

CLD - 5-11-89

TOP SECRET  
**CLASSIFICATION**

**DATE:** 9 May 89

**TO:** OEG/SSD/CSB/CM

**FROM:** OEG/SSD/CSB/DM&BC

**NOC/AR/DR:** ON-02793, OP06003, OP06076, OP04445, OP05776,  
OP05373, OP05374, OP05176 ON-02618 (withdrawn)

**TITLE:** BIU Reset w/ Panic Code 'C5' (UB02c-719)

OPEN- The required action has not been completed because

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CLOSED- Per approved redlines, change pages have been issued.

CLOSED- No action required of CSB; no controlled documentation affected; close tasking.

CLOSED- CSB not document custodian; will verify change incorporation when issued by appropriate custodian;

JM 9 May 89  
Signature/Date

TOP SECRET  
**CLASSIFICATION**

unclassified **ORIGINAL** *ck*  
CLASSIFICATION

<b>NPIC NOTICE OF CHANGE (NOC)</b>		<input type="checkbox"/> M&T <input type="checkbox"/> OPS <input type="checkbox"/> NISC <input type="checkbox"/> IC&T	
		NOC NO. <i>ON 02793</i>	DATE: <i>02-02-89</i>
TITLE: <b>BIU Reset w/Panic Code "C5" (UD02c-719)</b>		BRANCH CHIEF'S OR M&T TEAM SUPERVISOR'S AP <span style="float: right;">STAT</span>	
ORIGINATOR:	DATE:	PHONE:	STAT
DR/RFC NO. : 6003; 6076;4445 5776;5373;5374	FINAL <input checked="" type="radio"/> Y <input type="radio"/> N ASSOC. NOCs <i>ON 02618 (withdrawn)</i>	<input checked="" type="checkbox"/> PERM <input type="checkbox"/> TEMP REMOVAL DATE:	PRIORITY E   U <input checked="" type="radio"/> R SCHEDULED INSTALLATION DATE:
5176   TYPE SSW   EMH <input checked="" type="radio"/> NCC ASW   AIDS   PMS DB   TSP   OTHER HW   COINS	DELIVER FROM: 1100/9X: <input type="checkbox"/> M&T <input type="checkbox"/> IC&T <input type="checkbox"/> OPS NISC: <input type="checkbox"/> M&A <input type="checkbox"/> OPS DELIVERY FILE:	DELIVER TO: 1100/9X: <input type="checkbox"/> M&T <input type="checkbox"/> IC&T <input type="checkbox"/> OPS NISC: <input type="checkbox"/> M&A <input type="checkbox"/> OPS RECEIVING FILE:	
SEGMENT <u>SB/CS</u> CPCI _____   CPC _____		COMPLETES RFC TASK# _____	
DEPENDENCIES: UD01-032			
DESCRIPTION OF CHANGE: SEE ATTACHED SYNOPSIS.			
IMPLEMENTATION/VERIFICATION INSTRUCTIONS: Install and test CM build UD01-032 per installation and test procedures provided in build report. SB/CS to verify. Will provide CSB with 0 level dump for DC replenishment.			
OPERATIONS IMPACT/DOCUMENTS AFFECTED: CSID 3.6.4		REDLINES ATTACHED <input checked="" type="radio"/> Y <input checked="" type="radio"/> N Redlines provided in 30 days	
BOARD(S) APPROVAL (M&T)	INSTALLATION (M&T)	VERIFICATION (M&T)	
		(OPS) <i>1/13/89</i>	STAT
BOARD(S) APPROVAL (NISC)	INSTALLATION (NISC)	VERIFICATION (OPS)	CLOSURE <i>5-11-89</i>
SIGN/DATE	SIGN/DATE/TIME	SIGN/DATE/TIME	SIGN/DATE

FM 1173  
(7/87)

unclassified  
CLASSIFICATION

OMU 2 19.5

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Reviews for build 4D02c-719

S7236-Vol. 1B

1/13/86

X.25 Clear Request packets are sent to the network layer in Network Data packets, and X.25 Clear Confirmation packets are sent in Network Clear Request packets.

Clear diagnostic codes implement are listed in the following table:

CLEAR DIAGNOSTIC BYTE (hexadecimal)	ACTION
81	The BIU detects a level2 restart and informs the remote BIU via a clear message
82	The BIU detects a level2 link failure and informs the remote BIU via a clear message
83	The local BIU detects a remote BIU failure and informs the DTEs via sending a local clear via level2
84	The BIU detects that the NCC is down and sends a clear to each SU requesting interface with the NCC.
85	The BIU detects that the NCC is up and informs each SU (who has previously been informed of the NCC Down State) that the NCC is up via this clear.
86	An incoming call is received by a BIU for a user not in the BIUs directory and will send this clear as a response to the Call Request.
87	An incoming call is received from a Source BIU not in the receiving BIUs directory. The call request is replied to by this clear over the network.
89	The source BIU receives a call request for a BIU not in the source BIUs directory and sends this clear back via level2.
8A	The source BIU receives a call request from a DTE not in its directory and sends this clear back to the DTE.
8B	The BIU will indicate that "minimize" is in effect with this clear.
8C	The BIU indicates that there are no more alternate addresses.
8D	The BIU indicates that maximum number of VCs are already in use. // Add
8E	The BIU indicates that <sup>the</sup> <del>the</del> USER is logging off. // Add

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2793

Copy of  
redlines to  
~~CSB~~ CSB

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## UD02c-719: Synopsis

- \* Sending statistics prior to panic. Whenever BIU software panics (i.e. a call to panic with a valid panic code), the BIU will send a statistics package to the cable. Sending SRP prior to panic will provide helpful information in determining the cause of the panic. This change will not affect normal operation in that the additional code will execute only when an unrecoverable condition has occurred.
- \* Changed parameters of a subroutine to issue a unique clear diagnostic when "minimize" is in effect (DR 5176).
- \* Added code to insert the correct network number and D-value in the CR and CLR Connectivity Audit Message packets sent from A58 WBIU's. The Connectivity Audit routine never considered that a VC could be established across a bridge pair (DR 5776).
- \* When a bridge link goes down or a BBIU resets while a VC is established, the NCC audit trails are not updated as to the new VC status. This problem was solved by having the WBIU on the slave network send a Connectivity Audit Message to the slave NCC after clearing each VC (DR 4445).
- \* "CS" panics indicate a stack overflow. Interrupt service routines used the interrupted tasks' stack, which could cause the stack to overflow. This problem was solved by allocating stack space for the interrupt service routines, thereby preventing them from using other tasks' stack (DR 6076).
- \* When a HBIU terminates a VC across the bridge, the corresponding "TRM" message does not have the correct information. As a result, LVC shows the VC as still being active. Software was modified to insert the correct information in the message (DR 6003).
- \* BIU's at A58 occasionally transmit more than one SRP packet per reporting period. SRQ's are broadcast to both cable plants and are forwarded to A58 via the bridges. In most cases, the WBIU handles the duplicate SRQ, however, it has a problem when its' stat delay time is 0. Statistics software was modified to handle this special case by returning the duplicate SRQ to the free queue whenever the stat delay time for the BIU in question is 0 (DR 5373/5374).

SEGMENT QA REPLENISHMENT CHECKLIST

DR/RFC Number DP06003 and 6 others Replenishment Date \_\_\_\_\_

NOC Number 0102793 Segment: CS ✓ C/I \_\_\_\_\_ NTIC \_\_\_\_\_

Contents of package: Final  Not Final [ ] Action QA check Missing

M&A Quality Control:

( ) Worksheet Completed/Attached SWI ( )

OPS Quality Control:

(  ) Copy of NOC CM ( )

(  ) Copy of DR Not Applicable ( ) CM ( )

( ) Copy of TPR Not Applicable  CM ( )

(  ) Copy of all AR's Not Applicable ( ) CM ( )  
 Number of AR's if more than 1 ( )

( ) Copy of RFC Not Applicable  CM ( )

(  ) Copy of redlined documentation CM ( )  
*Not attached*  
 Not Applicable ( ) CM ( )

( ) Tape reel number 0900 CM ( )

( ) @FLIST CM ( )

( ) PCT Fix Report by DR/RFC# (2 copies) SWI ( )

( ) Delivery Register (Cover Letter) CM ( )

Explanation for missing items: (if any) \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_

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OPS  IC&T

NPIC DISCREPANCY REPORT (DR)		IEG - _____	DR NO. <u>OP-05176</u>
		NIC - _____	Date Logged: <u>7.21.88</u>
		PEG - _____	
Originator: _____	Date: <u>21 July 88</u>	Group: <u>SPB/CS</u>	Phone: _____ STAT
Reported By: _____	Date: _____	Group: _____	Phone: _____

Date/Time of Occurrence: \_\_\_\_\_ Recommended Priority:  E  U  R

Problem Type:

<input type="checkbox"/> Application S/W _____ Display ID _____	<input type="checkbox"/> Hardware _____
<input checked="" type="checkbox"/> System S/W <u>BIU</u>	<input checked="" type="checkbox"/> Communications _____
<input type="checkbox"/> Data Base _____	<input type="checkbox"/> Other _____

Category: <input type="checkbox"/> D/C <input type="checkbox"/> C/I <input type="checkbox"/> AIDS <input type="checkbox"/> O/E <input checked="" type="checkbox"/> C/S <input type="checkbox"/> COINS <input type="checkbox"/> E/R <input type="checkbox"/> OTHER:	Computer System: <input type="checkbox"/> 1100/7X CPS (NIC) <input type="checkbox"/> 1100/9X OPS <input type="checkbox"/> 1100/7X M&T (NIC) <input type="checkbox"/> 1100/9X M&T <input type="checkbox"/> NCC <input type="checkbox"/> OTHER:
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Title: VC Clear with "Minimize is in effect" Type: \_\_\_\_\_

Problem Description: The BIU-W and BIU-H clear the virtual circuit with reason code "minimize is in effect". This happens when user logoff, host logoff and NCC issues "minimize". This cause confusion to the users.

Impact: User confusion when host logoff the host ports while user received "Minimize is in effect".

Action: T.I.: SPB CS Due Date: 8-11-88

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**NPIC ANALYSIS REPORT (AR)**

AR NO: OP05176-1  
Date Logged: 11/18/88

Tech Inv.: \_\_\_\_\_ Date: 09/21/88 Group: BIU Phone: \_\_\_\_\_ **STAT**

Associated DR No.: 08216 5176

Recommended Priority: E U **(R)**

Affected Configuration Item(s): \_\_\_\_\_ CPCI: \_\_\_\_\_ CPC: \_\_\_\_\_

Category:

D/C  C/I  AIDS  
 O/E  C/S  COINS  
 E/R  OTHER: \_\_\_\_\_

Computer System:

1100/7X OPS (NIC)  1100/9X OPS  
 1100/7X M&T (NIC)  1100/9X M&T  
 NCC  OTHER: BIU

Software Affected: BIU's network access

Document(s) Affected: \_\_\_\_\_

Hardware Affected: \_\_\_\_\_

**Detailed Analysis:**

When a user logoff and when NCC issues "minimize", the associated VCs are cleared using the same path causing identical cause and diagnostic

**Recommended Solution:**

Provide information to the subroutine in question for generating unique clear diagnostics. When minimize is in effect, a clear of "OD 8B" is sent and when a user logoff, a clear of "OD 8E" is sent.

Delivery Schedule:	COST	ESTIMATED COMPLETION DATE
ANALYSIS	_____	_____
CODE	_____	_____
TEST	_____	_____
NOC IMPLEMENTATION	_____	_____
TOTAL COST	_____	_____

Reassignment: \_\_\_\_\_

Action: T.I.: SPB CS Due Date: 11/23 Priority: R

BOARD ACTION: Req 2  APPROVED  DISAPPROVED DATE: 11/23/88

R FM (11/80) 1151 (REV. 8/87)

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classification

**ORIGINAL**

<b>NPIC NOTICE OF CHANGE (NOC)</b>		1 <input type="checkbox"/> M&T <input type="checkbox"/> OPS <input type="checkbox"/> NISC <input type="checkbox"/> IC&T	
NOC NO. <b>ON02618</b>		DATE: <b>11.18.88</b>	
Title: <b>Logoff/Virterm Clears (HD02c-718)</b>		Branch Chief's or M&T Team Supervisor's App: <b>STAT</b>	
Originator:		Date: <b>11/16/88</b> <b>STAT</b>	
DR/REC NO.: <b>OP05176</b> <b>OP05373</b> <b>OP05374</b>	Final Assoc. NOCs: <b>Y</b> <b>N</b> <b>None</b>	<input checked="" type="checkbox"/> Perm <input type="checkbox"/> Temp Removal Date:	Priority: <b>E</b> <b>U</b> <b>(R)</b> <b>10</b>
Type: SSW ASW DB HW	EMH AIDS TSP COINS <b>NCC</b> <b>PMS</b> <b>OTHER</b>	Deliver From: <b>13A</b> 1100/9X: <input type="checkbox"/> M&T <input type="checkbox"/> IC&T <input type="checkbox"/> OPS NISC: <input type="checkbox"/> M&A <input type="checkbox"/> OPS Delivery File:	Deliver To: <b>13B</b> 1100/9X: <input type="checkbox"/> M&T <input type="checkbox"/> IC&T <input type="checkbox"/> OPS NISC: <input type="checkbox"/> M&A <input type="checkbox"/> OPS Receiving File:
Segment: <b>14</b> <b>SPB/CS</b> <b>CPCI</b> <b>CPC</b>		Completes RFC Task # <b>15</b>	
Dependencies: <b>NONE</b>			
Description of Change: Modified statistics software for A58's BIU -W to correctly handle duplicate SRQ's. Change the parameters of "Rem con.c" subroutine to include a "flag" used to issue a unique clear diagnostic.			
Implementation/Verification Instructions: Install and test CM build HD02c-718 per installation and test procedures provided in build report. SPB/CS to verify. Will provide CIB with 0 level dump for IC replenishment. <i>W. J. Brown</i> <i>CERB 1/6/89</i>			
Operations Impact/Documents Affected: <b>CSID</b>		Redlines Required <b>Yes</b> <i>Not attached</i> <i>will provide 30 days after CERB approval</i>	
Board(S) Approval (M&T)	Installation (M&T)	Verification (M&T) <b>22</b>	<b>STAT</b>
<b>1/23/88</b>	Installation (OPS)	Verification (OPS) <b>25</b>	
Board(S) Approval (NISC)	Installation (NISC)	Verification (NISC) <b>28</b>	Closure <b>29</b>
Sign/Date	Sign/Date/Time	Sign/Date/Time	Sign/Date

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<b>NPIC ANALYSIS REPORT (AR)</b>		AR NO. OP-05176 -2 DATE LOGGED: 1-4-89
TECH INV.: _____	DATE: 12/27/88	GROUP: SB/CS    PHONI _____    STATAT _____
ASSOCIATED DR: (OP-05176) op-05373, op-05374		
RECOMMENDED PRIORITY: E    U    (R)		
AFFECTED CONFIGURATION ITEM(S)		CPCI:            CPC:
<b>SEGMENT:</b> <input type="checkbox"/> D/C <input type="checkbox"/> C/I <input type="checkbox"/> AIDS <input type="checkbox"/> O/E <input checked="" type="checkbox"/> C/S <input type="checkbox"/> COINS <input type="checkbox"/> E/R <input type="checkbox"/> OTHER:		<b>COMPUTER SYSTEM :</b> <input type="checkbox"/> 1100/7X OPS (NIC) <input type="checkbox"/> 1100/9X OPS <input type="checkbox"/> 1100/7X M&T(NIC) <input type="checkbox"/> 1100/9X M&T <input checked="" type="checkbox"/> NCC <input type="checkbox"/> OTHER:
<input type="checkbox"/> SOFTWARE AFFECTED: _____		<input type="checkbox"/> HARDWARE AFFECTED: _____
DOCUMENT(S) AFFECTED : _____		_____
<b>DETAILED ANALYSIS :</b>		
BIU Build HD02c-718 (ON-02618) was installed on OPS on 12/06. BIU resets with panic code C5 (stack overflow) became more prevalent after the application of this build. Subsequently, build 718 was backed-out on 12/08/88.		
<b>RECOMMENDED SOLUTION:</b>		
Recommend ON-02618 be withdrawn and associated DRs remain open.		
<b>DELIVERY SCHEDULE ANALYSIS</b>	<b>COST</b>	<b>ESTIMATED COMPLETION DATE</b>
CODE	_____	_____
TEST	_____	_____
NOC IMPLEMENTATION	_____	_____
TOTAL COST	_____	_____
<b>REASSIGNMENT :</b>		
ACTION : T. I. <u>SB/CS</u>	DUE DATE <u>1/27/89</u>	PRIORITY <u>R</u>
BOARD ACTION: <u>R/C</u> <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED	DATE: 06 JAN 1989	

FM 1151  
(8/87)

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NPIC ANALYSIS REPORT (AR)

AR NO. 0205176-3  
Date Logged: 22-89

Tech Inv.: \_\_\_\_\_ Date: 09/21/88 Group: BIU Phone: \_\_\_\_\_

Associated DR No.: 0205176

STAT  
STAT

Recommended Priority: E U **(R)**

Affected Configuration Item(s): \_\_\_\_\_ CPCI: \_\_\_\_\_ CPC: \_\_\_\_\_

Category:

- D/C
- O/E
- E/R
- C/I
- C/S
- OTHER:
- AIDS
- COINS

Computer System:

- 1100/7X OPS (NIC)
- 1100/7X M&T (NIC)
- NCC
- 1100/9X OPS
- 1100/9X M&T
- OTHER: BIU

Software Affected: BIU's network access

Hardware Affected: \_\_\_\_\_

Document(s) Affected: \_\_\_\_\_

Detailed Analysis:

When a user logoff and when NCC issues "minimize", the associated VCs are cleared using the same path causing identical cause and diagnostic.

Recommended Solution:

Provide information to the subroutine in question for generating unique clear diagnostics. When minimize is in effect, a clear of "OD 8B" is sent and when a user logoff, a clear of "OD 8E" is sent.

Delivery Schedule:

	<u>COST</u>	<u>ESTIMATED COMPLETION DATE</u>
ANALYSIS	_____	_____
CODE	_____	_____
TEST	_____	_____
NOC IMPLEMENTATION	_____	_____
TOTAL COST	_____	_____

Reassignment:

Action: T.I.: SB/cs Due Date: 2/6/89 Priority: R  
BOARD ACTION: CERA  APPROVED  DISAPPROVED DATE: 2/6/89

R FM 1151 (REV. 8/77) (11/80)

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**ORIGINAL**

40019

OPS  IC&T

<b>NPIC DISCREPANCY REPORT (DR)</b>	IEG - _____	DR NO. <u>OP 04445</u>
	NIC - _____	Date Logged: <u>4-20-88</u>
	PEG - _____	

Originator	Date: <u>4-15-88</u>	Group: <u>T&amp;V</u>	STAT
Reported By:	Date: <u>4-15-88</u>	Group: <u>T&amp;V</u>	

Date/Time of Occurrence: 5 Recommended Priority: E U **R**

Problem Type: 7

Application S/W BIU  Hardware \_\_\_\_\_

Display ID \_\_\_\_\_

System S/W \_\_\_\_\_  Communications \_\_\_\_\_

Data Base \_\_\_\_\_  Other \_\_\_\_\_

<b>Category: 3</b> <input type="checkbox"/> D/C <input type="checkbox"/> C/I <input type="checkbox"/> AIDS <input type="checkbox"/> O/E <input checked="" type="checkbox"/> C/S <input type="checkbox"/> COINS <input type="checkbox"/> E/R <input type="checkbox"/> OTHER:	<b>Computer System: 3</b> <input type="checkbox"/> 1100/7X OPS (NIC) <input type="checkbox"/> 1100/9X OPS <input type="checkbox"/> 1100/7X M&T (NIC) <input type="checkbox"/> 1100/9X M&T <input type="checkbox"/> NCC <input checked="" type="checkbox"/> OTHER: BIU
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Title: 10 CRP After 'A4' Packets Type: 11

**Problem Description: 12**

Workstation and Host BIUs do not notify the NCC that they are clearing virtual circuits as a result of an 'A4' broadcast.

**Impact: 13**

NCC is not kept up-to-date on virtual circuit status for LVC.

Action: T.I.: 4 SPB CS Due Date: 18 MAY 88

R FM 1150 (REV. 8/87) (11/80)

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OPS  IC&T

**NPIC ANALYSIS REPORT (AR)**

AR NO. OPD4445-1  
Date Logged: 2.2.89

Tech Inv.: \_\_\_\_\_ Date: 09/21/88 Group: BIU Phone: \_\_\_\_\_  
Associated DR No.: 4445

STATAT

Recommended Priority: E U **(R)**

Affected Configuration Item(s): \_\_\_\_\_ CPCI: \_\_\_\_\_ CPC: \_\_\_\_\_

Category: <input type="checkbox"/> D/C <input type="checkbox"/> C/I <input type="checkbox"/> AIDS <input type="checkbox"/> O/E <input checked="" type="checkbox"/> C/S <input type="checkbox"/> COINS <input type="checkbox"/> E/R <input type="checkbox"/> OTHER: _____	Computer System: <input type="checkbox"/> 1100/7X OPS (NIC) <input type="checkbox"/> 1100/9X OPS <input type="checkbox"/> 1100/7X M&T (NIC) <input type="checkbox"/> 1100/9X M&T <input type="checkbox"/> NCC <input checked="" type="checkbox"/> OTHER: BIU
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Software Affected: nl/rbiudead.c,v  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Document(s) Affected: \_\_\_\_\_  
 \_\_\_\_\_  
 Hardware Affected: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Detailed Analysis: 10**  
 This problem occurs because Bridge-BIUs are involved. The NCC does not know that a VC is established across bridge-BIUs (i.e., NCC does not know that a bridge-BIU exists on a particular VC). Thus, when "A4"s are sent from the bridge-BIU, NCC cannot update its table. Meanwhile the BIU clears its VCs locally performing normal processing of "A4"s.

**Recommended Solution: 11**  
 Send connectivity and after clearing locally to the slave NCC when BIU-W at the area detects a link down or a Bridge-BIU resets. The slave NCC should update the master via "80-88" msgs.

Delivery Schedule: 12	<u>COST</u>	<u>ESTIMATED COMPLETION DATE</u>
ANALYSIS	_____	_____
CODE	_____	_____
TEST	_____	_____
NOC IMPLEMENTATION	_____	_____
TOTAL COST	_____	_____

Reassignment: \_\_\_\_\_  
 Action: T.I.: SB/cs Due Date: 2/6/89 Priority: R  
 BOARD ACTION: CERB  APPROVED  DISAPPROVED DATE: 2/6/89

RFM (11/80) 1151 (REV. 8/87)

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OPS  IC&T

NPIC DISCREPANCY REPORT (DR)		IEG - _____	DR NO. <u>OP 5374</u>
		NIC - _____	Date Logged: <u>8/12/88</u>
		PEG - _____	
Originator _____	Date: <u>8/12/88</u>	Group: <u>C/S</u>	Phone: _____ STAT
Reported By: _____	Date: _____	Group: _____	Phone: _____ STAT
Date/Time of Occurrence: <u>8/10/88 1600</u>		Recommended Priority: <input type="checkbox"/> E <input type="checkbox"/> U <input checked="" type="checkbox"/> R	
Problem Type:		<input type="checkbox"/> Hardware _____	
<input type="checkbox"/> Application S/W _____ Display ID _____	<input checked="" type="checkbox"/> Communications <u>BIU</u>		
<input type="checkbox"/> System S/W _____	<input type="checkbox"/> Other _____		
<input type="checkbox"/> Data Base _____			
Category:		Computer System:	
<input type="checkbox"/> D/C	<input type="checkbox"/> C/I	<input type="checkbox"/> AIDS	<input type="checkbox"/> 1100/7X CFS (NIC)
<input type="checkbox"/> O/E	<input checked="" type="checkbox"/> C/S	<input type="checkbox"/> COINS	<input type="checkbox"/> 1100/7X M&T (NIC)
<input type="checkbox"/> E/R	<input type="checkbox"/> OTHER:		<input checked="" type="checkbox"/> OTHER: <u>BIU</u>
Title: <u>Duplicate SRP packets</u>			Type: _____
Problem Description: <u>BIUs at <del>158</del> are occasionally transmitting more than one SRP packet per reporting interval. The extra packet has a start &amp; end time the same. Believed to be caused by responding to two SRPs from both plants at B213.</u>			
Impact: <u>Improper reporting of BIU stats.</u>			
			Due Date: <u>9-6-88</u>

Record #: 8716 Act: Y  
EID: 100032  
NET: 17  
COLLISIONS: 13  
PKTS-TRANS: 0  
PKTS-RECEIVED: 0  
PKTS-IN-ERROR: 0  
PKTS-RETRANS: 0  
KBYTES-RECEIVED: 0  
KBYTES-TRANS: 0  
HDLC-TRANS-UF: 61  
HDLC-TRANS-NR: 0  
HDLC-RECEI-UF: 1451  
HDLC-RECEI-NR: 0  
L3-REC-P0-DP: 0  
L3-REC-P0-REJ: 0  
L3-REC-P0-RES: 0  
L3-REC-P0-RESC: 0  
L3-REC-P0-NR: 0  
L3-TRANS-P0-DP : 0  
L3-TRANS-P0-REJ: 0  
L3-TRANS-P0-RES: 0  
L3-TRANS-P0-RESC: 0  
L3-TRANS-P0-NR: 0  
L3-REC-P1-DP: 0  
L3-REC-P1-REJ: 0  
L3-REC-P1-RES: 0  
L3-REC-P1-RESC: 0  
L3-REC-P1-NR: 0  
L3-TRANS-P1-DP: 0  
L3-TRANS-P1-REJ: 0  
L3-TRANS-P1-RES: 0  
L3-TRANS-P1-RESC: 0  
L3-TRANS-P1-NR: 0  
L2-REC-P0-NR: 0  
L2-REC-P0-FREJ: 0  
L2-TRANS-P0-NR: 0  
L2-TRANS-P0-FREJ: 0  
L2-REC-P1-NR: 0  
L2-REC-P1-FREJ: 0  
L2-TRANS-P1-NR: 0  
L2-TRANS-P1-FREJ: 0  
CPU: 6  
RESET-FLG: 0  
START-TIME: 15:45:01  
END-TIME: 16:00:01  
DATE: 08/10/88  
HOURS: 15  
CLASS-ID: A58  
MINUTES-COLL: 15

*OP-05374*

Record #: 8721 Act: Y  
EID: 100032  
NET: 17  
COLLISIONS: 0  
PKTS-TRANS: 0  
PKTS-RECEIVED: 0  
PKTS-IN-ERROR: 0  
PKTS-RETRANS: 0  
KBYTES-RECEIVED: 0  
KBYTES-TRANS: 0  
HOLC-TRANS-UF: 1  
HOLC-TRANS-NR: 0  
HOLC-RECEI-UF: 10  
HOLC-RECEI-NR: 0  
L3-REC-P0-DP: 0  
L3-REC-P0-REJ: 0  
L3-REC-P0-RES: 0  
L3-REC-P0-RESC: 0  
L3-REC-P0-NR: 0  
L3-TRANS-P0-DP: 0  
L3-TRANS-P0-REJ: 0  
L3-TRANS-P0-RES: 0  
L3-TRANS-P0-RESC: 0  
L3-TRANS-P0-NR: 0  
L3-REC-P1-DP: 0  
L3-REC-P1-REJ: 0  
L3-REC-P1-RES: 0  
L3-REC-P1-RESC: 0  
L3-REC-P1-NR: 0  
L3-TRANS-P1-DP: 0  
L3-TRANS-P1-REJ: 0  
L3-TRANS-P1-RES: 0  
L3-TRANS-P1-RESC: 0  
L3-TRANS-P1-NR: 0  
L2-REC-P0-NR: 0  
L2-REC-P0-FREJ: 0  
L2-TRANS-P0-NR: 0  
L2-TRANS-P0-FREJ: 0  
L2-REC-P1-NR: 0  
L2-REC-P1-FREJ: 0  
L2-TRANS-P1-NR: 0  
L2-TRANS-P1-FREJ: 0  
CPU: 0  
RESET-FLG: 0  
START-TIME: 16:00:01  
END-TIME: 16:00:01  
DATE: 08/10/88  
HOURS: 16  
CLASS-ID: A58  
MINUTES-COLL: 144

CP-05374



CP-05374

Record #: 8961 Act: Y  
EID: 100032  
NET: 17  
COLLISIONS: 3  
PKTS-TRANS: 0  
PKTS-RECEIVED: 0  
PKTS-IN-ERROR: 0  
PKTS-RETRANS: 0  
KBYTES-RECEIVED: 0  
KBYTES-TRANS: 0  
HDLC-TRANS-UF: 61  
HDLC-TRANS-NR: 0  
HDLC-RECEI-UF: 1441  
HDLC-RECEI-NR: 0  
L3-REC-P0-DP: 0  
L3-REC-P0-REJ: 0  
L3-REC-P0-RES: 0  
L3-REC-P0-RESC: 0  
L3-REC-P0-NR: 0  
L3-TRANS-P0-DP: 0  
L3-TRANS-P0-REJ: 0  
L3-TRANS-P0-RES: 0  
L3-TRANS-P0-RESC: 0  
L3-TRANS-P0-NR: 0  
L3-REC-P1-DP: 0  
L3-REC-P1-REJ: 0  
L3-REC-P1-RES: 0  
L3-REC-P1-RESC: 0  
L3-REC-P1-NR: 0  
L3-TRANS-P1-DP: 0  
L3-TRANS-P1-REJ: 0  
L3-TRANS-P1-RES: 0  
L3-TRANS-P1-RESC: 0  
L3-TRANS-P1-NR: 0  
L2-REC-P0-NR: 0  
L2-REC-P0-FREJ: 0  
L2-TRANS-P0-NR: 0  
L2-TRANS-P0-FREJ: 0  
L2-REC-P1-NR: 0  
L2-REC-P1-FREJ: 0  
L2-TRANS-P1-NR: 0  
L2-TRANS-P1-FREJ: 0  
CPU: 6  
RESET-FLG: 0  
START-TIME: 16:00:01  
END-TIME: 16:15:01  
DATE: 08/10/88  
HOURS: 16  
CLASS-ID: A58  
MINUTES-COLL: 15

OFS **ORIGINAL**

**NPIC ANALYSIS REPORT (AR)**

AR NO. 0905374

Date Logged: 11-18-88

Tech Inv.: \_\_\_\_\_ Date: 09/21/88 Group: BIU Phone: \_\_\_\_\_ **STAT**  
 Associated DR No.: 05374

Recommended Priority: - E U **(R)**

Affected Configuration Item(s): \_\_\_\_\_ CPCI: \_\_\_\_\_ CPC: \_\_\_\_\_

Category: -

- D/C
- O/E
- E/R
- C/I
- C/S
- OTHER:
- AIDS
- COINS

Computer System: -

- 1100/7X OPS (NIC)
- 1100/7X M&T (NIC)
- NCC
- 1100/9X OPS
- 1100/9X M&T
- OTHER: BIU

Software Affected: ticmgt/wstrpt.a

Hardware Affected: \_\_\_\_\_

Document(s) Affected: \_\_\_\_\_

Detailed Analysis: -

SRQs originating from the NCC are broadcasted to both cable plants and are forwarded to the area via BIU-Bs. This condition forces the BIU-W of the area to process 2 identical SRQs. While the software had taken this special case into consideration, the problem arises when stat delay time is 0; the BIU-Ws to not have time to return the 2nd SRQ to the bit-bucket causing duplicate processing of the same SRQ.

Recommended Solution: -

When stat delay time is 0, wait for approximately 1 second to ensure that the 2nd SRQ is returned to the free queue.

Delivery Schedule: 12	<u>COST</u>	<u>ESTIMATED COMPLETION DATE</u>
ANALYSIS	_____	_____
CODE	_____	_____
TEST	_____	_____
NOC IMPLEMENTATION	_____	_____
TOTAL COST	_____	_____

Reassignment: 13  
 Action: T.I.: SPIB CS Due Date: 11/23/88 Priority: R

BOARD ACTION: 1262  APPROVED  DISAPPROVED DATE: 11/23/88

R FM 1151 (REV. 8/87) (11/80)

UNCLASSIFIED

CLASSIFICATION

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**ORIGINAL**

classification

<b>NPIC NOTICE OF CHANGE (NOC)</b>		1 <input type="checkbox"/> M&T <input type="checkbox"/> OPS <input type="checkbox"/> NISC <input type="checkbox"/> IC&T	
NOC NO. <b>2</b> <b>ON02618</b>		DATE: <b>11.18.88</b>	
Title: <b>Logoff/Virterm Clears (HD02c-718)</b>		Branch Chief's or M&T Team Supervisor's Appr	
Originator:	Date: <b>11/16/88</b>	Phon	STAT STAT
DR/RFC NO.: <b>7</b> OP05176 OP05373 <b>OP05374</b>	Final Assoc. NOCs: <b>Y</b> <input type="checkbox"/> N <b>None</b>	<input checked="" type="checkbox"/> Perm <input type="checkbox"/> Temp Removal Date:	Priority: <b>E</b> <input type="checkbox"/> U <input type="checkbox"/> R <b>10</b>
Type: <b>NCC</b> EMH ASW DB HW	EMH AIDS TSP COINS <b>NCC</b> PMS OTHER	Deliver From: 1100/9X: <input type="checkbox"/> M&T <input type="checkbox"/> IC&T <input type="checkbox"/> OPS NISC: <input type="checkbox"/> M&A <input type="checkbox"/> OPS Delivery File:	Deliver To: 1100/9X: <input type="checkbox"/> M&T <input type="checkbox"/> IC&T <input type="checkbox"/> OPS NISC: <input type="checkbox"/> M&A <input type="checkbox"/> OPS Receiving File:
Segment: <b>14</b> <b>SPB/CS</b> <b>CPCI</b> <b>CPC</b>	Completes RFC Task # <b>15</b>		
Dependencies: <b>16</b> <b>NONE</b>			
Description of Change: <b>17</b> Modified statistics software for A58's BIU -W to correctly handle duplicate SRQ's. Change the parameters of "Rem con.c" subroutine to include a "flag" used to issue a unique clear diagnostic.			
Implementation/Verification Instructions: Install and test CM build HD02c-718 per installation and test procedures provided in build report. SPB/CS to verify. Will provide CERB with 0 level dump for EC replenishment. <i>With CERB 1/16/89</i>			
Operations Impact/Documents Affected: <b>CSID</b>		Redlines Required <input checked="" type="checkbox"/> <b>Yes</b> <i>Not attached</i> <i>will provide 30 days after CERB approval</i>	
Board(S) Approval (M&T) <b>10</b>	Installation (M&T) <b>11</b>	Verification (M&T) <b>12</b>	
<b>13</b> <b>1/23/88</b>	Installation (OPS) <b>14</b>	Verification (OPS) <b>15</b>	<b>STAT</b>
Board(S) Approval (NISC) <b>16</b>	Installation (NISC) <b>17</b>	Verification (NISC) <b>18</b>	Closure <b>19</b>
Sign/Date	Sign/Date/Time	Sign/Date/Time	Sign/Date

**UNCLASSIFIED**

classification

UNCLASSIFIED  
CLASSIFICATION

**ORIGINAL** <sup>BA</sup> *4* *8/2* *PCU*  
 OPS  IC&T

<b>NPIC ANALYSIS REPORT (AR)</b>		AR NO. OP- <del>05176</del> 5374-2 DATE LOGGED: 1-4-88
TECH INV.: _____	DATE: 12/27/88	GROUP: SB/CS PHONE SSTAT
ASSOCIATED DR: OP-05176, op-05373, <u>op-05374</u>		
RECOMMENDED PRIORITY: E U (R)		
AFFECTED CONFIGURATION ITEM(S)		CPCI: CPC:
<b>SEGMENT:</b> <input type="checkbox"/> D/C <input type="checkbox"/> C/I <input type="checkbox"/> AIDS <input type="checkbox"/> O/E <input checked="" type="checkbox"/> C/S <input type="checkbox"/> COINS <input type="checkbox"/> E/R <input type="checkbox"/> OTHER:	<b>COMPUTER SYSTEM :</b> <input type="checkbox"/> 1100/7X OPS (NIC) <input type="checkbox"/> 1100/9X OPS <input type="checkbox"/> 1100/7X M&T(NIC) <input type="checkbox"/> 1100/9X M&T <input checked="" type="checkbox"/> NCC <input type="checkbox"/> OTHER:	
<input type="checkbox"/> SOFTWARE AFFECTED: _____	<input type="checkbox"/> HARDWARE AFFECTED: _____	
DOCUMENT(S) AFFECTED : _____	_____	
<b>DETAILED ANALYSIS :</b>		
BIU Build HD02c-718 (ON-02618) was installed on OPS on 12/06. BIU resets with panic code C5 (stack overflow) became more prevalent after the application of this build. Subsequently, build 718 was backed-out on 12/08/88.		
<b>RECOMMENDED SOLUTION:</b>		
Recommend ON-02618 be withdrawn and associated DRs remain open.		
<b>DELIVERY SCHEDULE ANALYSIS</b> CODE TEST NOC IMPLEMENTATION TOTAL COST	<b>COST</b> _____ _____ _____ _____	<b>ESTIMATED COMPLETION DATE</b> _____ _____ _____ _____
<b>REASSIGNMENT :</b>		
ACTION : T. I. <u>SB/CS</u>	DUE DATE <u>1/27/89</u>	PRIORITY <u>R</u>
BOARD ACTION: <i>R/L</i> <input checked="" type="checkbox"/> APPROVED	<input type="checkbox"/> DISAPPROVED	DATE: <u>06 JAN 1989</u>

FM 1151  
(8/87)

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CLASSIFICATION

ORIGINAL 23

OPS  IC&T

NPIC ANALYSIS REPORT (AR)

AR NO. OPD 5374 - 3  
Date Logged: 2.2.89

Tech Inv.: \_\_\_\_\_ Date: 09/21/88 Group: BIU Phone: \_\_\_\_\_ SSTAT  
Associated DR No.: 05374

Recommended Priority: E U  R

Affected Configuration Item(s): \_\_\_\_\_ CPCI: \_\_\_\_\_ CPC: \_\_\_\_\_

Category:

- D/C
- O/E
- E/R
- C/I
- C/S
- OTHER:
- AIDS
- COINS

Computer System:

- 1100/7X OPS (NIC)
- 1100/7X M&T (NIC)
- NCC
- 1100/9X OPS
- 1100/9X M&T
- OTHER: BIU

Software Affected: ticmgt/wstrpt.a

Hardware Affected: \_\_\_\_\_

Document(s) Affected: \_\_\_\_\_

Detailed Analysis:

SRQs originating from the NCC are broadcasted to both cable plants and are forwarded to the area via BIU-Bs. This condition forces the BIU-W of the area to process 2 identical SRQs. While the software had taken this special case into consideration, the problem arises when stat delay time is 0; the BIU-Ws to not have time to return the 2nd SRQ to the bit-bucket causing duplicate processing of the same SRQ.

Recommended Solution:

When stat delay time is 0, wait for approximately 1 second to ensure that the 2nd SRQ is returned to the free queue.

Delivery Schedule:	COST	ESTIMATED COMPLETION DATE
ANALYSIS	_____	_____
CODE	_____	_____
TEST	_____	_____
NOC IMPLEMENTATION	_____	_____
TOTAL COST	_____	_____

Reassignment: SB/CS  
Action: T.I.: \_\_\_\_\_ Due Date: 2/6/89 Priority: R  
BOARD ACTION: CERB  APPROVED  DISAPPROVED DATE: 2/6/89

R FM 1151 (REV. 8/87) (11/80)

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OPS  IC&T

NPIC DISCREPANCY REPORT (DR)	IEG - _____	DR NO. <u>OP 05373</u>
	NIC - _____	Date Logged: <u>8/12/88</u>
	PEG - _____	

Originator: \_\_\_\_\_ Date: 8/12/88 Group: C/S Phone: \_\_\_\_\_ STAT  
 Reported By: \_\_\_\_\_ Date: \_\_\_\_\_ Group: \_\_\_\_\_ Phone: \_\_\_\_\_ SIAI

Date/Time of Occurrence: 8/10/88 0800 Recommended Priority: E U (R)

Problem Type:

<input type="checkbox"/> Application S/W _____ Display ID _____	<input type="checkbox"/> Hardware _____
<input type="checkbox"/> System S/W _____	<input checked="" type="checkbox"/> Communications <u>BEU stats</u>
<input type="checkbox"/> Data Base _____	<input type="checkbox"/> Other _____

Category:	Computer System:
<input type="checkbox"/> D/C	<input type="checkbox"/> 1100/7X CPS (NIC)
<input type="checkbox"/> O/E	<input type="checkbox"/> 1100/7X M&T (NIC)
<input type="checkbox"/> E/R	<input type="checkbox"/> NCC
<input type="checkbox"/> C/I	<input type="checkbox"/> 1100/9X OPS
<input checked="" type="checkbox"/> C/S	<input type="checkbox"/> 1100/9X M&T
<input type="checkbox"/> AIDS	<input checked="" type="checkbox"/> OTHER: <u>BEU</u>
<input type="checkbox"/> COINS	
<input type="checkbox"/> OTHER:	

Title: BEU (ASB) SRP WRONG TIME STAMPS Type: \_\_\_\_\_

Problem Description: Workstation BEUs had missed one SRP at 0800. A SRP packet with the start time field later than the end time field was generated. Attached are two examples.

Impact: Incorrect BEU stat reporting

Action: T.I.: SPB CS Due Date: 9-6-88

Record #: 1271 Act: Y  
EID: 100002  
NET: 17  
COLLISIONS: 0  
PKTS-TRANS: 300  
PKTS-RECEIVED: 192  
PKTS-IN-ERROR: 0  
PKTS-RETRANS: 0  
KBYTES-RECEIVED: 69  
KBYTES-TRANS: 19  
HDLC-TRANS-UF: 43  
HDLC-TRANS-NR: 0  
HDLC-RECEI-UF: 1057  
HDLC-RECEI-NR: 0  
L3-REC-P0-DP: 170  
L3-REC-P0-REJ: 0  
L3-REC-P0-RES: 0  
L3-REC-P0-RESC: 0  
L3-REC-P0-NR: 0  
L3-TRANS-P0-DP: 106  
L3-TRANS-P0-REJ: 0  
L3-TRANS-P0-RES: 0  
L3-TRANS-P0-RESC: 0  
L3-TRANS-P0-NR: 0  
L3-REC-P1-DP: 151  
L3-REC-P1-REJ: 0  
L3-REC-P1-RES: 0  
L3-REC-P1-RESC: 0  
L3-REC-P1-NR: 0  
L3-TRANS-P1-DP: 86  
L3-TRANS-P1-REJ: 0  
L3-TRANS-P1-RES: 0  
L3-TRANS-P1-RESC: 0  
L3-TRANS-P1-NR: 0  
L2-REC-P0-NR: 0  
L2-REC-P0-FREJ: 0  
L2-TRANS-P0-NR: 0  
L2-TRANS-P0-FREJ: 0  
L2-REC-P1-NR: 0  
L2-REC-P1-FREJ: 0  
L2-TRANS-P1-NR: 0  
L2-TRANS-P1-FREJ: 0  
CPU: 1300  
RESET-FLG: 0  
START-TIME: 07:45:01  
END-TIME: 08:15:01  
DATE: 08/10/88  
HOURS: 7  
CLASS-ID: A58  
MINUTES-COLL: 30

OR 05373

Record #: 1116 Act: Y  
EID: 100002  
NET: 17  
COLLISIONS: 0  
PKTS-TRANS: 100  
PKTS-RECEIVED: 69  
PKTS-IN-ERROR: 0  
PKTS-RETRANS: 0  
KBYTES-RECEIVED: 41  
KBYTES-TRANS: 6  
HDLC-TRANS-UF: 21  
HDLC-TRANS-NR: 0  
HDLC-RECEI-UF: 477  
HDLC-RECEI-NR: 0  
L3-REC-P0-DP: 104  
L3-REC-P0-REJ: 0  
L3-REC-P0-RES: 0  
L3-REC-P0-RESC: 0  
L3-REC-P0-NR: 0  
L3-TRANS-P0-DP : 69  
L3-TRANS-P0-REJ: 0  
L3-TRANS-P0-RES: 0  
L3-TRANS-P0-RESC: 0  
L3-TRANS-P0-NR: 0  
L3-REC-P1-DP: 6  
L3-REC-P1-REJ: 0  
L3-REC-P1-RES: 0  
L3-REC-P1-RESC: 0  
L3-REC-P1-NR: 0  
L3-TRANS-P1-DP: 0  
L3-TRANS-P1-REJ: 0  
L3-TRANS-P1-RES: 0  
L3-TRANS-P1-RESC: 0  
L3-TRANS-P1-NR: 0  
L2-REC-P0-NR: 0  
L2-REC-P0-FREJ: 0  
L2-TRANS-P0-NR: 0  
L2-TRANS-P0-FREJ: 0  
L2-REC-P1-NR: 0  
L2-REC-P1-FREJ: 0  
L2-TRANS-P1-NR: 0  
L2-TRANS-P1-FREJ: 0  
CPU: 493  
RESET-FLG: 0  
START-TIME: 08:00:01  
END-TIME: 07:45:01  
DATE: 08/10/88  
HOURS: 8  
CLASS-ID: A58  
MINUTES-COLL: 142

*07-05373*



Record #: 1283 Act: Y  
EID: 100011  
NET: 17  
COLLISIONS: 0  
PKTS-TRANS: 146  
PKTS-RECEIVED: 112  
PKTS-IN-ERROR: 0  
PKTS-RETRANS: 0  
KBYTES-RECEIVED: 49  
KBYTES-TRANS: 7  
HDLC-TRANS-UF: 44  
HDLC-TRANS-NR: 0  
HDLC-RECEI-UF: 1054  
HDLC-RECEI-NR: 0  
L3-REC-P0-DP: 56  
L3-REC-P0-REJ: 0  
L3-REC-P0-RES: 0  
L3-REC-P0-RESC: 0  
L3-REC-P0-NR: 0  
L3-TRANS-P0-DP : 30  
L3-TRANS-P0-REJ: 0  
L3-TRANS-P0-RES: 0  
L3-TRANS-P0-RESC: 0  
L3-TRANS-P0-NR: 0  
L3-REC-P1-DP: 103  
L3-REC-P1-REJ: 0  
L3-REC-P1-RES: 0  
L3-REC-P1-RESC: 0  
L3-REC-P1-NR: 0  
L3-TRANS-P1-DP: 68  
L3-TRANS-P1-REJ: 0  
L3-TRANS-P1-RES: 0  
L3-TRANS-P1-RESC: 0  
L3-TRANS-P1-NR: 0  
L2-REC-P0-NR: 0  
L2-REC-P0-FREJ: 0  
L2-TRANS-P0-NR: 0  
L2-TRANS-P0-FREJ: 0  
L2-REC-P1-NR: 0  
L2-REC-P1-FREJ: 0  
L2-TRANS-P1-NR: 0  
L2-TRANS-P1-FREJ: 0  
CPU: 766  
RESET-FLG: 0  
START-TIME: 07:45:01  
END-TIME: 08:15:01  
DATE: 08/10/88  
HOURS: 7  
CLASS-ID: A58  
MINUTES-COLL: 30

CP-05373

Record #: 1125 Act: Y  
EID: 100011  
NET: 17  
COLLISIONS: 0  
PKTS-TRANS: 80  
PKTS-RECEIVED: 50  
PKTS-IN-ERROR: 0  
PKTS-RETRANS: 0  
KBYTES-RECEIVED: 20  
KBYTES-TRANS: 5  
HDLC-TRANS-UF: 23  
HDLC-TRANS-NR: 0  
HDLC-RECEI-UF: 477  
HDLC-RECEI-NR: 0  
L3-REC-P0-DP: 7  
L3-REC-P0-REJ: 0  
L3-REC-P0-RES: 0  
L3-REC-P0-RESC: 0  
L3-REC-P0-NR: 0  
L3-TRANS-P0-DP: 0  
L3-TRANS-P0-REJ: 0  
L3-TRANS-P0-RES: 0  
L3-TRANS-P0-RESC: 0  
L3-TRANS-P0-NR: 0  
L3-REC-P1-DP: 82  
L3-REC-P1-REJ: 0  
L3-REC-P1-RES: 0  
L3-REC-P1-RESC: 0  
L3-REC-P1-NR: 0  
L3-TRANS-P1-DP: 48  
L3-TRANS-P1-REJ: 0  
L3-TRANS-P1-RES: 0  
L3-TRANS-P1-RESC: 0  
L3-TRANS-P1-NR: 0  
L2-REC-P0-NR: 0  
L2-REC-P0-FREJ: 0  
L2-TRANS-P0-NR: 0  
L2-TRANS-P0-FREJ: 0  
L2-REC-P1-NR: 0  
L2-REC-P1-FREJ: 0  
L2-TRANS-P1-NR: 0  
L2-TRANS-P1-FREJ: 0  
CPU: 365  
RESET-FLG: 0  
START-TIME: 08:00:01  
END-TIME: 07:45:01  
DATE: 08/10/88  
HOURS: 8  
CLASS-ID: A58  
MINUTES-COLL: 142

OP-05373



**UNCLASSIFIED**

**ORIGINAL**

classification

<b>NPIC NOTICE OF CHANGE (NOC)</b>		1 <input type="checkbox"/> M&T <input type="checkbox"/> OPS <input type="checkbox"/> NISC <input type="checkbox"/> IC&T	
NOC NO. 2 <i>ON02618</i>		DATE: <i>11.18.88</i>	
Title: Logoff/Virterm Clears (HD02c-718)		Branch Chief's or M&T Team Supervisor's Approval: <i>[Signature]</i> STAT	
Originator: <i>[Redacted]</i>		Date: 11/16/88	Phone: <i>[Redacted]</i> STAT STAT
DR/RFC NO.: OP05176 <i>OP05373</i> OP05374	Final Assoc. NOCs <i>None</i>	<input checked="" type="checkbox"/> Perm <input type="checkbox"/> Temp Removal Date:	Priority E U (R) <i>U</i>
Type 12		Deliver From: 13A 1100/9X: <input type="checkbox"/> M&T <input type="checkbox"/> IC&T <input type="checkbox"/> OPS NISC: <input type="checkbox"/> M&A <input type="checkbox"/> OPS Delivery File:	Required 11 Installation Date:
SSW ASW DB HW	EMH AIDS TSP COINS	<i>NCC</i> PMS OTHER	Deliver To: 13B 1100/9X: <input type="checkbox"/> M&T <input type="checkbox"/> IC&T <input type="checkbox"/> OPS NISC: <input type="checkbox"/> M&A <input type="checkbox"/> OPS Receiving File:
Segment 14 <i>SPB/GS</i> CPCI _____ CPC _____		Completes RFC Task # _____ 15	
Dependencies: NONE			
Description of Change: 17 Modified statistics software for A58's BIU -W to correctly handle duplicate SRQ's. Change the parameters of "Rem con.c" subroutine to include a "flag" used to issue a unique clear diagnostic.			
Implementation/Verification Instructions: Install and test CM build HD02c-718 per installation and test procedures provided in build report. SPB/CS to verify. Will provide CIB with 0 level dump for IC replenishment.			
Operations Impact/Documents Affected: CSID		Redlines Required <i>Yes</i> <i>Not attached</i> <i>will provide 30 days after CERB approval</i>	
Board(S) Approval (M&T) 20	Installation (M&T) 21	Verification (M&T) 22	
<i>23</i> <i>1/23/88</i>	Installation (OPS) 24	Verification (OPS) 25	STAT
Board(S) Approval (NISC) 26	Installation (NISC) 27	Verification (NISC) 28	Closure 29
Sign/Date	Sign/Date/Time	Sign/Date/Time	Sign/Date

UNCLASSIFIED  
CLASSIFICATION

**ORIGINAL**  
 OPS     IC&T  
*BA*    *820*

<b>NPIC ANALYSIS REPORT (AR)</b>		AR NO. OP- <del>05176</del> <i>5373-2</i>
		DATE LOGGED: <i>1-4-89</i>
TECH INV.: _____	DATE: <i>12/27/88</i>	GROUP: SB/CS    PHONE: STAT
ASSOCIATED DR: OP-05176, ( <i>op-05373</i> )    op-05374		
RECOMMENDED PRIORITY: E    U    (R)		
AFFECTED CONFIGURATION ITEM(S)		CPCI:            CPC:
<b>SEGMENT:</b> <input type="checkbox"/> D/C <input type="checkbox"/> C/I <input type="checkbox"/> AIDS <input type="checkbox"/> O/E <input checked="" type="checkbox"/> C/S <input type="checkbox"/> COINS <input type="checkbox"/> E/R <input type="checkbox"/> OTHER:		<b>COMPUTER SYSTEM :</b> <input type="checkbox"/> 1100/7X OPS (NIC) <input type="checkbox"/> 1100/9X OPS <input type="checkbox"/> 1100/7X M&T(NIC) <input type="checkbox"/> 1100/9X M&T <input checked="" type="checkbox"/> NCC <input type="checkbox"/> OTHER:
<input type="checkbox"/> SOFTWARE AFFECTED: _____		<input type="checkbox"/> HARDWARE AFFECTED: _____
DOCUMENT(S) AFFECTED : _____		
<b>DETAILED ANALYSIS :</b>		
BIU Build HD02c-718 (ON-02618) was installed on OPS on 12/06. BIU resets with panic code C5 (stack overflow) became more prevalent after the application of this build. Subsequently, build 718 was backed-out on 12/08/88.		
<b>RECOMMENDED SOLUTION:</b>		
Recommend ON-02618 be withdrawn and associated DRs remain open.		
<b>DELIVERY SCHEDULE</b>	<b>COST</b>	<b>ESTIMATED COMPLETION DATE</b>
ANALYSIS	_____	_____
CODE	_____	_____
TEST	_____	_____
NOC IMPLEMENTATION	_____	_____
TOTAL COST	_____	_____
<b>REASSIGNMENT :</b>		
ACTION : T. I. <u>SB/CS</u> DUE DATE <u>1/27/89</u> PRIORITY <u>R</u>		
BOARD ACTION: <i>RAC</i> <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED            DATE: <u>06 JAN 89</u>		

FM 1151  
(8/87)

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CLASSIFICATION

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CLASSIFICATION

ORIGINAL 26

OPS  IC&T

NPIC ANALYSIS REPORT (AR)

AR NO. OPO5373  
Date Logged: 2.2.89

Tech Inv.: \_\_\_\_\_ Date: 09/22/88 Group: BIU Phone: \_\_\_\_\_ STAT  
Associated DR No.: 5373

Recommended Priority: E U **(R)**

Affected Configuration Item(s): \_\_\_\_\_ CPCI: \_\_\_\_\_ CPC: \_\_\_\_\_

Category:  
 D/C  C/I  AIDS  
 O/E  C/S  COINS  
 E/R  OTHER:

Computer System:  
 1100/7X OPS (NIC)  1100/9X OPS  
 1100/7X M&T (NIC)  1100/9X M&T  
 NCC  OTHER: BIU

Software Affected: ticmgt/wstrpt.a,v  
\_\_\_\_\_  
\_\_\_\_\_  
Document(s) Affected: \_\_\_\_\_  
\_\_\_\_\_

Hardware Affected: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Detailed Analysis:  
  
Incorrect processing of dupliate SRQs as explained in DR5374 could contribute to incorrect start and end collection time.

Recommended Solution:  
  
Correct processing of duplicate SRQs should eliminate this anomaly.

Delivery Schedule:	COST	ESTIMATED COMPLETION DATE
ANALYSIS	_____	_____
CODE	_____	_____
TEST	_____	_____
NOC IMPLEMENTATION	_____	_____
TOTAL COST	_____	_____

Reassignment: SB/CS  
Action: T.I.: \_\_\_\_\_ Due Date: 2/6/89 Priority: R  
BOARD ACTION: J.H.  APPROVED  DISAPPROVED DATE: **FEB 1989**

R FM 1151 (REV. 8/87) (11/80)

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CLASSIFICATION

CLASSIFICATION

**ORIGINAL**

OPS  IC&T

<b>NPIC DISCREPANCY REPORT (DR)</b>	IEG - _____	DR NO. <i>05776</i>
	NIC - _____	Date Logged: <u>10/17/88</u>
	PEG - _____	

Originator _____	Date: <u>10/14/88</u>	Group: <u>T&amp;V <i>SPB/CS</i></u>	Phone: _____	STAT <u>R</u>
Reported By _____	Date: <u>10/14/88</u>	Group: <u>T&amp;V</u>	Phone: _____	

Date/Time of Occurrence: \_\_\_\_\_ Recommended Priority:  E  U  R

Problem Type: \_\_\_\_\_

<input checked="" type="checkbox"/> Application S/W _____ BIU _____	<input type="checkbox"/> Hardware _____
Display ID _____	
<input type="checkbox"/> System S/W _____	<input type="checkbox"/> Communications _____
<input type="checkbox"/> Data Base _____	<input type="checkbox"/> Other _____

Category: <input type="checkbox"/> D/C <input type="checkbox"/> C/I <input type="checkbox"/> AIDS	Computer System: <input type="checkbox"/> 1100/7X OPS (NIC) <input type="checkbox"/> 1100/9X OPS
<input type="checkbox"/> O/E <input checked="" type="checkbox"/> C/S <input type="checkbox"/> COINS	<input type="checkbox"/> 1100/7X M&T (NIC) <input type="checkbox"/> 1100/9X M&T
<input type="checkbox"/> E/R <input type="checkbox"/> OTHER: _____	<input type="checkbox"/> NCC <input checked="" type="checkbox"/> OTHER: BIU

Title: 0 AREA BIU CRP DURING VC Type: 11

Problem Description: 12

Two problems occur during VC from Area W-BIU concerning CRP ('98') packets:

1. The '98' sent to slave processor which causes a 'REQ' message in connect audit trail has incorrection information.
2. The '98' sent to slave processor which causes a 'TRM' message in connect audit trail has incorrect information.

See attached cablescope and audit trail printouts.

Impact: 13

LVC is not consistent for VCs from Area BIUs.

Action: T.I.: 14 *SPB CS* Due Date: 11-7-88

R FM 1150 (REV. 8/87) (11/80)

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CLASSIFICATION

0P05776

4 A0 BD 32 11 31 B7 15 00 02 00 00 00 11 60 00 44 41 54 41 31 15 00 FA 93  
Time = 00:20:16.3

BD 81 5E 51 04 00 38 44  
Time = 00:20:16.3

BD A0 5E 52 31 11 B7 10 00 02 00 00 00 10 02 00 10 00 D7 5F  
Time = 00:20:16.4

5E 81 BD 51 04 00 11 5B  
Time = 00:20:16.4

5E A0 BD 54 11 31 B7 15 00 02 00 00 00 11 60 00 44 41 54 41 31 15 00 91 15  
Time = 00:20:16.4

BD 81 5E 71 04 00 03 47  
Time = 00:20:16.4

BD A0 5E 74 31 11 B7 10 00 02 00 00 00 10 02 00 10 00 E3 AA  
Time = 00:20:16.5

5E 81 BD 71 04 00 2A 58  
Time = 00:20:16.5

5E A0 BD 76 11 31 B7 15 00 02 00 00 00 11 60 00 44 41 54 41 31 15 00 47 90  
Time = 00:20:16.6

BD 81 5E 91 04 00 A2 4E  
Time = 00:20:16.6

BD A0 5E 96 31 11 B7 10 00 02 00 00 00 10 02 00 10 00 A9 D3  
Time = 00:20:16.7

5E 81 BD 91 04 00 8B 51  
Time = 00:20:16.7

5E A0 BD 98 11 31 B7 15 00 02 00 00 00 11 60 00 44 41 54 41 31 15 00 56 11  
Time = 00:20:16.7

BD 81 5E B1 04 00 99 4D  
Time = 00:20:16.7

BD A0 5E B8 31 11 B7 10 00 02 00 00 00 10 02 00 10 00 EF 77  
Time = 00:20:16.8

5E 81 BD B1 04 00 B0 52  
Time = 00:20:16.8

5E A0 BD BA 11 31 B7 15 00 02 00 00 00 11 60 00 44 41 54 41 31 15 00 80 94  
Time = 00:20:16.9

BD 81 5E D1 04 00 D4 48  
Time = 00:20:16.9

BD A0 5E DA 31 11 B7 10 00 02 00 00 00 10 02 00 10 00 D0 31  
Time = 00:20:17.0

5E 81 BD D1 04 00 FD 57  
Time = 00:20:17.0

FF A4 C0 03 11 11 01 0B 00 09 00 0B 00 A7 DC  
Time = 00:20:31.1



OP-05776

CPI

10/14/88

\* TOP OF DATA \*

5E 81 BD 3F 04 00 47 4E

Time = 00:20:16.1

BD 81 5E 73 04 00 BB F2

Time = 00:20:16.1

5E A0 BD 10 11 31 B7 1A 00 00 00 01 00 11 60 0B 88 44 43 48 30 00 11 18 91  
00 1A 00 5E 55

Time = 00:20:16.1

BD 81 5E 31 04 00 75 41

Time = 00:20:16.1

BD A0 5E 30 31 11 B7 1A 00 01 00 00 00 10 02 0F 88 00 11 18 91 44 43 48 30  
00 1A 00 B5 0A

Time = 00:20:16.2

5E 81 BD 31 04 00 5C 5E

Time = 00:20:16.2

00 88 BD 03 11 11 5E 18 00 01 00 00 00 10 02 0F 88 00 11 11 BD 44 43 31 B7

OP-05776

UNCLASSIFIED

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101488:141708	cmCONN	TYPE: RST; SADDR 33236 UC 000 to DADDR 00000 UC 000
101488:141725	cmCONN	TYPE: RST; SADDR 33237 UC 000 to DADDR 00000 UC 000
101488:142449	csCONN	TYPE: REQ; SADDR 17189 UC 000 to DADDR 17183 UC 000
101488:142547	csCONN	TYPE: REQ; SADDR 17189 UC 001 to DADDR 17183 UC 001
101488:142934	cmCONN	TYPE: RST; SADDR 17196 UC 000 to DADDR 00000 UC 000
101488:142935	cmCONN	TYPE: RST; SADDR 17199 UC 000 to DADDR 00000 UC 000
101488:143030	cmCONN	TYPE: RST; SADDR 49183 UC 000 to DADDR 00000 UC 000
101488:143112	cmCONN	TYPE: RST; SADDR 49183 UC 000 to DADDR 00000 UC 000
101488:143308	csCONN	TYPE: ACC; SADDR 17189 UC 000 to DADDR 49183 UC 000
101488:143429	csCONN	TYPE: TRM; SADDR 17189 UC 000 to DADDR 49094 UC 000

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UNCLASSIFIED

*OP-05776*

A4 C0 03 11 11 01 0B 00 09 00 0B 00 A7 DC  
Time = 00:20:31.1

00 D8 C0 03 04 98 2A 01 00 0F 0B 0B 21 26 29 0F 00 3F 8B  
Time = 00:20:31.1

00 D8 C0 03 04 98 2A 01 00 10 0C 0B 21 26 2F 0F 00 34 70  
Time = 00:20:31.1

FF B8 5E 03 11 00 C8 04 95 6A 01 00 00 00 00 02 00 00 04 00 00 00 00 00  
00 00 00 00 00 00 02 00 00 02 00 00 00 00 00 00 00 00 00 00 00 00 00  
00 00 00 00 00 00 00 00 00 00 00 00 00 00 02 00 00 00 00 00 00 00 00  
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 01 00 00 00 00  
00  
00  
00  
00 00 00 00 00 00 00 00 02 A7 31 34 3A 31 35 3A 30 31 31 34 3A 33 30 3A 30  
30 00 CA 00 71 94  
Time = 00:20:39.2

00 98 BD 03 11 31 5E 13 00 05 00 00 00 10 00 13 11 82 00 13 00 E8 8F  
Time = 00:21:37.1

5E A0 BD DC 11 31 B7 12 00 05 00 00 00 10 00 13 11 82 12 00 E9 44  
Time = 00:21:37.1

BD 81 5E F1 04 00 EF 4B  
Time = 00:21:37.1

BD A0 5E FC 31 31 B7 0D 00 06 00 00 00 0D 00 49 9C  
Time = 00:21:37.1

5E 81 BD F1 04 00 C6 54  
Time = 00:21:37.1

\* BOTTOM OF DATA \*

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CLASSIFICATION

**ORIGINAL**

OPS  IC&T

**NPIC ANALYSIS REPORT (AR)**

AR NO. 005776-1  
Date Logged: 2.2.89

Tech Inv.: \_\_\_\_\_ Date: 11/16/88 Group: BIU Phone: \_\_\_\_\_  
Associated DR No.: 5776

STAT  
STAT

Recommended Priority: E U **(R)**

Affected Configuration Item(s): \_\_\_\_\_ CPCI: \_\_\_\_\_ CPC: \_\_\_\_\_

**Category:**

- D/C  C/I  AIDS  
 O/E  C/S  COINS  
 E/R  OTHER: \_\_\_\_\_

**Computer System:**

- 1100/7X OPS (NIC)  1100/9X OPS  
 1100/7X M&T (NIC)  1100/9X M&T  
 NCC  OTHER: BIU

Software Affected: 3  
nl/buildcall.c,v  
nl/cnctact.c,v  
nl/rbiudedd.c,v

Hardware Affected: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Document(s) Affected: 3  
\_\_\_\_\_  
\_\_\_\_\_

**Detailed Analysis: 10**

CR and CLR connectivity Audit Messages (CRP) from A-58 do not provide correct information to NCC. Connectivity Audit routine never considers that a VC can be established across a bridge pair.

**Recommended Solution: 11**

If a W/S BIU at A-58 sends CR or CLR CRP messages, insert correct network number and D-value into CRP buffer to be forwarded to NCC.

Delivery Schedule: 12	<u>COST</u>	<u>ESTIMATED COMPLETION DATE</u>
ANALYSIS	_____	_____
CODE	_____	_____
TEST	_____	_____
NOC IMPLEMENTATION	_____	_____
TOTAL COST	_____	_____

Reassignment: SB/CS  
Action: T.I.: \_\_\_\_\_ Due Date: 2/6/89 Priority: R  
BOARD ACTION: CEAB  APPROVED  DISAPPROVED DATE: 2/6/89

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**ORIGINAL**

OPS  IC&T

<b>NPIC DISCREPANCY REPORT (DR)</b>	IEG - _____	DR NO. <u>Op-06003</u>
	NIC - _____	Date Logged: <u>12/6/88</u>
	PEG - _____	

Originator : _____	Date: <u>12/1/88</u>	Group: <u>T&amp;V</u>	Phone: _____	SSTAT <input type="checkbox"/>
Reported By: _____	Date: <u>12/2/88</u>	Group: <u>T&amp;V</u>	Phone: _____	

Date/Time of Occurrence: \_\_\_\_\_ Recommended Priority: E U  B

Problem Type: -

<input checked="" type="checkbox"/> Application S/W _____ BIU _____	<input type="checkbox"/> Hardware _____
Display ID _____	
<input type="checkbox"/> System S/W _____	<input type="checkbox"/> Communications _____
<input type="checkbox"/> Data Base _____	<input type="checkbox"/> Other _____

<b>Category:</b> <input type="checkbox"/> D/C <input type="checkbox"/> C/I <input type="checkbox"/> AIDS <input type="checkbox"/> O/E <input checked="" type="checkbox"/> C/S <input type="checkbox"/> COINS <input type="checkbox"/> E/R <input type="checkbox"/> OTHER: _____	<b>Computer System:</b> <input type="checkbox"/> 1100/7X OPS (NIC) <input type="checkbox"/> 1100/9X OPS <input type="checkbox"/> 1100/7X M&T (NIC) <input type="checkbox"/> 1100/9X M&T <input type="checkbox"/> NCC <input checked="" type="checkbox"/> OTHER: <sup>BIU</sup>
--	---

Title: 'TRM' CRP DURING VC Type: \_\_\_\_\_

**Problem Description:**

When a VC from the Area is terminated from the host side, the '98' sent to the master processor which causes a 'TRM' message in connect audit trail has the incorrect information. Cablescope and audit trail information attached.

**Impact:**

'TRM' message shows D-value of bridge BIU on master side instead of workstation BIU in the Area. LVC shows VC as still being active.

Action: T.I.: SPB CS Due Date: 12-28-88

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CLASSIFICATION

2P06003  
ATTACH

ORIGIN

201881145694	CMCDNN	TYPE1	ACC1	SADDF	49183	UC	005	to	DADDF	17189	UC	003
201881145818	CMCDNN	TYPE1	TRM1	SADDF	49183	UC	005	to	DADDF	17199	UC	003
201881145916	CMCDNN	TYPE1	ACC1	SADDF	49183	UC	006	to	BADDF	17189	UC	004
201891150087	CECDNN	TYPE1	TRM1	SADDF	17109	UC	004	to	DADDF	49183	UC	006

UNCLASSIFIED

Terminated from Host side  
Terminated from Area

OPO 6003  
ATTACH.

ORIGINAL

HEX

\* TOP OF DATA \*

00 98 B7 03 31 31 C7 1B 00 01 00 03 05 10 02 0F 88 00 44 31 B7 30 11 11 BD  
00 00 1B 00 41 65  
Time = 01:43:46.0

00 98 B7 03 31 11 C7 13 00 05 00 03 05 10 00 13 11 82 00 13 00 1F C3  
Time = 01:45:30.4

00 98 B7 03 31 31 C7 1B 00 01 00 04 06 10 02 0F 88 00 44 31 B7 30 11 11 BD  
00 00 1B 00 C7 AF  
Time = 01:46:28.3

\* BOTTOM OF DATA \*

\* TOP OF DATA \*

00 98 BD 03 11 31 B7 13 00 05 00 06 04 10 00 13 11 82 00 13 00 9A AB  
Time = 01:48:06.1

\* BOTTOM OF DATA \*

CP 3

CP 1

0706003  
ATTACH.

ORIGINAL

ASCII

CP3

\* TOP OF DATA \*

00 98 B7 03 1 1 C7 1B 00 01 00 03 05 10 02 0F 88 00 D 1 B7 0 11 11 BD

00 00 1B 00 A e

Time = 01:43:46.0

00 98 B7 03 1 11 C7 13 00 05 00 03 05 10 00 13 11 82 00 13 00 1F 03

Time = 01:45:30.4

00 98 B7 03 1 1 C7 1B 00 01 00 04 06 10 02 0F 88 00 D 1 B7 0 11 11 BD

00 00 1B 00 C7 AF

Time = 01:46:28.3

\* BOTTOM OF DATA \*

\* TOP OF DATA \*

00 98 BD 03 11 1 B7 13 00 05 00 06 04 10 00 13 11 82 00 13 00 9A AB

Time = 01:48:06.1

\* BOTTOM OF DATA \*

CP1



0P0603

ORIGINAL

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1201881133843	cmCOMM	TYPE: RST	SADDR	49183	UC	000	to	DADDR	00000	UC	000
1201881135416	csCOMM	TYPE: ACC	SADDR	17189	UC	000	to	DADDR	49183	UC	000
1201881140112	cmCOMM	TYPE: TRM	SADDR	49183	UC	000	to	DADDR	17189	UC	000
1201881141729	cmCOMM	TYPE: ACC	SADDR	49183	UC	003	to	DADDR	17189	UC	001
1201881141503	cmCOMM	TYPE: TRM	SADDR	49183	UC	003	to	DADDR	17189	UC	001
1201881141611	cmCOMM	TYPE: PEO	SADDR	49183	UC	004	to	DADDR	17189	UC	000
1201881141615	csCOMM	TYPE: TRM	SADDR	17189	UC	002	to	DADDR	49183	UC	004

UNCLASSIFIED  
CLASSIFICATION

ORIGINAL 20  
 OPS  C&T

NPIC ANALYSIS REPORT (AR)

AR NO. 0906003-1  
Date Logged: 2.2.89

Tech Inv.: \_\_\_\_\_ Date: 10 JAN 89 Group: BIU Phone: \_\_\_\_\_ STAT  
Associated DR No.: 06003

Recommended Priority: E U **(R)**

Affected Configuration Item(s): \_\_\_\_\_ CPCI: \_\_\_\_\_ CPC: \_\_\_\_\_

Category:

- D/C
- O/E
- E/R
- C/I
- C/S
- OTHER:
- AIDS
- COINS

Computer System:

- 1100/7X OPS (NIC)
- 1100/7X M&T (NIC)
- NCC
- 1100/9X OPS
- 1100/9X M&T
- OTHER: BIU

Software Affected: nl/cnctact.c.v

Hardware Affected: \_\_\_\_\_

Document(s) Affected: \_\_\_\_\_

Detailed Analysis: 10

When a host BIU terminates a VC established across the bridges, the corresponding CRP does not have correct information for NCC's LVC.

Recommended Solution: 11

Change the nl software to include the above scenario and insert correct information into the CRP message.

Delivery Schedule: 12

	<u>COST</u>	<u>ESTIMATED COMPLETION DATE</u>
ANALYSIS	_____	_____
CODE	_____	_____
TEST	_____	_____
NOC IMPLEMENTATION	_____	_____
TOTAL COST	_____	_____

Reassignment: \_\_\_\_\_

Action: T.I.: SB/cs Due Date: 2/6/89 Priority: R

BOARD ACTION: celb  APPROVED  DISAPPROVED DATE: 2/6/89

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(11/80)

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**ORIGINAL**

OPS  IC&T

NPIC DISCREPANCY REPORT (DR)	IEG _____	DR NO. <u>OP-0607</u>
	NIC _____	DATE LOGGED: <u>21DEC88</u>
	PEG _____	

ORIGINATOR _____	DATE: <u>21DEC88</u>	GROUP: <u>SPB/CS</u>	PHONE _____	STSTAT
REPORTED BY _____	DATE: <u>21DEC88</u>	GROUP: <u>SPB/CS</u>	PHONE _____	

DATE/TIME OF OCCURRENCE: _____	RECOMMENDED PRIORITY: E U <input checked="" type="checkbox"/> R
PROBLEM TYPE:	
<input type="checkbox"/> APPLICATION S/W _____	<input type="checkbox"/> HARDWARE _____
DISPLAY ID _____	<input type="checkbox"/> COMMUNICATIONS _____
<input checked="" type="checkbox"/> SYSTEM S/W <u>BIU-W</u>	<input checked="" type="checkbox"/> OTHER <u>BIU-W</u>
<input type="checkbox"/> DATA BASE _____	

CATAGORY:	COMPUTER SYSTEM:
<input type="checkbox"/> D/C <input type="checkbox"/> C/I <input type="checkbox"/> AIDS	<input type="checkbox"/> 1100/7X OPS (NIC) <input type="checkbox"/> 1100/9X OPS
<input type="checkbox"/> O/E <input checked="" type="checkbox"/> C/S <input type="checkbox"/> COINS	<input type="checkbox"/> 1100/7X M&A (NIC) <input type="checkbox"/> 1100/9X M&A
<input type="checkbox"/> E/R <input type="checkbox"/> OTHER	<input type="checkbox"/> NCC <input checked="" type="checkbox"/> OTHER BIU-W

TITLE: BIU-W RESET W/PANIC CODE "C5"      TYPE: BIU-W

**PROBLEM DESCRIPTION:**  
The "C5" panic code , "Stack Overflow" occurs on a more frequent basis than other types of panic codes, as shown by the attached copies of a statistics collection chart and accompanying bar charts.

**IMPACT:**  
When this occurs the Aids Users get a "Comm link down " & "Comm link up" message. The transaction may get lost.

ACTION:	T.I.: <u>HEB SPB CS</u>	DUE DATE: <u>10-JAN 89</u>
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FM 1150  
(8/87)

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CLASSIFICATION

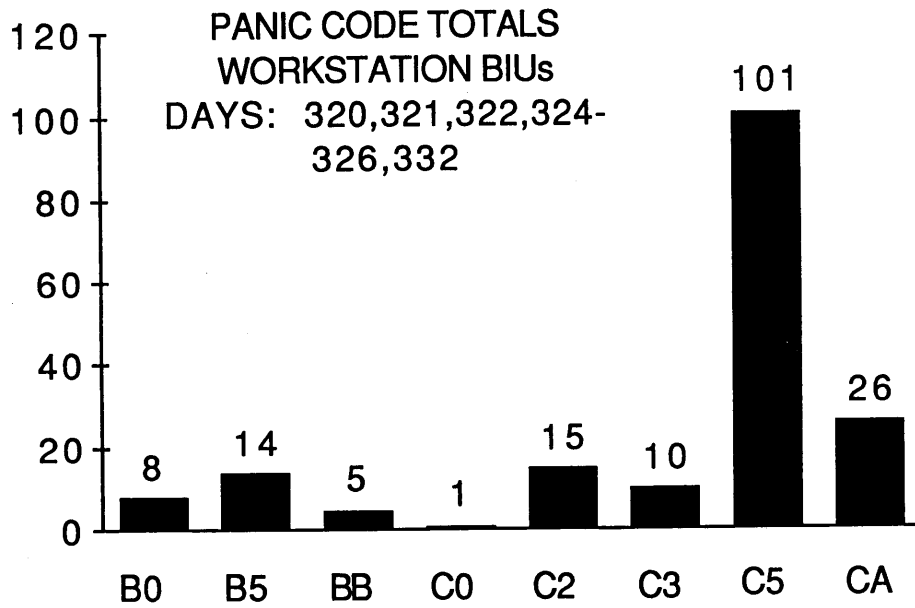
**ORIGINAL**

*CPUG 076  
ATTN: H*

	A	B	C	D	E	F	G	H	I
1									
2									
3									
4									
5									
6									
7									
8									
9	PANIC CODE	WS/320	WS/321	WS/322	WS/324	WS/325	WS/326	WS/332	
10	0	18	23	32	15	170	19	5	282
11	6								0
12	10	0		0		1	2		3
13	30				1				1
14	37	0		0					0
15	3C	0				1			1
16	3F	0							0
17	40					1			1
18	41					1			1
19	50					4			4
20	52	0	1						1
21	7F								0
22	80	0			1	5			6
23	A0					4		3	7
24	B0	2	6						8
25	B1	0							0
26	B5		12				1	1	14
27	B7	0							0
28	BB	0	1		2	1	1		5
29	CO					1			1
30	C2	4	5	5				1	15
31	C3	3	7						10
32	C5	24	30	23	4	6	10	4	101
33	CA	12	9	3			1	1	26
34	D7	1	0	1					2
35	DD							1	1
36	E0					3			3
37	FB				1	2			3
38	FF								0
39	total panics	64	94	64	24	200	34	16	496

**ORIGINAL**

*CP 6416  
47744*



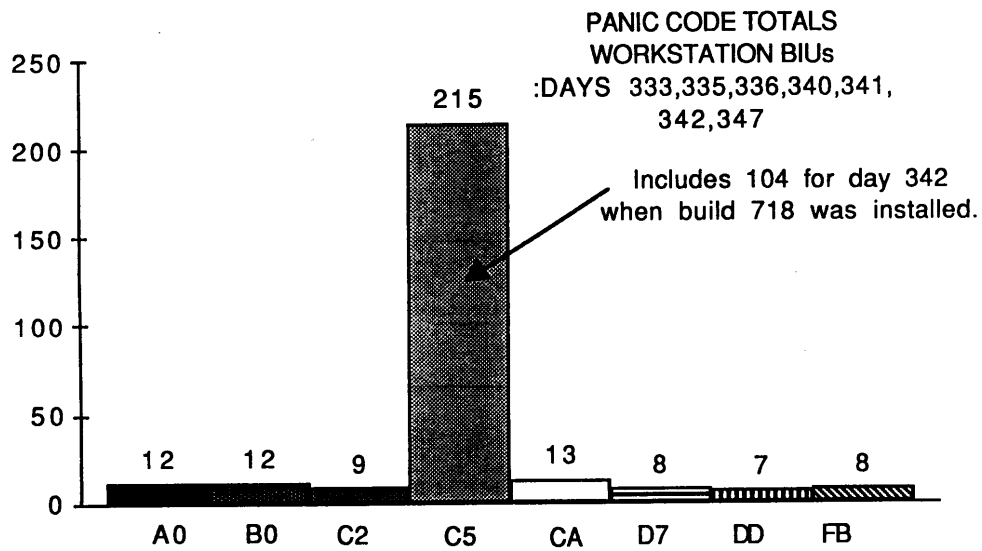
**ORIGINAL**

*OPOLW  
ATTACH*

	A	B	C	D	E	F	G	H	I
1									
2									
3									
4									
5									
6									
7									
8									
9	PANIC CODE	WS/333	WS/335	WS/336	WS/340	WS/341	WS/342	WS/347	
10	0	39	16	36	34	14	17	24	180
11	6		1						1
12	10			1					1
13	37					1			1
14	3C		1						1
15	3F					3			3
16	50	1							1
17	7F					1			1
18	A0	5					1	6	12
19	B0	1	3	1	5	1	1		12
20	B5			1	2	1	2		6
21	BB		3		2	1			6
22	C2		2	2	4	1			9
23	C3		2	1					3
24	C5	14	18	25	16	27	104	11	215
25	CA	2	2	6	2	1			13
26	D7					7		1	8
27	DD	1				6			7
28	FB	2	1		2	1		2	8
29	FF				2				2
30	total panics	65	49	73	69	65	125	44	490

**ORIGINAL**

*OP 6-76  
ATTACH.*



# ORIGINAL

UNCLASSIFIED

CLASSIFICATION

OPS  IC&T

<b>NPIC ANALYSIS REPORT (AR)</b>	AR NO. OP-06076 - 1 DATE LOGGED: 2.2.89
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TECH INV.: _____	DATE: 01/31/89	GROUP: SB/CS	PHONE _____	STATAT _____
ASSOCIATED DR: OP-06076				

RECOMMENDED PRIORITY: E U (R)

AFFECTED CONFIGURATION ITEM(S) \_\_\_\_\_ CPCI: \_\_\_\_\_ CPC: \_\_\_\_\_

<b>SEGMENT:</b> <input type="checkbox"/> D/C <input type="checkbox"/> C/I <input type="checkbox"/> AIDS <input type="checkbox"/> O/E <input checked="" type="checkbox"/> C/S <input type="checkbox"/> COINS <input type="checkbox"/> E/R <input type="checkbox"/> OTHER: _____	<b>COMPUTER SYSTEM :</b> <input type="checkbox"/> 1100/7X OPS (NIC) <input type="checkbox"/> 1100/9X OPS <input type="checkbox"/> 1100/7X M&T(NIC) <input type="checkbox"/> 1100/9X M&T <input checked="" type="checkbox"/> NCC <input type="checkbox"/> OTHER: _____
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<input type="checkbox"/> SOFTWARE AFFECTED: _____	<input type="checkbox"/> HARDWARE AFFECTED: _____
DOCUMENT(S) AFFECTED : _____	_____

**DETAILED ANALYSIS :**  
 "C5" panics indicate a stack overflow. Interrupt service routines used the interrupted tasks' stack, which could cause the stack to overflow.

**RECOMMENDED SOLUTION:**  
 Allocate stack space for the interrupt service routines, thereby preventing them from using other tasks' stack.

DELIVERY SCHEDULE	COST	ESTIMATED COMPLETION DATE
ANALYSIS	_____	_____
CODE	_____	_____
TEST	_____	_____
NOC IMPLEMENTATION	_____	_____
TOTAL COST	_____	_____

**REASSIGNMENT :**

ACTION : T. I. SB/CS    DUE DATE 2/6/89    PRIORITY R

BOARD ACTION: CERB  APPROVED     DISAPPROVED    DATE: 2/6/89

FM 1151  
(8/87)

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