COMPAQ

Software Product Description

PRODUCT: TeMIP Access Module for NEC NEAX61MTS Switch

SPD 70.78.00

DESCRIPTION

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, and 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. 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. The TeMIP NEAX61MTS Access Module (AM) is part of this program and provides an interface to the NEC NEAX61MTS Switching System (product release version: G32-606-126). This Access Module supports fault management capabilities, receiving and processing unsolicited messages.

SOLUTION COMPONENTS

The NEC NEAX61MTS switch is directly interfaced to TeMIP by means of a combination of Management Modules:

- The RS232 Communication Server Access Module, responsible for establishing and maintaining the physical connection to the equipment.
- The NEAX61MTS 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.





INFORMATION MODEL OUTLINE

The NEAX61MTS AM is represented by the information model shown in Figure 2.

Figure 2: Information Model



The meaning of each class is described in Table 1.

Class	Description	Cardinality
NEAX61_AMPS	This represents the MSC itself.	1
Accounting	Exchange accounting (billing) subsystem.	1
Base_Station	Remote station that contains the Radio Units responsible for subscriber unit connection.	Ν
Cell	Base Station sectors.	1, 2 or 3
HLR_VLR	Home Location Register – Visitor Location Register: alarms related to subscriber database register.	1
Main_HW	Main Hardware – alarms related to the exchange hardware.	1
Peripheral	I/O processor, and all other I/O equipment (disk, printer, terminal, tape).	1
Processor	Call processor, and all other processors, except SS7 and I/O.	Ν
Route	Group of all routes logically programmed in the switch.	Ν
Signalling	Signalling system: ISUP, TUP, IS41, and proprietary.	1
Signalling.Link_Set	Link Set of the signalling system.	Ν
Signalling.Link_Set.Link	Physical link of the signalling system.	Ν
Software	Software Subsystems (e.g., files system).	1
Switching	Hardware parts responsible for call switching.	1

MANAGEMENT CAPABILITIES SUMMARY

Unsolicited Messages Support

The NEAX61MTS exchange can generate a large number of different messages (more than 400 types). The NEAX61MTS AM can handle all unsolicited messages with a given level of severity determined by the switch, that is, TeMIP will capture all alarm types (*message Id*) sent by the switch with severity critical, major, minor, warning and indeterminate.

However, because not all alarms are relevant or usual, the NEAX61MTS AM maps messages to the ITU-T Standards in various levels of detail. Usual messages are carefully mapped to the Standards while unusual messages are roughly mapped to default values. The proprietary alarm message is always present in the Additional Text field for both Usual and Unusual messages.

Alarm Clearance

Several unsolicited messages have a correlated clearance alarm. For these messages the NEAX61MTS AM generates the necessary information (Notification Id

or Specific Problems) so that the correct alarm correlation can be performed.

TeMIP correlates alarms according to the following rules:

- If the clearance alarm provides a value to the Notification Identifier, all alarms that have the same Managed Object instance and the same Notification Identifier will be cleared.
- If the clearance alarm does not provide a value to the Correlated Notification Identifier, all alarms that have the same Managed Object instance, Probable Cause, Event Type and Specific Problem (as the values provided in the clearance alarm) will be cleared.

Alarm Information

Table 2 lists the NEAX61MTS alarm messages that are recognized and processed by the NEAX61MTS AM.

ID	Text
*CR000	PHASE 0.5 INITIALIZATION EXECUTED
*CR001	PHASE 1 INITIALIZATION EXECUTED
*CR002	PHASE 2 INITIALIZATION EXECUTED
*CR003	PHASE 2.5 INITIALIZATION EXECUTED
*CR004	PHASE 3 INITIALIZATION EXECUTED
*CR005	PHASE 1.5 INITIALIZATION EXECUTED
*CR008	FILE UPDATE END PHASE 2 INITIALIZATION EXECUTED
*CR013	CLOCK SET END WITH PARTIAL DOWN
*CR014	FAULT MTM AND SYSTEM CLOCK OPERATES ONLY WITH SOFT CLOCK
***015	
***030	FAULT CPxx-CPM-CCi CPxx-CPM-MMi xx-xxx-xxx
***031	FAULT CPxx-CPM-CCi CPxx-CPM-CCi xx-xxx-xxx
***032	FAULT CPxx-CPM-CCi CPxx-CPM-IOPij xx-xxx-xxx
***033	FAULT CPxx-CPMCCi CPxx-CPM-SPli xx-xxx-xxx
***034	FAULT DKij
***043	FAULT LPi
***045	FAULT MTIj
***047	FAULT MATI
***051	FAULT CMi xx-xxx-xxx
***052	FAULT MPCi MPCi xx-xxx-xxx
***053	FAULT CPxx-CPM-CCi CPxx-CPM-CMAPi xx-xxx-xxx
***057	FAULT CPxx-CPM-CCi CPxx-CPM-SSPi xx-xxx-xx
***058	FAULT CPxx-CPM-CCi CPxx-CPM-SBPi xx-xxx-xxx
*CR059	FAULT DKIJ ALL DOWN
***060	FAULT SBi SBi xx-xxx-xxx
***061	RP EMERGENCY SIGNAL RECEIVED FROM RN=cccc
*CR066	AMA FUNCTION STOPPED
***068	FAULT CLKi CLKi xx-xxx-xx
*CR069	FAULT CLKI PARTIAL DOWN CLKI xx-xxx-xxx
***077	FAULT CPxx-CCSCxx CPxx-CCSCxx xx-xxx-xxx
***080	FAULT CPxx-CPM-CCi CPxx-BIUij xx-xxx-xxx
***081	FAULT CPxx-SPCij CPxx-SPCij xx-xxx-xxx
***082	FAULT CPxx-SPCij CPxx-TSUijk xx-xxx-xxx
***083	FAULT CPxx-LOCijk CPxx-LOCijkl xx-xxx-xxx
***084	FAULT CPxx-LOCijk CPxx-DTICijkl xx-xxx-xxx
***097	FAULT CPxx-LOCijk CPxx-SVTCijkl xx-xxx-xxx
*CR106	FAULT CPxx-SPCij PARTIAL DOWN CONDITION CODE ERRO
***107	FAULT CPxx-LOCijk CPxx-LOCijkl xx-xxx-xxx
***119	AMA MT NOT ASSIGNED
***137	FAULT CPxx-SVTMijkIm REC
***138	FAULT CPxx-DTlijkI CARD NOT INSTALLED
***139	FAULT CPxx-DTlijkl CARRIER (FL MJ)
***140	FAULT CPxx-TMijkl
***145	CELL SITE ALARM FROM RN=cccc
***146	CONTROL CHANNEL REPEATER ALARM FROM RN=cccc

ID	Text
***150	CPxx SYSTEM OVERLOAD LEVEL x TRAFFIC RESTRICTION
***151	EXECUTED BY ccc MALICIOUS CALL TRACE
***152	MALICIOUS CALL TRACE
***153	MALICIOUS CALL TRACE
***154	TICKET FILE END MTII
***155	TICKET POOL NEAR END
***156	AMA FUNCTION STOP
***165	FAULT CPXX-SPCII ERROR (NO ANSWER)
***177	
***183	
*CR185	
*CD196	
*CD407	
*OD400	
*CR188	
***190	
***191	FAULT CPxx-DTIIjkI CARRIER (SLIP.MJ)
**.204	GENERAL QUEUE OVER FLOW CPxx-SPCij
**.205	MAINTENANCE QUEUE OVER FLOW
**.206	CLOCK ROUTE ALARM CPxx-SPCij
**.207	CM MASTER/SLAVE CHECK NG
**.208	CCCCCCCCCCCC ALARM
**.218	SERIAL NUMBER CHECK NG (CCCCCCCCC)
**.220	CLKi ERROR (ccccccccccccccccccccccccccc)
**.302	CONNECTION TEST NG
**.303	FAULT CN=ccccxxxx THRESHOLD OVER
**.313	TRAFFIC DATA OUTPUT cc MT ERROR
**.315	FAULT CPxx-DTIijkI CARRIER (BPV.MN GRADE A)
**.316	FAULT CPxx-DTIijkI CARRIER (BPV.MN GRADE B)
**.317	FAULT CPxx-DTlijkl CARRIER (PE.MN)
**.318	FAULT CPxx-DTlijkl CARRIER (SLIP.MN)
**.322	FAULT CPxx-DTlijkl CARRIER (FL.MN)
**.323	LM/TM PILOT ERROR CPxx-LOCijkl-xx (bbb)
**.324	FAULT CPxx-Tmijklm
**.332	C7 CIRCUIT GROUP UNBLOCKING NOT ACKNOWLEDGED
**.333	C7 CIRCUIT GROUP BLOCKING INCOMPLETE TRUNK LIST
**.334	C7 CIRCUIT GROUP UNBLOCKING INCOMPLETE TRUNK
**.336	LIST C7 CIRCUIT GROUP RESET NOT ACKNOWLEDGED
**.354	TICKET FILE END MTIj
**.355	TICKET FILE END MTIJ CONTINUE RECORDING MTIJ
**.358	C7 TRUNK SIGNALLING TROUBLE LIST
**.362	C7 BLOCKING NOT ACKNOWLEDGED
**.363	C7 UNBLOCKING NOT ACKNOWLEDGED
**.364	C7 ILLEGAL SIGNAL WAS RECFIVED
**.365	
** 367	
.307	

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ID	Text
**.371	FORCED RELEASE BY UTL MN=xxxxxxxxx CN=ccccxxxx
**.373	FORCED RELEASE BY AUD MN=xxxxxxxxxx CN=ccccxxxx
**.374	VCR ALARM CN=ccccxxxx PTN=BBBBBBBB
**.377	CALLED NUMBER CODE ERROR
**.378	SERIAL NUMBER NG
**.379	CALLED NUMBER (2ND DIGIT) CODE ERROR
**.384	C7 LINK FAILURE LK=ccccxx CPxx-CCSCxx
**.387	C7 CBD WAS NOT ACKNOWLEDGED LK=cccccxx PC=xxxxxx
**.388	C7 TFP WAS RECEIVED LK=ccccxx PC=xxxxxxxx
**.391	CELL SITE ALARM FROM RN=cccc
**.392	CONTROL CHANNEL REPEATER ALARM FROM RN=cccc
**.394	NUMBER OF BLOCKED CIRCUITS OVER RN=cccc
*400	BUSY Mtij
*401	WRITE PROTECTION USED ON Mtij
*402	OFF LINE - CCCC
*406	CPxx-SPCij ERROR
*408	CPxx-LOCijk ERROR
*410	FAULT CPxx-DTlijkl CARRIER (BE.MN GRADE C)
*411	FAULT CPxx-DTlijkI CARRIER (BE.MN GRADE D)
*412	A-IS ERROR CPxx-CPM-CCi
*413	CPxx-ccccccc ERROR (NO ANSWER)
*419	CPxx-LOCijk ERROR
*424	ROUTE CONGESTION
*425	CPxx-ccccccc ERROR
*431	CPxx-CPM-CCi CONDITION CODE ERROR
*432	CPxx-SPCij ERROR (NO ANSWER)
*433	CMI ERROR
*434	A-IS ERROR CPxx-CPM-CCi (CM ERROR)
*443	C7 CBD WAS NOT ACKNOWLEGED
*453	C7 BLOCKED TRUNK LIST - OVER 5 MINUTES
**.454	C7 CONTINUITY CHECK NG
*455	C7 SIGNAL TIME-OUT AFTER ccc
*456	C7 MANUALLY BLOCKED TRUNK LIST -OVER 5 MINUTS
*457	MPCI ERROR
*471	CPxx-cccccc INS FAILURE (EV=xxx)
*490	CPxx-CPM-CCi MINOR ERROR
*491	CPxx-CPM-CCi SINGLE BIT ERROR
*492	CMI SINGLE BIT ERROR
*500	ACT TOTAL BUSY FAIL BLOCK NG
*515	SPCE NOT MATCH ACT SKIP CN=ccccxxxx
*516	EQUIPMENT BLOCK ACT SKIP CN=ccccxxxx
*517	ICTCONN NG OR MATE NG ACT SKIP CN=ccccxxxx
*518	S-TN NOT READY ACT SKIP
*521	IR CODE ERROR
*523	OUTGOING SENDER TIME-OUT
*529	INCOMING REGISTER TIME-OUT
*530	OS CODE ERROR
*531	ANI FAILURE
*534	LINE TROUBLE

ID	Tract
ID	lext
*537	ACT WAIT OR JBC STP TYP IN:P6 IS BUSY
*538	SHORT HOLDING TRUNK
*539	ALWAYS BUSY TRUNK
*540	LONG HOLDING TRUNK
*541	NO ATTEMPT TRUNK
*546	C7 ccc WAS RECEIVED LK=ccccxx
*547	SIGNALLING LINK TEST FAILURE
*557	C7 CCSP DPOC ACTIVATED CPxx LVL=x
*573	FORCED RELEASE BY ITL MN=xxxxxxxx CN=ccccxxxx
*578	NO WINK OUTGOING TRUNK (ccccc)
*580	FAULT TRUNK CIRCUIT
#600	CLOCK SET END
#601	MEMORY TEST START
#602	MEMORY TEST END
#604	FILE-MM COMPARE CHECK OK
#606	GENERAL QUEUE OVER FLOW CANCEL CPxx-SPCij
#607	MAINTENANCE QUEUE OVER FLOW CANCEL CPxx-SPCij
#608	CLOCK ROUTE ALARM CANCEL CPxx-SPCij
#618	FAULT RECOVER CPxx-SVTCijklm
#620	AUTOMATIC BACK-UP FILE DUMP END
#631	CANCELED ROAMERS INFORMATION
#632	ROAMER CANCEL IMPOSSIBLE
#633	ROAMER CANCEL IMPOSSIBLE
#634	ROAMER CANCEL IMPOSSIBLE
#635	RESOURCE FOR ROAMER BUSY
#638	CELL SITE ALARM RECOVER FROM RN=cccc
#639	CONTROL CHANNEL REPEATER ALARM RECOVERY FROM
#643	RN=cccc CHANGE TO SUMMER TIME
#645	REFERENCE CLOCK ROUTE x ALARM CANCEL
#646	CLOCKM ACT CHANGED
#647	CLOCKM FREE RUN EXECUTED
#648	REFERENCE CLOCK ROUTE CHANGED x TO x
#649	PARTIAL DOWN CANCEL CLKi
#651	VOICE CHANNEL LOCKOUT CANCEL CN=ccccxxxx
#654	VCR ALARM CANCEL CN=ccccxxxx
#655	MOBILE FAILURE CANCEL MN=xxxxxxxxx CN=ccccxxxx
#656	RP MNT SIGNAL RECEIVED FROM RN=cccc
#674	UNCOMPLETED AMA CALL
#700	CIRCUIT MAKE BLOCK END CN=cccccxxx (cc)
#701	CIRCUIT ROUTE MAKE BLOCK END RN=cccc (cc)
#702	SERVICE CIRCUIT MAKE BLOCK END CN=ccccxxxx
#703	SERVICE CIRCUIT ROUTE MAKE BLOCK END RN=cccc
#705	AUTOMATIC TRUNK CIRCUIT TEST START
#706	AUTOMATIC TRUNK CIRCUIT TEST END
#711	TRAFFIC DATA OUTPUT (cc) START
#712	TRAFFIC DATA OUTPUT (cc) END
#713	SERVICE OBSERVATION START
#715	SERVICE OBSERVATION END

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ID	Text
#716	JUNTOR MAKE BLOCK END
#718	AMA FUNCTION START
#720	MAKE-UP SERVICE NOT COMPLETED
#721	MAKE-UP SERVICE NOT ACTIVADED
#728	PARTIAL DOWN CANCEL CPxx-SPCij
#729	PARTIAL DOWN CANCEL CPxx-LOCijk
#730	CCCCCCCCCCCCC CC ALARM CANCELED
#732	FAULT RECOVER CPxx-DTlijkl
#734	LINE TROUBLE CANCEL
#735	TRAFFIC DATA OUTPUT cc MT END
#737	EMERGENCY CALL
#762	CPxx SYSTEM OVERLOAD (ccc) CANCEL COMPLETED
#766	PERIODIC DIAGNOSIS SYSTEM CONFIGURATION CHANGE
#767	PERIODIC DIAGNOSIS AND SYSTEM CONFIGURATION
#769	CCCCCCCCCCCC AUTOMATIC DIAGNOSIS
#785	ROUTE CONGESTION CANCEL
#793	TRUNK FAULT SUMMARY REPORT
#794	NUMBER OF BLOCKED CIRCUITS RECOVERED TO NORMAL
#881	C7 BLOCKING ACKNOWLEDGED
#882	C7 UNBLOCKING COMPLETED
#883	C7 TRUNK SIGNALLING RECOVER LIST
#884	C7 BLOCKED TRUNK CANCEL
#885	C7 CONTINUITY CHECK OK
#886	C7 SIGNAL TIME-OUT RELEASE
#887	C7 LINK FAILURE WAS RECOVERED LK=ccccxx
#888	C7 LINK SET WAS RECOVERED FROM UNAVAILABLE
#889	C7 LINK CONGESTION CANCEL LK=cccccxx LVL=x
#890	C7 LINK WAS CANCELLED LK=ccccxx (ccc)
#904	FAULT RECOVER CPxx-TMijklm
#906	CIRCUIT MAKE BLOCK CN=ccccxxxx
#907	CIRCUIT MAKE BLOCK WAIT CN=ccccxxxx
#908	CIRCUIT MAKE IDLE CN=ccccxxxx
#909	CIRCUIT MAKE BLOCK RELEASE CN=ccccxxxx
#912	TEST CALL ERROR CN=ccccxxxx ERR xxx
#918	LM/TM PILOT ERROR CANCEL CPxx-LOCijki - xx
#925	CPxx SYSTEM OVERLOAD CANCEL START
#932	C7 CIRCUIT GROUP BLOCKING ACKNOWLEDGED AFTER
#933	C7 CIRCUIT GROUP UNBLOCKING ACKNOWLEDGED AFTER
#934	C7 CIRCUIT GROUP BLOCKING RETRY CANCELED
#935	C7 CIRCUIT GROUP UNBLOCKING RETRY CANCELED
#936	
#937	FAULT RECOVER CPxx-TMijkl
#944	AUTOMATIC CONTROL CHANNEL HANGE START
#945	AUTOMATIC CONTROL CHANNEL HANGE END
#946	
#947	ROAMER CANCEL IMPOSSIBLE SUBSCRIBER BUSY
#954	ALARM STATUS MESSAGE
#964	CHANGE TO WINTER TIME

ID	Text
#999	
*CR1000	PHASE xxx INITIALIZATION START
***1001	FAULT MCLCi
***1006	CLOCK ROUTE x FORCED - MANUAL CHANGE OVER
***1007	FAULT REFERENCE CLOCK ROUTE xxx
***1015	AUTOMATIC BACK-UP FILE DUMP ERROR
***1016	FILE-MM COMPARE CHECK NG LIST END
*CR1017	CCCCCCCCCCCC ALARM
***1027	FILE-MM COMPARE CHECK NG
***1052	CPxx-ccccccc INS FAILURE (EV=xxx)
*CR1055	CELL SITE ALARM FROM RN=cccc
*CR1056	AMAT DISK STORAGE OCCUPANCY REACHED xxx %
***1057	AMAT DISK STORAGE OCCUPANCY REACHED xxx %
***1060	CELL SITE DOWN RN=cccc
***1080	ALMCx ALARM
***1098	C7 LINK SET BECAME UNAVAILABLE LS=cccc
***1107	C7 TRUNK SIGNALLING TROUBLE LIST
***1114	CPxx-CCSCxx OUT-OF-SERVICE AUTOMATIC DIAGNOSIS ACTIVATION FAILURE
***1137	PHASE RESTART INTEGRITY CHECK ERROR EV=xx
***1143	CPxx-CPM-CCI HIB ERROR IN CONNECTION TO CPxx- CCSCxx
***1146	GENERAL QUEVE OVERFLOW CONTINUED CPxx-SPCij
***1167	OWN MTP IS RESTARTING (N1=x)
***1168	OWN MTP RESTART ENDS (N1=x)
*CR1172	FUP WITHOUT PHASE INITIALIZATION FAILURE
**.1203	AMA MT VOL CHECK NG MTIj
**.1205	EOT DETECTED MTIJ
**.1207	WRITE PROTECTION USED ON MTIj
**.1208	OFF LINE CCIJ
**.1217	SERVICE OBSERVATION OUTPUT MT ERR
**.1238	AMAT DISK STORAGE OCCUPANCY REACHED xxx %
**.1252	M-LINKX ALARM
**.1262	
**.1270	
**.1271	
**.12/3	
** 4070	
** 1200	
.1300	
** 1220	
** 1220	
** 1332	
**.1337	
**.1338	HOT BILLING CHARGE DATA ERROR
**.1341	
**.1368	ROAMER SUBSCRIBER REGISTRATION
**.1369	ROAMER SUBSCRIBER REGISTRATION - UNRECOGNIZED
* 1404	

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1.1405 M-LINK ALARM *.1406 REFERENCE CLOCK ROUTE SELECTION UNMATCH *.1410 REFERENCE CLOCK ROUTE SELECTION UNMATCH *.1411 LACK STATUS FOR OFFICE DATA EXPANSION AREA (ODC) *.1463 CPxx SYSTEM BUS IS # 14 ERROR *.1464 CPxx SYSTEM BUS IS # 11 ERROR *.1465 CPxx SYSTEM BUS IS # 11 ERROR *.1473 SUNX FILE POLL REJECTED ILLEGAL POLL RECEIVED *.1474 SUNX SECONDARY TRACER FILE POLL REJECTED *.1475 SUNX SECONDARY TRACER FILE POLL REJECTED *.1476 AUTOMATIC BACKUP FILE DUMP INHIBITED BY JBC *.1514 AUTOMATIC CONGESTED LK=CCCXX LVL=x *.1524 AUTOMATIC CONGESTED LK=CCCYX LVL=x *.1524 AUTOMATIC CONGESTED LK=CCCYX LVL=x *.1524 AUTOMATIC CONGESTED LK=CCYX *.1524 AUTOMATIC CONGESTED LK=CYXVL=x *.1524 AUTOMATIC CONGESTION CONTROL LEVEL CHANGED *.1535 INTER-SYSTEM IRREGULARITY (SENDING OPERATION) *.1536 INTER-SYSTEM IRREGULARITY (SENDING OPERATION) *.1527 PHASE RESTAT INTEGRITY CHECK INHIBITED BY JBC *.1528 CM APPLICATION BUFFER HUNT FAILURE *.1620 ALMCX MJ - ALARM CANCELED	ID	Text
1.1406 REFERENCE CLOCK ROUTE SELECTION UNMATCH *.1437 MESSAGE EDITING TROUBLE IS DETECTED DUMP TBMSGS APEA *.1441 LACK STATUS FOR OFFICE DATA EXPANSION AREA (ODC) *.1463 CPxx SYSTEM BUS IS # 14 ERROR *.1464 CPxx SYSTEM BUS IS # 14 ERROR *.1463 CPxx SYSTEM BUS IS # 11 ERROR *.1474 SUNX FILE POLL REJECTED *.1475 SUNX SECONDARY TRACER FILE POLL REJECTED *.1474 AUTOMATIC BACKUP FILE DUMP INHIBITED BY JBC *.1514 AUTOMATIC CONGESTED LK=ccccxx LVL=x *.1524 AUTOMATIC CONGESTION CONTROL LEVEL CHANGED *.1534 INTER-SYSTEM IRREGULARITY (RECEIVING OPERATION) *.1535 INTER-SYSTEM IRREGULARITY (RECEIVING OPERATION) *.1537 SUBSCRIBER DATA UPDATING FAILURE *.1537 SUBSCRIBER DATA UPDATING FAILURE *.1537 SUBSCRIBER DATA UPDATING CANCELED *.1537 SUBSCRIBER DATA UPDATING FAILURE *.1532 CM APPLICATION BUFFER HUNT FAILURE *.1623 AUTOMATIC	*1405	M-LINK ALARM
1.1437 MESSAGE EDITING TROUBLE IS DETECTED DUMP TBMSGS LACK STATUS FOR OFFICE DATA EXPANSION AREA (ODC) *.1441 CPxx SYSTEM BUS IS # 14 ERROR *.1463 CPxx SYSTEM BUS IS # 14 ERROR *.1464 CPxx SYSTEM BUS IS # 11 ERROR *.1465 CPxx SYSTEM BUS IS # 11 ERROR *.1473 SUNX FILE POLL REJECTED ILLEGAL POLL RECEIVED *.1474 SUNX TEST FILE POLL REJECTED *.1474 SUNX SECONDARY TRACER FILE POLL REJECTED *.1474 AUTOMATIC BACKUP FILE DUMP INHIBITED BY JBC *.1514 AUTOMATIC CONGESTION CONTROL LEVEL CHANGED *.1524 AUTOMATIC BACKUP FILE DUMP START *.1537 SUBSCRIBER DATA UPDATING FAILURE *.1537 SUBSCRIBER DATA UPDATING FAILURE *.1520 CM APPLICATION BUFFER HUNT FAILURE #.1621 M-LINKX NN - ALARM CANCELED #.1622 CM APPLICATION BUFFER HUNT FAILURE #.1623 AUTOMATIC BACK-UP FILE DUMP START #.1624 AUTOMATIC SAYSTEM CONFIGURATION CHANGE LIST #.1625 CPXx-ceccecide DIAGNOSIS ROUTE LIST #.1626 CPXx-cecce	*1406	REFERENCE CLOCK ROUTE SELECTION UNMATCH
AREA 1.1441 LACK STATUS FOR OFFICE DATA EXPANSION AREA (ODC) *.1463 CPxx SYSTEM BUS IS # 14 ERROR *.1464 CPxx SYSTEM BUS IS # 11 ERROR *.1473 SUNA FILE POLL REJECTED ILLEGAL POLL RECEIVED *.1474 SUNX FEST FILE POLL REJECTED *.1473 SUNX SECONDARY TRACER FILE POLL REJECTED *.1474 AUTOMATIC BACKUP FILE DUMP INHIBITED BY JBC *.1514 AUTOMATIC CONCESTION CONTROL LEVEL CHANGED *.1524 AUTOMATIC CONCESTION CONTROL LEVEL CHANGED *.1534 INTER-SYSTEM IRREGULARITY (SEEDING OPERATION) *.1535 INTER-SYSTEM IRREGULARITY (SEEDING OPERATION) *.1534 INTER-SYSTEM IRREGULARITY (EECIVING OPERATION) *.1537 SUBSCRIBER DATA UPDATING FAILURE *.1537 MEMORY TEST ERROR LIST *.1620 ALMCX MJ - ALARM CANCELED *.	*1437	MESSAGE EDITING TROUBLE IS DETECTED DUMP TBMSGS
1.1463 CPxx SYSTEM BUS SENSE ERROR 1.1464 CPxx SYSTEM BUS IS # 14 ERROR 1.1465 CPxx SYSTEM BUS IS # 11 ERROR 1.1473 SUNx FILE POLL REJECTED ILLEGAL POLL RECEIVED 1.1473 SUNx SECONDARY TRACER FILE POLL REJECTED 1.1474 SUNx SECONDARY TRACER FILE POLL REJECTED 1.1475 SUNx SECONDARY TRACER FILE POLL REJECTED 1.1474 AUTOMATIC BACKUP FILE DUMP INHIBITED BY JBC 1.1514 AUTOMATIC CONGESTION CONTROL LEVEL CHANGED 1.1524 AUTOMATIC CONGESTION CONTROL LEVEL CHANGED 1.1524 AUTOMATIC CONGESTION CONTROL LEVEL CHANGED 1.1524 AUTOMATIC CONGESTION CONTROL LEVEL CHANGED 1.1535 INTER-SYSTEM IRREGULARITY (RECEIVING OPERATION) 1.1536 INTER-SYSTEM IRREGULARITY (RECEIVING OPERATION) 1.1537 SUBSCRIBER DATA UPDATING FAILURE 1.1537 SUBSCRIBER DATA UPDATING FAILURE 1.1537 SUBSCRIBER DATA UPDATING FAILURE 1.1538 INTER-SYSTEM IRREGULARITY (RECEIVING OPERATION) 1.1539 CM APPLICATION BUFFER HUNT FAILURE 1.1621 M-LINKX MN - ALARM CANCELED 1.1621 M-LINKX MN - ALARM CANCELED 1.1623 AUTOMATIC	*1441	LACK STATUS FOR OFFICE DATA EXPANSION AREA (ODC)
*.1464 CPxx SYSTEM BUS IS # 14 ERROR *.1465 CPxx SYSTEM BUS IS # 11 ERROR *.1473 SUNx FILE POLL REJECTED ILLEGAL POLL RECEIVED *.1474 SUNx SECONDARY TRACER FILE POLL REJECTED *.1475 SUNx SECONDARY TRACER FILE POLL REJECTED *.1476 AUTOMATIC BACKUP FILE DUMP INHIBITED BY JBC *.1514 AUTOMATIC CONGESTED LK=ccccxx LVL=x *.1524 AUTOMATIC CONGESTION CONTROL LEVEL CHANGED *.1534 INTER-SYSTEM IRREGULARITY (SENDING OPERATION) *.1535 INTER-SYSTEM IRREGULARITY (RECEIVING OPERATION) *.1537 SUBSCRIBER DATA UPDATING FAILURE *.1519 CM APPLICATION BUFFER HUNT FAILURE *.1620 ALMCX MJ - ALARM CANCELED *.1621 M-LINKX MN - ALARM CANCELED *.1623 AUTOMATIC BACK-UP FILE DUMP START *.1624 AUTOMATIC BACK-UP FILE DUMP START *.1625 CPxx-ecceijkid DIAGNOSIS START ON CPxx *.1666 CPxx-ecceijkid DIAGNOSIS START ON CPxx <td>*1463</td> <td>CPxx SYSTEM BUS SENSE ERROR</td>	*1463	CPxx SYSTEM BUS SENSE ERROR
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#1860 AUTOMATIC CONGESTION CONTROL DE-ACTIVATED #1861 C7 BLOCKING RETRY CANCELED #1862 C7 BLOCKING RETRY CANCELED #1863 C7 BLOCKING RECEIVED #1864 C7 CIRCUIT GROUP BLOCKING RECEIVED	#1849	CCCCCCCCCCC PERIODIC DIAGNOSIS PASSED
#1861 C7 BLOCKING RETRY CANCELED #1862 C7 BLOCKING RETRY CANCELED #1863 C7 BLOCKING RECEIVED #1864 C7 CIRCUIT GROUP BLOCKING RECEIVED	#1860	AUTOMATIC CONGESTION CONTROL DE-ACTIVATED
#1862 C7 BLOCKING RETRY CANCELED #1863 C7 BLOCKING RECEIVED #1864 C7 CIRCUIT GROUP BLOCKING RECEIVED	#1861	C7 BLOCKING RETRY CANCELED
#1863 C7 BLOCKING RECEIVED #1864 C7 CIRCUIT GROUP BLOCKING RECEIVED	#1862	C7 BLOCKING RETRY CANCELED
#1864 C7 CIRCUIT GROUP BLOCKING RECEIVED	#1863	C7 BLOCKING RECEIVED
	#1864	C7 CIRCUIT GROUP BLOCKING RECEIVED

ID	Text
#1865	C7 CIRCUIT GROUP RESET RETRY CANCELED
#1875	C7 SIGNALLING LINK SET CONGESTION CANCELED
#1898	C7 LINK DEACTIVATED LK=ccccxx CPxx-CCSCxx
#1899	C7 ILLEGAL MSU RECEIVED
#1900	C7 MSU NOT TRANSFERRED DUE TO NO ROUTING
#1922	FUP TEST PROCEDURE SUCCESSFUL (SBY SIDE)
#1923	FUP TEST PROCEDURE FAILURE (SBY SIDE)
#1983	AUTOMATIC CELL SITE DATA UPDATING START ON CPxx
#1984	AUTOMATIC CELL SITE DATA UPDATING END ON CPxx
*2404	MTSO CIRCUIT TEST RESULT CN=ccccxxxx TEST FAILURE
*2405	RCI RECEIVED (STC TEST)
*2406	ERROR MESSAGE RECEIVED (STC TEST)
*2407	MTSO CIRCUIT TEST RESULT CN=ccccxxxx TRUNK FAILURE
*2427	MOBILE COUNT MISMATCH MN=xxxxxxxxx SR=hhhhhhhh
*2428	AUTHENTICATION NG (cccccc) MN=xxxxxxxxxx SR=hhhhhhh
*2449	C7 UPU MESSAGE RECEIVED PC=xxxxxxxxx
*2450	REMOTE SCCP BECOMES UNAVAILABLE PC=xxxxxxxxxx
*2452	ROUTE CONTROLLED UNINHIBITION FAILURE LK=CCCCXX
*2453	FORCED ININHIBITION FAILURE LK=ccccxx
*2456	CCSP OVERLOAD CPxx
*2457	INTER-MTSO TRUNK BLOCKED CN=ccccxxxx
*2458	INTER-MTSO TRUNK BLOCKED CN=ccccxxxx
*2460	RESOURCE SHORTAGE
#2602	PHASE RESTART INTEGRITY CHECK START
#2603	PHASE RESTART INTEGRITY CHECK END
#2604	HOT BILLING BUFFER ALL BUSY
#2618	ROAMER FIRST CALL INTERCEPTION
#2630	GENERAL QUEVE OVERFLOW STOP CPxx - SPCij
#2665	AUTOMATIC MTSO CIRCUIT TEST START
#2666	AUTOMATIC MTSO CIRCUIT TEST END
#2667	AUTOMATIC MTSO CIRCUIT TEST RESULT
#2677	FORCED LOC ACT CHANGE EXECUTED
#2678	FORCED LOC ACT CHANGE EXECUTED
#2683	C7 UNAVAIBLE LINK LIST AFTER PHASE RESTART
#2685	AUTOMATIC CONTROL CHANNEL CHANGE LIST
#2686	FUP WITHOUT PHASE INITIALIZATION SUCCESSFUL
#2732	T-CH ALARM CANCEL CN=ccccxxxx
#2740	CALL TRACE INFORMATION
#2758	TRAFFIC DATA OUT PUT CC MT START
#2794	REMOTE SCCP BECOMES AVAILABLE PC=xxxx
#2801	CCSP OVERLOAD CANCEL CPxx
#2807	INTER-MTSO TRUNK TROUBLE CANCEL CN=ccccxxxx
#2812	BULK DEREGISTRATION INVOKE WAS RECEIVED
#2813	MULTIPLE ACCESS OCCURRED (ccc)

HARDWARE REQUIREMENTS

Supported Alpha AXP Processors:

AlphaServer 8200 AlphaServer 8400 DEC/4600, DEC/4700 DEC/7600, DEC/7700 DEC/10600

AlphaServer 2000 AlphaServer 2100 AlphaServer 4000 AlphaServer 4100 AlphaStation 600 DEC/3500, DEC/3500S, DEC/3500X DEC/3800, DEC/3800S DEC/3900

AlphaServer 300 (Melmac) AlphaServer 400 AlphaServer 800

AlphaServer 1000 AlphaStation 200 AlphaStation 250

AlphaStation 255 AlphaStation 400 AlphaStation 500 DEC/2300S DEC/2500 DEC/3300, DEC/3300L, DEC/3300X, DEC/3300LX DEC/3400, DEC/3400S DEC/3600, DEC/3600S DEC/3700

PWS 433 PWS 500 PWS 600

Ultimate Workstation 533

Disk Space Requirements:

Disk space required for installation: Subset copy: 27200 Kbytes Installation: /usr 94500 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

DIGITAL UNIX Operating System V4.0D

TeMIP Framework V3.2

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

This product is 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 <u>vbetemipsupp@compaq.com</u> (containing customer identification and proof of license purchase).

ORDERING INFORMATION

TeMIP Access Module for NEC NEAX61MTS Switch

Software License: QL-6BLA9-AA

Software Product Services: QT-6BL**-** or QR-SP6BL-A9

Notes:

- 1. * denotes variable fields. For additional information on available services, or hardware platform tiers, refer to the appropriate price book.
- The QL number corresponding to the TeMIP Graphical ASCII Toolkit V2.0 (Run-Time) must also be purchased (QL-5SMAM-3B).

SOFTWARE LICENSING

This software is furnished under the licensing provisions of Compaq Computer Corporation's Standard Terms and Conditions.

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The licensed software can be used up to the limit specified in the license file. The scheme is trust based, which means that it does not use any machine specific

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values or count of users to rigidly enforce license compliance.

A FLEXIm key must be obtained using the request form *temip-license-form.txt* provided with the Cover Letter.

SOFTWARE PRODUCT SERVICES

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SOFTWARE WARRANTY

This software product is provided by Compaq with a 90day conformance warranty in accordance with the Compaq warranty terms and applicable to the license purchase.

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- B FLEXIm is a registered trademark of GLOBEtrotter Software, Inc.
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