



# Software Product Description

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SPD 80.12.00

**PRODUCT NAME: TeMIP Access Module for ALCATEL 1353SH Element Manager**

## DESCRIPTION

The TeMIP ALCATEL 1353SH Access Module (AM) provides an interface to the ALCATEL 1353SH Element Manager - Operations System. This AM supports fault management capabilities with a basic Information Model (2 global classes). Support is provided for receiving and processing unsolicited messages, generating management commands and receiving associated responses (Basic Fault Management).

TeMIP 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 V3.2 provides comprehensive off-the-shelf fault and trouble management functions such as Alarm Handling, Event Logging and Trouble Ticketing for telecommunications network management.

TeMIP supports the International Standards Organization (ISO) management standards ISO 10164-x and ISO 10165-x, the OMNIpoint 1 standards as defined by NMF and T1M1. TeMIP and its features are applicable in the context of the International Telecommunication Union-Telecom Standard Sector (ITU-T) X.73x and

Telecommunications Management Network (TMN) M.3010 and M.3100 Recommendations. TeMIP 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.

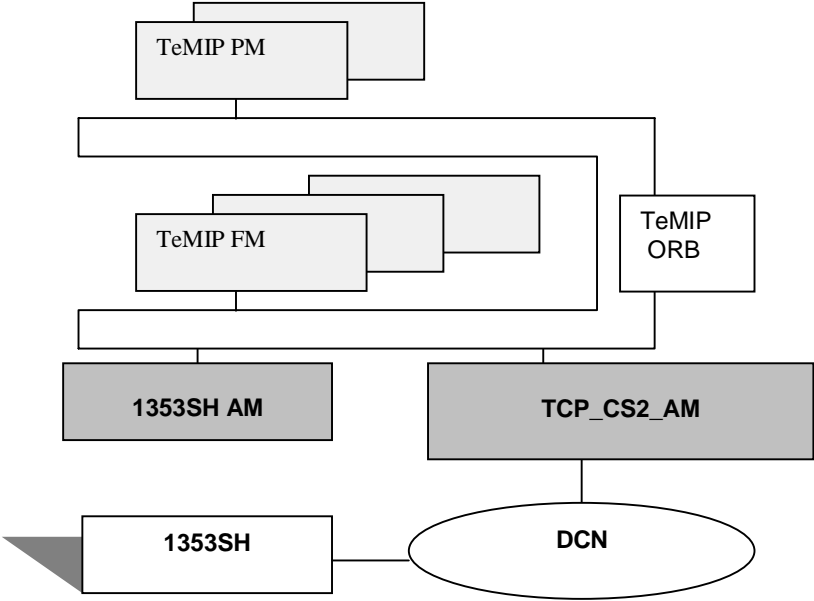
## SOLUTION COMPONENTS

The 1353SH is directly interfaced to TeMIP by means of a combination of Management Modules and Applications:

- The ALCATEL TCP\_CS2\_AM Communications Server Access Module, responsible for establishing and maintaining the physical connection to the Element Manager.
- The 1353SH AM, responsible for the Information Model representing the management capabilities of the equipment as well as all associated semantic translations between its ASCII-based messaging interface and TeMIP data models.

The solution components are shown in Figure 1.

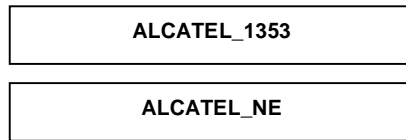
Figure 1: Solution Components



## INFORMATION MODEL OUTLINE

The 1353SH is represented by the information Model shown in Figure 2

**Figure 2: Information Model**



The meaning of each class is described in Table 1.

**Table 1: Alcatel 1353SH Hierarchy Description**

| Class        | Description  | Cardinality |
|--------------|--|-------------|
| ALCATEL_1353 | This class represents an Alcatel OS connected to a 1353SH AM             | N           |
| ALCATEL_NE   | This class models a Network Element that is connected to the Alcatel OS. | N           |

### MANAGEMENT CAPABILITIES SUMMARY

#### Unsolicited Messages Support

The 1353SH AM handles the unsolicited Alarm Notification type messages coming from the Alcatel 1353SH Element Manager. Notification is sent by the ALCATEL 1353SH OS in three situations:

- to transmit an unsolicited alarm
- to clear an unsolicited alarm
- as response to a "LIST\_CUR\_ALARMS\_REQ" command.

These situations correspond to the following two message formats.

```
ALARM_NOTIF [ notificationType =
<"alarmRaise" or "alarmList"> :
currentAlarmId = <value> : friendlyName =
<value> : eventTime = <value> : eventType =
<value> : probableCause = <value> :
perceivedServerity = <value>]
```

```
ALARM_NOTIF [ notificationType = alarmClear
: currentAlarmId = <value> : friendlyName =
<value>]
```

The notificationType field corresponds to the situation. The "friendlyName" message field is used to identify the equipment that emitted the alarm, and the remaining fields are OSI standard attributes.

#### Commands Support

The command "Resynchronisation" is supported by the 1353SH AM.

The Resynchronization directive prompts the ALCATEL 1353SH OS for its current alarm status. Alarms that have not yet been cleared will be cleared, and alarms that have not shown up for some reason, will be inserted.

#### MISCELLANEOUS MANAGEMENT CAPABILITIES

- Automatic detection and reporting of communication failure
- Automatic alarm state re-synchronization upon re-connect after communication failure
- HeartBeat Detection and Operational State handling

## 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:  
Subset copy: 56,000 Kbytes  
Installation: /usr 127,000 Kbytes

Disk Space Required for Use (Permanent):  
No specific requirement

### Memory Requirements:

The minimum memory supported, due to a TeMIP Framework prerequisite, is 128 Mbytes.

However, the use of this software in conjunction with increased memory capability improves performance.

## SOFTWARE REQUIREMENTS

Compaq Tru64 UNIX V4.0D or V4.0F

TeMIP Framework V3.2

A TeMIP Graphical ASCII Toolkit run time license per Access Module is also required

## OPTIONAL SOFTWARE

TeMIP Graphical ASCII Toolkit V2.0

## 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

"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 31<sup>st</sup> 1999 and January 1<sup>st</sup> 2000 were utilized.

To ensure that this product interoperates properly with other hardware and software, the system tests involving Compaq's TeMIP V3.2 are applicable, as this product was verified as being Year 2000 Ready.

The testing used to confirm the Year 2000 readiness of this product included code assessment and system tests to verify transition dates.

## DISTRIBUTION MEDIA

This software is available by electronic means, distributed directly by the Engineering Team in NSIS/CIS Telecom, who can be contacted through your local Compaq office, which sends an internal e-mail to [vbtemipsupp@compaq.com](mailto:vbtemipsupp@compaq.com) (containing customer identification and proof of license purchase).

## ORDERING INFORMATION

*TeMIP Access Module for ALCATEL 1353SH Element Manager Basic Fault Management*

Software License:

- QM-6EZAA-AA

Software Product Services:

- QT-6EZ\*-T\* or QR-SP6EZ-A9

### Notes:

1. \* denotes variable fields. For additional information on available services, or hardware platform tiers, refer to the appropriate price book.
2. The QM number corresponding to the TeMIP Graphical ASCII Toolkit V2.0 (Run-Time) must also be purchased (QM-5SMAA-AA).

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A FLEXIm key must be obtained using information provided with the license deliverable. An authorization number is provided for each license, which allows the user to obtain license keys from an Internet Web Server according to instructions provided with the License Certificate.

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