Service

HiPath 4000
Troubleshooting

Service Manual

A31003-H3130-S100-4-7620

SIEMENS

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F4005
DB
IMPLAUSIBLE PROC RET

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible return value
Cause:	Implausible return value received from procedure.
Action:	Save error message data and contact your next level of support.

F4006
DB
IMPLAUSIBLE PROC PARAM

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible parameter values
Cause:	Implausible parameter values for procedure call.
Action:	Save error message data and contact your next level of support.

F4008
DB
STATIC DATA FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible static data in memory.
Action:	Save error message data and contact your next level of support.

F4016
DB
ADVISORY

Type:	Diagnosis-specific (several formats apply)
Short text:	Advisory message
Cause:	Advisory message
Action:	Save error message data and contact your next level of support.

F4018
DB
BOARD NOT READY

Type:	Diagnosis-specific (Format 01)
Short text:	Board not in operation
Cause:	The operating system (OS) has detected that the MDL_READY field of a

dual-port RAM (DPR) no longer contains the value READY, which means that a board (IP, DCL, CCH, MBU, IOCG) is currently not operative.

Action: Check the IP, DCL, CCH, MBU, and IOCG boards. Replace the defective board. contact your next level of support if all boards appear to be okay or if the error persists.

F4019
DB
DPR NOT VALID

Type: Diagnosis-specific (Format 01)
Short text: Dual Port Ram
Cause: The OS has detected that the DPR_VALID field of a dual-port RAM (DPR)
no longer contains the value VALID because, for instance, a container chaining error has been
found by board. No hexadecimal data is output with this message.
Action: Check the IP, DCL, CCH, MBU, and IOCG boards. Replace the defective
board. contact your next level of support if all boards appear to be okay or if the error persists.

F4022
DB
BUSHANDLER TIMEOUT

Type: Diagnosis-specific (Format 01)

Short text: Bus handler (BH) reports timeout

Cause: Bus handler (BH) reports timeout error, i.e. transmission was not complete. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the SP (in its own processor) has reset the block byte of the corresponding queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4023
DB
BUSHANDLER NO PARTNER

Type: Diagnosis-specific (Format 01)
Short text: Board failure of remote processor
Cause: BH identifies that a message could not be transmitted because, for instance, the destination processor's board had failed. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the system program (in its own processor) has reset the block byte of the corresponding queue with ON_W_RESET_QBLOCK.
Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4024
DB
BUSHANDLER CONTEXT

Type: Diagnosis-specific (Format 01)

Short text: Implausible data for the BH

Cause: This means the container has been fed the wrong data for the BH by the operating system.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4025
DB
DESTINATION CATALOG

Type: Diagnosis-specific (Format 01)

Short text: Name not contained in index catalog

Cause: During processor communication, a container with an index/name that was not in the receiver's index catalog was received from a firmware processor or boot. The error is signaled at the receiving end.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4026
DB
DESTINATION MAILBOX

Type: Diagnosis-specific (Format 01)

Short text: Destination mailbox no longer exists

Cause: During processor communication, it was found at the receiving end that the destination mailbox named in the container no longer exists or is wrong. The error is signaled at the receiving end.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4027
DB
DESTINATION RESOURCES

Type: Diagnosis-specific (Format 01)

Short text: Not enough OS resources

Cause: Resources short for receiving messages over processor borders. Whether the message was intended for an operating system mailbox or for a user's mailbox, is of no concern as regards this error.

1. Source processor is the destination: Despite a wait there was neither a free buffer nor a free segment available to hold the message. The hexadecimal output contains the task batch which is to empty the mailbox, and also the address of the task currently accessing the database area.

2. Source processor is a node: Despite a wait there was neither a short nor a long container available for forwarding the message.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4028
DB
OS RESOURCES

Type: Diagnosis-specific (Format 01)
Short text: Not enough OS resources
Cause: The operating system did not have a free element in its internal buffer pool or a segment available, nor, despite a wait, a short or long container. Shortage of operating system resources when receiving messages over processor borders is, however, reported with error message F4027. No HEX data is output with this message.
Action: Check the IP and MBU firmware. Save error message data and contact your next level of support.

F4029
DB
MAILBOX TIMER

Type: Diagnosis-specific (Format 01)
Short text: Mailbox no longer exists
Cause: When a timer runs down, the destination mailbox is found to be no longer
existing.
Action: In the HEX data, the message is output by the timer in a length of 20
bytes. Save error message data and contact your next level of support.

F4030
DB
TIME / DATE NOT VALID

Type:	Diagnosis-specific (Format 01)
Short text:	Check reference clock
Cause:	Error when processing the reference clock. Error only occurs in the ADS.
Action:	The exception code is output in the HEX data and may have the following

meaning:

H20 = TIME_NOT_VALID (Clock defective)

H21 = MAC_NOT_READY (MAC board defective)

H22 = BAT_OFF (Check date/time or support battery in the MAC/IOPA)

When the ADS is first booted, exception codes H20 and H21 are always output on all accounts.

F4032
DB
JOTA

Type:	Diagnosis-specific (Format 01)
Short text:	Implausible data in job table
Cause:	ROOT finds implausible data in the job table (JOTA). Depending on the

state of the boot, the error is reported to SYSLOAD or to error analysis. It is assumed that the JOTA checksum is no longer correct.

Action: If byte 0 of the HEX data contains the value 01, the other bytes output the layer number.

If byte 0 of the HEX data contains a value >01, then byte 1 outputs the exception code (supplied by RMX in response to CREAT_JOB), the other bytes output the name of the subsystem from the job table (JOTA). Save error message data and contact your next level of support.

F4033
DB
PLAUS MAX LIMIT

Type:	Diagnosis-specific (Format 01)
Short text:	Error statistics overflow
Cause:	Too many plausibility errors within a certain time. The error statistics overflow.
Action:	Save error message data and contact your next level of support.

F4034
DB
SYSTEM EXCEPTN HANDLER

Type:	Diagnosis-specific (Format 01)
Short text:	Error when processing the root job
Cause:	The system exception handler was activated by an error.
Action:	Find the cause with further error reports. Save error message data and

contact your next level of support

F4035
DB
INIT ERROR

Type: Diagnosis-specific (Format 01)

Short text: Error in OS initialization

Cause: This error is reported to SYSLOAD, not to error analysis. The reaction is a hard restart. The hard disk may be faulty or the system program may not exist or may be faulty.

Action: Check that the PABX has restarted. contact your next level of support if the system fails to restart.

F4036
DB
BUSHANDLER QBLOCK S

Type:	Diagnosis-specific (Format 01)
Short text:	No free short container available
Cause:	Bus handler (BH) reports that for a certain time the destination

processor's dual-port RAM (DPR) did not have a short free container available to hold a message that was to be transmitted. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the system program (SP) in its own processor has reset the block byte of the associated queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support. Check MBU firmware. Note related error messages.

F4037
DB
BUSHANDLER QBLOCK L

Type: Diagnosis-specific (Format 01)

Short text: No free long container available

Cause: BH reports that for a certain time the destination processor's DPR did not have along free container available to hold a message that was to be transmitted. The BH enables all the containers of the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the SP in its own processor has reset the block byte of the associated queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support. Check MBU firmware. Note related error messages.

F4038
DB
BROADCAST ON, NO ACK

Type:	Diagnosis-specific (Format 01)
Short text:	Broadcast not acknowledged by at least one MBU
Cause:	The BROADCAST_ON order (order to all) from the active base processor

(BP) to the message buffers (MBU) was not acknowledged punctually by at least one MBU. The error is reported in the active BP.

Action: Check the MBU boards and replace defective boards. In the HEX data, defective MBUs (if any) are stated first, the PIDs of such defective MBUs second. Save error message data and contact your next level of support.

F4039
DB
BROADCAST OFF, NO ACK

Type: Diagnosis-specific (Format 01)
Short text: Broadcast not acknowledged by at least one MBU
Cause: The BROADCAST_OFF order from the active BP to the MBUs was not acknowledged punctually by at least one MBU. The error is reported in the active BP.
Action: Check the MBU boards and replace defective boards. In the HEX data, defective MBUs (if any) are stated first, the PIDs of such defective MBUs second. Save error message data and contact your next level of support.

F4040
DB
BROADCAST LONG

Type: Diagnosis-specific (Format 01)
Short text: Message not retrieved by MBU
Cause: When long message was to be acknowledged by the base processor (BP) acting on behalf of the group processors (GP), it was found that this message had not yet been collected by at least one message buffer (MBU). The error is reported in the active BP.
Action: Check the MBU boards and replace defective boards. The first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4041
DB
GP IN BROADCAST MODE

Type: Diagnosis-specific (Format 01)
Short text: Processor communication error
Cause: During processor communication it was found at the receiving end (active BP) that the destination processor specified in the container was a GP currently affected by the load broadcast rather than the GP designated in the load broadcast. The error is reported in the active BP.
Action: The first 64 bytes of the transmitted container are output in the HEX data. Save error message data and contact your next level of support.

F4042
DB
DESTINATION PROCESSOR

Type: Diagnosis-specific (Format 01)

Short text: Destination processor not available

Cause: During processor communication it was found at the receiving end (active BP) that the destination processor named in the container according to the directory table (DIR_TBL) was not available. The sender of the message was either a firmware processor or a data processor whose DIR_TBL was not consistent with the destination DIR_TBL.

Action: The first 64 bytes of the transmitted container are output in the HEX data. Save error message data and contact your next level of support.

F4045
DB
MAILBX TIMER RESOURCES

Type: Diagnosis-specific (Format 01)
Short text: Not enough resources
Cause: After the timer had run down, the system was able to determine that the destination mailbox exists but that the message could not be transmitted due to lack of free memory.
Action: The timer message is output in the HEX data up to a length of 20 Bytes. Save error message data and contact your next level of support.

F4048
DB
PROCESSOR INTERRUPT

Type:	Diagnosis-specific (Format 01)
Short text:	Interrupt
Cause:	SYSLOAD has processed or output an interrupt.
Action:	Save error message data and contact your next level of support.

F4050
CP
IMPLAUSIBLE EVT CODE

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible event code
Cause:	Implausible event code.
Action:	Save error message data and contact your next level of support.

F4051
CP
DISALL EVT CODE

Type:	Diagnosis-specific (several formats apply)
Short text:	Event code disallowed
Cause:	Event code valid but not allowed.
Action:	Save error message data and contact your next level of support.

F4052
CP
IMPLAUSIBLE STATE

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible state
Cause:	Implausible state.
Action:	Save error message data and contact your next level of support.

F4053
CP
UNEXP MESSAGE

Type:	Diagnosis-specific (several formats apply)
Short text:	Unexpected message
Cause:	Message not expected in the current state.
Action:	Save error message data and contact your next level of support.

F4054
CP
IMPLAUSIBLE MESSAGE DATA

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data in the message.
Action:	Save error message data and contact your next level of support.

F4055
CP
IMPLAUSIBLE PROC RET

Type:	(several formats apply)
Short text:	Implausible return value
Cause:	Implausible return value received from a procedure.
Action:	Save error message data and contact your next level of support.

F4056
CP
IMPLAUSIBLE PROC PARAM

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible parameter values
Cause:	Implausible parameter values in procedure call.
Action:	Save error message data and contact your next level of support.

F4057
CP
DBAR

Type: Diagnosis-specific (several formats apply)
Short text: Implausible data
Cause: Implausible data for database access. Reaction is a soft restart.
Action: Save error message data and contact your next level of support. For initial diagnosis, display the patch list with DIS-PATCH:SYS;. Check the installed patches against the PRB list / latest Service Infos. Check that no invalid or canceled patches are active in the system.

F4058
CP
STATIC DATA FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data (static data) in memory.
Action:	Save error message data and contact your next level of support.

F4059
CP
DYNAMIC DATA FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data (dynamic data) in memory.
Action:	Save error message data and contact your next level of support.

F4060
CP
OS CALL FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Negative exception code
Cause:	Negative exception code for OS calls.
Action:	Save error message data and contact your next level of support.

F4061
CP
MTS CALL FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Software error in MTS handler call. Switching network set with

implausible data.

Action:	Save error message data and contact your next level of support.

F4062
CP
TIMEOUT FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Timer run down
Cause:	Timeout for expected response.
Action:	Save error message data and contact your next level of support.

F4063
CP
MSG HEADER FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible message header
Cause:	Implausible message header.
Action:	Save error message data and contact your next level of support.

F4066
CP
ADVISORY

Type: Diagnosis-relevant (several formats relevant)

Short text: Advisory message.

Cause: In SP300 V3.3 and later the printout of these messages is set at the operating terminal by means of a switch. The switches are to be set with the diagnosis switch patch. A switch can be assigned to several advisory messages.

Action: Save error message data and contact your next level of support.

Interpretation of auxiliary data:

Byte 0 = **00** to **17** indicates the diagnosis format. More information can be found by clicking the relevant line:

00 = Route optimization "no correlation index"

Switch: no switch; always output as incorrect

Byte 00 (= 00) **Diagnosis format 00**

Byte 01 Length of data

Byte 02 Correlation index = 0

01 = Route optimization "route data"

Switch: S02 for DIAGS CP

Byte 00 (= 01) **Diagnosis format 01**

Byte 01 Length of data

Byte 02 Correlation index

Byte 03 Code indicating the switch in which the diagnosis message will be output:

00 Request-ing switch	The diagnosis message was output when the old networking record received the PARTNER_ANSWER from the new networking record (once the SETUP arrives at the new path).
01 Terminat-ing switch	The diagnosis message was output when the new networking record received the SEIZURE (after arrival of the FAC PR REQ).

Byte 04-05 Loden terminal A or C (code 00 or 01)

Byte 06-07 Loden record old

Byte 08-09 Loden record new

Byte 0A-0E Path data old (short path, path terminal, path record)

Byte 0F-18 Path data new (long path, A_EXIT_TSL, TSL_CSN_A, TSL_CSN_B, CSN_MTS_NR, B_EXIT_TSL)

02 Same switch	The diagnosis message was output on the arrival of the FAC PR REQ in networking record C because both stations A and C are in the same node.	
	Byte 04-05	Loden terminal A
	Byte 06-07	Loden terminal C
	Byte 08-09	Loden record A
	Byte 0A-0B	Loden record C
	Byte 0C-10	Path data old A (short path, path terminal, path record)
	Byte 11A-1B	Path data old C (long path, A_EXIT_TSL, TSL_CSN_A, TSL_CSN_B, CSN_MTS_NR, B_EXIT_TSL)
	Byte 1B-24	Path data new AC (long path, A_EXIT_TSL, TSL_CSN_A, TSL_CSN_B, CSN_MTS_NR, B_EXIT_TSL)

02 = Add-on witness "on" (caller is analog CO (DP))

Switch: S03 for DIAGS CP

Byte 00	(= 02) **Diagnosis format 02**
Byte 01	Length of data
Byte 02	Length of caller station number
Byte 03-18	Caller station number
Byte 19	Length of name of caller
Byte 1A-37	Name of caller
Byte 38-39	Loden caller
Byte 3A	Length of initiator station number
Byte 3B-50	Initiator station number
Byte 51-52	Loden initiator
Byte 53	Length of witness station number
Byte 54-69	Witness station number
Byte 6A-6B	Loden witness

03 = Add-on witness "off" (caller is analog CO (DP))

Switch: S03 for DIAGS CP

Byte 00	(= 03) **Diagnosis format 03**
Byte 01	Length of data
Byte 02	Length of initiator station number

Byte 03-18   Initiator station number

Byte 19-1A   Loden initiator

04 = Least cost routing "LCR data"

Switch: no switch; always output on account of configuration error in the AMOs LODR, LDPLN, LDAT

Byte 00   (= 04) **Diagnosis format 04**

Byte 01   Length of data

Byte 02   LCR error 00

Byte 03   Calling procedure

               00 = CP_P_NW_LCR_ODR_TO_NR

               01 = CP_P_NW_LCR_PROCESS_ODR

Byte 04   Outdial rule index

Byte 05-36   Outdial rule commands (DB_M_LCR_ODR_STR)

Byte 37   Outdial rule digit length

Byte 38   Filler

Byte 39-4E   Outdial rule digits

the rest of the evaluation depends on the version:

SP300 V3.4 and earlier

    Byte 4F-5B   Outdial rules (DB_M_LCR_DPLN_FIELD_STR)

    Byte 5C   Filler

    Byte 5D   max., digit number to be sent in a route

    Byte 5E-7D   LCR data (DB_M_LCR_TRUNK_STR)

for SP300E-V1.0

    Byte 4F-61   Outdial rules (DB_M_LCR_DPLN_FIELD_STR)

    Byte 62   Filler

    Byte 63   max., digit number to be sent in a route

    Byte 64-8E   LCR data (DB_M_LCR_TRUNK_STR)

for SP300E-V2.0

    Byte 4F-61   Outdial rules (DB_M_LCR_DPLN_FIELD_STR)

    Byte 62   Filler

    Byte 63   max., digit number to be sent in a route

Byte 64-90   LCR data (DB_M_LCR_TRUNK_STR)

SP300E V3.0 and later

Byte 4F-61   Outdial rules (DB_M_LCR_DPLN_FIELD_STR)

Byte 62   Filler

Byte 63   max., digit number to be sent in a route

Byte 64-99   LCR data (DB_M_LCR_TRUNK_STR)

05 = Long path snag

Switch: S04 for DIAGS CP

Byte 00   (= 05) **Diagnosis format 05**

Byte 01   Length of data

Byte 02-03   TSL_CSN_A

Byte 04-05   EXIT_TSL_A

Byte 06-07   LODEN_A

Byte 08-09   TSL_CSN_B

Byte 0A-0B   EXIT_TSL_B

Byte 0C-0D   LODEN_B

Siehe auch 10 = Long path snag on initiating Synchronous Announcement.

06 = Emergency disconnect

Switch: S05 for DIAGS CP

Byte 00   (= 06) **Diagnosis format 06**

Byte 01   Length of data

Byte 02-03   Loden of the clearing-down device

Byte 04-19   Station number of the clearing-down device

Byte 1A-21   Filler

Byte 22-23   Loden of the selected destination

Byte 24-39   Station number of the selected destination

Byte 3A-41   Filler

Byte 42-43   Loden A of the cleared-down connection

Byte 44-59   Station number A of the cleared-down connection

Byte 5A-61   Filler

Byte 62-63   Loden B of the cleared-down connection

Byte 64-79   Station number B of the cleared-down connection

Byte 7A   Common CPB index

	In SP300E-V2.0/R6.5 and later (system release 6), this message is also used to signal the release of frozen resources in the case of DIGITE. If a DIGITE still has frozen resources from the previous connection when leaving CP idle state, these are released (if possible) and signaled with this message. The CC and the UA identify the resource type. Meaning of CCs: 15299: Timeslots 15300: B-Kanäle 15301: CPB-Verweise 15302: Subunit-Verwaltung 15304: Loden-Verkettung 15306: Hinter-Subunit 15307: Timertoken This ADVISORY messages refers to the previous connection. Additional diagnosis steps are required for diagnosing the actual cause of the error. This function can be controlled with the AMO-DIAGS. It is activated by default. The function can be switched on or off with the AMO command CHA-DIAGS:procid=CC, COMP=CP,S15=ON/OFF;.

07 = Synchronous Announcement "Path search for record unsuccessful"

Switch: S06 for DIAGS CP

Synchrone announcement cannot be assigned / no assignable device

Byte 00   (= 07) **Diagnosis format 07**

Byte 01   Length of data

Byte 02-03 Loden of the requesting device

Byte 04   Device type of the requesting device

Byte 05   Number of Loden

Byte 06   Attempts to find free Loden

Byte 07   Attempts to seize path

Byte 08   Path type

Byte 09   CSN

Byte 0A-   TSL_CSN_A
0B

Byte 0C-0D   A_EXIT_TSL

Byte 0E   LTG_A

Byte 0F-10   TSL_CSN_B

Byte 11-12   B_EXIT_TSL

Byte 13-14   Loden B

Byte 15   LTG_B

Byte 16   Announcement type

Byte 17   Repetition factor

Byte 18   Return tone

Byte 19   Reason for announcement

        00 = DB_ASY_RSN_DID

        01= DB_ASY_RSN_DISA

        02 = DB_ASY_RSN_SUF_DIAL_BUSY

        03 = DB_ASY_RSN_SUF_DIAL_NO_ANS

        04 = DB_ASY_RSN_ANN_BUSY

        05 = DB_ASY_RSN_ANN_NO_ANS

        06 = DB_ASY_RSN_CO_ANN_VPL

        07 = DB_ASY_RSN_WAIT_VPL_NO_ANS

        08 = DB_ASY_RSN_WAIT_SA_AO

        09 = DB_ASY_RSN_ANN_PSM

Byte 1A   Attribute

        00 = DB_ASY_ATTR_OFF

        01 = DB_ASY_ATTR_REQUESTED

        02 = DB_ASY_ATTR_WAIT_IN_WAITQ

        03 = DB_ASY_ATTR_WAITP_IN_WAITQ

        04 = DB_ASY_ATTR_ON_IN_WAITQ

        05 = DB_ASY_ATTR_ON_IN_ACTQ

        06 = DB_ASY_ATTR_TONE_1_NOQ

        07 = DB_ASY_ATTR_TONE_2_NOQ

        08 = DB_ASY_ATTR_TONE_3_NOQ

        09 = DB_ASY_ATTR_END_NOQ

Byte 1B   Cycle information

Byte 1C   Check information

08 = Synchronous Announcement "No announcement buffer available"

Switch: S06 for DIAGS CP

Wrong dimensioning / synchronous announcement works with restrictions

Byte 00   (= 08) **Diagnosis format 08**
Byte 01   Length of data
Byte 02-03 Loden of the clearing-down device
Byte 04   Device type
Byte 05   Announcement type
Byte 06   Number of Loden in announcement type

09 = Synchronous Announcement "Entry in queue not possible"

Switch: S06 for DIAGS CP

Software error / Synchronous announcement temporarily blocked

Byte 00   (= 09) **Diagnosis format 09**
Byte 01   Length of data
Byte 02-03 Loden of the requesting device
Byte 04   Device type of the requesting device
Byte 05   Number of Loden in type
Byte 06   Number of Loden in queue
Byte 07   Reject reason
            00 = DB_ASY_RES_OK
            01 = DB_ASY_RES_LOPDEN_NOT_FOUND
            02 = DB_ASY_RES_INVALID_LODEN
            03 = DB_ASY_RES_UNKNOWN_DEVICE
            04 = DB_ASY_RES_ALRDY_IN_WAITQ
            05 = DB_ASY_RES_ALRDY_IN_ACTQ
            06 = DB_ASY_RES_WAITQ_FULL
            07 = DB_ASY_RES_ACTQ_FULL
            08 = DB_ASY_RES_QUEUE_EMPTY
            09 = DB_ASY_RES_NO_BUFFER_FOUND

0A = DB_ASY_RES_UNKNOWN_ERROR

Byte 08   Path type

Byte 09   CSN

Byte 0A-0B TSL_CSN_A

Byte 0C-0D A_EXIT_TSL

Byte 0E   LTG_A

Byte 0F-10 TSL_CSN_B

Byte 11-12 B_EXIT_TSL

Byte 13-14 Loden B

Byte 15   LTG_B

Byte 16   Announcement type

Byte 17   Repetition factor

Byte 18   Return tone

Byte 19   Reason for announcement

Byte 1A   Attribute

Byte 1B   Cycle information

Byte 1C   Check information

0A = Synchronous Announcement "General error message"

Switch: S06 for DIAGS CP

Unclear error profile / Sporadic errors in synchronous announcement

Byte 00   (= 0A) **Diagnosis format 0A**

Byte 01   Length of data

Byte 02-03 Loden of the requesting device

Byte 04   Device type of the requesting device

Byte 05   Number of Loden in type

Byte 06   Path type

Byte 07   CSN

Byte 08-09 TSL_CSN_A

Byte 0A-0B A_EXIT_TSL

Byte 0C   LTG_A

Byte 0D-0E TSL_CSN_B

Byte 0F-10 B_EXIT_TSL

Byte 11-12 Loden B

Byte 13   LTG_B

Byte 14   Announcement type

Byte 15   Repetition factor

Byte 16   Return tone

Byte 17   Reason for announcement

Byte 18   Attribute

Byte 19   Cycle information

Byte 1A   Check information

0B = Synchronous Announcement "Switch from start/stop to continuous mode"

Switch: S11 for DIAGS CP

Pure diagnosis to optimize dimensioning of announcement devices

Byte 00   (= 0B) **Diagnosis format 0B**

Byte 01   Length of data

Byte 02   Announcement type

Byte 03   Number of Loden of the relevant announcement type

Byte 04   Number of type 1 Loden in queue

        00 =   Queue is empty

        00-31 = Number of Loden in queue

        32 =   Queue is full

        FF = Loden in queue is corrupt

Byte 05   Number of requestors for 1st. announcement device

Byte 06   Number of requestors for 2nd. announcement device

Byte 07   Number of requestors for 3rd. announcement device

Byte 08   Number

Byte 09   Number

Byte 0A   Number

Byte 0B   Number of requestors for last announcement device

0C = Synchronous Announcement "No valid announcement type found"

Switch: S06 for DIAGS CP

Administration (SYNCA) error / No connection to synchronous announcement device

Byte 00   (= 0C) **Diagnosis format 0C**

Byte 01   Length of data

Byte 02-03 Loden of the requesting device

Byte 04   Device type of the requesting device

Byte 05   Reason for announcement

Byte 06   VBZ

Byte 07   Last digit dialed

0D = Multiple code calling "invalid CPB"

Switch: S08 for DIAGS CP

Byte 00   (= 0D) **Diagnosis format 0D**

Byte 01   Length of data

Byte 02-03 TMOM Loden

Byte 04   TMOM status

Byte 05-06 CPB-IDX paging memory

Byte 07-1C Station number in paging memory

Byte 1D   Number of paging attempts

Byte 1E-1F Loden of pager

Byte 20   Status of pager

Byte 21   Device type of pager

Byte 22-23 ACT_CPB_IDX

Byte 24-25 BACK_CPB_IDX

Byte 26   ACT_CPB-Valid

Byte 27   BACK_CPB-Valid

Byte 28-29 Loden B in the CPB

Byte 2A-3F Station number B in the CPB

Byte 40-55 DEST_Nr. in the CPB

Byte 56   FACILITY

Byte 57   FACILITY_ATTRIBUTE

Byte 58   FACIL_KZP

0E = VPL-AO full

Switch: S13 for DIAGS CP

Byte 00   (= 0E) **Diagnosis format 0E**

Byte 01   Length of data

Byte 02   Attendant group

Byte 03   Night service variants

        00 = DB_GS_C_PAR_VARIANT_DAY

        01 = DB_GS_C_PAR_VARIANT1

        02 = DB_GS_C_PAR_VARIANT2

        03 = DB_GS_C_PAR_VARIANT3

        04 = DB_GS_C_PAR_VARIANT4

        05 = DB_GS_C_PAR_VARIANT5

        06 = DB_GS_C_PAR_VARIANT6

        07 = DB_GS_C_PAR_VARIANT7

        08 = DB_GS_C_PAR_VARIANT8

0F = Error on feature stack operation

Switch: -

Byte 00   (= 0F) **Diagnosis format 0F**

Byte 01   Length of data

Byte 02   Stack pointer

Byte 03-04 Feature stack 1

Byte 03   Feature state

Byte 04   Feature code

        00 = DB_FEA_CO_BASIC_CALL

        01 = DB_FEA_CO_NV_BASIC_CALL

        02 = DB_FEA_CO_RSL

        03 = DB_FEA_CO_SONDEREINR

        04 = DB_FEA_CO_SONDEREINR_RSL

        05 = DB_FEA_CO_ANKL_AUFS

        06 = DB_FEA_CO_ANKL_AUFS_RSL

        07 = DB_FEA_CO_RR_NETW

08 = DB_FEA_CO_RR_NETW_RSL

09 = DB_FEA_CO_AUL_NETW

0A = DB_FEA_CO_AUL_NETW_RSL

0B = DB_FEA_CO_RWS_NETW

0C = DB_FEA_CO_RWS_NETW_S0

0D = DB_FEA_CO_RWS_NETW_NV

0E = DB_FEA_CO_RWS_NETW_RSL

0F = DB_FEA_CO_RWS_NETW_RSL_S0

10 = DB_FEA_CO_CENTRAL_ATND

11 = DB_FEA_CO_CENTRAL_ATND_RSL

12 = DB_FEA_CO_STATUSABFRAGE

13 = DB_FEA_CO_INVOKE

14 = DB_FEA_CO_DATAG

15 = DB_FEA_CO_SETUP_D_CHL

16 = DB_FEA_CO_E_OVER_DISC

17 = DB_FEA_CO_HOLD

18 = DB_FEA_CO_WA_DPNSS

19 = DB_FEA_CO_ROUTE_OPT

1A = DB_FEA_CO_LCR

1B = DB_FEA_CO_SR_SAVE_CALL

1C = DB_FEA_CO_CALL_TO_ATND:

1D = DB_FEA_CO_THREE_PARTY

1E = DB_FEA_CO_TSC_SERVER_MWI

1F = DB_FEA_CO_REMOTE_CFU

20 = DB_FEA_CO_TRANSFER

21 = DB_FEA_CO_GF

22 = DB_FEA_CO_TSC

23 = DB_FEA_CO_CSN7

24 = DB_FEA_CO_RR_NETW_INTW

25 = DB_FEA_CO_CALL_TO_ACD

26 = DB_FEA_CO_CALL_TO_ACD_RSL

27 = DB_FEA_CO_HOLD_BEFORE_ACT

28 = DB_FEA_CO_GPUN_OUT

29 = DB_FEA_CO_GPUN_IN

2A = DB_FEA_CO_ECT

2B = DB_FEA_CO_RWSATRF_NETW

2C = DB_FEA_CO_NW_MAINTENANCE

2D = DB_FEA_CO_ACD_SVR_SAM

2E = DB_FEA_CO_REMOTE_XFER

2F = DB_FEA_CO_DIR_PICK_UP

30 = DB_FEA_CO_CTLS

31 = DB_FEA_CO_DIRECTED_CALL_PARK

32 = DB_FEA_CO_TTS

33 = DB_FEA_CO_KONF_HARD_HOLD

34 = DB_FEA_CO_HARDHOLD_SYSPARK

Byte 05-06 Feature stack 2

Byte 07-08 Feature stack 3

Byte 09-0A Feature stack 4

Byte 0B-0C Feature stack 5

10 = Long path snag on initiating Synchronous Announcement

Switch: S04 for DIAGS CP

Byte 00   (= 10) **Diagnosis format 10**

Byte 01   Length of data

Byte 02-03 Loden of the requesting device

Byte 04   Device type of the requesting device

Byte 05   Number of Loden for announcement type = 0

Byte 06   Path type

Byte 07   CSN

Byte 08-09 TSL_CSN_A

Byte 0A-0B A_EXIT_TSL

Byte 0C   LTG_A

Byte 0D-0E TSL_CSN_B

Byte 0F-10 B_EXIT_TSL

Byte 11-12 Loden B

Byte 13   LTG_B

Byte 14   Announcement type

Byte 15   Repetition factor

Byte 16   Return tone

Byte 17   Reason for announcement

Byte 18   Attribute

Byte 19   Cycle information

Byte 1A   Check information

11 = Error on VF overflow group

Switch: S13 for DIAGS CP

Byte 00   (= 11) **Diagnosis format 11**

Byte 01   Length of data

Byte 02   VF group:

The UELGR parameter in the AMO UEGR points to a nonexistent VF group for the VF group output here.
or: There is a loop with respect to the assigned overflow VF groups.

12 = ACL-G

Switch: S13 for DIAGS CP

Advance feature - not yet used.

Byte 00: (= 12) **Diagnosis format 12**

13 = Network-wide call pickup groups

Switch: -

Byte 00   (= 13) **Diagnosis format 13**

Byte 01   Length of data

Byte 02   Reason for diagnostic output:

             00 = Shortage of local resources

             01 = Signaling from remote link rejected:

Byte 03-04 Local group number

Byte 05-1E Data remote link:

Byte 05   Length of code

Byte 06-1B   Code

Byte 1C-1D   Group number

Byte 1E   Set signaling:

          00 = No signaling

          01 = Send AUN signaling

          02 = Receive AUN signaling

          03 = Send and receive AUN signaling

          04 = Send park signaling

          05 = Send AUN + park signaling

          06 = Receive AUN signaling, send park signaling

          07 = everything

Byte 1F   Cause of error:

          00 = DB_RE_DUPL_INVOCATION

          01 = DB_RE_UNRECOGNIZED_OPER

          02 = DB_RE_MISTYPED_ARGUMENT

          03 = DB_RE_RESS_LIMITATION

          04 = DB_RE_INITIATOR_REL

          05 = DB_RE_UNREC_LINKED_IDENT

          06 = DB_RE_LINKED_RESP_UNEXPEC

          07 = DB_RE_UNEXP_CHILD_OPER

          08 = DB_RE_NO_ERROR

14 = CP-ADVISORY flagtrace

The call code 15312 is to be added to the flagtrace output via the interface CP-ADVISORY for the purpose of unique identification.
The CP-ADVISORY flagtrace is output in four different cases:

1. Acknowledgement of external nodes which were transited by a flagtrace connection initiated by the local node. (transit and end nodes)

2. The flagtrace code point is dialed at a terminal at the local Hicom.

3. At a digital circuit which is operated with CorNetNQ and received the flagtrace activation for a connection. This can take place both forwards in an incoming seizure and backwards in an outgoing connection.

4. If a station marked as static for the flagtrace (selected via AMO Trace) is seized by a flagtrace connection, then a CP-ADVISORY is also output in order to indicate bothway flagtrace activation.

Both the call code 15312 and byte 0 = 14H signal that the CP-ADVISORY refers to a CP-ADVISORY flagtrace.

Byte 01   indicates the length of the data structure

Byte 02   is the discriminating digit used for distinguishing the above cases:

        Byte 2 = 0
        Byte 2 = 1
        Byte 2 = 2
        Byte 2 = 3

Display of acknowledgements for transited node

Byte 00   **Diagnosis format 14** (always 14H -> CP-ADVISORY flagtrace)

Byte 01   Always C7H <=> Length of data structure

Byte 02   0 -> Output of acknowledgement from a node transited by a flagtrace connection

Byte 03-04 Separator bytes initialized with 00 00

Byte 05-78 Call_ID of the traced connection type DB_M_NW_INV_CALL_ID_STR
        5-41 Global ID
        42-78 Leg ID

Byte 79-80 Separator bytes initialized with 00 00

Byte 81-   DiagData element type DB_M_NW_DIAG_DATA_STR
141   81 Present indicator for the following 3 elements
        82-86 Node number
        87-119 Node code
        120-140 UPARM (QSig-specific link in a message)

Display of flagtrace activation using a code

Byte 00   **Diagnosis format 14** (always 14H -> CP-ADVISORY flagtrace)

Byte 01   Always C7H <=> Length of data structure

Byte 02   1 -> Display indicating that a local station dialed the flagtrace code number

Byte 03-04 Separator bytes initialized with 00 00

Byte 05   Length of the station number of the A station (if not available 0)

Byte 06-27 Station number of the A station (initialized with 0F)

Byte 28-29 Loden of the A station (if not available 0)

Byte 30-31 Line of the A station (if not available 0)

Byte 32-33 Separator bytes initialized with 00 00

Byte 34   Station number of the B station (if not available 0)

Byte 35-56 Station number of the B station (initialized with 0F)

Byte 57-58 Loden of the B station (if not available 0)

Byte 59-60 Line of the B station (if not available 0)

Display of flagtrace activation via an external connection

Byte 00   **Diagnosis format 14** (always 14H -> CP-ADVISORY flagtrace)

Byte 01   Always C7H <=> Length of data structure

Byte 02   2 -> Display indicating that flagtracing was activated externally

Byte 03-04 Separator bytes initialized with 00 00

Byte 05   Length of the station number of the A station (if not available 0)

Byte 06-27 Station number of the A station (initialized with 0F)

Byte 28-29 Loden of the A station (if not available 0)

Byte 30-31 Line of the A station (if not available 0)

Byte 32-33 Separator bytes initialized with 00 00

Byte 34   Station number of the B station (if not available 0)

Byte 35-56 Station number of the B station (initialized with 0F)

Byte 57-58 Loden of the B station (if not available 0)

Byte 59-60 Line of the B station (if not available 0)

Byte 61-62 Separator bytes initialized with 00 00

Byte 63-   Call ID of the traced connection type DB_M_NW_INV_CALL_ID_STR
136   63-99 Global ID
             100-136 Leg ID

Byte 137-   Separator bytes initialized with 00 00
138

Byte 139-   Trace operation of the type DB_M_NW_TRACE_STR that was activated by the
200   flagtracer
              141-145 Node number of the node in which the flagtrace was activated
             146-138 Node code of the node in which the flagtrace was activated

Display indicating bothway flagtrace activation

Byte 00   **Diagnosis format 14** (always 14H -> CP-ADVISORY flagtrace)

Byte 01   Always C7H <=> Length of data structure

Byte 02   3 -> Display indicating that a local station was marked statically and dynamically
             for flagtracing

Byte 03-04 Separator bytes initialized with 00 00

Byte 05   Length of the station number of the A station (if not available 0)

Byte 06-27 Station number of the A station (initialized with 0F)

Byte 28-29 Loden of the A station (if not available 0)

Byte 30-31 Line of the A station (if not available 0)

Byte 32-33 Separator bytes initialized with 00 00

Byte 34   Station number of the B station (if not available 0)

Byte 35-56 Station number of the B station (initialized with 0F)

Byte 57-58 Loden of the B station (if not available 0)

Byte 59-60 Line of the B station (if not available 0)

15h = Service function not complete

Switch: none

Byte 00: (= 15) **Diagnosis format 15**

This message is output if the dynamic section is unable to accept any more internal messages. The length of the data is 10 bytes.

16h = Implausible component in the UMI message received

Switch: none

Byte 00   (= 16) **Diagnosis format 16**

Byte 01   Length of data = 4

Byte 02   Type of component:

        00 = DB_GEN_COMP_OP   (OPERATION)

        01 = DB_GEN_COMP_UOP

        02 = DB_GEN_COMP_NOI

        03 = DB_GEN_COMP_UNOI

        04 = DB_GEN_COMP_NFE_DEST

        05 = DB_GEN_COMP_NFE_SRC

Byte 03   APDU

        00 = DB_ROSE_APDU_INV   (INVOKE)

        01 = DB_ROSE_APDU_RR   (RETURN RESULT)

        02 = DB_ROSE_APDU_RE   (RETURN ERROR)

        03 = DB_ROSE_APDU_REJ   (REJECT)

Byte 04   SERVICE (from mode
                DB_M_NW_SERVICE_SET)

Byte 05   OPERATION (mode depends on SERVICE)

17h = Answer/attendant code missing

Switch: none

Byte 00   (= 17) **Diagnosis format 17**

Byte 01   Length of data

Byte 02   AC group (value 0-15 from DB_M_ATTENDANT_GROUP_RNG mode)

Byte 03   Digit analysis result missing (from DB_M_WABE_KZP_SET mode)

18h = TTS timer expiry

Switch: none

Byte 00   (= 18) **Diagnosis format 18**

Byte 01   Length of data = 12

Byte 02-05   Call ID for relevant connection

Byte 06-07   Source trunk loden

Byte 08-09   Source trunk ltgline

Byte 10-11   Destination trunk loden

Byte 12-13   Destination trunk ltgline

19h = UMI processing for TCOM

Switch: S06 for DIAGS CP

Byte 00   (= 19) **Diagnosis format 19**

Byte 01   Length of data

Byte 02-03   Caller's LODEN

Byte 04   Caller state

Byte 05   Caller's device type (CP device type)

Byte 06   Previous caller state

Byte 07   New caller state

Byte 08   Caller's Take off Label

Byte 09-10   CAUSE, CAUSE_DESCR (from CP_M_UMI_CAUSE_STR mode)

Byte 11-21   Announcement buffer (from DB_M_ASY_ANN_BUFF_STR mode)

1Ah = (Missing Input)

Switch: CP_DIAG_FM_ALRT_INF

Byte 00   (= 1A) **Diagnosis format 1A**

Byte 01   Length of data

No more information available on this diagnosis format at present

1Bh = Error in Large Enterprise GateKeeper

Switch: CP_DIAG_FM_GK

Byte 00   (= 1B) **Diagnosis format 1B**

Byte 01   Length of data

Byte 02-03   Gateway Number

Byte 04-40   Gateway Own Number (digits)

Byte 41-42   Gateway Attributes

Byte 43   Used LCR Dialplan

Byte 44   Registering Gateway Line

1Ch = ONS diagnosis

Switch: CP_DIAG_FM_ONS_DIAG

Byte 00   (= 1C) **Diagnosis format 1C**

Byte 01   Length of data

Byte 02-03   ONS group number (from AMO AUN)

Byte 04   ONS-Membertype (DB_M_CP_ONS_ROLE_SET)

Byte 05-06   ONS Master's LODEN

Byte 07   ONS calltype (CP_M_ONS_CTYPE_SET)

Byte 08   ONS state (CP_M_ONS_STATE_SET)

Byte 09-10   Best free ONS station (loden)

Byte 11-12   Best busy ONS station (loden)

Byte 13   SMPF (CP_M_ONS_SMPF_SET)

Byte 14   Group reroute (BOOL)

Byte 15   Reroute activation (CP_M_ONS_UFB_REROUT_SET)

Byte 16   Length of the external ONS station number

Byte 17-38   External ONS station number (REMAC in the AMO AUN)

20h = Alternate Route Processing

Switch: Switch S02 for DIAGS CP2

Byte 00   (= 20) **Diagnosis format 20**

Byte 01   Length of data

Byte 02-03   Caller's LODEN

Byte 04   Caller's DEVICE TYPE

Byte 05-06   Called party's LODEN

Byte 07   Called party's DEVICE TYPE

Byte 08   Called party's SOURCE GROUP

Byte 09   LENGTH of station number called

Byte 10-31   Station number called

Byte 32   Reason for alternative routing

Byte 33   Reason for rejection

Byte 34-56   Alternate routing number, individually for APEM

Byte 57-84   Alternate routing number, SG for APEM

Byte 85-107 Alternate routing number, individually for OOS

Byte 108-135   Alternate routing number, SG for OOS

Byte 136   IP address for gateway

F4068
CP
BOARD NOT READY

Type: Diagnosis-specific (Format 01)

Short text: Board not in operation

Cause: The operating system (OS) has detected that the MDL_READY field of a dual-port RAM (DPR) no longer contains the value READY, which means that a board (IP, DCL, CCH, MBU, IOCG) is currently not operative.

Action: Check the IP, DCL, CCH, MBU, and IOCG boards. Replace the defective board. Contact your next level of support if all boards appear to be okay or if the error persists.

F4069
CP
DPR NOT VALID

Type: Diagnosis-specific (Format 01)

Short text: Dual Port Ram

Cause: The AM has detected that the DPR_VALID field of a dual-port RAM (DPR) no longer contains the value VALID because, for instance, a container chaining error has been found by board. No hexadecimal data is output with this message.

Action: Check the IP, DCL, CCH, MBU, and IOCG boards. Replace the defective board. Contact your next level of support if all boards appear to be okay or if the error persists.

F4072
CP
BUSHANDLER TIMEOUT

Type: Diagnosis-specific (Format 01)

Short text: Bus handler (BH) reports timeout

Cause: Bus handler (BH) reports timeout error, i.e. transmission was not complete. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the SP (in its own processor) has reset the block byte of the corresponding queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4073
CP
BUSHANDLER NO PARTNER

Type: Diagnosis-specific (Format 01)
Short text: Board failure of remote processor
Cause: BH identifies that a message could not be transmitted because, for instance, the destination processor's board had failed. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the system program (in its own processor) has reset the block byte of the corresponding queue with ON_W_RESET_QBLOCK.
Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4074
CP
BUSHANDLER CONTEXT

Type: Diagnosis-specific (Format 01)
Short text: Implausible data for the BH
Cause: This means the container has been fed the wrong data for the BH by the
operating system.

Action: Not more than the first 64 bytes of the container that has not been
transmitted are output in the HEX data. Save error message data and contact your next level
of support.

F4075
CP
DESTINATION CATALOG

Type: Diagnosis-specific (Format 01)
Short text: Name not contained in index catalog
Cause: During processor communication, a container with an index/name that was not in the receiver's index catalog was received from a firmware processor or boot. The error is signaled at the receiving end.
Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4076
CP
DESTINATION MAILBOX

Type: Diagnosis-specific (Format 01)

Short text: Destination mailbox no longer exists

Cause: During processor communication, it was found at the receiving end that the destination mailbox named in the container no longer exists or is wrong. The error is signaled at the receiving end.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4077
CP
DESTINATION RESOURCES

Type: Diagnosis-specific (Format 01)
Short text: Not enough resources
Cause: Resources short for receiving messages over processor borders. Whether the message was intended for an operating system mailbox or for a user's mailbox, is of no concern as regards this error.

1. Source processor is the destination: Despite a wait there was neither a free buffer nor a free segment available to hold the message. The hexadecimal output contains the task batch which is to empty the mailbox, and also the address of the task currently accessing the database area.

2. Source processor is a node: Despite a wait there was neither a short nor a long container available for forwarding the message.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4078
CP
OS RESOURCES

Type: Diagnosis-specific (Format 01)

Short text: Not enough resources

Cause: The operating system did not have a free element in its internal buffer pool or a segment available, nor, despite a wait, a short or long container. Shortage of operating system resources when receiving messages over processor borders is, however, reported with error message F4077. No HEX data is output with this message.

Action: Check the IP and MBU firmware. Save error message data and contact your next level of support.

F4079
CP
MAILBOX TIMER

Type: Diagnosis-specific (Format 01)

Short text: Mailbox no longer exists

Cause: When a timer runs down, the destination mailbox is found to be no longer existing.

Action: In the HEX data, the message is output by the timer in a length of 20 bytes. Save error message data and contact your next level of support.

F4080
CP
TIME / DATE NOT VALID

Type: Diagnosis-specific (Format 01)
Short text: Check reference clock
Cause: Error when processing the reference clock. Error only occurs in the ADS.
Action: The exception code is output in the HEX data and may have the following
meaning:

H20 = TIME_NOT_VALID (Clock defective)

H21 = MAC_NOT_READY (MAC board defective)

H22 = BAT_OFF (Check date/time or support battery in the MAC/IOPA)

When the ADS is first booted, exception codes H20 and H21 are always output on all accounts.

F4082
CP
JOTA

Type: Diagnosis-specific (Format 01)
Short text: Implausible data in job table
Cause: ROOT finds implausible data in the job table (JOTA). Depending on the state of the boot, the error is reported to SYSLOAD or to error analysis. It is assumed that the JOTA checksum is no longer correct.
Action: If byte 0 of the HEX data contains the value 01, the other bytes output the layer number.

If byte 0 of the HEX data contains a value >01, then byte 1 outputs the exception code (supplied by RMX in response to CREAT_JOB), the other bytes output the name of the subsystem from the job table (JOTA). Save error message data and contact your next level of support.

F4083
CP
PLAUS MAX LIMIT

Type:	Diagnosis-specific (Format 01)
Short text:	Error statistics overflow
Cause:	Too many plausibility errors within a certain time. The error statistics overflow.
Action:	Save error message data and contact your next level of support.

F4084
CP
SYSTEM EXCEPTN HANDLER

Type:	Diagnosis-specific (Format 01)
Short text:	Error when processing the root job
Cause:	The system exception handler was activated by an error.
Action:	Find the cause with further error reports. Save error message data and

contact your next level of support.

F4085
CP
INIT ERROR

Type: Diagnosis-specific (Format 01)

Short text: Error in OS initialization

Cause: This error is reported to SYSLOAD, not to error analysis. The reaction is a hard restart.

Action: Check that the PABX has restarted. contact your next level of support if the system fails to restart.

F4086
CP
BUSHANDLER QBLOCK S

Type: Diagnosis-specific (Format 01)

Short text: No free short container available

Cause: Bus handler (BH) reports that for a certain time the destination processor's dual-port RAM (DPR) did not have a short free container available to hold a message that was to be transmitted. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the system program (SP) in its own processor has reset the block byte of the associated queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support. Check MBU firmware. Note related error messages.

F4087
CP
BUSHANDLER QBLOCK L

Type: Diagnosis-specific (Format 01)

Short text: No free long container available

Cause: BH reports that for a certain time the destination processor's DPR did not have along free container available to hold a message that was to be transmitted. The BH enables all the containers of the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the SP in its own processor has reset the block byte of the associated queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support. Check MBU firmware. Note related error messages.

F4088
CP
BROADCAST ON, NO ACK

Type: Diagnosis-specific (Format 01)
Short text: Broadcast not acknowledged by at least one MBU
Cause: The BROADCAST_ON order (order to all) from the active base processor (BP) to the message buffers (MBU) was not acknowledged punctually by at least one MBU. The error is reported in the active BP.
Action: Check the MBU boards and replace defective boards. In the HEX data, defective MBUs (if any) are stated first, the PIDs of such defective MBUs second. Save error message data and contact your next level of support.

F4089
CP
BROADCAST OFF, NO ACK

Type: Diagnosis-specific (Format 01)

Short text: Broadcast not acknowledged by at least one MBU

Cause: The BROADCAST_OFF order from the active BP to the MBUs was not acknowledged punctually by at least one MBU. The error is reported in the active BP.

Action: Check the MBU boards and replace defective boards. In the HEX data, defective MBUs (if any) are stated first, the PIDs of such defective MBUs second. Save error message data and contact your next level of support.

F4090
CP
BROADCAST LONG

Type: Diagnosis-specific (Format 01)

Short text: Message not retrieved by MBU

Cause: When long message was to be acknowledged by the base processor (BP) acting on behalf of the group processors (GP), it was found that this message had not yet been collected by at least one message buffer (MBU). The error is reported in the active BP.

Action: Check the MBU boards and replace defective boards. The first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4091
CP
GP IN BROADCAST MODE

Type: Diagnosis-specific (Format 01)
Short text: Processor communication error
Cause: During processor communication it was found at the receiving end (active BP) that the destination processor specified in the container was a GP currently affected by the load broadcast rather than the GP designated in the load broadcast. The error is reported in the active BP.
Action: The first 64 bytes of the transmitted container are output in the HEX data. Save error message data and contact your next level of support.

F4092
CP
DESTINATION PROCESSOR

Type: Diagnosis-specific (Format 01)

Short text: Destination processor not available

Cause: During processor communication it was found at the receiving end (active BP) that the destination processor named in the container according to the directory table (DIR_TBL) was not available. The sender of the message was either a firmware processor or a data processor whose DIR_TBL was not consistent with the destination DIR_TBL.

Action: The first 64 bytes of the transmitted container are output in the HEX data. Save error message data and contact your next level of support.

F4095
CP
MAILBX TIMER RESOURCES

Type: Diagnosis-specific (Format 01)
Short text: Not enough resources
Cause: After the timer had run down, the system was able to determine that the destination mailbox exists but that the message could not be transmitted due to lack of free memory.
Action: The timer message is output in the HEX data up to a length of 20 Bytes. Save error message data and contact your next level of support.

F4098
CP
PROCESSOR INTERRUPT

Type:	Diagnosis-specific (Format 01)
Short text:	Interrupt
Cause:	SYSLOAD has processed or output an interrupt.
Action:	Save error message data and contact your next level of support.

F4100
DH
IMPLAUSIBLE EVT CODE

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible event code
Cause:	Implausible event code.
Action:	Save error message data and contact your next level of support.

F4101
DH
DISALL EVT CODE

Type:	Diagnosis-specific (several formats apply)
Short text:	Event code disallowed
Cause:	Event code valid but not allowed.
Action:	Save error message data and contact your next level of support.

F4102
DH
IMPLAUSIBLE STATE

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible state
Cause:	Implausible state.
Action:	Save error message data and contact your next level of support.

F4103
DH
UNEXP MESSAGE

Type:	Diagnosis-specific (several formats apply)
Short text:	Unexpected message
Cause:	Message not expected in the current state.
Action:	Save error message data and contact your next level of support.

F4104
DH
IMPLAUSIBLE MESSAGE DATA

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data in the message.
Action:	Save error message data and contact your next level of support.

F4105
DH
IMPLAUSIBLE PROC RET

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible return value
Cause:	Implausible return value received from a procedure.
Action:	Save error message data and contact your next level of support.

F4106
DH
IMPLAUSIBLE PROC PARAM

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible parameter values
Cause:	Implausible parameter values in procedure call.
Action:	Save error message data and contact your next level of support.

F4107
DH
DBAR

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data for database access. Reaction is a soft restart.
Action:	Save error message data and contact your next level of support.

F4108
DH
STATIC DATA FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data (static data) in memory.
Action:	Save error message data and contact your next level of support.

F4109
DH
DYNAMIC DATA FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data (dynamic data) in memory.
Action:	Save error message data and contact your next level of support.

F4110
DH
OS CALL FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Negative exception code
Cause:	Negative exception code for OS calls.
Action:	Save error message data and contact your next level of support.

F4111
DH
MTS CALL FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Software error in MTS handler call. Switching network set with implausible data.
Action:	Save error message data and contact your next level of support.

F4112
DH
TIMEOUT FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Timer run down
Cause:	Timeout for expected response.
Action:	Save error message data and contact your next level of support.

F4113
DH
MSG HEADER FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible message header
Cause:	Implausible message header.
Action:	Save error message data and contact your next level of support.

F4116
DH
ADVISORY

Type:	Diagnosis-specific (several formats apply)
Short text:	Advisory message
Cause:	Advisory message.
Action:	Save error message data and contact your next level of support.

F4118
DH
BOARD NOT READY

Type:	Diagnosis-specific (Format 01)
Short text:	Board not in operation
Cause:	The operating system (OS) has detected that the MDL_READY field of a

dual-port RAM (DPR) no longer contains the value READY, which means that a board (IP, DCL, CCH, MBU, IOCG) is currently not operative.

Action:	Check the IP, DCL, CCH, MBU, and IOCG boards. Replace the defective

board. contact your next level of support if all boards appear to be okay or if the error persists.

F4119
DH
DPR NOT VALID

Type:	Diagnosis-specific (Format 01)
Short text:	Dual Port Ram

Cause: The OS has detected that the DPR_VALID field of a dual-port RAM (DPR) no longer contains the value VALID because, for instance, a container chaining error has been found by board. No hexadecimal data is output with this message.

Action: Check the IP, DCL, CCH, MBU, and IOCG boards. Replace the defective board. contact your next level of support if all boards appear to be okay or if the error persists.

F4122
DH
BUSHANDLER TIMEOUT

Type: Diagnosis-specific (Format 01)

Short text: Bus handler (BH) reports timeout

Cause: Bus handler (BH) reports timeout error, i.e. transmission was not complete. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the SP (in its own processor) has reset the block byte of the corresponding queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4123
DH
BUSHANDLER NO PARTNER

Type: Diagnosis-specific (Format 01)

Short text: Board failure of remote processor

Cause: BH identifies that a message could not be transmitted because, for instance, the destination processor's board had failed. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the system program (in its own processor) has reset the block byte of the corresponding queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4124
DH
BUSHANDLER CONTEXT

Type: Diagnosis-specific (Format 01)

Short text: Implausible data for the BH

Cause: This means the container has been fed the wrong data for the BH by the operating system.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4125
DH
DESTINATION CATALOG

Type: Diagnosis-specific (Format 01)

Short text: Name not contained in index catalog

Cause: During processor communication, a container with an index/name that was not in the receiver's index catalog was received from a firmware processor or boot. The error is signaled at the receiving end.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4126
DH
DESTINATION MAILBOX

Type: Diagnosis-specific (Format 01)
Short text: Destination mailbox no longer exists
Cause: During processor communication, it was found at the receiving end that the destination mailbox named in the container no longer exists or is wrong. The error is signaled at the receiving end.
Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4127
DH
DESTINATION RESOURCES

Type: Diagnosis-specific (Format 01)

Short text: Not enough OS resources

Cause: Resources short for receiving messages over processor borders. Whether the message was intended for an operating system mailbox or for a user's mailbox, is of no concern as regards this error.

1. Source processor is the destination: Despite a wait there was neither a free buffer nor a free segment available to hold the message. The hexadecimal output contains the task batch which is to empty the mailbox, and also the address of the task currently accessing the database area.

2. Source processor is a node: Despite a wait there was neither a short nor a long container available for forwarding the message.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4128
DH
OS RESOURCES

Type: Diagnosis-specific (Format 01)

Short text: Not enough OS resources

Cause: The operating system did not have a free element in its internal buffer pool or a segment available, nor, despite a wait, a short or long container. Shortage of operating system resources when receiving messages over processor borders is, however, reported with error message F4127. No HEX data is output with this message.

Action: Check the IP and MBU firmware. Save error message data and contact your next level of support.

F4129
DH
MAILBOX TIMER

Type: Diagnosis-specific (Format 01)
Short text: Mailbox no longer exists
Cause: When a timer runs down, the destination mailbox is found to be no longer existing.
Action: In the HEX data, the message is output by the timer in a length of 20 bytes. Save error message data and contact your next level of support.

F4130
DH
TIME / DATE NOT VALID

Type: Diagnosis-specific (Format 01)
Short text: Check reference clock
Cause: Error when processing the reference clock. Error only occurs in the ADS.
Action: The exception code is output in the HEX data and may have the following meaning:
H20 = TIME_NOT_VALID (Clock defective)
H21 = MAC_NOT_READY (MAC board defective)
H22 = BAT_OFF (Check date/time or support battery in the MAC/IOPA)
When the ADS is first booted, exception codes H20 and H21 are always output on all accounts.

F4132
DH
JOTA

Type:	Diagnosis-specific (Format 01)
Short text:	Implausible data in job table
Cause:	ROOT finds implausible data in the job table (JOTA). Depending on the

state of the boot, the error is reported to SYSLOAD or to error analysis. It is assumed that the JOTA checksum is no longer correct.

Action: If byte 0 of the HEX data contains the value 01, the other bytes output the layer number.

If byte 0 of the HEX data contains a value >01, then byte 1 outputs the exception code (supplied by RMX in response to CREAT_JOB), the other bytes output the name of the subsystem from the job table (JOTA). Save error message data and contact your next level of support.

F4133
DH
PLAUS MAX LIMIT

Type:	Diagnosis-specific (Format 01)
Short text:	Error statistics overflow
Cause:	Too many plausibility errors within a certain time. The error statistics overflow.
Action:	Save error message data and contact your next level of support.

F4134
DH
SYSTEM EXCEPTN HANDLER

Type:	Diagnosis-specific (Format 01)
Short text:	Error when processing the root job
Cause:	The system exception handler was activated by an error.
Action:	Find the cause with further error reports. Save error message data and

contact your next level of support.

F4135
DH
INIT ERROR

Type: Diagnosis-specific (Format 01)

Short text: Error in OS initialization

Cause: This error is reported to SYSLOAD, not to error analysis. The reaction is a hard restart. The hard disk may be faulty or the system program may not exist or may be faulty.

Action: Check that the PABX has restarted. contact your next level of support if the system fails to restart.

F4136
DH
BUSHANDLER QBLOCK S

Type: Diagnosis-specific (Format 01)

Short text: No free short container available

Cause: Bus handler (BH) reports that for a certain time the destination processor's dual-port RAM (DPR) did not have a short free container available to hold a message that was to be transmitted. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the system program (SP) in its own processor has reset the block byte of the associated queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support. Check MBU firmware. Note related error messages.

F4137
DH
BUSHANDLER QBLOCK L

Type: Diagnosis-specific (Format 01)

Short text: No free long container available

Cause: BH reports that for a certain time the destination processor's DPR did not have along free container available to hold a message that was to be transmitted. The BH enables all the containers of the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the SP in its own processor has reset the block byte of the associated queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support. Check MBU firmware. Note related error messages.

F4138
DH
BROADCAST ON, NO ACK

Type: Diagnosis-specific (Format 01)

Short text: Broadcast not acknowledged by at least one MBU

Cause: The BROADCAST_ON order (order to all) from the active base processor (BP) to the message buffers (MBU) was not acknowledged punctually by at least one MBU. The error is reported in the active BP.

Action: Check the MBU boards and replace defective boards. In the HEX data, defective MBUs (if any) are stated first, the PIDs of such defective MBUs second. Save error message data and contact your next level of support.

F4139
DH
BROADCAST OFF, NO ACK

Type:　　　　　　　Diagnosis-specific (Format 01)

Short text:　　　　　Broadcast not acknowledged by at least one MBU

Cause:　　　　　　The BROADCAST_OFF order from the active BP to the MBUs was not acknowledged punctually by at least one MBU. The error is reported in the active BP.

Action:　　　　　　Check the MBU boards and replace defective boards. In the HEX data, defective MBUs (if any) are stated first, the PIDs of such defective MBUs second. Save error message data and contact your next level of support.

F4140
DH
BROADCAST LONG

Type: Diagnosis-specific (Format 01)

Short text: Message not retrieved by MBU

Cause: When long message was to be acknowledged by the base processor (BP) acting on behalf of the group processors (GP), it was found that this message had not yet been collected by at least one message buffer (MBU). The error is reported in the active BP.

Action: Check the MBU boards and replace defective boards. The first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4141
DH
GP IN BROADCAST MODE

Type: Diagnosis-specific (Format 01)
Short text: Processor communication error
Cause: During processor communication it was found at the receiving end (active BP) that the destination processor specified in the container was a GP currently affected by the load broadcast rather than the GP designated in the load broadcast. The error is reported in the active BP.
Action: The first 64 bytes of the transmitted container are output in the HEX data. Save error message data and contact your next level of support.

F4142
DH
DESTINATION PROCESSOR

Type: Diagnosis-specific (Format 01)

Short text: Destination processor not available

Cause: During processor communication it was found at the receiving end (active BP) that the destination processor named in the container according to the directory table (DIR_TBL) was not available. The sender of the message was either a firmware processor or a data processor whose DIR_TBL was not consistent with the destination DIR_TBL.

Action: The first 64 bytes of the transmitted container are output in the HEX data. Save error message data and contact your next level of support.

F4145
DH
MAILBX TIMER RESOURCES

Type: Diagnosis-specific (Format 01)
Short text: Not enough resources
Cause: After the timer had run down, the system was able to determine that the destination mailbox exists but that the message could not be transmitted due to lack of free memory.
Action: The timer message is output in the HEX data up to a length of 20 Bytes. Save error message data and contact your next level of support.

F4148
DH
PROCESSOR INTERRUPT

Type:	Diagnosis-specific (Format 01)
Short text:	Interrupt
Cause:	SYSLOAD has processed or output an interrupt.
Action:	Save error message data and contact your next level of support.

F4150
PP
IMPLAUSIBLE EVT CODE

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible event code
Cause:	Implausible event code.
Action:	Save error message data and contact your next level of support.

F4151
PP
DISALL EVT CODE

Type:	Diagnosis-specific (several formats apply)
Short text:	Event code disallowed
Cause:	Event code valid but not allowed.
Action:	Save error message data and contact your next level of support.

F4152
PP
IMPLAUSIBLE STATE

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible state
Cause:	Implausible state.
Action:	Save error message data and contact your next level of support.

F4153
PP

Type:	UNEXP MESSAGE
Type:	Diagnosis-specific (several formats apply)
Short text:	Unexpected message
Cause:	Message not expected in the current state.
Action:	Save error message data and contact your next level of support.

F4154
PP
IMPLAUSIBLE MESSAGE DATA

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data in the message.
Action:	Save error message data and contact your next level of support.

F4155
PP
IMPLAUSIBLE PROC RET

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible return value
Cause:	Implausible return value received from a procedure.
Action:	Save error message data and contact your next level of support.

F4156
PP
IMPLAUSIBLE PROC PARAM

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible parameter values
Cause:	Implausible parameter values in procedure call.
Action:	Save error message data and contact your next level of support.

F4157
PP
DBAR

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data for database access. Reaction is a soft restart.
Action:	Save error message data and contact your next level of support.

F4158
PP
STATIC DATA FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data (static data) in memory.
Action:	Save error message data and contact your next level of support.

F4159
PP
DYNAMIC DATA FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data (dynamic data) in memory.
Action:	Save error message data and contact your next level of support.

F4160
PP
OS CALL FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Negative exception code
Cause:	Negative exception code for OS calls.
Action:	Save error message data and contact your next level of support.

F4161
PP
MTS CALL FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Software error in MTS handler call. Switching network set with

implausible data.

Action:	Save error message data and contact your next level of support.

F4162
PP
TIMEOUT FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Timer run down
Cause:	Timeout for expected response.
Action:	Save error message data and contact your next level of support.

F4163
PP
MSG HEADER FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible message header
Cause:	Implausible message header.
Action:	Save error message data and contact your next level of support.

F4166
PP
ADVISORY

Type:	Diagnosis-specific (several formats apply)
Short text:	Advisory message
Cause:	Advisory message.
Action:	Save error message data and contact your next level of support.

F4168
PP
BOARD NOT READY

Type: Diagnosis-specific (Format 01)

Short text: Board not in operation

Cause: The operating system (OS) has detected that the MDL_READY field of a dual-port RAM (DPR) no longer contains the value READY, which means that a board (IP, DCL, CCH, MBU, IOCG) is currently not operative.

Action: Check the IP, DCL, CCH, MBU, and IOCG boards. Replace the defective board. contact your next level of support if all boards appear to be okay or if the error persists.

F4169
PP
DPR NOT VALID

Type: Diagnosis-specific (Format 01)
Short text: Dual Port Ram
Cause: The AM has detected that the DPR_VALID field of a dual-port RAM (DPR) no longer contains the value VALID because, for instance, a container chaining error has been found by board. No hexadecimal data is output with this message.
Action: Check the IP, DCL, CCH, MBU, and IOCG boards. Replace the defective board. Contact your next level of support if all boards appear to be okay or if the error persists.

F4172
PP
BUSHANDLER TIMEOUT

Type: Diagnosis-specific (Format 01)
Short text: Bus handler (BH) reports timeout
Cause: Bus handler (BH) reports timeout error, i.e. transmission was not complete. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the SP (in its own processor) has reset the block byte of the corresponding queue with ON_W_RESET_QBLOCK.
Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4173
PP
BUSHANDLER NO PARTNER

Type: Diagnosis-specific (Format 01)

Short text: Board failure of remote processor

Cause: BH identifies that a message could not be transmitted because, for instance, the destination processor's board had failed. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the system program (in its own processor) has reset the block byte of the corresponding queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4174
PP
BUSHANDLER CONTEXT

Type: Diagnosis-specific (Format 01)
Short text: Implausible data for the BH
Cause: This means the container has been fed the wrong data for the BH by the
operating system.
Action: Not more than the first 64 bytes of the container that has not been
transmitted are output in the HEX data. Save error message data and contact your next level
of support.

F4175
PP
DESTINATION CATALOG

Type: Diagnosis-specific (Format 01)

Short text: Name not contained in index catalog

Cause: During processor communication, a container with an index/name that was not in the receiver's index catalog was received from a firmware processor or boot. The error is signaled at the receiving end.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4176
PP
DESTINATION MAILBOX

Type: Diagnosis-specific (Format 01)

Short text: Destination mailbox no longer exists

Cause: During processor communication, it was found at the receiving end that the destination mailbox named in the container no longer exists or is wrong. The error is signaled at the receiving end.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4177
PP
DESTINATION RESOURCES

Type: Diagnosis-specific (Format 01)
Short text: Not enough resources
Cause: Resources short for receiving messages over processor borders. Whether the message was intended for an operating system mailbox or for a user's mailbox, is of no concern as regards this error.

1. Source processor is the destination: Despite a wait there was neither a free buffer nor a free segment available to hold the message. The hexadecimal output contains the task batch which is to empty the mailbox, and also the address of the task currently accessing the database area.

2. Source processor is a node: Despite a wait there was neither a short nor a long container available for forwarding the message.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4178
PP
OS RESOURCES

Type: Diagnosis-specific (Format 01)

Short text: Not enough resources

Cause: The operating system did not have a free element in its internal buffer pool or a segment available, nor, despite a wait, a short or long container. Shortage of operating system resources when receiving messages over processor borders is, however, reported with error message F4177. No HEX data is output with this message.

Action: Check the IP and MBU firmware. Save error message data and contact your next level of support.

F4179
PP
MAILBOX TIMER

Type: Diagnosis-specific (Format 01)
Short text: Mailbox no longer exists
Cause: When a timer runs down, the destination mailbox is found to be no longer existing.
Action: In the HEX data, the message is output by the timer in a length of 20 bytes. Save error message data and contact your next level of support.

F4180
PP
TIME / DATE NOT VALID

Type: Diagnosis-specific (Format 01)

Short text: Check reference clock

Cause: Error when processing the reference clock. Error only occurs in the ADS.

Action: The exception code is output in the HEX data and may have the following
meaning:

H20 = TIME_NOT_VALID (Clock defective)

H21 = MAC_NOT_READY (MAC board defective)

H22 = BAT_OFF (Check date/time or support battery in the MAC/IOPA)

When the ADS is first booted, exception codes H20 and H21 are always output on all accounts.

F4182
PP
JOTA

Type: Diagnosis-specific (Format 01)

Short text: Implausible data in job table

Cause: ROOT finds implausible data in the job table (JOTA). Depending on the state of the boot, the error is reported to SYSLOAD or to error analysis. It is assumed that the JOTA checksum is no longer correct.

Action: If byte 0 of the HEX data contains the value 01, the other bytes output the layer number.

If byte 0 of the HEX data contains a value >01, then byte 1 outputs the exception code (supplied by RMX in response to CREAT_JOB), the other bytes output the name of the subsystem from the job table (JOTA). Save error message data and contact your next level of support.

F4183
PP
PLAUS MAX LIMIT

Type: Diagnosis-specific (Format 01)
Short text: Error statistics overflow
Cause: Too many plausibility errors within a certain time. The error statistics
overflow.
Action: Save error message data and contact your next level of support.

F4184
PP
SYSTEM EXCEPTN HANDLER

Type:	Diagnosis-specific (Format 01)
Short text:	Error when processing the root job
Cause:	The system exception handler was activated by an error.
Action:	Find the cause with further error reports. Save error message data and

contact your next level of support.

F4185
PP
INIT ERROR

Type:	Diagnosis-specific (Format 01)
Short text:	Error in OS initialization
Cause:	This error is reported to SYSLOAD, not to error analysis. The reaction is

a hard restart.

Action: Check that the PABX has restarted. Contact your next level of support if the system fails to restart.

F4186
PP
BUSHANDLER QBLOCK S

Type:　　　　　　　Diagnosis-specific (Format 01)

Short text:　　　　　No free short container available

Cause:　　　　　　Bus handler (BH) reports that for a certain time the destination processor's dual-port RAM (DPR) did not have a short free container available to hold a message that was to be transmitted. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the system program (SP) in its own processor has reset the block byte of the associated queue with ON_W_RESET_QBLOCK.

Action:　　　　　　Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support. Check MBU firmware. Note related error messages.

F4187
PP
BUSHANDLER QBLOCK L

Type:	Diagnosis-specific (Format 01)
Short text:	No free long container available
Cause:	BH reports that for a certain time the destination processor's DPR did not

have along free container available to hold a message that was to be transmitted. The BH enables all the containers of the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the SP in its own processor has reset the block byte of the associated queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support. Check MBU firmware. Note related error messages.

F4188
PP
BROADCAST ON, NO ACK

Type: Diagnosis-specific (Format 01)

Short text: Broadcast not acknowledged by at least one MBU

Cause: The BROADCAST_ON order (order to all) from the active base processor (BP) to the message buffers (MBU) was not acknowledged punctually by at least one MBU. The error is reported in the active BP.

Action: Check the MBU boards and replace defective boards. In the HEX data, defective MBUs (if any) are stated first, the PIDs of such defective MBUs second. Save error message data and contact your next level of support.

F4189
PP
BROADCAST OFF, NO ACK

Type:	Diagnosis-specific (Format 01)
Short text:	Broadcast not acknowledged by at least one MBU
Cause:	The BROADCAST_OFF order from the active BP to the MBUs was not acknowledged punctually by at least one MBU. The error is reported in the active BP.
Action:	Check the MBU boards and replace defective boards. In the HEX data, defective MBUs (if any) are stated first, the PIDs of such defective MBUs second. Save error message data and contact your next level of support.

F4190
PP
BROADCAST LONG

Type: Diagnosis-specific (Format 01)

Short text: Message not retrieved by MBU

Cause: When long message was to be acknowledged by the base processor (BP) acting on behalf of the group processors (GP), it was found that this message had not yet been collected by at least one message buffer (MBU). The error is reported in the active BP.

Action: Check the MBU boards and replace defective boards. The first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4191
PP
GP IN BROADCAST MODE

Type: Diagnosis-specific (Format 01)

Short text: Processor communication error

Cause: During processor communication it was found at the receiving end (active
BP) that the destination processor specified in the container was a GP currently affected by the
load broadcast rather than the GP designated in the load broadcast. The error is reported in
the active BP.

Action: The first 64 bytes of the transmitted container are output in the HEX data.
Save error message data and contact your next level of support.

F4192
PP
DESTINATION PROCESSOR

Type: Diagnosis-specific (Format 01)

Short text: Destination processor not available

Cause: During processor communication it was found at the receiving end (active BP) that the destination processor named in the container according to the directory table (DIR_TBL) was not available. The sender of the message was either a firmware processor or a data processor whose DIR_TBL was not consistent with the destination DIR_TBL.

Action: The first 64 bytes of the transmitted container are output in the HEX data. Save error message data and contact your next level of support.

F4195
PP
MAILBX TIMER RESOURCES

Type: Diagnosis-specific (Format 01)
Short text: Not enough resources
Cause: After the timer had run down, the system was able to determine that the
destination mailbox exists but that the message could not be transmitted due to lack of free
memory.
Action: The timer message is output in the HEX data up to a length of 20 Bytes.
Save error message data and contact your next level of support.

F4198
PP
PROCESSOR INTERRUPT

Type:	Diagnosis-specific (Format 01)
Short text:	Interrupt
Cause:	SYSLOAD has processed or output an interrupt.
Action:	Save error message data and contact your next level of support.

F4200
CDR
IMPLAUSIBLE EVT CODE

Type: Diagnosis-specific (several formats apply)
Short text: Implausible event code
Cause: Implausible event code.
Action: If this error occurs repeatedly, save the error message data and contact
your next level of support.

F4201
CDR
DISALL EVT CODE

Type:	Diagnosis-specific (several formats apply)
Short text:	Event code disallowed
Cause:	Event code valid but not allowed.
Action:	If this error occurs repeatedly, save the error message data and contact

your next level of support.

F4203
CDR
UNEXP MESSAGE

Type:　　　　　　　Diagnosis-specific (several formats apply)
Short text:　　　　　Unexpected message
Cause:　　　　　　　Message not expected in the current state.
Action:　　　　　　　If this error occurs repeatedly, save the error message data and contact your next level of support.

F4204
CDR
IMPLAUSIBLE MESSAGE DATA

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data in the message.
Action:	If this error occurs repeatedly, save the error message data and contact

your next level of support.

F4205
CDR
IMPLAUSIBLE PROC RET

Type: Diagnosis-specific (several formats apply)
Short text: Implausible return value
Cause: Implausible return value received from a procedure.
Action: If this error occurs repeatedly, save the error message data and contact your next level of support.

F4206
CDR
IMPLAUSIBLE PROC PARAM

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible parameter values
Cause:	Implausible parameter values in a procedure call.
Action:	If this error occurs repeatedly, save the error message data and contact

your next level of support.

F4207
CDR
DBAR

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data for database access. Reaction is a soft restart.
Action:	Save error message data and contact your next level of support.

F4208
CDR
STATIC DATA FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data (static data) in memory.
Action:	If this error occurs repeatedly, save the error message data and contact

your next level of support.

F4209
CDR
DYNAMIC DATA FAULT

Type: Diagnosis-specific (several formats apply)
Short text: Implausible data
Cause: Implausible data (dynamic data) in memory.
Action: If this error occurs repeatedly, save the error message data and contact
your next level of support.

F4210
CDR
OS CALL FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Negative exception code
Cause:	Negative exception code for OS calls.
Action:	If this error occurs repeatedly, save the error message data and contact

your next level of support.

F4212
CDR
TIMEOUT FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Timer run down
Cause:	Timeout for expected response.
Action:	If this error occurs repeatedly, save the error message data and contact

your next level of support.

F4213
CDR
MSG HEADER FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible message header
Cause:	Implausible message header.
Action:	If this error occurs repeatedly, save the error message data and contact

your next level of support.

F4214
CDR
DMS CALL FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Negative acknowledgments by the data management system
Cause:	Negative acknowledgments by the data management system (e.g. I/O error).
Action:	If this error occurs repeatedly, save the error message data and contact your next level of support.

F4216
SM-CR
ADVISORY

Type:	Diagnosis-specific (several formats apply)
Short text:	Advisory message of the call data recording system
Cause:	This advisory message always refers to an error in call data recording.

Possible causes:

Tariff tables with AMO TTBL incorrectly configured,

Type of call data recording per carrier with AMO GEFE incorrectly configured,

Tariff table with AMO TTBL incorrectly configured (group 0 for display),

Tariffs with AMO TTBL incorrectly configured.

Advisory messages (F6166) can be output in the auxiliary data line, e.g. with the following text:
" GE: TARIFF TABLE ENTRY WRONG " (incorrect tariff table entry (group 0) or empty tariff list).

Action: Check the appropriate CDR component defined by the advisory text in the auxiliary data.

Interpretation of auxiliary data: For SP300-V3.4 systems, 124 bytes of auxiliary data are output. From SP300-V3.5, the auxiliary data contains 141 bytes.

Auxiliary Data for SP300-V3.4

Byte 00-11 = PIN Number
Byte 12-15 = TRUNK_NO
Number of exchange trunk seized
Byte 12-13 = LTG Line Number
Byte 14-15 = Subunit/ISDN B-channel
Byte 16-19 = TRUNK_POS
Physical address of exchange trunk seized
(LTG-LTU-SLOT-CCT)
Byte 20 - 25 = CONN_ROUT_CODE
Customer-specific route code
Byte 26 = SWITCH_PROCESS
Identifies the call progress stage in the switching process
0 Empty
1 End after: seizure
2 End after: call section identifier
3 End after: virtual call section
4 Call section after: seizure
5 Call section after: call section identifier
6 Call section after: virtual call section
7 Virtual call section after: seizure
8 Virtual call section after: call section identifier
9 Virtual call section after: virtual call section
10 END_AFTER_START
11 SECT_AFTER_START
Byte 27 = CONN_SERVICE_IND

Communication service of connection

0 Voice

1 Teletext

2 Videotex

3 Fax

4 Data

5 Telex via TTC (interworking)

Byte 28 = CONN_NETWORK

Specifies the network in which the call was set up

0 Analog network

1 IDN

2 ISDN

3 Analog

4 Digital

Byte 29 = CONN_SPEED

Transmission speed, values 0-116

Byte 30 = ATTND_GROUP

Attendant group of calling party and chargee, values from 0-16

Byte 31-52 = PAYING_PARTY

Number of chargee, values 0-15 per byte

Byte 53-54 = NODE_NO

Node number, values from 0-999

Byte 55-56 = CURR_MESSAGE_NR

User system current message number, values from 0-65535

Byte 57-58 = CONN_CHARGE_UNITS

Connection charge units, values from 0-65535

Byte 59-61 = MARK1

Bit string for selection features, bits 0-21 used.

The bits are divided among the three bytes as follows:

- Byte 1: bits 8-15

- Byte 2: bits 0-7

- Byte 3: bits 0-5: bits 16-21

Significance of set bits as follows:

BIT 0 Local connection

BIT 1 Toll connection

BIT 2 Chargee = ATND

BIT 3 Chargee = MTLC

BIT 4 Chargee = Night Station

BIT 5 User with CDRS authorization

BIT 6 User with CDRS authorization

BIT 7 Poss. ambiguous connection data

BIT 8 CDRATND for connections set up by attendant

BIT 9 CDRATND for connections set up by user

BIT 10 TTX notification authorization

BIT 11 Night status (per ATND group)
BIT 12 Limit section exceeded
BIT 13 Connection setup via S&F unit
BIT 14 TRUNK_ID
BIT 15 TIE_LINE,
BIT 16 GEI_AUTH
BIT 17 EXPENSIVE
BIT 18 INTERN,
BIT 19 DINCOMING,
BIT 20 OUTGOING,
BIT 21 AMOUNT_FROM_NET
Byte 62-63 = CALL_ID.NODE_NO
Node number of current connection, values 0-999
Byte 64-67 = CALL_ID.SEQU_NO
ID number of current connection
Byte 68-71 = CONN_CHARGE_AMOUNT
Call charges in currency amounts
Byte 72 = CARRIER_ZONE.CARRIER
Carrier, values 0-9
Byte 73 = CARRIER_ZONE.ZONE
Distance zone, values 0-220, see TTBL AMO Description
Byte 74 = SUPPL_SERVICE
Supplementary service, under which the chargeable call was set up
0 NOT_DEFINED
1 NORMAL_CALL
2 CONSULTATION_CALL
3 CALL_TRANSFER
4 CALL_BACK
5 CALL_FWD_BUSY
6 CALL_FWD_UNCONDIT
7 CALL_FWD_NOREPLY
8 CALL_PICKUP
9 CONFERENCE
10 OVERRIDE
11 HUNTING_GROUP
12 MAIL_BOX
13 PAGING
14 DICTATION
15 CREDIT_CARD_CHRG
16 REVERSE_CHARGING
17 CALL_DEFECTION
18 DOOR_OPENING_SYS
Byte 75-86 = IDENT_CARD
Personal identification number

Byte 87 = IDENT_CARD_COPIN
Class of PIN, values 0-8
Byte 88 = CAUSE
Reason for connection cleardown, values 0-143
Byte 89 = TARTYP
Time-of-day-segment of connection setup
0 DAY
1 NIGHT1
2 NIGHT2
3 NIGHT3
4 NIGHT4

The following two fields are two mutually exclusive possibilities !
Byte 90-112 = DESTINATION_NR
Dialed destination number for connection
Byte 90: Length of destination number, possible values 0-22
Byte 91-112: each byte shows one 'digit' of the DESTNO, between 0 and 15
Byte 113-119 = CONN_TIME_END_ABS_EXC End of connection
Byte 113 : Year (0-99)
Byte 114 : Month (1-12)
Byte 115 : Day (1-31)
Byte 116 : Hour
Byte 117 : Minute
Byte 118 : Second
Byte 119 : 1/10 second
Byte 120-123 = CONN_TIME_EXC Connection duration
Byte 120 : Hours
Byte 121 : Minutes
Byte 122 : Seconds
Byte 123 : 1/10 second

Auxiliary data from SP300E-V1.0/R6.4

except: "Charge Calculation Not Possible"

Byte 00-11 = PIN Number
Byte 12-15 = TRUNK_NO
Number of exchange trunk seized
Byte 12-13 = LTG Line Number
Byte 14-15 = Subunit/ISDN B-channel
Byte 16-19 = TRUNK_POS
Physical address of exchange trunk seized
(LTG-LTU-SLOT-CCT)
Byte 20 - 25 = CONN_ROUT_CODE

Customer-specific route code
Byte 26 = SWITCH_PROCESS
Identifies the call progress stage in the switching process
0 Empty
1 End after: seizure
2 End after: call section identifier
3 End after: Virtual call section
4 Call section after: seizure
5 Call section after: call section identifier
6 Section after: virtual call section
7 Virtual call section after: seizure
8 Virtual call section after: call section identifier
9 Virtual call section after: virtual call section
10 END_AFTER_START
11 SECT_AFTER_START
Byte 27 = CONN_SERVICE_IND
Communication service of connection
0 Voice
1 Teletext
2 Videotex
3 Fax
4 Data
5 Telex via TTC (interworking)
Byte 28 = CONN_NETWORK
Specifies the network in which the call was set up
0 Analog network
1 IDN
2 ISDN
3 Analog
4 Digital
Byte 29 = CONN_SPEED
Transmission speed, values 0-133
Byte 30 = ATTND_GROUP
Attendant group of calling party and chargee, values from 0-16
Byte 31-52 = PAYING_PARTY
Number of chargee, values 0-15 per byte
Byte 53 = NODE_ID.TYPE
Type of node
0 TYPE_UNKNOWN
1 NODE_ID_NOT_PRESENT
2 LEVEL0_NODE_NO
3 LEVEL1_NODE_NO
4 LEVEL2_NODE_NO
5 RESERVE_5

6 RESERVE_6
7 RESERVE_7
Byte 54 = NODE_ID.Level2
Node identification, sub-domain, values from 0-15
Byte 55 = NODE_ID.Level1
Node identification, domain, values from 0-127
Byte 56-57 = NODE_ID.Level0
Node identification, node number, values from 0-999
Byte 58-59 = CURR_MESSAGE_NR
User system current message number, values from 0-65535
Byte 60-61 = CONN_CHARGE_UNITS
Connection charge units, values from 0-65535
Byte 62-64 = MARK1
Bit string for selection features, bits 0-21 used.
The bits are divided among the three bytes as follows:
- Byte 1: bits 8-15
- Byte 2: bits 0-7
- Byte 3: bits 0-5: bits 16-21
Significance of set bits as follows:
BIT 0 Local connection
BIT 1 Toll connection
BIT 2 Chargee = ATND
BIT 3 Chargee = MTLC
BIT 4 Chargee = Night Station
BIT 5 User with CDRS authorization
BIT 6 User with CDRS authorization
BIT 7 Poss. ambiguous connection data
BIT 8 CDRATND for connections set up by attendant
BIT 9 CDRATND for connections set up by user
BIT 10 TTX notification authorization
BIT 11 Night status(per ATND group)
BIT 12 Limit section exceeded
BIT 13 Connection setup via S&F unit
BIT 14 TRUNK_ID
BIT 15 TIE_LINE,
BIT 16 GEI_AUTH
BIT 17 EXPENSIVE
BIT 18 INTERN,
BIT 19 DINCOMING,
BIT 20 OUTGOING,
BIT 21 AMOUNT_FROM_NET
Byte 65 = CALL_ID.NODE_NO.TYPE; see byte 53
Byte 66 = CALL_ID.NODE_NO.LEVEL_2; see byte 54
Byte 67 = CALL_ID.NODE_NO.LEVEL_1; see byte 55

Byte 68-69 = CALL_ID.NODE_NO.LEVEL_0; see bytes 56-57
Byte 70-73 = CALL_ID.SEQU_NO
ID number of current connection
Byte 74-77 = CONN_CHARGE_AMOUNT
Call charges in currency amounts
Byte 78 = CARRIER_ZONE.CARRIER
Carrier, values 0-9
Byte 79 = CARRIER_ZONE.ZONE
Distance zone, values 0-220, see TTBL AMO Description,
under: DA_M_CG_ZONE_TYPE_SET,1
Byte 80 = SUPPL_SERVICE
Supplementary service, under which the chargeable call was set up
0 NOT_DEFINED
1 NORMAL_CALL
2 CONSULTATION_CALL
3 CALL_TRANSFER
4 CALL_BACK
5 CALL_FWD_BUSY
6 CALL_FWD_UNCONDIT
7 CALL_FWD_NOREPLY
8 CALL_PICKUP
9 CONFERENCE
10 OVERRIDE
11 HUNTING_GROUP
12 MAIL_BOX
13 PAGING
14 DICTATION
15 CREDIT_CARD_CHRG
16 REVERSE_CHARGING
17 CALL_DEFECTION
18 DOOR_OPENING_SYS
Byte 81-92 = IDENT_CARD
Personal identification number
Byte 93 = IDENT_CARD_COPIN
Class of PIN, values 0-8
Byte 94 = CAUSE
Reason for connection cleardown, values 0-149
Byte 95 = B_CHNL_CNT
Number of 64-Kbit-channels of a connection, values 0-30
Byte 96 = RECORD_POINT
Recording point of the call data recording system
0 TRANSIT
1 BREAKOUT
2 ORIGIN

3 ORIGIN_BREAKOUT
4 BREAKIN
Byte 97 = TRANSIT_COUNT
Number of transit nodes, values 0-31
Byte 98-105 = see bytes 12 - 19
Byte 98-99 : INCOMING_TRUNK_NO.LTG_Line
Byte 100-101 :
Byte 102 : INCOMING_TRUNK_POS.LTG
Byte 103 : INCOMING_TRUNK_POS.LTU
Byte 104 : INCOMING_TRUNK_POS.EBT (SLOT)
Byte 105 : INCOMING_TRUNK_POS.Satz (Circuit)
Byte 106 = TARTYP
Time-of-day-segment of connection setup
0 DAY
1 NIGHT1
2 NIGHT2
3 NIGHT3
4 NIGHT4

The following two fields are two mutually exclusive possibilities!
Byte 107-129 = DESTINATION_NR
Dialed destination number for connection
Byte 107: Length of destination number, possible values 0-22
Byte 108-129: each byte shows one 'digit' of the DESTNO, between 0 and 15
Byte 130-136 = CONN_TIME_END_ABS_EXC
End of connection
Byte 130 : Year (0-99)
Byte 131 : Month (1-12)
Byte 132 : Day (1-31)
Byte 133 : Hour
Byte 134 : Minute
Byte 135 : Second
Byte 136 : 1/10 second
Byte 137-140 = CONN_TIME_EXC Connection duration
Byte 137 : Hours
Byte 138 : Minutes
Byte 139 : Seconds
Byte 140 : 1/10 second

Auxiliary data from SP300E-V1.0/R6.4, for "Charge Calculation Not Possible":

F4216, UA: 0000:3D74:72ED, last block of error message:

Charge Info

Byte 0: CC-State
Byte 1: Charge Case (0-4):
0: charge case not defined
1: AOC-D
2: AOC-E
3: AOC-S
4: charge case Zone
Byte 2: Type of Charge(0-3)
0: charge type currency
1: charge type units
2: free of charge
3: type not available
Byte 3: Type of Info (0-2)
0: type info increment
1: type info subtotal
2: type info total
Byte 4: Bill ID Present (TRUE/FALSE)
Byte 5: Bill ID Set (0-7)
Byte 6: Units Count (0-32) (usually 1 or 2)
Byte 7-13 = Units Array (1)
Byte 7: Units Available (TRUE/FALSE)
Byte 8-11: Units (number of transmitted units)
Byte 12: Unit Type Present
Byte 13: Unit Type (0-16)
Byte 14-128 = Units Array (2-32), as for Units Array(1)

Advisory Message with Exception Address UA:0000:3D74:8F97

The error message was caused by calling the charge calculation without a valid connection block. Save the error message data and contact your next level of support.
The last block of the error message has the following structure:
Byte 0 = CC-State
Byte 1-9 = CALL_ID
Byte 10-13 = TRUNK_NR Number of exchange trunk seized
Byte 14 = CONNTYPE
Byte 15-47 = CHARGE_INFO, 32 Bytes of Charge Info:
Byte 15: Charge Case (0-4):
0: charge case not defined
1: AOC-D
2: AOC-E
3: AOC-S
4: charge case Zone
Byte 16:Type of Charge(0-3)
0: charge type currency

1: charge type units
2: free of charge
3: type not available
Byte 17:Type of Info (0-2)
0: type info increment
1: type info subtotal
2: type info total
Byte 18: Bill ID Present (TRUE/FALSE)
Byte 19: Bill ID Set (0-7)
Byte 20: Units Count (0-32) (usually 1 or 2)
Byte 21-27 =Units Array (1)
Byte 21: Units Available (TRUE/FALSE)
Byte 22-25: Units (number of transmitted units)
Byte 26: Unit Type Present
Byte 27: Unit Type (0-16)
Byte 28-47 = Units Array (2-32), as for Units Array(1)
Byte 48-49 = CB-IDX
Byte 50-53 = CB-PTR, Pointer to current Connection Block
Byte 54-76 = CONN_CHARGE First 32 bytes of Connection Charge

Advisory Message with Exception Address UA:0000:4878:0312:

The preceding F4216 message contains the CP error message. Byte 66 is the node number transmitted by CP, this number is outside the range (6 bytes). Save error message data and contact your next level of support.

Advisory Message with Exception Address UA:0000:4878:89A1:

The preceding F4216 message contains the CP error message. The error occurs when two seizure messages are sent by the SWU. Save error message data and contact your next level of support.

F4218
CDR
BOARD NOT READY

Type:	Diagnosis-specific (Format 01)
Short text:	Board not in operation
Cause:	The operating system (OS) has detected that the MDL_READY field of a

dual-port RAM (DPR) no longer contains the value READY, which means that a board (IP, DCL, CCH, MBU, IOCG) is currently not operative.

Action: Check the IP, DCL, CCH, MBU, and IOCG boards. Replace the defective board. contact your next level of support if all boards appear to be okay or if the error persists.

F4219
CDR
DPR NOT VALID

Type:	Diagnosis-specific (Format 01)
Short text:	Dual Port Ram

Cause: The OS has detected that the DPR_VALID field of a dual-port RAM (DPR) no longer contains the value VALID because, for instance, a container chaining error has been found by board. No hexadecimal data is output with this message.

Action: Check the IP, DCL, CCH, MBU, and IOCG boards. Replace the defective board. contact your next level of support if all boards appear to be okay or if the error persists.

F4222
CDR
BUSHANDLER TIMEOUT

Type: Diagnosis-specific (Format 01)

Short text: Bus handler (BH) reports timeout

Cause: Bus handler (BH) reports timeout error, i.e. transmission was not complete. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the SP (in its own processor) has reset the block byte of the corresponding queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4223
CDR
BUSHANDLER NO PARTNER

Type: Diagnosis-specific (Format 01)

Short text: Board failure of remote processor

Cause: BH identifies that a message could not be transmitted because, for instance, the destination processor's board had failed. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the system program (in its own processor) has reset the block byte of the corresponding queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4224
CDR
BUSHANDLER CONTEXT

Type: Diagnosis-specific (Format 01)

Short text: Implausible data for the BH

Cause: This means the container has been fed the wrong data for the BH by the operating system.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4225
CDR
DESTINATION CATALOG

Type:　　　　　　　　Diagnosis-specific (Format 01)

Short text:　　　　　　Name not contained in index catalog

Cause:　　　　　　　During processor communication, a container with an index/name that was not in the receiver's index catalog was received from a firmware processor or boot. The error is signaled at the receiving end.

Action:　　　　　　　Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4226
CDR
DESTINATION MAILBOX

Type: Diagnosis-specific (Format 01)

Short text: Destination mailbox no longer exists

Cause: During processor communication, it was found at the receiving end that the destination mailbox named in the container no longer exists or is wrong. The error is signaled at the receiving end.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4227
CDR
DESTINATION RESOURCES

Type: Diagnosis-specific (Format 01)
Short text: Not enough OS resources
Cause: Resources short for receiving messages over processor borders. Whether the message was intended for an operating system mailbox or for a user's mailbox, is of no concern as regards this error.

1. Source processor is the destination: Despite a wait there was neither a free buffer nor a free segment available to hold the message. The hexadecimal output contains the task batch which is to empty the mailbox, and also the address of the task currently accessing the database area.

2. Source processor is a node: Despite a wait there was neither a short nor a long container available for forwarding the message.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4228
CDR
OS RESOURCES

Type: Diagnosis-specific (Format 01)

Short text: Not enough OS resources

Cause: The operating system did not have a free element in its internal buffer pool or a segment available, nor, despite a wait, a short or long container. Shortage of operating system resources when receiving messages over processor borders is, however, reported with error message F4227. No HEX data is output with this message.

Action: Check the IP and MBU firmware. Save error message data and contact your next level of support.

F4229
CDR
MAILBOX TIMER

Type: Diagnosis-specific (Format 01)

Short text: Mailbox no longer exists

Cause: When a timer runs down, the destination mailbox is found to be no longer existing.

Action: In the HEX data, the message is output by the timer in a length of 20 bytes. Save error message data and contact your next level of support.

F4230
CDR
TIME / DATE NOT VALID

Type: Diagnosis-specific (Format 01)
Short text: Check reference clock
Cause: Error when processing the reference clock. Error only occurs in the ADS.
Action: The exception code is output in the HEX data and may have the following
meaning:
H20 = TIME_NOT_VALID (Clock defective)
H21 = MAC_NOT_READY (MAC board defective)
H22 = BAT_OFF (Check date/time or support battery in the MAC/IOPA)
When the ADS is first booted, exception codes H20 and H21 are always output on all accounts.

F4232
CDR
JOTA

Type:	Diagnosis-specific (Format 01)
Short text:	Implausible data in job table
Cause:	ROOT finds implausible data in the job table (JOTA). Depending on the

state of the boot, the error is reported to SYSLOAD or to error analysis. It is assumed that the JOTA checksum is no longer correct.

Action: If byte 0 of the HEX data contains the value 01, the other bytes output the layer number.

If byte 0 of the HEX data contains a value >01, then byte 1 outputs the exception code (supplied by RMX in response to CREAT_JOB), the other bytes output the name of the subsystem from the job table (JOTA). Save error message data and contact your next level of support.

F4233
CDR
PLAUS MAX LIMIT

Type:	Diagnosis-specific (Format 01)
Short text:	Error statistics overflow
Cause:	Too many plausibility errors within a certain time. The error statistics overflow.
Action:	Save error message data and contact your next level of support.

F4234
CDR
SYSTEM EXCEPTN HANDLER

Type:　　　　　　　Diagnosis-specific (Format 01)
Short text:　　　　　Error when processing the root job
Cause:　　　　　　The system exception handler was activated by an error.
Action:　　　　　　Find the cause with further error reports. Save error message data and contact your next level of support.

F4235
CDR
INIT ERROR

Type: Diagnosis-specific (Format 01)

Short text: Error in OS initialization

Cause: This error is reported to SYSLOAD, not to error analysis. The reaction is a hard restart.

Action: Check that the PABX has restarted. contact your next level of support if the system fails to restart.

F4236
CDR
BUSHANDLER QBLOCK S

Type: Diagnosis-specific (Format 01)

Short text: No free short container available

Cause: Bus handler (BH) reports that for a certain time the destination processor's dual-port RAM (DPR) did not have a short free container available to hold a message that was to be transmitted. The BH enables all the containers in the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the system program (SP) in its own processor has reset the block byte of the associated queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support. Check MBU firmware. Note related error messages.

F4237
CDR
BUSHANDLER QBLOCK L

Type: Diagnosis-specific (Format 01)

Short text: No free long container available

Cause: BH reports that for a certain time the destination processor's DPR did not have along free container available to hold a message that was to be transmitted. The BH enables all the containers of the associated command queue and disables this queue with its block byte. Containers are only chained to the command queue again after the SP in its own processor has reset the block byte of the associated queue with ON_W_RESET_QBLOCK.

Action: Not more than the first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support. Check MBU firmware. Note related error messages.

F4238
CDR
BROADCAST ON, NO ACK

Type: Diagnosis-specific (Format 01)

Short text: Broadcast not acknowledged by at least one MBU

Cause: The BROADCAST_ON order (order to all) from the active base processor (BP) to the message buffers (MBU) was not acknowledged punctually by at least one MBU. The error is reported in the active BP.

Action: Check the MBU boards and replace defective boards. In the HEX data, defective MBUs (if any) are stated first, the PIDs of such defective MBUs second. Save error message data and contact your next level of support.

F4239
CDR
BROADCAST OFF, NO ACK

Type: Diagnosis-specific (Format 01)
Short text: Broadcast not acknowledged by at least one MBU
Cause: The BROADCAST_OFF order from the active BP to the MBUs was not acknowledged punctually by at least one MBU. The error is reported in the active BP.
Action: Check the MBU boards and replace defective boards. In the HEX data, defective MBUs (if any) are stated first, the PIDs of such defective MBUs second. Save error message data and contact your next level of support.

F4240
CDR
BROADCAST LONG

Type: Diagnosis-specific (Format 01)
Short text: Message not retrieved by MBU
Cause: When long message was to be acknowledged by the base processor (BP) acting on behalf of the group processors (GP), it was found that this message had not yet been collected by at least one message buffer (MBU). The error is reported in the active BP.
Action: Check the MBU boards and replace defective boards. The first 64 bytes of the container that has not been transmitted are output in the HEX data. Save error message data and contact your next level of support.

F4241
CDR
GP IN BROADCAST MODE

Type: Diagnosis-specific (Format 01)

Short text: Processor communication error

Cause: During processor communication it was found at the receiving end (active BP) that the destination processor specified in the container was a GP currently affected by the load broadcast rather than the GP designated in the load broadcast. The error is reported in the active BP.

Action: The first 64 bytes of the transmitted container are output in the HEX data. Save error message data and contact your next level of support.

F4242
CDR
DESTINATION PROCESSOR

Type: Diagnosis-specific (Format 01)
Short text: Destination processor not available
Cause: During processor communication it was found at the receiving end (active BP) that the destination processor named in the container according to the directory table (DIR_TBL) was not available. The sender of the message was either a firmware processor or a data processor whose DIR_TBL was not consistent with the destination DIR_TBL.
Action: The first 64 bytes of the transmitted container are output in the HEX data. Save error message data and contact your next level of support.

F4245
CDR
MAILBX TIMER RESOURCES

Type: Diagnosis-specific (Format 01)

Short text: Not enough resources

Cause: After the timer had run down, the system was able to determine that the destination mailbox exists but that the message could not be transmitted due to lack of free memory.

Action: The timer message is output in the HEX data up to a length of 20 Bytes. Save error message data and contact your next level of support.

F4248
CDR
PROCESSOR INTERRUPT

Type:	Diagnosis-specific (Format 01)
Short text:	Interrupt
Cause:	SYSLOAD has processed or output an interrupt.
Action:	Save error message data and contact your next level of support.

F4250
DEP
IMPLAUSIBLE EVT CODE

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible event code
Cause:	Implausible event code.
Action:	Save error message data and contact your next level of support.

F4251
DEP
DISALL EVT CODE

Type:	Diagnosis-specific (several formats apply)
Short text:	Event code disallowed
Cause:	Event code valid but not allowed.
Action:	Save error message data and contact your next level of support.

F4252
DEP
IMPLAUSIBLE STATE

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible state
Cause:	Implausible state.
Action:	Save error message data and contact your next level of support.

F4253
DEP
UNEXP MESSAGE

Type:	Diagnosis-specific (several formats apply)
Short text:	Unexpected message
Cause:	Message not expected in the current state.
Action:	Save error message data and contact your next level of support.

F4254
DEP
IMPLAUSIBLE MESSAGE DATA

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data in the message.
Action:	Save error message data and contact your next level of support.

F4255
DEP
IMPLAUSIBLE PROC RET

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible return value
Cause:	Implausible return value received from a procedure.
Action:	Save error message data and contact your next level of support.

F4256
DEP
IMPLAUSIBLE PROC PARAM

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible parameter values
Cause:	Implausible parameter values in a procedure call.
Action:	Save error message data and contact your next level of support.

F4257
DEP
DBAR

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data for database access.
Action:	Reaction is a soft restart. Save error message data and contact your next

level of support.

F4258
DEP
STATIC DATA FAULT

Type: Diagnosis-specific (several formats apply)

Short text: Database inconsistent

Cause: Database inconsistencies detected during soft restart (ACTION=HREXSRRE).

Action: Reaction is a hard restart. Save error message data and contact your next level of support.

F4259
DEP
DYNAMIC DATA FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Implausible data (dynamic data) in memory.
Action:	Save error message data and contact your next level of support.

F4260
DEP
OS CALL FAULT

Type: Diagnosis-specific (several formats apply)
Short text: Negative exception code
Cause: Negative exception code for OS calls. In this error message the user address is the only place to find the relevant user as long as the call and exception codes refer directly to the OS call. The HEX data then reflects the last error analysis input message.
Action: Save error message data and contact your next level of support.

F4261
DEP
MTS CALL FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible data
Cause:	Software error in MTS handler call. Switching network set with

implausible data.

Action: Save error message data and contact your next level of support.

F4262
DEP
TIMEOUT FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Timer run down
Cause:	Timeout for expected response.
Action:	Save error message data and contact your next level of support.

F4263
DEP
MSG HEADER FAULT

Type:	Diagnosis-specific (several formats apply)
Short text:	Implausible message header
Cause:	Implausible message header.
Action:	Save error message data and contact your next level of support.

F4265
DEP
DEP SWU USER

Type:　　　　　　　Diagnosis-specific (several formats apply)

Short text:　　　　　Software error in SWU dependability.

Cause:　　　　　　The contents of the stack can be output in the HEX data with this message. In conjunction with a processor interrupt (F4298), the system outputs 5 messages whose **stack data** can be interpreted.

Action:　　　　　　Save error message data and contact your next level of support.

F4266
DEP
ADVISORY

Type: Diagnosis-relevant (several formats relevant)

Short text: Advisory message from the SW complex dependability system

Cause: The dependability system outputs advisory messages for different reasons. The messages are partially text-driven. Messages containing the following texts are RTO messages: The message text identifies the three different message types:

- Primary test error messages from the RTO.

- RTO test result after 'specific text jobs' by the error analysis system FA.

- Task messages from the error analysis system FA-RTO in the CC (e.g. check HWY's after LTG restart).

1. **Format 40:** Message contains the output (trace) of all messages to FA-RTO (LTG) in the supplementary data. The output at the operating terminal of messages to FA-RTO can be activated with the AMO DIAGS (FA switch 04):
   CHA-DIAGS:LTG..,FA,,,,,ON;

2. **Other formats:** Advisory message with different causes
   from other dependability system components; for example

   – Advisory message in the case of restart signaling with the last order for error analysis or basic restart signaling.

   – Advisory message for device control DC-CC with format C: e.g.
   *** MESSAGE ***
   SRMV EXECUTED FOR: LD:01-01-025-002
   This message indicates that after soft blocking, the relevant unit, e.g. record is **now permanently** blocked. The subscriber cannot be sure that the relevant unit is no longer seized by the switching system until this message is received. This message always comes first for the unit (board, trunk, terminal) for which a soft lock (preliminary lock) was set.

Remark: If a preliminary lock was set with an AMO, additional maintenance activates should not be performed until this message is received.

Action:

For more information, see F4464, if output in F4266 as text before the PROCESSOR LOAD status data.

Format 40: Evaluate supplementary data.

Other format: Save error message data and contact your next level of support.

Interpretation of auxiliary data:

Format 41: Restart reasons will be output in plaintext in SP300E-V1.0/R6.4 and later. In SP300-V3.4/R6.3 and earlier, the restart reasons are output with max. 3 bytes of supplementary data. This data is to be interpreted as follows:

00:    Power on

01:    Reload

02:    Hard Restart

03:    Soft Restart

04:    Reset Button

Format 40:

Byte 0	Destination task	
Byte 1	Source task	
	40	FA Main task
	4D	RTO TASK FA periphery
	4E	RTO TASK AM
	4F	RTO TASK RA central
	50	RTO TASK RA periphery 1
	51	RTO TASK RA periphery 2
	52	RTO TASK RA periphery 3
Byte 2	Processor number	
Byte 3	Counter	
Byte 4	FA event	
	2D	RTO
Byte 5	FA subevent code	
	00	RTO EP
	01	ZD LTU-HWY
	02	ZD CSN-HWY

	03	ZD SIU-DTO
	04	ZD SIU-PTO
	05	ZD SIU-CS/CR
	06	ZD CIR
	07	ZD SIUP-CS/CR
	08	ZD SIU-TST
	10	LTG start
	14	ZD TERM
Byte 6-7	LTG LINE	
Byte 18	LTG	
Byte 19	LTU	
Byte 20	PBC	
Byte 21	CIR	
Byte 22	B-channel	
Byte 23	Loop back	
Byte 24	Highway	
Byte 25	Timeslot	
Byte 28	First RTO event	
Byte 29	Curr RTO event	
Byte 30	User	
	00	FA
	01	RA
	02	AM
	03	TDS
	04	EEA
Byte 31	Response event	
	2D	RTO
Byte 32	Test Result	

05	Test O.K.
09	Loop data error
0A	Status word ERROR
0D	Time error (timeout)
0E	Tone error
0F	No change error

F4293
DEP
POSTLOAD ACTION

Type: Diagnosis-specific (Format 23)

Short text: Postloading active

Cause: If defective boards are detected during loading, a second attempt is made to start the boards with a postloading run.

Action: Check that error message F4294 is output (indicates that postloading has been completed).

F4294
DEP
POSTLOAD END

Type:	Diagnosis-specific (Format 00)
Short text:	Postloading completed
Cause:	Postloading is completed.
Action:	Save error message data and contact your next level of support.

F4298
DEP
PROCESSOR INTERRUPT

Type:	Diagnosis-specific (Format 01)
Short text:	Interrupt
Cause:	Sysload or interrupt handler has processed or output an interrupt.
Action:	Save error message data and contact your next level of support.

F4352
REC
COMMON ERROR

Type: Diagnosis relevant (Format 24)
Short text: Recovery error occurred when saving connection data.
Cause: Save, unsave, save process, recovery. General recovery error occurred when saving connection data. Error message indicates a number of diverse "less serious" recovery errors. The interpretation of the hexadecimal data for this message provides more detailed information about these diverse errors. Display on MAP: "AL1/SX", IOPA: "C3/C4" is illuminated (SP300-V3.1 and later, see alarm concept).
Action: Save error message data and contact your next level of support. Additional traces are required, depending on the completeness of the data and the errors reported. A trace with the following trace requirements should be performed (duplex):
Standby trace CC on: ST = 6C (CP) and DT = 5A (Sipro-CC)
Standby trace LTG on: ST = 5A (Sipro-CC) and DT = 5B (Sipro-LTG). The length of the trace data should be 300 bytes.
Interpretation of auxiliary data:

The supplementary data is based on the structure DB_M_QF_EVENT_STR. Starting with byte 5, the structure is DB_M_QF_SEV_REC_STR.

In HiPath 4000 V1.0 and later, several of the these related messages are displayed when certain errors occur and usually contain the data for device A and device B. Within the structure DB_M_QF_SEV_REC_STR, the device data is described by the DB_M_QS_SILI_POOL_STR as of byte 47. Byte 15/16 shows the number of part messages and the actual number of messages. Similarly, byte 42 provides information on the type of message data (DEV_A, DEV_B: data for device A or B; DEV_A_ALT, DEV_B_ALT: data for device A or B of the previous connection).

In HiPath 4000 V2.0 and later, the DB_M_QF_SEV_REC_STR was modified so that only a maximum of 6 partial messages can now be displayed. In this case, the first three partial messages describe the data of device A, and the next 3 describe the data of device B (all with an identical MESSAGE-ID).

> The byte offsets listed below are only valid till HiPath 4000 V1.0 and will no longer apply as of HiPath 4000 V2.0.

Data initialized with H'FF is basic initialization data and, therefore, does not have to be evaluated. The device PEN is explicitly displayed in the error message header. The most important data of this message is listed below. This can be used to make preliminary clarifications on site regarding the type of connection and the devices involved. A product specialist must be consulted for a more detailed analysis.

Byte 0 = Destination task

Byte 1 = Source task

Byte 5 = Subevent (DB_M_QF_SEV_REC_SET)

Device data:

Byte 9-10	=	Offset (error message code)
Byte 11-12	=	Base
Byte 15	=	MSG_NO
Byte 16	=	MSG_TOTAL
Byte 42	=	ERR_DATA_TYPE
	01	DB_QS_ERR_DATA_DEV_A
	02	DB_QS_ERR_DATA_DEV_B
	03	DB_QS_ERR_DATA_DEV_A_ALT
	04	DB_QS_ERR_DATA_DEV_B_ALT
Byte 47	=	The following data can only be analyzed and is only valid if byte 47 = 00 (SILI_STRUCT_TYP = NORM)
Byte 51	=	SAVE_TYP
	00	NORM
	01	NORM_STBY
	02	ACD_1
	03	ACD_NW_1
	04	ACD_ACL_NW_1
	05	ACD_A
	06	ACD_ACL_A
	07	ACD_INT_A
	08	ATT_A
	09	ATT_B
	0A	CR_DISC
	0B	CR_REL
	0C	GEN_1PTY
	0D	GEN_2PTY
	0E	ACD_2PTY
	F0	VOICE_CALL

		10	UNDEFINED
		11	-
		12	-
		13	-
		14	-
		15	TSC
Byte 52-55	=	(LODAD_PACKED)	
Byte 52-53	=	LODAD LTG_LINE	
Byte 54	=	LODAD SU	
Byte 55	=	LODAD DI (CRI)	
Byte 56	=	CP Type DB_M_CP_DEVICE_TYPE_SET	
		02	DB_CP_DEVTYP_ANALOG_EG
		08	DB_CP_DEVTYP_DCI_EG
		14	DB_CP_DEVTYP_TMA_AMT
		15	DB_CP_DEVTYP_TMD_AMT_ISDN
		16	DB_CP_DEVTYP_TMD_VERB_ISDN
		1B	DB_CP_DEVTYP_TMA_VERB
		1D	DB_CP_DEVTYP_DIGITE_SUB_A
		2D	DB_CP_DEVTYP_SB_FKT_EG
		3B	DB_CP_DEVTYP_TMA_NW_ANALOG
Byte 57	=	CP State	
Byte 58-59	=	LODEN_EIGEN	
Byte 60-61	=	LODEN_PARTNER	
Byte 62-67	=	SILI_BITS (bit 0 of byte 63 is GERAET_A_FLAG)	
Byte 68	=	Service Indicator (SI)	
Byte 69	=	Path Type	
		00	NO ENTRY
		01	HALFPATH
		02	FULLPATH
Byte 70	=	B channel	
Byte 71-72	=	TSL_EIGEN (TSL / HWY)	
Byte 73-74	=	TSL_PARTNER (TSL / HWY)	

Byte 116-117 = COSTI_INDEX

Byte 140-148 = (DNIL_DATA)

Byte 140 = NPCI N_SHELF

Byte 141 = NPCI N_NR

Byte 142 = CODEC_TYPE

Byte 143 = ASC_ATTRIB

Byte 144-145 = STMI_ADDR

Byte 146-148 = AUX_HTSL (TSL / HWY)

Byte 149 = CBM_TYPE

Interpretation of the supplementary data is dependent on CP type (byte 56)

Supplementary data for digital networking (for byte 18 = 14, 15, 16, 1B, 3B, 3D, 3E, 42)

Byte 171-175 = CR_EXTERN   (Word (2) / Len (1) / Byte-Ary (2))

Byte 176 = CR_INTERN

Byte 177 = PD (DB_M_NW_PD_SET)

Supplementary data for functional terminals (for byte 18 = 2D)

Byte 171-172 = CR_EXTERN   (Byte-Ary (2))

Byte 173 = CR_LAENGE

Byte 174-175 = Handset LODEN

Byte 177 = CES

Byte 178 = EAZ

Supplementary data for DCI terminals (for byte 18 = 08)

Byte 173 = CR_EXTERN

Byte 174 = CES

Byte 175 = TSI

F4353
REC
INCONSISTENT

Type: Diagnosis-specific (Format 24)

Short text: Inconsistency in save list

Cause: This error message occurs when an inconsistency is detected in the save list (entry of established connections). This list is checked while saving, deleting and re-establishing connection data. The inconsistency is usually that only one data record (instead of a pair) exists in the save file, or that partner references are either incomplete or missing. This error leads to a soft restart.

Action: Save error message data and contact your next level of support.

Interpretation of auxiliary data: Structure of the auxiliary data same as for F4352.

F4355
REC
NO DCL RESPONSE

Type: Diagnosis-specific (Format 24)

Short text: DCL board defective

Cause: After a soft restart the DCL (data communication link) is prompted to poll the peripherals again. If it fails to respond, this error message will activate a hard start (DCL may be defective).

Action: Replace DCL if defective. If this does not work, save error message data and contact your next level of support.

F4376
REC
NO CPB AVAILABLE

Type:	Diagnosis-specific (Format 24)
Short text:	No call processing buffer available
Cause:	No call processing buffer available.
Action:	Save error message data and contact your next level of support.

Interpretation of auxiliary data: Structure of the auxiliary data same as for F4352.

F4377
REC
NO CP RESPONSE

Type:	Diagnosis-specific (Format 24)
Short text:	No acknowledgment from call processing
Cause:	No acknowledgment from call processing (only for 3000 systems).
Action:	Save error message data and contact your next level of support.

F4378
REC
NO MBU RESPONSE

Type: Diagnosis-specific (Format 24)
Short text: No acknowledgment received from message buffer unit
Cause: No acknowledgment received from message buffer unit(s) (MBUs).
Action: Check the connections (bus cable) and replace the MBU board(s) if
defective. If this does not work, save error message data and contact your next level of
support.

F4379
REC
NO PP RESPONSE

Type:	Diagnosis-specific (Format 24)
Short text:	No acknowledgment from peripheral processing
Cause:	No acknowledgment from peripheral processing.
Action:	Save error message data and contact your next level of support.

F4380
REC
NO LTG RESPONSE

Type:	Diagnosis-specific (Format 42)
Short text:	No response from LTG
Cause:	No response from (one) LTG.
Action:	Check connecting cables to see whether LTG has really failed.

F4382
REC
NO LTG RESPONDING

Type: Diagnosis-specific (Format 42)

Short text: No serviceable line trunk group

Cause: No serviceable line trunk group (LTG) found, soft restart of common control (SR CC).

Action: Check reason why no functioning LTG can be found. Often, this is due to the CC undergoing a soft restart after a voltage drop. If this is not the case, check the MBU board. If you cannot find the cause, save the error message data and contact your next level of support.

F4383
REC
LTG DEF

Type: Diagnosis-specific (Format 42

Short text: LTG does not start

Cause: LTG does not start. Possible power supply problems (incompatible partial voltages).

Action: Check the LTG hardware (boards, bus cable). Old hardware versions: check that the Faston connectors on the backplane are locked in correctly.

F4384
REC
ADMIN TAB IMPLAUSIBLE

Type: Diagnosis-specific (Format 24)

Short text: Implausibility in line trunk group

Cause: Implausible data found in recovery status management during soft restart in line trunk group (SR LTG).

Action: Initiate a soft restart, hard restart or reload of the LTG. If this does not work, save the error message data and contact your next level of support.

F4385
REC
END CC SOFT RESTART

Type:	Diagnosis-specific (Format 24)
Short text:	End of soft restart (advisory)
Cause:	End of common control soft restart (SR CC).
Action:	If you cannot find the cause of the CC soft restart, save the error

message data and contact your next level of support.

F4386
REC
END LTG SOFT RESTART

Type:	Diagnosis-specific (Format 42)
Short text:	End of soft restart (advisory)
Cause:	End of line/trunk group soft restart (SR LTG).
Action:	If you cannot find the cause of the LTG soft restart, save the error

message data and contact your next level of support.

F4387
REC
END CC SR CLEAN-UP

Type: Diagnosis-specific (Format 24)

Short text: Connection release end message (advisory)

Cause: End message of connection release during soft restart of common control (SR CC). Full CP operation ensured as of now.

Action: If you cannot find the cause of the CC soft restart, save the error message data and contact your next level of support.

F4388
REC
END LTG SR CLEAN-UP

Type:　　　　　　　　Diagnosis-specific (Format 42)

Short text:　　　　　　End of connection release (advisory)

Cause:　　　　　　　End of connection release during SR of LTG. Full CP operation in LTG
ensured as of now.

Action:　　　　　　　If you cannot find the cause of the LTG soft restart, save the error
message data and contact your next level of support.

F4389
REC
LTG SOFT RESTART ABORT

Type:	Diagnosis-specific (Format 42)
Short text:	SR of LTG aborted
Cause:	SR of LTG was aborted (advisory).
Action:	Initiate a soft restart, hard restart or reload of the LTG, if this does not

work, save the error message data and contact your next level of support.

F4390
REC
END SBR LTG

Type:	Diagnosis-specific (Format 42)
Short text:	End message from standby restoration (advisory)
Cause:	End message from standby restoration of LTG.
Action:	If you cannot find the cause of the standby restoration, save the error

message data and contact your next level of support.

F4391
REC
END SBR CC

Type:	Diagnosis-specific (Format 24)
Short text:	End message from standby restoration (advisory)
Cause:	End message from standby restoration of common control (CC).
Action:	If you cannot find the cause of the standby restoration, save the error

message data and contact your next level of support.

F4392
REC
END SBR CSN

Type: Diagnosis-specific (Format 42)

Short text: End message from standby restoration (advisory)

Cause: End message from standby restoration of central switching network (CSN). Message only for H3000 systems.

Action: If you cannot find the cause of the standby restoration, save the error message data and contact your next level of support.

F4397
REC
PD INVALID

Type: Diagnosis relevant (Format 24)

Short text: The protocol discriminator (PD) cannot be converted.

Cause: Error is detected during a soft restart or when saving. A default PD value is entered. The error may be caused by using the AMO PRODE.

Action: Save error message data and contact your next level of support. The product specialist will help you to run a call processing trace on the corresponding trunk or PEN.

Interpretation of auxiliary data:

The supplementary data structure is the same as for F4352, with the exception that there is no B device data available.

> The byte offsets listed below are only valid till HiPath 4000 V1.0 and will no longer apply as of HiPath 4000 V2.0.

Byte 177 = PD (DB_M_NW_PD_SET)

F4398
REC
NO NW DYN DEV TABLE DH

Type:	Diagnosis-specific (Format 24)
Short text:	No device memory
Cause:	No device memory DH pool element available for an NW circuit. Error is

detected during a current soft restart or SAVE procedure and leads to a hard restart in the relevant LTG.

Action: Save error message data and contact your next level of support.

Interpretation of auxiliary data: The auxiliary data has the same structure as F4352, with the difference that no B-device data is available.

F4399
REC
NO GSP

Type:	Diagnosis-specific (Format 24)
Short text:	No device memory
Cause:	This error occurs if the dynamic device memories cannot be accessed

while saving, deleting and restoring the established connection data. This error leads to a soft restart.

Action:	Save error message data and contact your next level of support.

F4400
VECO
DEV CP, BAD SEIZURE

Type: Diagnosis relevant (Format 24)

Short text: Blocked device in the device memory.

Cause: Blocked device in the call processing (CP) device memory. The CPH bit is set but the device is in the "idle" state in the device handler (DH) and in preprocessing (PP). An activation message is sent to call processing.

System reaction: The CP device memory has been enabled by VECO.

Action: Save error message data and contact your next level of support.

> VECO error messages can be analyzed more accurately by accelerating the VECO system in a laboratory test (AMO DIAGS). There is a very high risk attached to the acceleration of the VECO system in a running customer system. This process may only be performed, therefore, following consultation with the product specialists. Please note also that the acceleration of the VECO system produces side effects and error profiles that are a direct result of this acceleration process. Example: A subscriber who has idle status for more than approx. 2-4 minutes is activated by the VECO system.

The supplementary data is based on the structure DB_M_QF_EVENT_STR. Starting with byte 5, the structure is DB_M_QF_SEV_VECO_STR. Data initialized with H'FF is basic initialization data and, therefore, does not have to be evaluated. The device PEN is displayed explicitly in the header of the error message. The most important data of this message is listed below. This can be used to make preliminary clarifications on site regarding the type of connection and the devices involved. A product specialist must be consulted for a more detailed analysis.

Byte 0	=	Destination task
Byte 1	=	Source task
Byte 5	=	Subevent
		(start of DB_M_QF_SEV_VECO_STR)
		Byte 5 = values not equal to 14/15
Byte 6-7	=	Offset (error message code)
Byte 8-9	=	Base
Byte 12-15	=	(LODAD_PACKED)
Byte 12-13	=	LODAD_PACKED.LTG_LINE
Byte 14	=	LODAD_PACKED.SU
Byte 15	=	LODAD_PACKED.DI (CRI)
Byte 16-19	=	(LODAD_BOARD)
Byte 16-17	=	LODAD_BOARD.LTG_LINE
Byte 18	=	LODAD_BOARD.SU
Byte 19	=	LODAD_BOARD.DI (CRI)

Byte 22	=	CP LineType
Byte 23	=	CP MultLineType
Byte 24	=	CP BusType
Byte 25-26	=	LODEN
Byte 27-28	=	Dynamic LODEN
Byte 29	=	CP Device Type
Byte 30	=	CP State
Byte 31	=	FEATURE_CODE
Byte 32	=	FEATURE_STATE
Byte 33-43	=	FEATURE_STACK
Byte 44-46	=	QC Status (Powerset)
Byte 47	=	DEP Info (Powerset)
Byte 48	=	Station Number.Length
Byte 49-54	=	Station Number.Digits
Byte 55-56	=	DTI
Byte 57-58	=	Dynamic DTI
Byte 59	=	DH Device Type
Byte 60	=	DH State Actual
Byte 62-63	=	VT Sequence No.
Byte 65-66	=	Conference Number
Byte 70	=	DH State Old
Byte 73	=	CBM TYPE PERIPHERY
Byte 74	=	CBM TYPE CC
Byte 75-80	=	LW CBM COUNTERS
Byte 81-86	=	CC CBM COUNTERS
Byte 87-89	=	CBM PATH
Byte 90-98	=	AP CONNECTION DATA

F4401
VECO
DEV DH, BAD SEIZURE

Type: Diagnosis-specific (Format 26)
Short text: Blocked device in device memory
Cause: Blocked device found in device handler device memory (DH), i.e. the
device handler bit is set but the same device is in idle state in the call processing device
memory (CPH).
Action: Save error message data and contact your next level of support.
Interpretation of auxiliary data: Auxiliary data has same structure as for F4400.

F4402
VECO
BAD LINE PATH SEIZURE

Type: Diagnosis-specific (Format 24)
Short text: Blocked short path
Cause: Blocked short path found, i.e., path seized but no associated device can be identified. Auxiliary data may point to cause (DH Device Type). The appropriate bit for the blocked short path is reset in the device memory.
Action: Save error message data and contact your next level of support.
Interpretation of auxiliary data: Auxiliary data has same structure as for F4400.

F4403
VECO
B-CHAN, BAD SEIZURE

Type: Diagnosis-specific (Format 24)
Short text: Blocked B-channel
Cause: Blocked B-channel found without associated device. The appropriate bit
for the blocked B-channel is reset in the device memory.
Action: Save error message data and contact your next level of support.
Interpretation of auxiliary data: Auxiliary data has same structure as for F4400.

F4404
VECO
CODE RCVR, BAD SEIZURE

Type: Diagnosis-specific (Format 24)
Short text: Blocked code receiver
Cause: Blocked code receiver found without associated device. The appropriate
bit for the blocked code receiver is reset in the device memory.
Action: Save error message data and contact your next level of support.

F4405
VECO
DIALTONE RCVR,BAD SEIZ

Type:	Diagnosis-specific (Format 24)
Short text:	Dial tone receiver
Cause:	Blocked dial tone receiver found without associated device. The

appropriate bit for the blocked dial tone receiver is reset in the device memory.

Action: Save error message data and contact your next level of support.

F4406
VECO
CONF, BAD SEIZURE

Type:	Diagnosis-specific (Format 24)
Short text:	Blocked conference status byte
Cause:	Blocked conference user found without associated devices. The

appropriate bit for the blocked conference user is reset in the device memory and the circuit is released.

Action:	Save error message data and contact your next level of support.

F4407
VECO
NO DH ANSWER

Type:	Diagnosis relevant	(Format 24)
Short text:	No response to test job	
Cause:	No response to test performed by device handler (DH). Timeout (5 min.)	

elapsed. The error can be caused by board loadware (LW) which does not provide confirmation.

Action: Save error message data and contact your next level of support.

The supplementary data structure is the same as for F4400. If LODEN (bytes 25-26) and dyn. LODEN (bytes 27-28) have the H'9999 value, then there was a delayed DH confirmation after the timeout.

F4408
VECO
LTG RESET ERROR

Type:	Diagnosis-specific (Format 42)
Short text:	LTG reset task not completed
Cause:	One of the reset tasks in the LTG has not completed, e.g. due to timeout.

In 3000 systems, the LTG carries out a soft restart.

Action:	Save error message data and contact your next level of support.

F4410
VECO
CP INCONSISTENT

Type:	Diagnosis-specific (Format 24)
Short text:	Inconsistent CP Statuses
Cause:	Status of sub-unit (SU) and main device inconsistent. This error message

only concerns attendant consoles. A release message is sent to the call processing device memory in these cases.

Action:	Save error message data and contact your next level of support.

Interpretation of auxiliary data: Auxiliary data has same structure as for F4400.

F4411
VECO
CODE SENDER, BAD SEIZ

Type: Diagnosis-specific (Format 24)

Short text: Blocked code transmitter

Cause: Blocked code transmitter found in the device handler. The appropriate bit for the blocked code transmitter is reset in the device memory.

Action: Save error message data and contact your next level of support.

F4412
VECO
CONS TEST ERROR

Type: Diagnosis-specific (Format 24)

Short text: Inconsistencies in memories

Cause: Inconsistencies detected when comparing the device search memory
with the device memory. The appropriate bit is reset in the device search memory.

Action: Save error message data and contact your next level of support.

Interpretation of auxiliary data: Auxiliary data has same structure as for F4400.

F4413
VECO
MFC SEND/RCVR,BAD SEIZ

Type: Diagnosis-specific (Format 24)
Short text: Blocked MFC transmitter/receiver
Cause: Blocked MFC transmitter or MFC receiver found in the device handler. The
appropriate bit for the blocked MFC transmitter/receiver is reset in the device memory.
Action: Save error message data and contact your next level of support.

F4414
VECO
CC RESET ERROR

Type:	Diagnosis-specific (Format 24)
Short text:	CC reset task not completed
Cause:	A common control (CC) reset task has not completed.
Action:	Save error message data and contact your next level of support.

F4415
VECO
NW CR, BAD SZ

Type: Diagnosis-specific (Format 24)
Short text: LODEN/DTI entry missing
Cause: A call reference is allocated in a digital NW circuit, but no corresponding
LODEN/ DTI entry exists. The VECO resets the appropriate bit for the call reference.
Action: Save error message data and contact your next level of support.
Interpretation of auxiliary data: Auxiliary data has same structure as for F4400.

F4416
VECO
NW CR CP, BAD SZ

Type: Diagnosis-specific (Format 24)
Short text: No valid LODEN
Cause: No logical device number is found for an allocated call reference in the
CP device memory. The VECO resets the appropriate bit for the call reference.
Action: Save error message data and contact your next level of support.
Interpretation of auxiliary data: Auxiliary data has same structure as for F4400.

F4417
VECO
NW CR DH, BAD SZ

Type: Diagnosis-specific (Format 24)

Short text: No valid DTI

Cause: No valid DTI is found for an allocated call reference in the DH device memory. The VECO resets the appropriate bit for the call reference.

Action: Save error message data and contact your next level of support.

Interpretation of auxiliary data: Auxiliary data has same structure as for F4400.

F4418
VECO
SB CRI CP BADSZ

Type:	Diagnosis-specific (Format 24)
Short text:	No valid LODEN
Cause:	No valid LODEN can be found for a functional terminal with the allocated

call reference in the CP device memory. The VECO resets the appropriate bit for the call reference.

Action:	Save error message data and contact your next level of support.

Interpretation of auxiliary data: Auxiliary data has same structure as for F4400.

F4419
VECO
SB CRI DH BADSZ

Type: Diagnosis-specific (Format 24)
Short text: No valid DTI
Cause: No valid DTI is found for a functional terminal with the allocated call reference in the DH device memory. The VECO resets the appropriate bit for the call reference.
Action: Save error message data and contact your next level of support.
Interpretation of auxiliary data: Auxiliary data has same structure as for F4400.

F4420
VECO
BAD LINK PATH SEIZURE

Type: Diagnosis-specific (Format 24)
Short text: Blocked long path
Cause: Blocked long path found, i.e., path seized but no associated device can
be identified. Auxiliary data may point to cause (CP Device Type). The appropriate bit for the
blocked long path is reset in the device memory.
Action: Save error message data and contact your next level of support.
Interpretation of auxiliary data: Auxiliary data has same structure as for F4400.

F4421
VECO
STATISTIC CC

Type: Diagnosis relevant (Format 24)
Short text: Statistics threshold value exceeded
Cause: Once the statistics threshold value of a VECO error class has been reached, all error counters are listed according to their CP device type. CC error counters, that are only registered together in CC, are at the beginning of the statistics data.
Action: Overflow-causing messages are printed in advance. Save error message data and contact your next level of support.

> VECO statistics can be activated or implemented with the AMO PSTAT.

The supplementary data is configured as follows:

Byte 0	=	Destinationtask
Byte 1	=	Sourcetask
Byte 5	=	Subevent

(Start of DB_M_QF_SEV_VECO_STR)

Byte 5 = 14

(VECO_STATIST_CC)

Byte 6-7	=	Offset (error message code)
Byte 8-9	=	Base
Byte 12	=	CP_ERR_CLASS
Byte 13-24	=	(CP_LAST_RESET)
Byte 13	=	Hours
Byte 14	=	Minutes
Byte 15	=	Seconds
Byte 18	=	Day
Byte 19	=	Month
Byte 20-21	=	Year
Byte 25	=	CP_BCHL_CNTR
Byte 26	=	CP_NW_CR_CNTR
Byte 27	=	CP_SB_CRI_CNTR
Byte 28-118	=	CP_CNTR

ARRAY (DB_M_CP_DEVICE_TYPE_SET)

F4422
VECO
STATISTIC LTG

Type:	Diagnosis relevant	(Format 24)
Short text:	Statistic threshold value exceeded	

Cause: Once the statistics threshold value of a VECO error class has been reached, all error counters are listed according to their DH device types. The DH error counters, that are only registered together in the LTG, are at the beginning of the statistic data.

Action: Overflow-causing error messages are printed in advance. Save error message data and contact your next level of support.

> VECO statistics can be activated or implemented with the AMO PSTAT.

The supplementary data is configured as follows:

Byte 0	=	Destinationtask
Byte 1	=	Sourcetask
Byte 5	=	Subevent
		(Start of DB_M_QF_SEV_VECO_STR)
		Byte 5 = 15 (VECO_STATIST_LTG)
Byte 6-7	=	Offset (error message code)
Byte 8-9=		Base
Byte 12	=	DH_ERR_CLASS
Byte 13-24	=	(DH_LAST_RESET)
Byte 13	=	Hours
Byte 14	=	Minutes
Byte 15	=	Seconds
Byte 18	=	Day
Byte 19	=	Month
Byte 20-21	=	Year
Byte 25	=	DH_NW_CR_CNTR
Byte 26	=	DH_SB_CRI_CNTR
Byte 27	=	DH_SIU_CNTR
Byte 28-118	=	DH_CNTR
		ARRAY (DB_M_DH_GERAETE_TYPE_SET)

F4424
VECO
CPB, BAD SEIZURE

Type:	Diagnosis relevant	(Format 24)
Short text:	Blocked call processing buffer found	
Cause:	The call processing buffer was not enabled when a connection was	

cleared down by the switch.

System reaction: Call processing buffer is enabled by VECO.

Action: If this error occurres more than 10 times per day, save error message data and contact your next level of support. Determine the connected device using the PEN specified in the system configuration.

Byte 0	=	Destinationtask
Byte 1	=	Sourcetask
Byte 5	=	Subevent
		(Start of DB_M_QF_SEV_VECO_STR)
		Byte 5 = 17 (VECO_CPB_FBEL)
Byte 6-7	=	Offset (Code position of error message)
Byte 8-9	=	Base
Byte 12-15	=	(LODAD_PACKED)
Byte 12-13	=	LODAD_PACKED.LTG_LINE
Byte 14	=	LODAD_PACKED.SU
Byte 15	=	LODAD_PACKED.DI (CRI)
Byte 16-17	=	CPB_INDEX
Bytes 18-175	=	Structure of MODE DB_M_DIAG_CPB_DATA_STR
Bytes 176-187	=	Structure of MODE DB_M_CPB_DIAGNOSIS_STR. This data is only valid, if CP diagnosis switch 14 is set.

F4425
VECO
CBM RESOURCE PER BADSZ

Type: Diagnosis relevant   (Format 24)
Short text: Bad CBM seizure in periphery.
Cause: There is no corresponding CBM seizure in CC to an existing CBM seizure
in periphery.
System reaction: VECO releases the resource.
Action: Save error message data and contact your next level of support.
Interpretation of auxiliary data: For analysing the data see F4400.

F4426
VECO
CBM RESOURCE CC BADSZ

Type: Diagnosis relevant (Format 24)

Short text: Bad CBM seizure in CC.

Cause: There is no corresponding CBM seizure in periphery to an existing CBM seizure in CC.

System reaction: VECO releases the resource.

Action: Save error message data and contact your next level of support.

Interpretation of auxiliary data: For analysing the data see F4400.

F4427
VECO
CBM RESOURCE TSL BADSZ

Type: Diagnosis relevant   (Format 24)
Short text: Defective CBM seizure of HWY/TSL.
Cause: CBM is seized for a path but the device table for the corresponding
LODEN is not seized anymore or the LODEN is invalid.
System reaction: VECO enables the resource.
Action: Save error message data and contact your next level of support.
Interpretation of auxiliary data: For analysing the data see F4400.

F4428
VECO
CBM NO PERI ANSWER

Type: Diagnosis relevant   (Format 24)
Short text: No answer from LW to VECO request.
Cause: The loadware of the affected board (e.g. LTUCC, NCUI) does not respond
on a request of VECO.
System reaction: Only signaling.
Action: Save error message data and contact your next level of support.
Interpretation of auxiliary data: For analysing the data see F4400.

F4429
VECO
EXT PERI BADSZ

Type: Diagnosis relevant   (Format 24)

Short text: Bad seizure for external connections on peripheral board.

Cause: VECO detected that there are bad seizures in periphery (NCUI) for
connections to the external network.

System reaction: VECO releases the bad connections.

Action: Save error message data and contact your next level of support.

Interpretation of auxiliary data: For analysing the data see F4400.

F4430
VECO
INT PERI BADSZ

Type: Diagnosis relevant (Format 24)

Short text: Bad seizure for internal connections on peripheral board.

Cause: VECO detected that there are bad seizures in periphery (NCUI) for internal connections.

System reaction: VECO releases the bad connections.

Action: Save error message data and contact your next level of support.

Interpretation of auxiliary data: For analysing the data see F4400.

F4431
VECO
EXT CC BADSZ

Type: Diagnosis relevant   (Format 24)
Short text: Bad seizure for external connections in CC.
Cause: VECO detected that there are bad seizures in CC for connections to the
external network.
System reaction: VECO releases the bad connections.
Action: Save error message data and contact your next level of support.
Interpretation of auxiliary data: For analysing the data see F4400.

F4432
VECO
INT CC BADSZ

Type:	Diagnosis relevant	(Format 24)
Short text:	Bad seizure for internal connections in CC.	
Cause:	VECO detected that there are bad seizures in CC for internal connections.	
System reaction:	VECO releases the bad connections.	
Action:	Save error message data and contact your next level of support.	

Interpretation of auxiliary data: For analysing the data see F4400.

F4450
SYS
OVERLOAD

Type:	Diagnosis-specific (Format 00)
Short text:	Call processing buffer shortage
Cause:	Call processing (CP) reports a call processing buffer (CPB) shortage. CPBs

are used for storing the connection data for established connections. A resource shortage of this type either means that the system traffic capacity is exhausted (too many connections), or indicates a program error. The system responds by rejecting all further initial seizure attempts while the CPB shortage continues.

Action: Check which acknowledgment message is output, F4451 or F4452. If this error occurs repeatedly, the following actions are necessary:

Frequent occurrence in conjunction with F4452 usually indicates a program error. Save the error message data and contact your next level of support.

Frequent occurrence in conjunction with F4451 may mean that the system cannot cope with peak traffic requirements, i.e. the system traffic capacity was not properly dimensioned. Check whether this may be the case before assuming a program error.
Use the ZAND AMO to monitor the number of call processing buffers seized over a specific time (upper/lower threshold values can also be modified), or use the DIMSU AMO to display the current values.

F4451
SYS
END OF OVERLOAD

Type:	Diagnosis-specific (Format 00)
Short text:	End of call processing buffer shortage
Cause:	Call processing (CP) reports end of call processing buffer (CPB) shortage,

i.e., connections have been terminated and the associated call processing buffers have been released.

System reaction:	system permits new seizures.
Action:	See F4450.

F4452
SYS
OVERLOAD SUPV. TIMEOUT

Type:	Diagnosis-specific (Format 00)
Short text:	No end of CPB shortage
Cause:	End of CPB shortage is not reported within a specific interval.
System reaction:	system reacts with a restart.
Action:	See F4450.

F4453
SYS
CP MBX OVERLOAD

Type:	Diagnosis-specific (Format 00)
Short text:	CP mailbox overload
Cause:	The number of allocated CP event buffers in the PP/DH pool exceeds a

specified threshold (overload strategy).

System reaction:	system activates overload safeguard routine.
Action:	Check which acknowledgment message is output, F4454 or F4455.

F4454
SYS
CP MBX OVERLOAD END

Type: Diagnosis-specific (Format 00)
Short text: End of CP mailbox overload
Cause: The number of allocated CP event buffers in the PP/DH pool has dropped
back below the specified threshold (overload strategy). Positive acknowledgment of F4453.
System reaction: system deactivates overload safeguard routine.
Action: No action necessary.

F4455
SYS
CP MBX SUPV. TIMEOUT

Type:	Diagnosis-specific (Format 00)
Short text:	No end of CP mailbox overload
Cause:	End of CP mailbox overload is not reported within a specific interval

(F4454).

System reaction:	system reacts with a restart.
Action:	If this error message occurs frequently, save the error message data and

contact your next level of support.

F4456
SYS
DYNAMIC OVERLOAD

Type: Diagnosis-specific (Format 00)
Short text: Start of dynamic overload
Cause: Start of dynamic overload (processor overload).
System reaction: all further initial seizure attempts are rejected.
Action: Check that positive acknowledgment is output (F4457). Save error message data and contact your next level of support.

F4457
SYS
END OF DYNAM. OVERLOAD

Type:	Diagnosis-specific (Format 00)
Short text:	End of dynamic overload
Cause:	End of dynamic overload (processor overload).
System reaction:	system permits new seizures.
Action:	Positive acknowledgment of F4456.

F4458
SYS
DH MBX OVERLOAD

Type:	Diagnosis-specific (Format 00)
Short text:	DH mailbox overload
Cause:	The number of buffer elements used in the PP/DH receive pool exceeds a specified threshold (overload strategy).
System reaction:	system activates overload safeguard routine.
Action:	Check which acknowledgment message is output, F4459 or F4460.

F4459
SYS
DH MBX OVERLOAD END

Type: Diagnosis-specific (Format 00)
Short text: End of DH mailbox overload
Cause: The number of buffer elements used in the PP/DH receive pool has
dropped back below the specified threshold (overload strategy). Positive acknowledgment of
F4458.
System reaction: system deactivates overload safeguard routine.
Action: No action necessary.

F4460
SYS
DH MBX SUPV. TIMEOUT

Type:	Diagnosis-specific (Format 00)
Short text:	No end of DH mailbox overload
Cause:	The lower threshold for (F4459) is not reached within a specific interval.

A program error may have occured.

System reaction:	system reacts with a restart.
Action:	If this error message occurs frequently, save the error message data and

contact your next level of support.

F4461
SYS
TRANSIT CTR OVERFLOW

Type: Service-specific (Format 22)

Short text: Overflow of TRANSIT counter

Cause: Connection setup canceled through TRANSIT counter overflow.

The TRANSIT counter counts the number of transit nodes involved in a connection setup in a meshed network. The connection setup is canceled if this counter reaches a specific threshold value, in order to prevent "endless" route seizures (network loops).

This error can occur if a network is not correctly configured, i.e., network loops or invalid alternate routes are configured.

Action: The HEX data output with this error message can be used to pinpoint the invalid transit routes or network loops and re-configure the network accordingly.

If the network configuration is okay, check whether the counter threshold is set too low (AMO TDCSU, parameter TRACOUNT, or AMO COT).

Interpretation of auxiliary data:

Byte 0 = Length of following data (max 93 Bytes)

Byte 1-4 = Address of incoming connection circuit (LODAD_PACKED)

Byte 5 = Transit counter

Byte 6 = Satellite counter

Byte 7 = Satellite connection

Byte 8 = Length of A-station number

Byte 9-30 = Source station number (A-STN) 22 digits

Byte 31 = Length of B-station number

Byte 32-53 = Destination station number (B-STN) 22 digits

Byte 54-93 = Auxiliary data

F4462
SYS
SATELLITE CTR OVERFLOW

Type: Service-specific (Format 22)

Short text: Overflow of SATELLITE counter

Cause: Connection setup canceled through SATELLITE counter overflow.
The SATELLITE counter counts the number of satellite route seizures attempted during a connection setup in a meshed network. The connection setup is canceled if this counter reaches a specific threshold value, in order to prevent unwarranted delay times.

Action: The HEX data output with this error message can be used to pinpoint the unnecessary SAT routes and re-configure the network accordingly.
If the network configuration is okay, check whether the counter threshold is set too low (AMO TDCSU, parameter SATCOUNT, or AMO COT) .

Interpretation of auxiliary data: see F4461.

F4463
SYS
CAS DIVERT OVERFLOW

Type:	Service-specific (Format 22)
Short text:	Overflow of CAS call diversion counter
Cause:	Overflow of CAS call diversion counter in a meshed network. A network

loop has occurred: attendant calls are being forwarded to an attendant console in the CAS group by the night station, despite the fact that the night service option has been activated (looped, multiple call forwarding).

Action: The HEX data output with this error message can be used to pinpoint the network loops and re-configure the network accordingly. Save error message data and contact your next level of support.

Interpretation of auxiliary data:

Byte 0 = Length of HEX data (max. 72 Bytes)
Byte 1-4 = Address of calling device (LODAD-PACKED)
Byte 5 = CAS diversion counter
Byte 6 = ATND group number dialed by caller
Byte 7 = Currently activated night option of this ATND group
Byte 8-9 = Node number (1st CAS call diversion)
Byte 10 = Length of call number (1st CAS call diversion)
Byte 11-32 = Call number (1st CAS call diversion) 22 digits
Byte 33-72 = Auxiliary data

F4464
SYS
LOAD MEASUREMENT DATA

Type:	Diagnosis-relevant (Format 17, 48, 49)
Short text:	Processor load with average value or ZAUSL differences.
Cause:	Output of processor load with average value or the ZAUSL differences.

The output of this diagnosis information was started with the AMO DIAGS.

System reaction:	None
Action:	No action required. Advisory message is acknowledgement to start the

AMO DIAGS.

Interpretation of auxiliary data:

Please also note changes to the AMO DIAGS in SP300E-V3.0/R6.6 and later, as well as the AMO applications in the Fair Share Scheduler feature (SP300E-V3.0/R6.6 and later).

Scenario 1: Processor load:

SP300E V2.0 / R 6.5 and earlier:

PROCESSOR LOAD IN %

```
xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx

xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx

xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx

xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx

xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx   xxx
```

x stands for decimal or hexadecimal values.

SP300E-V3.0/R6.6 and later:

CPU LOAD (HIGH PRIO) IN 0.1% OVER ALL CLASSES:

```
17    16    14    14    14    14    15    15    15    15    14    15

116   114   13    14    14    14    14    14    14    13    14    14

13    13    13    14    14    14    14    14    14    14    14    14

14    14    14    14    14    14    14    14    13    13    14    14

14    14    14    14    14    14    14    19    19    49    48    13
```

Meaning:

The processor load for all tasks up to a fixed upper priority is noted every 1.5 seconds (realtime priority).

SP300E V1.0 / R 6.4 and earlier: decimal, in percent
SP300E-V2.0/R6.5: hexadecimal, in percent
SP300E-V3.0/R6.6 and later: decimal, in thousandth
The output is performed on a class-specific basis in SP300E-V3.0/R6.6 and later. In other words, the Hicom software tasks are assigned specific classes and measured separately. There is one load measurement value per class for tasks up to the upper priority (HIGH PRIO) and one load measurement value per class for all tasks (TOTAL LOAD).

If a HW timer defect was detected at the processor board, the load measurement values delivered are incorrect; these values are marked with an * in the output (for more information see F4704).

There is also a message with the average values for all classes for the last 3 minutes:

AVERAGE VALUE (HIGH PRIO) IN 0.1% OVER ALL CLASSES: 0014
AVERAGE VALUE IN 0.1% PER CLASS:

0	1	2	3	4	5	6	7	8	9	(CLASSES)
0010	0000	0000	0003	0000	0000	0000	0000	0000	0000	(HIGH PRIO)
0010	0982	0000	0007	0000	0000	0000	0000	0000	0000	(TOTAL)

Scenario 2: ZAUSL differences:

SP300E V2.0 / R 6.5 and earlier:

ZAUSL DIFFERENCES :

```
xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx

xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx

xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx   xxxx

xxxx
```

x stands for decimal or hexadecimal values.

SP300E-V3.0/R6.6 and later
ZAUSL DIFFERENCES 1/2:

```
000000   000006   000000   000000   000000   000000   000000   000000   000000   000000
```

000000	000000	000000	000000	000000	000000	000000	000000	000000	000000
000000	000000	000000	000000	000000	000000	000000	000000	000000	000000
000000	000000	000000	000000	000000	000000	000000	000000	000000	000000

The system contains counters for specific events. Every message indicates the difference between the current counter status and the status indicated in the previous message (in 3-minute intervals).

SP300E V2.0 / R 6.5 and earlier: 4-digit, decimal
SP300E-V3.0/R6.6 and later: 6-digit, decimal
Events in the order of occurrence (see also **AMO ZAUSL**):

DB_M_TM_EREIGNIS_SET:

DB_M_TM_EREIGNIS_SET = SET (

DB_TM_EREIGN_BEL_EG_GEH, /* Terminal seizure */

DB_TM_EREIGN_CP_EVT , /* Call processing events */

DB_TM_EREIGN_GET_CPB , /* Call processing buffers */

DB_TM_EREIGN_BEL_EXT_KOM, /* Incoming trunk seizure */

DB_TM_EREIGN_BEL_EXT_GEH, /* Outgoing trunk seizure */

DB_TM_EREIGN_BEL_VF_ORGAN_A, /* Attendant pressed A-KEY300 - seizure */

DB_TM_EREIGN_BEL_VF_ORGAN_M, /* Attendant pressed M-KEY300 - seizure */

DB_TM_EREIGN_BEL_VF_ORGAN_R, /* Attendant pressed R-KEY300 - seizure */

DB_TM_EREIGN_D_INT_SEIZ , /* Seizures for internal data calls */

DB_TM_EREIGN_D_IC_SEIZ , /* Seizures for incoming data calls */

DB_TM_EREIGN_D_OG_SEIZ , /* Seizures for outgoing data calls */

DB_TM_EREIGN_D_LI_ORG_ATMP, /* Data call origination attempts from internal data lines */

DB_TM_EREIGN_D_LI_CPL_CALS, /* Internal data calls which are completed successfully */

DB_TM_EREIGN_D_LINE_BUSY, /* Internal data calls which fail to complete - called data line busy */

DB_TM_EREIGN_D_LINE_NOANS, /* Internal data calls which fail to complete - calling side disconnects before called side answers */

DB_TM_EREIGN_D_MP_ATMP_FAI, /* Failed data call attempts from devices assigned to Modem pools (because of calls terminating to vacant numbers, calls blocked due to invalid class of service, interdigit timeouts (partial dial), prematurely abandoned calls, and Modem Pool congestion) */

DB_TM_EREIGN_SMDR_INSF_BUF, /* SMDR buffer could not be obtained, therefore no voice call record generated */

DB_TM_EREIGN_DMDR_INSF_BUF, /* DBDR buffer could not be obtained, therefore no data call record generated */

DB_TM_EREIGN_RNGI_BEN , /* Individual speed dialing - use */

DB_TM_EREIGN_ZIELT_BEN , /* Destination keys - use */

DB_TM_EREIGN_NAMENST_BEN, /* Name/repertory keys - use */

DB_TM_EREIGN_DIREKTRUF_BEN, /* Automatic DSS keys - use */

DB_TM_EREIGN_AUL_EINSCH , /* Call forwarding - activate */

DB_TM_EREIGN_AK_AS_DURCHF , /* Call forwarding/override - carry OUT */

DB_TM_EREIGN_BERUM_DURCHF , /* COS changeover - carry OUT */

DB_TM_EREIGN_ARS_EINSCH , /* Do not disturb - activate */

DB_TM_EREIGN_VKONV_EINBER , /* Variable CONF. - initiate */

DB_TM_EREIGN_WW_BEN , /* Automatic redial - use */

DB_TM_EREIGN_RR_EINR , /* Callback/trunk queuing - create*/

DB_TM_EREIGN_NF_D_STBYQUE , /* Data Standby Queue feature activated*/

DB_TM_EREIGN_NF_M_D_SP_IND, /* Manual Data Speed Indication feature activated */

DB_TM_EREIGN_NF_M_CHAR_IND, /* Manual Character Indication feature activated */

DB_TM_EREIGN_NF_M_MOD_SEL , /* Manual Modem Selection feature activated */

DB_TM_EREIGN_NF_SVN_REDIAL, /* Saved Number Redial feature activated without feature button */

DB_TM_EREIGN_F_SW_TO_DATA , /* Switch-to-Data feature activated with feature button */

DB_TM_EREIGN_F_SW_TO_VOICE, /* Switch-to-Voice feature activated with feature button */

DB_TM_EREIGN_MISCHKOM_DURCHF /*Mixed communication - carry out */);

Additional in SP300E V3.0/R6.6 and later:

DB_TM_EREIGN_NCT_INV_SUCC, /* MCI-NCT INVOCATION SUCCESSFUL */

DB_TM_EREIGN_NCT_INV_FAIL, /* MCI-NCT INVOCATION FAILURE */

DB_TM_EREIGN_PP_OUT_EVT, /* Count on messages to DCL */

DB_TM_EREIGN_PP_IN_EVT, /* Count on messages from DCL */

DB_TM_EREIGN_REROUT_EVT, /* Rerouting events */

DB_TM_EREIGN_TRANS_ATT_EVT, /* Transit call attempts */

DB_TM_EREIGN_SAVE_CONN_EVT, /* Attempts to save two party connections*/

DB_TM_EREIGN_OUT_ACL_MSG, /* Messages from the ACL complex */

DB_TM_EREIGN_IN_ACL_MSG, /* Messages to the ACL complex */

DB_TM_EREIGN_INT_DYN_OVL, /* Number of 1.5s intervals in dynamic overload */

DB_TM_EREIGN_DYN_OVL_BEG, /* Number of times the switch goes from non-overload to a dynamic overload condition */

DB_TM_EREIGN_CALL_ATT_OVL, /* Number of calls of the procedure DB_T_DH_S_UEBERLAST if the overload bit is set */

DB_TM_EREIGN_ADAPT_ALL, /* ALL EVENTS FOR AM ADAPT */

DB_TM_EREIGN_ADAPT_NEG_TIM, /* EVENTS FOR AM ADAPT, THAT HAVE BEEN NEGATIVE-LY ACKNOWLEDGED BECAUSE OF TIMEOUT*/

DB_TM_EREIGN_ADAPT_NEG_NUM, /* EVENTS FOR AM ADAPT, THAT HAVE BEEN NEGATIVE-LY ACKNOWLEDGED BECAUSE OF NUMBER OF WAITING MESSAGES */

DB_TM_EREIGN_UPDATE_SEGMTS, /* SEGMENTS UPDATED FROM ACTIVE CC TO STBY CC BY AM UPDATE STARTED BY AM UPDATE */

DB_TM_EREIGN_PARTN_DB_INKO, /* SPOT CHECK COUNTER FOR INKONSISTENT PARTNER DB */

DB_TM_EREIGN_PARTN_DB_KONS, /* SPOT CHECK COUNTER FOR CONSISTENT PARTNER DB */

DB_TM_EREIGN_RES_56,

DB_TM_EREIGN_RES_57,

DB_TM_EREIGN_RES_58,

DB_TM_EREIGN_RES_59,

DB_TM_EREIGN_RES_60.

Interpretation of the above example:

The counter difference is 6 for the second criterion in DB_M_TM_EREIGNIS_SET. This criterion is, however, DB_TM_EREIGN_CP_EVT with the meaning "Call processing events", i.e. the counter for the call processing events increased by 6 in the last 3 minutes.

F4465
SYS
CP CBM RESOURCES CC

Type: Service relevant (Format 43)
Short text: Information about the CBM resources in CC.
Cause: This message shows if CBM resources which are counted in CC are low or run out. The message is reported by call processing (CP).
System reaction: The message is signaled.
An alarm is generated.
Action: No special action necessary. This message serves as an indicator of CBM resource consumption in the system. If the CBM resources too often are low or exhausted, the system design has to be checked.
Interpretation of auxiliary data:

CBM resource type	00H RESOURCES EXHAUSTED
	01H RESOURCES UNDER LOW LEVEL
	02H RESOURCES OVER HIGH LEVEL
	03H RESOURCES AT MAXIMUM
CBM CC counters:	Actual CBM counters in CC.
text string:	Error text as ASCII string, delivered by LW.
auxiliary data:	Auxiliary data delivered by LW, displayed as HEX values.

F4466
SYS
VECO CBM RESOURCES CC

Type:	Service relevant	(Format 43)
Short text:	Information about the CBM resources in CC.	
Cause:	This message shows if CBM resources which are counted in CC are low or run out. The message is reported by VECO.	
System reaction:	The message is signaled. An alarm is generated.	
Action:	No special action necessary. This message serves as an indicator of CBM resource consumption in the system. If the CBM resources too often are low or exhausted, the system design has to be checked.	

Interpretation of auxiliary data:

CBM resource type	00H RESOURCES EXHAUSTED
	01H RESOURCES UNDER LOW LEVEL
	02H RESOURCES OVER HIGH LEVEL
	03H RESOURCES AT MAXIMUM
CBM CC counters:	Actual CBM counters in CC.
text string:	Error text as ASCII string, delivered by VECO.
auxiliary data:	Auxiliary data delivered by VECO, displayed as HEX values.

F4500
AMO
RESTART

Type:	Service-specific (Format 18)
Short text:	Restart initiated by AMO
Cause:	Error analysis (FA) is to make a restart in a certain control unit at the

request of an AMO.

Action:	Restart will be carried out by the system.

F4501
AMO
RELOAD

Type: Service-specific (Format 18)

Short text: Reload initiated by AMO

Cause: Error analysis (FA) is to make a reload in a certain control unit at the request of an AMO.

Action: Reload will be carried out by the system

F4502
AMO
SYS RESTART

Type:	Service-specific (Format 18)
Short text:	Restart initiated by AMO
Cause:	Error analysis (FA) is to make a system restart at the request of an AMO.
Action:	Restart will be carried out by the system.

F4503
AMO
PS NODE

Type: Service-specific - US-specific (Format 29)

Short text: Periodical switching of SWU via time task

Cause: A periodical switching of the SWU was executed. An SR CC was initiated via specific AMO events.

Action: No action necessary (the periodical switching function can be enabled or disabled with the SYSDA AMO.

F4505
AMO
PS CANCEL

Type: Service-specific - US-specific (Format 29)

Short text: The timer for periodical SWU switching was cancelled

Cause: The time task for periodical SWU switching was cancelled; the timer for the next period was activated.

Action: No action necessary (the periodical switching function can be enabled or disabled with the SYSDA AMO.

F4506
AMO
SOFT RESTART

Type:	Service-specific (Format 29)
Short text:	Soft restart initiated by AMO
Cause:	Soft restart initialized by REST AMO.
Action:	Soft restart will be carried out by the system.

F4507
AMO
LTUR HARD RESTART

Type: Service-specific (Format 18)
Short text: Hard restart initiated by AMO
Cause: LTUR hard restart requested via AMO. This confirms that the task was
accepted.
Action: Hard restart will be carried out by the system.

F4508
AMO
LTUR SOFT RESTART

Type: Service-specific (Format 18)

Short text: Soft restart initiated by AMO

Cause: LTUR soft restart requested via AMO. This confirms that the task was accepted.

Action: Soft restart will be carried out by the system.

F4509
AMO
LTUR RELOAD

Type: Service-specific (Format 18)
Short text: Reload initiated by AMO
Cause: LTUR reload requested via AMO. This confirms that the task was
accepted.

Action: Reload will be carried out by the system.

F4604
DB
MAINTENANCE

Type: Service-specific

Short text: Trace job via TRACS AMO

Cause: The trace job was started with the trace conditions defined in the TRACS AMO. The trace situation created with the AMO has occurred. This message usually consists of plain text, which is either self-explanatory or explained in the auxiliary data or refers to a specific section of the Service Manual.

Action: The alarm CENTRAL:029 MAINTENANCE NOTE must always be reset (deleted) via AMO.

SWU: **DEL-GRA:BP,29;**

ADP: **DEL-GRA:AI,29;**

VI server: **DEL-GRA:VI,29;**

In order to be able to evaluate the trace job, your system specialist needs the error message data. Save the error message data and contact your next level of support.

Interpretation of auxiliary data:

START = The trace job was started via AMO. The functional system unit concerned and the trace point are shown in the auxiliary data.

STOP = The trace point defined by AMO has been reached. The trace job for a specific functional system unit has been stopped. The unit concerned is output in the auxiliary data, together with the trace point.

STOP ALL = The trace point defined by AMO has been reached. The trace job has been stopped for all functional system units. The unit concerned is output in the auxiliary data, together with the trace point.

STOP PETRA = The trace point defined by AMO has been reached. The trace job in the peripheral has been stopped. The unit concerned is output in the auxiliary data, together with the trace point.

F4624
CP
MAINTENANCE

Type: Service-specific

Short text: Service advisory message, initiated by the alarm CENTRAL:029 MAINTENANCE NOTE.

Cause: This message usually consists of plain text, which is either self-explanatory or refers to a specific section of the Service Manual.

Action: The MAINTENANCE NOTE alarm must always be reset (deleted) via AMO.

SWU: DEL-GRA:BP,29;

ADP: DEL-GRA:AI,29;

VI server: DEL-GRA:VI,29;

If this does not work, save the error messages associated with this alarm and contact your next level of support.

F4644
DH
MAINTENANCE

Type: Service-specific

Short text: Service advisory message, initiated by the alarm CENTRAL:029 MAINTENANCE NOTE.

Cause: This message usually consists of plain text, which is either self-explanatory or refers to a specific section of the Service Manual.

Action: The MAINTENANCE NOTE alarm must always be reset (deleted) via AMO.

SWU: DEL-GRA:BP,29;

ADP: DEL-GRA:AI,29;

VI server: DEL-GRA:VI,29;

If this does not work, save the error messages associated with this alarm and contact your next level of support.

F4664
PP
MAINTENANCE

Type: Service-specific

Short text: Service advisory message, initiated by the alarm CENTRAL:029
MAINTENANCE NOTE.

Cause: This message usually consists of plain text, which is either self-
explanatory or refers to a specific section of the Service Manual.

Action: The MAINTENANCE NOTE alarm must always be reset (deleted) via AMO.
SWU: DEL-GRA:BP,29;

ADP: DEL-GRA:AI,29;

VI server: DEL-GRA:VI,29;

If this does not work, save the error messages associated with this alarm and contact your next
level of support.

F4684
CG
MAINTENANCE

Type: Service-specific

Short text: Service advisory message, initiated by the alarm CENTRAL:029 MAINTENANCE NOTE.

Cause: This message usually consists of plain text, which is either self-explanatory or refers to a specific section of the Service Manual.
Example (if data records cannot be written):
"CDB-POOL 60% FULL"
"CDB-POOL 70% FULL"
"CDB-POOL 75% FULL, LOSS OF INTERNAL CONN."
"CDR: CDB POOL FULL - LOSS OF DATA IN SWU"

Action: The MAINTENANCE NOTE alarm must always be reset (deleted) via AMO.
SWU: DEL-GRA:BP,29;
ADP: DEL-GRA:A1,29;
V1 server: DEL-GRA:V1,29;
If you are unable to find the cause of the error, save the error messages associated with this alarm and contact your next level of support.
Interpreting auxillary messages: The following error messages, for example, appear if data records cannot be output:
"CDB-POOL 60% FULL"
"CDB-POOL 70% FULL"
"CDB-POOL 75% FULL, LOSS OF INTERNAL CONN."
"CDR: CDB POOL FULL - LOSS OF DATA IN SWU"

Possible actions for above example:

- Selection group inactive? (SELS AMO)

- CDRC file full and no reserve device assigned? (GEZAB AMO)

- Output device blocked ? Check output device

- File area full? (INFO AMO)

- Highway between SWU and ADS okay?

F4703
DEP
STATISTIC OVERFLOW

Type: Diagnosis-relevant (Format 0)
Short text: Statistics overflow.
Cause: Too many errors have occurred within a brief time interval:

- Soft restarts

- SW errors

Action: If the error occurs frequently, save the error messages and contact a product specialist.

F4704
DEP
MAINTENANCE

Type: Service-relevant (Format 34)

Short text: Maintenance note, triggered by the MAINTENANCE NOTE alarm.

Cause: This message contains a transparent text in the rule that is either self-explanatory, refers to another service manual chapter or is described below.

Action: In general, the above-mentioned alarm should be deleted with an AMO after fault removal:

in SWU: DEL-GRA:BP,29;

Save the error messages associated with this alarm if no solution is available. Notify the product specialist.

Note: See also F4704 Handling

Message texts:

HW TIMER DEFECTIVE

Cause: A HW timer defect was detected at the processor board that is required for time measurement. Subsequent values supplied by processor load measurement are invalid. Processor load management is thus deactivated. The incorrect values are marked with a * in the case of processor load output (for more information, see F4464).

System reaction: None

Action: Save error message data and notify product specialist. Processor board replacement is recommended.

HW TIMER BACK IN SERVICE

Cause: The HW timer defect is not detected for a specific period of time. It is thus assumed that the HW timer is working again. Processor load management is reactivated.

System reaction: None

Action: Save error message data and notify product specialist. Processor board replacement is recommended.

RTO TEST ERROR

Cause: Connection loss between WAML and ADP. The result of the RTO test of the WAML connection via the internal LAN to the ADP was negative (LOOP DATA ERR) as confirmed by the FA. See also self-explanatory message text in the error message!

Action: Use AMO TSU to check if the connection to the ADP is still defective: PR-TSU: CONWADP;

Soft lock of WAML with AMO: DEACT-BSSU:mv, ...;

ACT-BSSU: ul, ...;

Check the physical connection (cable) to the ADP.

Retry Test : PR-TSU: CONWADP;

Delete the maintenance alarm with AMO: DEL-GRA: BP,29;

FIREWALL ALARM

Cause: A LAN user with no class of service to be 'routed' by the WAML sends a data packet to the WAML

Action: Check configuration (AMO LANC), if the originator use is to have access via the WAML. If this LAN subscriber is not to have access via the WAML, determine the user (hacker?).

Interpretation of auxiliary data: All known data for the unauthorized LAN user is output in plaintext so that the cause can quickly be determined.

MAC address, source-IP-address (sender address), destination-IP-address, ISDN NO (station number of the sender if he/she can access the WAML via the ISDN)

ERROR/LOG BUFFER FULL

Cause: Continuous overflow of error or LOG buffer (see previous messages F5955 or F5956).

Action: Read out data with AMO PETRA. For address and length, see previous message F5955 or F5956. Notify the product specialist.

Interpretation of auxiliary data: see F5955 or F5956.

LAN CONTROLLER DEFECT NO ACCESS TO INTERNAL LAN

Cause: Hardware error. The LAN controller is set in the direction 'Atlantic' LAN is not possible (internal LAN). This LAN interface was put out of service by the LW. Destinations at this interface cannot be accessed any longer.

Action: Take the board out of service and put it back in service manually; Board replacement.

Interpretation of auxiliary data: see F5959.

LAN CONTROLLER DEFECT NO ACCESS TO EXTERNAL LAN

Cause: Hardware error. The LAN controller is set in the direction 'external' LAN is not possible. This LAN interface was put out of service by the LW. Destinations at this interface cannot be accessed any longer.

Action: Take the board out of service and put it back in service manually; Board replacement.

Interpretation of auxiliary data: see F5960.

CONFIGURATION ERROR SLMAR

Cause: see alarm text and associated error message F5503.
Action: Reconfiguring with the AMO SCSU, parameter: PULSTYP

SLMAR: EXTENDED SUBSCRIBER LOOP

Cause: The resistance on the long station line of an SLMAR connection is too high. Calls are not possible or quality is very low.
Action: The line resistance is to be decreased, e.g by

- checking/performing maintenance on the subscriber line

- laying new lines with lower resistance

- shortening the subscriber line (relocate terminals)

- installing amplifiers, etc.

ROUTER CONNECTION INTERRUPTED - SEE SYSTEM MANAGER REPORT

Cause: The ISDN data connection between 2 Trading E groups was interrupted. The problem may originate in the actual Hicom, in transit on the connection or in the remote Hicom.
Action: Clarify whether the appropriate SLMY is still in service in the partner group. Clarify whether an ISDN board (e.g. SLMS) failed in the home or remote Hicom.

The system manager must be consulted for more information and notes.
Interpretation of auxiliary data: No supplementary data

TRADEBOARD E DOWN - SEE SYSTEM MANAGER REPORT

Cause: A Tradeboard E failed, it cannot be accessed by the SLMY.
Action: See system manager for additional information and notes.

Clarify whether Tradeboard E can still be reached via LAN and establish its status.

If still accessible via LAN: Check the cables to the MUXY,

Terminal replacement

If multiple terminals on the same MUXY fail: Check the MUXY, its power supply and cabling.
Interpretation of auxiliary data: No supplementary data

IDLE LEVEL TIMER EXPIRED - SEE F8120

Cause: A continuous loop was found in a low-priority task in the programming code.

Action: Save diagnosis data (stack and task information messages) relating to the error message F8120 and notify the product specialist. After diagnosis, perform as soft restart with the AMO REST.

Interpretation of auxiliary data: see F8120

CLOCK GENERATOR DOES NOT SUPPORT AECB

Cause: An AECB was configured with the AMO REFTA, although it is not possible to connect an AECB to the clock generator.

Action: Deleting the AECB configuration with an AMO: DEL-REFTA:AECB;

CLOCK GENERATOR DOES NOT SUPPORT FRONT REFERENCE

Cause: A front reference was configured with the AMO REFTA, although it is not possible to connect a front reference to the clock generator.

Action: Deleting the front reference configuration with an AMO: DEL-REFTA:FRONT;

AECB NOT CONFIGURED WITH AMO REFTA

Cause: An AECB was connect to or removed from the clock generator, although the AECB was not configured with the AMO REFTA.

Action: Configuring the AECB with an AMO: ADD-REFTA:AECB;

FRONT REFERENCE NOT CONFIGURED WITH AMO REFTA

Cause: A front reference was connected to or removed from the clock generator, although the front reference was not configured with the AMO REFTA.

Action: Configuring the front reference with an AMO: ADD-REFTA:FRONT;

F4706
DEP
RESTART LEVEL

Type: Service-specific (Format 41)
Short text: Type of restart carried out
Cause: As of SP300E V1.0 / R 6.4, this SWU error message replaces F4266
(advisory message with HEX data). This message is always output by dependability following
a restart, and describes the type of restart in plain text as well as a possible restart escalation.
Example: RESTART TYPES: HARD RESTART / SOFT RESTART
A soft restart was requested, which escalated to a hard restart.
Action: This message is intended as an advisory and helps determine the reason
for the restart. Evaluate preceding error messages.

F4750
REC
NO RESP FROM LTUR

Type: Service-specific (Format)
Short text: No response from LTUR
Cause: Dynamic overload or faulty LTUR. Error message is output by defective
LTUR.
Action: Replace board. If this does not work, save the error message data and
contact your next level of support.

F4751
REC
NO RESP FROM SCAN

Type: Service-specific (Format)

Short text: No response from LTUR

Cause: Dynamic overload or faulty LTUR. Error message is output by defective LTUR.

Action: Replace board. If this does not work, save the error message data and contact your next level of support.

F4752
REC
NO RESPONSE SR LTUR

Type: Service-specific (Format 24)
Short text: No response from LTG subsystem
Cause: Error in transport layer between CC and LTG. Error message indicates LTG concerned.
Action: Analyze environment. If this does not work, save the error message data and contact your next level of support.

F4753
REC
NO LTU REPLY

Type: Service-specific (Format)
Short text: No response from LTUR
Cause: None of the LTUs associated with an LTG is responding. Possible reason: dynamic overload. Error message is output by affected LTG.
Action: Analyze environment. If this does not work, save the error message data and contact your next level of support.

F4754
REC
(UN)SAVE UNDETERMINED

Type:	Diagnosis-specific (Format 24)
Short text:	Invalid save list
Cause:	The device memories assigned to a stored connection are marked as

"saved" in the CC standby half of the SWU, but entered in the save list under the wrong SAVE TYPE.

Action: The standby CC half executes a hard restart. If this error message occurs frequently, save the error message data and contact your next level of support.

F4755
REC
SAVELIST INCONSISTENT

Type: Diagnosis-specific (Format 24)
Short text: No partner for saved device
Cause: A saved device connection without a corresponding connection partner has been detected in the save list during the call processing database recovery. This error only occurs in soft restarts of simplex CCs.
Action: The inconsistency is corrected by the PABX without further error messages. If this error message occurs repeatedly, save error message data and contact your next level of support.

F4756
REC
2PTY CONNECTION EXISTS

Type:	Diagnosis-specific (Format 24)
Short text:	Saved connection deleted
Cause:	One of the communication partners of a connection to be saved is already

marked as saved.

Action: The old save connection will be deleted by the PABX, and the new connection saved instead. If this does not work, save the error message data and contact your next level of support.

F4757
REC
DEVICE BUSY

Type: Diagnosis-specific (Format 24)

Short text: Device busy

Cause: Device is already busy. This error message usually appears in conjunction with F4756. The message is sent from the standby LTG.

Action: Analyze frequency of occurrence and environment. If this does not work, save the error message data and contact your next level of support.

F4758
REC
DEVICE IDLE

Type:	Diagnosis-specific (Format 24)
Short text:	Device is already released
Cause:	Device is already released. This message is sent from the standby LTG half.
Action:	Save error message data and contact your next level of support.

F4759
REC
NO CPB USED

Type:	Diagnosis-specific (Format 24)
Short text:	CPB not released
Cause:	No CPB can be released, or CPB is already released.
Action:	Save error message data and contact your next level of support.

F4760
REC
NO S0 DYN DEVICE TABLE

Type: Diagnosis-specific (Format 24)
Short text: No dynamic device memory
Cause: No dynamic device memory available for saving device data.
Action: The standby half of the SWU-CC executes a hard restart. Save error
message data and contact your next level of support.

F4761
REC
NO IGNORED

Type:	Diagnosis-specific (Format 24)
Short text:	Connection not saved
Cause:	One of the devices of a connection which is to be saved cannot be saved.
Action:	The connection data will not be saved. Analyze frequency of occurrence

and environment. If this does not work, save the error message data and contact your next level of support.

F4762
REC
SAVELIST OVERFLOW

Type:	Diagnosis-specific (Format 24)
Short text:	Connection not saved
Cause:	Insufficient memory for saving a connection. The connection data will not

be saved.

Action:	Use AMO DIMSU to enlarge the save list.

EINR-DIMSU:TYPE=CC2,SILI=<value> (FRG variant) or AMO DIMEN (US variant).
Minimum value for SILI (number of memory elements) = 2 * number CPB. In the case of ACD
/ ACL applications, increase in accordance with the system configuration.

F4763
REC
PATH ALREADY IDLE

Type: Diagnosis-specific (Format 24)

Short text: Path already released

Cause: The system has attempted to release the connection path of a saved connection which was either already released or not seized in the first place. This message occurs in normal operation.

Action: Analyze frequency of occurrence and environment. If this does not work, save the error message data and contact your next level of support.

F4764
REC
PATH ALREADY BUSY

Type: Diagnosis-specific (Format 24)

Short text: Path busy

Cause: The system attempts to seize the path of a saved connection and finds that it already busy. This error message may occur in normal operation and also during a simplex CC soft restart.

Action: Analyze frequency of occurrence and environment. If this does not work, save the error message data and contact your next level of support.

F4765
REC
B-CHAN ALREADY IDLE

Type: Diagnosis-specific (Format 24)

Short text: B-channel already released

Cause: The system has attempted to release the B-channel of a saved connection which was either already released or not seized in the first place. This error message occurs in normal operation.

Action: Analyze frequency of occurrence and environment. If this does not work, save the error message data and contact your next level of support.

F4766
REC
B-CHAN ALREADY BUSY

Type: Diagnosis-specific (Format 24)

Short text: B-channel busy

Cause: The system attempts to seize the B-channel of a saved connection, only to find it already busy. This error message may occur in normal operation and also during a simplex CC soft restart.

Action: Analyze frequency of occurrence and environment. If this does not work, save the error message data and contact your next level of support.

F4767
REC
LODEN MISMATCH IN CP

Type: Diagnosis-specific (Format 24)

Short text: LODENs do not match

Cause: The system discovers that the LODENs of the saved devices do not match on erasing the connection data.

Action: Analyze frequency of occurrence and environment. If this does not work, save the error message data and contact your next level of support.

F4768
REC
CPB IDX MISMATCH IN CP

Type: Diagnosis-specific (Format 24)
Short text: Invalid CPB-indices
Cause: Connection to be saved has invalid CPB indices in the device memories.
Action: The connection will not be saved. Analyze frequency of occurrence and environment. If this does not work, save the error message data and contact your next level of support.

F4769
REC
NO RESPONSE DD UPDATE

Type:	Diagnosis-specific (Format 24)
Short text:	LTG update not acknowledged
Cause:	LTG dynamic data update during Standby Restoration is not acknowledged.
Action:	Save error message data and contact your next level of support

F4770
REC
INVALID SAVETYPE

Type:	Diagnosis-specific (Format 24)
Short text:	Invalid save list
Cause:	Invalid SAVE TYPE entry in the save list for a saved device.
Action:	The save element will be deleted. Analyze frequency of occurrence and

environment. If this does not work, save the error message data and contact your next level of support.

F4771
REC
LODEN 0 OR IDENT IN CP

Type: Diagnosis-specific (Format 24)

Short text: Invalid LODEN

Cause: Connection to be saved or deleted has invalid LODEN entries: (LODEN = 0 or LODEN A = LODEN B).

Action: The connection will not be saved (i.e. deleted). Analyze frequency of occurrence and environment. If this does not work, save the error message data and contact your next level of support.

F4772
REC
CONNECTION MISMATCH

Type:	Diagnosis-specific (Format 24)
Short text:	Invalid partner LODEN
Cause:	Connection to be deleted has an invalid partner LODEN.
Action:	The device with the valid LODEN will be deleted. Analyze frequency of

occurrence and environment. If this does not work, save the error message data and contact your next level of support.

F4773
REC
PARTNER NOT IN SAVELST

Type: Diagnosis-specific (Format 24)

Short text: Device is not saved

Cause: The system attempts to delete a saved connection of which one of the devices is no longer saved (no entry found).

Action: Analyze frequency of occurrence and environment. If this does not work, save the error message data and contact your next level of support.

F4776
REC
SAVED 1PTY EXIST

Type:	Diagnosis-specific (Format 24)
Short text:	Already saved as single device
Cause:	One of the call parties is already in the save list, as a single device.
Action:	This save list entry is deleted, and the two-party call to be saved is saved.

Analyze frequency of occurrence and environment. If this does not work, save the error message data and contact your next level of support.

F4777
REC
INVALID DEVICE

Type:	Diagnosis-specific (Format 24)
Short text:	Save type not carried out
Cause:	The required save type cannot be carried out for this device.
Action:	The old connection is deleted and the new one saved. Analyze frequency

of occurrence and environment. If this does not work, save the error message data and contact your next level of support.

F4778
REC
INVALID TSL

Type:	Diagnosis-specific (Format 24)
Short text:	Invalid route data
Cause:	The connection to be saved has invalid route data.
Action:	The connection will not be saved. Analyze frequency of occurrence and

environment. If this does not work, save the error message data and contact your next level of support.

F4779
REC
SEQUENCE ERROR

Type:	Diagnosis-specific (Format 24)
Short text:	Unexpected sequence
Cause:	Different save types have been carried out in an unexpected sequence.
Action:	The saved data is deleted, and the new data to be saved is saved.

Analyze frequency of occurrence and environment. If this does not work, save the error message data and contact your next level of support.

F4780
REC
NO RESOURCES

SP300E V2.0 / R 6.5 and earlier

Type: Diagnosis-relevant (Format 24)
Short text: Error in the standby processor
Cause: When saving a connection, the COSTI bufferpool in the standby
processor is empty.
Action: Analyze the frequency and scope of the error message. Save error
message data and contact your next level of support.

SP300E-V3.0/R6.6 and later

Type: Diagnosis-relevant (Format 24)
Short text: Error in the standby processor, no CP or DH data buffer
Cause: When saving a connection for Nx64, no CP or DH data buffer is available.
System reaction: The CC standby (SWU) causes a hard restart.
Action: Analyze the frequency and scope of the error message. Save error
message data and contact your next level of support.

F4781
REC
NO NW DYN DEVICE TABLE

Type: Diagnosis-relevant (Format 24)

Short text: No dynamic NW device memory

Cause: When saving a D-channel connection, no dynamic pool device buffer can be seized in the CP for networking.

System reaction: The CC standby (SWU) causes a hard restart.

Action: Analyze the frequency and scope of the error message. Check the DIMSU settings. Save error message data and contact your next level of support.

F4782
REC
PARTIAL RESOURCES

Type:	Diagnosis-relevant (Format 24)
Short text:	Not all resources for a connection available.
Cause:	When saving a connection, all resources cannot be seized. The backup was still performed.
System reaction:	Soft restart only after corresponding statistics overflow
Action:	Analyze the frequency and scope of the error message. Save error message data and contact your next level of support.

Interpretation of auxiliary data:

Byte 5 specifies the subevent (hexadecimal): 74 costibuffer is already seized.

F4783
REC
UPD COSTI MISMATCH

Type:	Diagnosis relevant	(Format 24)

Short text: Mismatch of costi buffer index for a saved connection.

Cause: The costi buffer index to update does not match the index in the save list.

System reaction: Only signalling.

Action: Save error message data and contact your next level of support.

Interpretation of auxiliary data: For analysing the data see F4352.