



National Centre for Next Generation Network

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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 in process for approval.

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: 154

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. Infrastructure Status of West & North Zone

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

1. TECHNICAL OBSERVATIONS

1.1 C-DOT: Wrong re-setting of IOP

In C-DOT switches, it was observed that whenever console terminal is showing system error messages or not accepting any command, the field staff used to press the reset switch of IOPs without checking the reasons for the problem. 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, shift cable to SIO-2 / SIO-4 port. Login into admn & give <init-iop:2,1; & <init-iop:1,1; from this terminal. IOP will start going to cold-start but no messages will be shown. Shift the cable to Console & if console-login appears, login into root account. Give #init 2 to bring IOP to warm-start. In case, console-login does not appear, then hard reset will be required. Wait for 10 minutes & then press 'abort' switch first & then 'reset' switch. Boot IOP by 'bo' command to bring it to warm-start level.

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

2. **ACTIVITIES CARRIED OUT DURING APRIL 2014**

A. **C-DOT TECHNOLOGY**

✦ **INSPECTION**

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

South Zone: Bellary, Gandhinagar, Hospet, M J Nagar, Kopal, Karimannur, Udumbanoor, Thodupuzha, Vengallore, Kothamangalam, Kozhippilly, oonnukal, Iritty, Edoor, Uliyil, Tisaiyanvillai, Kayalpatnam, Vikramasingapuram, Kadayam, Anaimalai.

✦ **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 April 2014.

CORRECTIVE MAINTENANCE

- | | | |
|--|---|-----|
| ▪ Problems Solved (Telephonically/ in writing) | : | 406 |
| ▪ Exchange Data Correction | : | 2 |

CRITICAL FIELD PROBLEMS

Critical Field Problems were attended in the following C-DOT Exchanges during April 2014:

South Zone: Kollam (KL), Sulya (KTK), Truvannamalai (TN).

West Zone: Bhor (MH).

East Zone: Naugachia (BR), Keonjhar (OR).

B. **NEW TECHNOLOGY**

✦ **INSPECTION**

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

South Zone:

- **OCB-283:** Kodambakkam, Ullagaram, Thalassery, Mahe, Eranholi, Coimbatore Ramnagar, Sular.
- **EWSD:** Kodambakkam, Vembuliamman Koil, Gandhinagar, Arumbakkam, West KK Nagar, Choolaimedu.

▪ **5ESS:** Tripunithura, Kizhakkambalam, Arakkunnam, Kanhangod, Periya, Attengenam, Kuthuparamba, Kadirur, Kololam.

▪ **AXE-10:** Cathedral Road.

East Zone:

▪ **OCB-283:** Siliguri.

3. PLAN FOR PERIOD : MAY – JULY 2014

A. C-DOT TECHNOLOGY

✦ **INSPECTION**

Inspection of the following CDOT Exchanges has been planned for period from May 2014 to July 2014:

MAY 2014:

South Zone: Villupuram, Thirupathur, Thiruvannamalai, Machilipatnam, Vuyyuru, Jagaiyapet, Chikmangalur, Tumkur I, Tiptur, Attur, Velur, Gadwai, Mahabubnagar, Nagarkurnool, Wanaparthy, Karkala, Bantwal.

JUNE 2014:

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

JULY 2014:

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

B. NEW TECHNOLOGY

✦ **INSPECTION**

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

MAY 2014:

South Zone:

- **OCB-283:** Thiruvannamalai, RajBhawan, R K Nagar, RajBhawan RSU → Taramani Link Road, St.Thomas Mount RSU → Ekkaduthangal, Velachery, Pallikaranai, Harbour RSU → Annanagar Quarters.
- **5ESS:** Pandeswar.
- **AXE-10:** Annanagar RSU → Avadi.

JUNE 2014:

South Zone:

- **OCB-283:** Tirur, Adilabad, Harbour, St.Thomas Mount RSU → Kilkattalai, Mugalivakkam, Vijayanagar, Ramavaram, Nanganallur, Thillai Ganga Nagar.
- **5ESS:** 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.



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

S.N.	Telecom Circle	C1	C2	C3	C4	C5	C6	C7
1	A & N	2						
2	Andhra Pradesh	22						
3	Assam							
4	Bihar	13	1	1				1
5	Chhattisgarh	2						
6	Gujarat	17						
7	Haryana	27						
8	Himachal Pradesh	6						
9	J & K	6						
10	Jharkhand							
11	Karnataka	11	4					1
12	Kerala	5	2					1
13	Madhya Pradesh	48						
14	Maharashtra	13	5	1				1
15	NE-I (Shillong)	7						
16	NE-II (Dimapur)							
17	Orissa	8	1					1
18	Punjab	39						
19	Rajasthan	46						
20	Tamil Nadu	12	2					1
21	UP - East	49						
22	UP - West	48						
23	Uttarakhand	13						
24	West Bengal	5						
	Total	406	15	2	Nil	Nil	Nil	6

C1	Problems Solved (Telephonically/ In-writing)	406
C2	Site Visit	15
C3	Exchange Data Correction	2
C4	Engineering Change Note (ECN) Implementation	Nil
C5	Software Retrofits	Nil
C6	Deliverable Media Preparation (Cartridges/ EPROMs)	Nil
C7	Critical Field Problems	6

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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