



# National Centre for Next Generation Network

## Monthly Information Bulletin

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### STATUS OF NGN C-5 SWITCH

#### **A. General**

1. Inter Operability Test Schedule approved.
2. Acceptance Testing Schedule for Battery, Power Plant & UPS approved.
3. Acceptance Testing Schedule for LMG and LAN Switch approved.
4. Acceptance Testing Schedule for IMS Core equipment approved.
5. Validation Testing Schedule for Core & Access Switch is approved.

#### **B. Infrastructure Status of South & East Zone**

Installation and A/T of Battery & Power plant completed. Installation of UPS completed at Bangalore, Hyderabad, Kolkata, Bhubaneshwar.

#### **C. Integration with existing BSNL network for South & East zone**

1. Integration of IP/MPLS PE Router with IMS C-5 core equipment completed.
2. Integration of IP TAX on SIP I with IMS C-5 core equipment is complete at South & East zone
3. Integration of PLMN (SIP I) with IMS C-5 switches is complete at South zone and calls to PLMN routed via IP TAX in East zone.
4. Integration of TDM TAX through STM with IMS C-5 core is complete.
5. Integration BBRAS with IMS C-5 core is complete.
6. Integration of CDR billing with IMS C-5 core equipment is in progress.
7. Integration with C-DOT MAX NG Gurgaon is complete.
8. Integration with C-DOT MAX NG Noida is complete
9. Integration with PRBT is complete on E1.

#### **D. Primary Inter Operability/ Interworking test**

Primary inter operability/ interworking tests is the basic check for interworking of NGN network and network equipments with existing BSNL network, like NGN with PSTN, PLMN, CDoT MAX NG, etc. The IOT tests are being conducted at NGN Core site Bangalore as per the approval of competent authority, BSNL Corporate Office, New Delhi.

The status of IOT tests for NGN Core carried out at Bangalore is as mentioned below:

Total IOT test cases: 158

Total Test cases carried out: 154

Total successful test cases: 150

Total partially successful test cases: 4

Pending test cases: 4

The status of IOT tests for NGN Access carried out at Bangalore is as mentioned below:

Total IOT test cases: 10

Total Test cases carried out: 9

Total successful test cases: 9

Total partially successful test cases: 0

Pending test cases: 1

Primary Inter-operability/ interworking test both for NGN core and NGN Access equipment are in progress at NGN Core site, Bangalore.

**E. Acceptance Testing of NGN Core sites**

A/T at NGN Core site Bangalore, Hyderabad, Kolkata, Bhubaneswar are under progress.

**F. Validation Testing of NGN Core site-Bangalore**

V/T has been started at NGN Core site Bangalore.

**G. Infrastructure Status of West & North Zone**

Civil and Electrical works are completed at Pune & Ahmedabad and Civil & Electrical works at Lucknow is complete. Civil & Electrical work is in progress at Chandigarh.

**1. TECHNICAL OBSERVATION**

**1.1 C-DOT: Mis-handling of IOPs**

In C-DOT switches, it was observed that due to repeated pressing of reset switch of IOPs system files (ED and BD files) may get corrupted or sometimes results in complete data loss. In this regard, C-DOT has emphasized that the reset switch of IOP should never be pressed before bringing the IOP to Cold-start level. In case, the Console Terminal is not accepting any command following steps should be followed in place of resetting of IOP:

- a) Shift the cable to SIO-2 / SIO-4 port.
- b) Login into "adm" & give <init-iop:2,1; & <init-iop:1,1; from this terminal.
- c) IOP will start going to cold-start but no messages will be shown.
- d) Shift the cable to Console & if console-login appears, login into root account.
- e) Give #init 2 to bring IOP to warm-start.
- f) In case console-login does not appear, then hard reset will be required.
- g) Wait for 10 minutes & then press 'abort' switch first & then 'reset' switch.
- h) Boot IOP by "bo" command to bring it to warm-start level.

It is therefore, impressed upon exchange in-charge, not to press the reset switch of IOP. In case of any problem observed in IOPs they should follow the above procedure as suggested by C-DOT.

## 2. **ACTIVITIES CARRIED OUT DURING MAY 2014**

### A. **C-DOT TECHNOLOGY**

#### ✦ **INSPECTION**

Inspection of following CDOT exchanges was carried out during May 2014:

**South Zone:** Machilipatnam, Zillaparishad, Vuyyuru, Gannavaram, Jagaiyapet, Gadwal, Mahabubnagar, Padmavathy Colony, Nagarkurnool, Wanaparthi, Chickmagalur, Jyothinagar, Tumkur Local, Tumkur XL, APMC RSU, Jayanagara, Tiptur, Turuvakere, Karkala, Bantwal, Villupuram, K K nagar, ESP Colony, Thirupathur, Thiruvannamalai, Thamarainagar, Vengikkal, Attur, Velur.

#### ✦ **SUPPORT EXTENDED BY C-DOT ORGANISATION**

Software for C-DOT Switches has been prepared by C-DOT and provided on Deliverable Media (Cartridges / EPROMs): Nil during May 2014.

### **CORRECTIVE MAINTENANCE**

▪ Problems Solved (Telephonically/ in writing)	:	434
▪ Exchange Data Correction	:	3

### B. **NEW TECHNOLOGY**

#### ✦ **INSPECTION**

Inspection of following New Technology Exchanges was carried out during May 2014:

#### **South Zone:**

- **OCB-283:** Raj Bhavan, Tidel Park, Harbour, Agasthiar Nagar, Annanagar Quarters, Taramani Link Road, Ekkaduthangal, Pallikaranai, Velachery, Thiruvannamalai.
- **5ESS:** Pandeswar, Marnamikatta, Ullala.
- **AXE-10:** Avadi.

### 3. PLAN FOR PERIOD : JUNE – AUGUST 2014

#### A. C-DOT TECHNOLOGY

##### ✦ INSPECTION

Inspection of the following CDOT Exchanges has been planned for period from June 2014 to August 2014:

##### **JUNE 2014:**

**South Zone:** Usilampatti, Thirumangalam, Theni, Bodinayakkanur, Ottanchatiram, Kodaikanal, Palani, Cumbum, Jangareddigudam, Nidadavulu, Tanuku, Bhadrachalam, Kothagudam, Khammam, Periyakulam, Batlagundu, Dindigul, Mancherial, Sirpurkhagaznagar.

##### **JULY 2014:**

**South Zone:** Kulasekaram, Colachel, Kanyakumari, Neyyatinkara, Nedumangadu, Ariyanadu, Hiriyyur, Holakere, Attingal, Parassala, Kallambalam, Bhadravati, Sagar.

##### **AUGUST 2014:**

**South Zone:** Sulurpet, Mysore Gokulam I, Mysore Gokulam II, Mysore Gokulam III, Pattukottai, Kuthanallur, Manaparai, Thuraiyur, Kulthalai, Kotagiri, Ooty, Gudalur, Coonoor, Aranthangi, Ponnamaravathy, Pudukottai, Ariyalur, Perambalur, Musiri.

#### B. NEW TECHNOLOGY

##### ✦ INSPECTION

Inspection of the following New Technology Exchanges has been planned for period from June 2014 to August 2014:

##### **JUNE 2014:**

##### **South Zone:**

- **OCB-283:** Tirur, Adilabad, R K Nagar, St.Thomas Mount RSU → Kilkattalai, Mugalivakkam, Vijayanagar, Ramavaram, Nanganallur, Thillai Ganga Nagar.
- **5ESS:** Villapuram, Tirur, Malapuram, Perinthalmanna, Ponnani.

- **AXE-10:** Anna Road.
- **EWSD:** Khammam.

**JULY 2014:**

**South Zone:**

- **OCB-283:** Nedumangadu, K K Nagar Tandem, K K Nagar Local, K K Nagar RSU → Maduravoyal, Valasaravakkam, St.Thomas Mount RSU → Ganesh Nagar.
- **5ESS:** Neyyatinkara, Attingal, Varkkala, Madhavaram RSU → Periyar Nagar, MKB Nagar.
- **AXE-10:** Anna Road RSU → Ambattur OT.

**AUGUST 2014:**

**South Zone:**

- **OCB-283:** Maduranthagam, Thanjavur, Mannargudi, Haddows Road RSU → Valluvarkottam.
- **5ESS:** Madhavaram, Haddows Road, Madhavaram RSU → Jawahar Nagar, Thiru Vi Ka Nagar, Laxmipuram.
- **AXE-10:** Anna Nagar RSU → Korattur.
- **EWSD:** K K Nagar EWSD → Virugambakkam



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**CIRCLE WISE DETAIL OF SUPPORT EXTENDED BY C-DOT ORGANIZATION DURING  
MAY 2014**

S.N.	Telecom Circle	C1	C2	C3	C4	C5	C6	C7
1	A & N							
2	Andhra Pradesh	28	2					
3	Assam							
4	Bihar	2						
5	Chhattisgarh							
6	Gujarat	15	2					
7	Haryana	45						
8	Himachal Pradesh	25						
9	J & K			1				
10	Jharkhand	3		1				
11	Karnataka	19	3					
12	Kerala	4	6					
13	Madhya Pradesh	51	2					
14	Maharashtra	13	4					
15	NE-I (Shillong)	7						
16	NE-II (Dimapur)							
17	Orissa	6	1					
18	Punjab	44						
19	Rajasthan	50						
20	Tamil Nadu	18	3					
21	UP - East	36						
22	UP - West	49		1				
23	Uttarakhand	11						
24	West Bengal	3	2					
	<b>Total</b>	<b>434</b>	<b>25</b>	<b>3</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

C1	Problems Solved (Telephonically/ In-writing)	<b>434</b>
C2	Site Visit	<b>25</b>
C3	Exchange Data Correction	<b>3</b>
C4	Engineering Change Note (ECN) Implementation	<b>Nil</b>
C5	Software Retrofits	<b>Nil</b>
C6	Deliverable Media Preparation (Cartridges/ EPROMs)	<b>Nil</b>
C7	Critical Field Problems	<b>Nil</b>

## **Maintenance support philosophy for landline Exchanges in BSNL network**

### **✦ New Technology Exchanges i.e. OCB-283, EWSD, AXE-10 and 5ESS**

- AMC for hardware and software support with vendors: Alcatel-Lucent, ITI Ltd., Nokia-Siemens and Ericsson.
- The AMC includes tele-assistance, on-site assistance, PCB repairing, computer terminal repairing, MTU repairing, racks inter-connecting cables repairing, software upgradation etc.
- Nodal officer in circle/ region: PGMs/ GMs/ DGMs in Circle office
- Reference:
  - No. 43-1/2004-PHM/Vol. III dated 20.05.2005
  - No. 117-03/2004-MMD/Vol.III dated 11.03.2008
  - No.43-10-2012/NWO-CFA-MSE dated 11.06.2012
  - No.43-1/2012/NWO-CFA-MSE dated 24.08.2012

### **✦ C-DOT Exchanges**

- Software support: MoU with C-DOT comprising tele-assistance and on-site assistance
- References:
  - No. 36-2/2006-PHM dated 23.05.2007
  - No. 36-2/2005-PHM-MSE dated 23.05.2008
  - No. 36-2/2005-PHM-MSE dated 30.05.2008
  - No. 36-1/2011-PHM-MSE dated 21.12.2011
- Hardware support: the field units should get the C-DOT PCBs repaired through following manner:
  - Through in-house repair centers
  - Through tender at circle level from authorized manufacturers
- Reference:
  - No. 36-3/2004-PHM dated 22.03.2005
  - No. ND/NCES/32-1/Vol.V/61 dated 02.01.2009
  - No. 36-4/2008-PHM-MSE dated 04.04.2012

### **✦ E10B Exchange**

- Hardware support: the faulty E10B PCBs shall be got repaired through Annual repair contract through ITI Ltd. only.
- References:
  - No. 19-11/2006-PHM/MSE dated 19.06.2007
  - No. ND/NCES/8-3/PNC/Vol. V/53 dated 23.06.2007
  - No. ND/NCES/8-3/PNC/Vol.VI/30/1481 dated 31.10.2009
  - No. ND/NCES/8-3/PNC/Vol.VII/5 dated 15.01.2013

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