, setting up, using, and customizing TeMIP Metrica/NPR Liaison:

- *Compaq TeMIP Metrica/NPR Liaison, Getting Started Guide*
- *Compaq TeMIP Metrica/NPR Liaison, Release Notes*

Complete documentation on the Metrica/NPR is given in PDF format on the Metrica/NPR Documentation CD.

HARDWARE REQUIREMENTS

Supported Alpha AXP Processors:

DIGITAL Personal Workstation au series
DIGITAL Ultimate Workstation
AlphaStation 600
AlphaServer 800, 1000A, 1200
Compaq AlphaServer DS10, DS20

AlphaServer 2000, 2100, 4000, 4100
Compaq AlphaServer ES40

- AlphaServer 8200, 8400
- Compaq AlphaServer GS60, GS140

Disk Space Requirements

Disk space required for installation:

- On the TeMIP system: 15 MB
- On the Metrica/NPR server: 1 MB

Memory Requirements

Typically, the memory required for the NPR_PAS_AM process when running is 2 MB. If this memory is not available as part of the main memory of the system, it may have a negative effect on the performance of TeMIP Metrica/NPR Liaison due to the time spent on excessive swapping.

SOFTWARE REQUIREMENTS

On the TeMIP system:

- TeMIP Framework V4.0
- TeMIP Alarm Handling V4.0 for Compaq Tru64 UNIX
- TeMIP Iconic Map V4.0 for Compaq Tru64 UNIX
- Compaq Tru64 UNIX operating system V4.0F

On the Metrica/NPR server:

- Metrica/NPR 3.0

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the current version requirements.

YEAR 2000 READY

This product is Year 2000 Ready.

"Year 2000 Ready" products are defined by Compaq as products capable of accurately processing, providing, and/or receiving date data from, into and between the twentieth and the twenty-first centuries, and the years 1999 and 2000, including leap year calculations, when used in accordance with the associated Compaq product documentation and provided that all hardware, firmware and software used in combination with such Compaq products properly exchange accurate date data with the Compaq products.

For additional information visit Compaq's Year 2000 Product Readiness web site located at <http://www.compaq.com/year2000>

To ensure that this product is Year 2000 Ready, code assessment and system tests to verify the transition between December 31st 1999 and January 1st 2000 were utilized.

To ensure that this product interoperates properly with other hardware and software, the system tests involving Compaq's TeMIP V4.0 are applicable, as this product was verified as being Year 2000 Ready.

DISTRIBUTION MEDIA

Software Media and Documentation: AG-RLCAB-RE

ORDERING INFORMATION

TeMIP Metrica/NPR Liaison traditional license:

Software License: QM-6FBAA-AA

Software Product Services: QT-6FB**-** or QR-6FBXX-XX

SOFTWARE LICENSING

TeMIP Metrica/NPR Liaison is licensed on a server basis, regardless of the machine class (flat licensing). The license is associated with the UNIX server where NPR_PAS_AM is running. In addition a GAT run time license is required. There is no license associated with the TeMIP Metrica/NPR Liaison Client (NPRC) or with the parts of TeMIP Metrica/NPR Liaison located on the Metrica/NPR server (NPRS).

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