

Prepared (also subject responsible if other) Mahendra Prabhu M		No.		
Approved	Checked	Date 15-05-2020	Rev Ver1.0	Reference

# MOP for BBU Board Maintenance Link Failure

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Alarm

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<b>Error! Bookmark not defined.</b>	
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## Alarm Description:

This alarm is due to the maintenance link failure between the main control board and sub boards.

## Possible Causes:

- Fault in board hardware.
- Fault in main control board.
- Fault in Interconnection board.
- When the board is not installed properly.
- When the board resets automatically.

## Alarm Location:

Identify the slot number of the alarm using the location information.

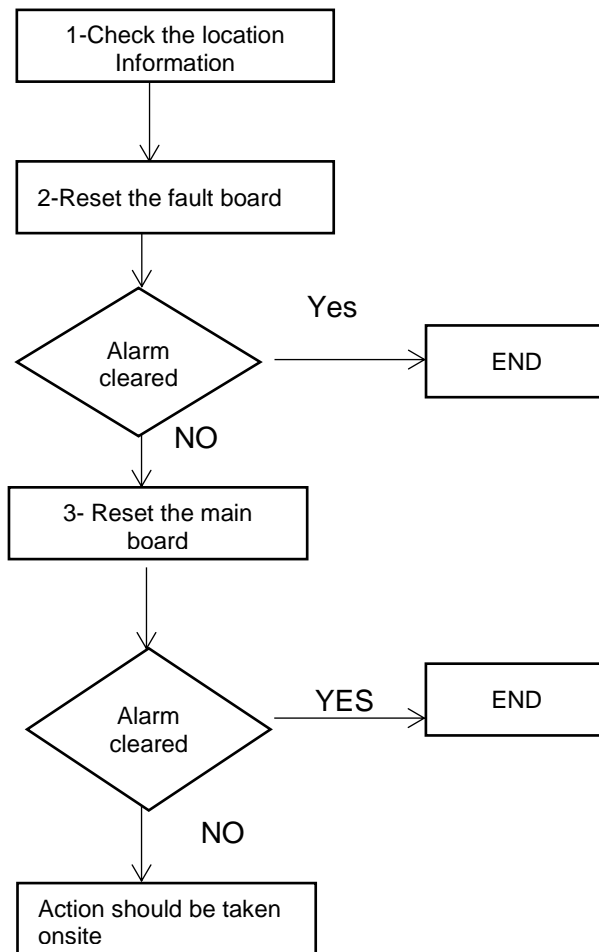
Name	Location Information
BBU Board Maintenance Link Failure	Cabinet No.=0, Subrack No.=0, Slot No.=2, Board Type=UBBP

## Pre-processing:

Check for any correlated alarms. If yes, clear those alarms.

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## Remote Process:



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### 1-Check the location Information

- Cabinet No.=0, Subrack No.=0, Slot No.=2

Name	Location Information
BBU Board Maintenance Link Failure	Cabinet No.=0, Subrack No.=0, Slot No.=2, Board Type=UBBP

### 2-Reset the fault board

- Open the MML cmd tab
- Run the command **RST BRD**  
Cabinet No.=0, Subrack No.=0, Slot No.=2  
CMD: RST BRD:CN=0,SRN=0,SN=2;

Command Editor

Show Parameter Panel

RST BRD

\* Cabinet No. 0 \* Subrack No. 0 \* Slot No. 2

Forced Reset Flag NO ( NO )

RST BRD:CN=0,SRN=0,SN=2;

Run

### 3- Reset the main board (UMPT Board)

- Open the MML cmd tab
- Run the command **DSP BRD** to query board types.  
CMD: DSP BRD;;

DSP BRD;;

TN\_SRAN\_CBE296

+++ TN\_SRAN\_CBE296 2020-05-15 15:00:44

O&M #65413

%%/\*1885363083\*/DSP BRD:;%%

RETCODE = 0 Operation succeeded.

Display Board

Cabinet No.	Subrack No.	Slot No.	Config Type	SubBoard Type	Administrative State	Standby Status	Operational State
0	0	2	UBBP	NULL	Unblocked	NULL	Enabled
0	0	3	UBBP	NULL	Unblocked	NULL	Enabled
0	0	4	UBBP	NULL	Unblocked	NULL	Enabled
0	0	6	UMPT	NULL	NULL	Active	Enabled
0	0	16	FAN	NULL	NULL	NULL	Enabled

- Run the command **RST BRD**  
Cabinet No.=0, Subrack No.=0, Slot No.=6  
CMD: RST BRD:CN=0,SRN=0,SN=6;

Command Editor

Show Parameter Panel

RST BRD

\* Cabinet No. 0 \* Subrack No. 0 \* Slot No. 6

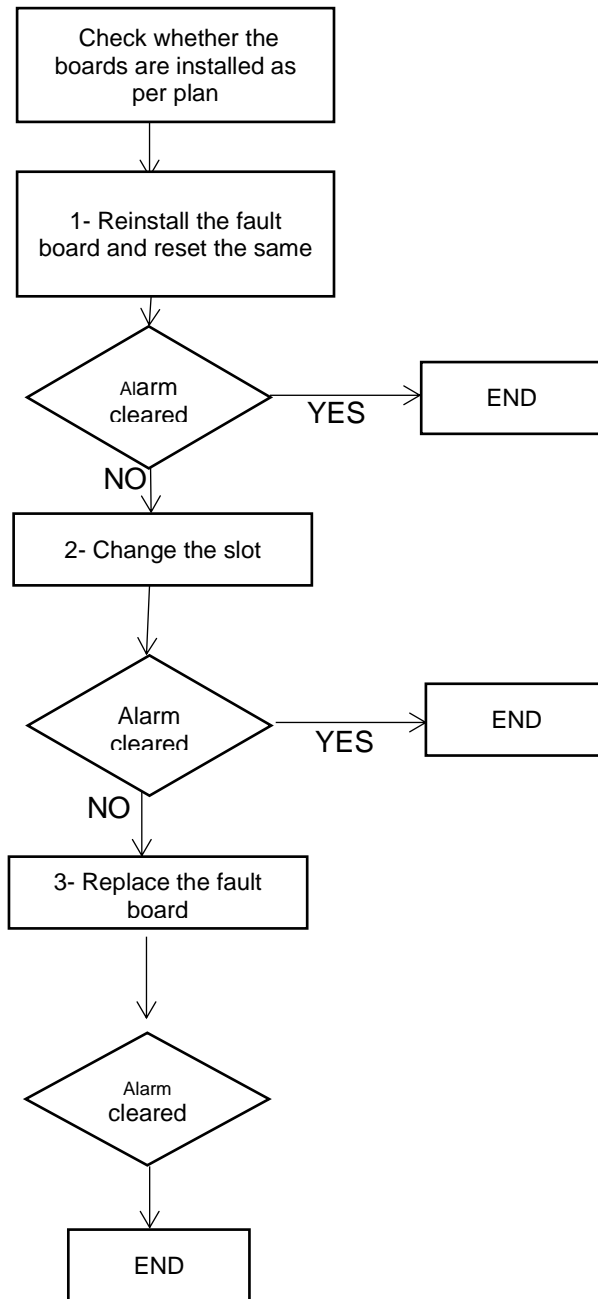
Forced Reset Flag NO ( NO )

RST BRD:CN=0,SRN=0,SN=6;

Run

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## Onsite Process:



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## 1- Reinstall the fault board and reset the same

- Remove the board from the sub rack.
- Insert the board in the sub rack.
- Then hard reset( PWR Off & ON) it.

## 2- Change the slot

- Remove the board from existing slot.

**CMD: RMV BRD:SN=2;**

Command Editor

☒ Show Parameter Panel ☆ RMV BRD Run

Cabinet No.  Subrack No.  \* Slot No.

RMV BRD:SN=2;

- Insert the board in new slot.

**CMD:-ADD BRD:SN=3,BT=UBBP;**

Command Editor

☒ Show Parameter Panel ☆ ADD BRD Run

Cabinet No.  Subrack No.  \* Slot No.

\* Board Type  \* Base Band Work Standard  Hardware Capacity Enhance

Board Specification  Cell Channel Number Extension  Standard Ratio

CPRI Interface Type  LTE Flexible Specification Switch

ADD BRD:SN=3,BT=UBBP;

- If RRU is configured in this slot, then remove the RRU configuration and reconfigure in the new slot.

**CMDs:-**

**LST RRU;;**

**LST RRUCHAIN;;**

**RMV RRU:CN=0,SRN=60,SN=0;**

**RMV RRU:CN=0,SRN=61,SN=0;**

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```





RMV RRU:CN=0,SRN=62,SN=0;
RMV RRUCHAIN:RCN=0;
RMV RRUCHAIN:RCN=1;
RMV RRUCHAIN:RCN=2;
RMV BRD:SN=2;
ADD BRD:SN=3,BT=UBBP,BBWS=GSM-0&UMTS-1&LTE_FDD-0&LTE_TDD-0;
ADD RRUCHAIN:RCN=0,TT=CHAIN,BM=COLD,AT=LOCALPORT,HSRN=0,HSN=3,HPN=0;
ADD RRUCHAIN:RCN=1,TT=CHAIN,BM=COLD,AT=LOCALPORT,HSRN=0,HSN=3,HPN=1;
ADD RRUCHAIN:RCN=2,TT=CHAIN,BM=COLD,AT=LOCALPORT,HSRN=0,HSN=3,HPN=2;
ADD
RRU:CN=0,SRN=60,SN=0,TP=TRUNK,RCN=0,PS=0,RT=MRRU,RS=UO,RXNUM=2,TXNUM=2,ALMPROCSW=
ON,ALMPROCTHRHLD=25,ALMTHRHL=14,RFDCPWROFFALMDetectSW=OFF;
ADD
RRU:CN=0,SRN=61,SN=0,TP=TRUNK,RCN=1,PS=0,RT=MRRU,RS=UO,RXNUM=2,TXNUM=2,ALMPROCSW=
ON,ALMPROCTHRHLD=25,ALMTHRHL=14,RFDCPWROFFALMDetectSW=OFF;
ADD
RRU:CN=0,SRN=62,SN=0,TP=TRUNK,RCN=2,PS=0,RT=MRRU,RS=UO,RXNUM=2,TXNUM=2,ALMPROCSW=
ON,ALMPROCTHRHLD=25,ALMTHRHL=14,RFDCPWROFFALMDetectSW=OFF;

MOD BBP:CN=0,SRN=0,SN=3,BBWS=GSM-0&UMTS-1&LTE_FDD-1&LTE_TDD-0&NBIOT-0;

```

### 3- Replace the fault board





- Remove the fault board and insert a new board in the slot.
- If the main board is fault then follow the below steps.
  - Collect the Backup file.
  - Remove the UMPT board and insert a new board in the slot.
    - Login the WEBLMT**
    - Download the software**

History command: <input type="text"/>		 	
Command input: <input type="text" value="DLD SOFTWARE"/>		 	
IP Mode	<input type="text" value="IPv4(IPv4)"/>	FTP Server IP	<input type="text" value="192.168. 0 . 48"/>
User Name	<input type="text" value="admin"/>		
Password	<input type="text"/>	Directory Name	<input type="text"/>
Software Type	<input type="text" value="SOFTWARE(Softw..."/>		
Software Version	<input type="text"/>	Guage Option	<input type="text" value="Y(Guage)"/>
Download by Config Flag	<input type="text" value="CFG(Download by..."/>		
Delay Download Flag	<input type="text" value="YES(Delay Downl..."/>	Application Type List	<input type="text" value="NodeB"/>

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**c. Activate the Software.**

ACT SOFTWARE:OT=NE, SWI=SOFTWARE;

History command:	<input type="text"/>	 
Command input:	ACT SOFTWARE	 
Operation Type	NE(The Whole NE)	Software Type SOFTWARE(Softw... Software Version <input type="text"/>
Application Type List	<input type="text"/>	





**d. Download the CFG File**

DLD CFGFILE:MODE=IPV4, IP="192.168.0.48", USER="admin", ENCRYPTMODE=UNENCRYPTED;

History command:	<input type="text"/>	 
Command input:	DLD CFGFILE	 
IP Mode	IPV4(IPv4)	FTP Server IP 192.168.0.48 User Name admin
Password	<input type="text"/>	Directory Name <input type="text"/> File Name <input type="text"/>
File Type	XML(XML Format)	Area Flag STANDBY(Standby) Gauge Option Y(Send Progress)
Encrypted Mode	UNENCRYPTED(...)	Compress Flag UNCOMPRESSE...

**e. Activate the CFG File**

ACT CFGFILE:EFT=IMMEDIATELY;

History command:	<input type="text"/>	 
Command input:	ACT CFGFILE	 
Mode	XML(XML Mode)	Effect Type IMMEDIATELY(im... Product Type <input type="text"/>