



National Centre for Next Generation Network

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1. OBSERVATION

1.1 C-DOT: Conversion of 256P AN_RAX to 128P AN_RAX having Master Alone (Single Frame) Configuration

In C-DOT Exchanges, 256 Port AN-RAX can be configured as Master Alone (Single Frame) 128 Port AN-RAX. This configuration will provide a maximum of 128 Subscriber. After conversion, only Master Frame will remain in use & Slave frame gets spare along with all its cards (SPC,ARI,LCC,CCM,PSU-1).

In this regard, C-DOT has prescribed following steps for conversion of 256 Port AN-RAX to 128 Port AN-RAX can be done in following steps:-

- i) Delete any Subscribers created in Slave Frame by command <del-sub>; at MBM end thus rendering all the L3 Addresses free in the Slave Frame. Unfreeze the Deleted Numbers. Create these Subscribers in Master Frame at free L3 Addresses. Change MDF jumpering for these Numbers at the new L3 Address locations.
- ii) Un-equip all the Slots in slave frame by 'UNEQUIP-SLOT' command at AN-RAX end.
- iii) Switch off power supply in both Master & Slave frames.
- iv) Remove 60 PIN connecting cables ACI0, ACI1 between ARC & ARI cards of Master & Slave frames at the front side.
- v) Remove 5 Inter Frame Cables IFC0, IFC1, IFC2, IFC3, IFC4 provided at the Back Plane of Master and Slave Frames.
- vi) Change stub Setting on Mother board of Master frame as shown below:
(Refer Para 6.3.4(b) of AN-RAX (256P) USER MANUAL)

WS3	WS4
1	1-----
----- 2	2 ----- Short 1 & 2
Short 2 & 3 ----- 3	3
- vii) Change ARC EPROMS at U2 & U20 with Rel. 13.0 Eproms as U2=81EA, U20=6A1D
- viii) Switch on PSUs in Master frame & let it boot. Initialize it by giving command <start-AI>; This will make AN-RAX active in Master Alone configuration. Verify Dial Tone & OG, IC calls from any of its Number.

Therefore, it may be directed to the concerned officers to follow the above procedure and preserve the redundant cards ARIs, SPCs, LCC, CCM, and PSU1, so that the same may be diverted to the needful Exchanges.

1. ACTIVITIES CARRIED OUT DURING JANUARY 2014

2.1. CDOT TECHNOLOGY

✦ INSPECTION

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

South Zone: Gudur, Kavali, Ramachandrapuram, Anaparthi, Ravulapalem, Kothapeta, Kodad, Nalgonda, Suryapeta, Pallakollu, Pullapalli, Bhimavaram, ASR Nagar, Veeravasaram.

West Zone: Gevral, Parli Vaijnath, Ambajogal, Beed.

✦ 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 January 2014.

- **CORRECTIVE MAINTENANCE**

- Problems Solved (Telephonically/ in writing) : 489
- Exchange Data Correction : 10

- **CRITICAL FIELD PROBLEMS**

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

South Zone: Rajole (AP).

East Zone: Rourkela (OR), Beldenga (WB).

West Zone: Akluj (MH).

- **PREVENTIVE MAINTENANCE VISIT**

Preventive maintenance visit was carried out in following C-DOT Exchanges during January 2014:

West Zone: Rajgarh (RAJ).

2.2. NEW TECHNOLOGY

✦ INSPECTION

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

South Zone:

- **5ESS:** Thiruverkadu.
- **OCB-283:** Nellore, Acharistreet, Batwadipalem, Rajahmundhry, Sriprashanti, Income Tax Office, Dinrose, Ice House, Siat Colony, Greams Road, Vanimahal, Chetpet, Balaji Nagar, Ayanavaram.
- **EWSD:** Bhimavaram, Edward Tank, Industrial Estate, Sriperumbudur.
- **AXE-10:** Maraimalainagar, Guduvancherry, Arulnagar.

West Zone:

- **OCB-283:** Beed.

3 PLAN FOR PERIOD : FEB' – APR' 2014

3.1 INSPECTION

✦ C-DOT EXCHANGES

Inspection of the following CDOT Exchanges has been planned for period from February 2014 to April 2014:

FEBRUARY 2014:

South Zone: Palladum, Pollachi, Mettupalayam, Piduguralla, Ponnuru, Sattanapalli, Ongole, Podili, Guntakal, Dharmavaram, Tenali, Rapelli, Perambara.

West Zone: Satara, Satara MIDC, Koregaom, Vaduj, Dahiwadi, Phaltan, Lonand, Wai, Mahabaleshwar, Medha, Patan, Karad, Ogalewadi.

MARCH 2014:

South Zone: Kadayanallur, Mbasamudiram, Kadappa, Rajampet, Virudachalam, Neyveli Township, Chidambaram, Arani, Polur, Ranipet, Chittoor-I, Chittoor-II, Namakkal, Omalur, Rasipuram.

West Zone: Ajara, Chandgarh, Kolhapur, Gandhinagar, Gandhinglas, Radhanagari, Ichalkaranji, Jaysingpur, Kurundwad, Gargoti, Kagal, Malkapur, Vadgaon, Warananagar.

APRIL 2014:

South Zone: Tisaiyanvillai, Kayalpatnam, Villupuram, Kumbakonam, Annaimalai, Kothagudam, Khammam, Bhadrachalam, Karimannur, Thodupuzha, Bellary, Hospet, Kopal, Iritty.

✦ NEW TECHNOLOGY EXCHANGES

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

FEBRUARY 2014:

East Zone:

- **OCB-283:** Krishna Nagar.

South Zone:

- **OCB-283:** Ongole, Mananchira, Adyar, Adyar RSU → Sholinganallur, Haddows Road RSU → Gopalapuram, Kellys RSU → Kumaran Nagar, Red Hills, Kallikuppam.
- **5ESS:** Kalpatta.
- **EWSD:** Tiruppur, Guntur, Chrompet RSU → Gowrivakkam.
- **AXE-10:** Annanagar RSU → Mogappair East.

MARCH 2014:

East Zone:

- **OCB-283:** Ranaghat.

South Zone:

- **OCB-283:** Palayamkottai, Kadappa, Ranipet, Harbour RSU → Kolathur, Vallalarnagar, Perambur, Adyar RSU → Kotturpuram, Sivagamipuram, Flower Bazaar RSU → Netaji Nagar, Kaladipet.
- **EWSD:** Chittoor.
- **AXE-10:** Anna Nagar, Anna Nagar RSU → Triplicane.

APRIL 2014:

South Zone:

- **OCB-283:** Kumbakonam, Ramnagar, Khammam, Thalassery, Kodambakkam, St.Thomas Mount RSU → Ullagaram.
- **5ESS:** Tripunithura, Kanhangod, Kuthuparamba.
- **EWSD:** Kodambakkam, Kodambakkam RSU → Gandhi Nagar, West KK Nagar, Choolaimedu.
- **AXE-10:** Anna Road RSU → Cathedral Road.



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

S.N.	Telecom Circle	C1	C2	C3	C4	C5	C6	C7
1	A & N	3						
2	Andhra Pradesh	18	7					1
3	Assam	4						
4	Bihar	7						
5	Chhattisgarh	6						
6	Gujarat	19						
7	Haryana	40						
8	Himachal Pradesh	22						
9	J & K	6		1				
10	Jharkhand	4						
11	Karnataka	24	2					
12	Kerala	10						
13	Madhya Pradesh	59						
14	Maharashtra	32	2	1				1
15	NE-I (Shillong)	1	1					
16	NE-II (Dimapur)	2						
17	Orissa	15	1	2				1
18	Punjab	39						
19	Rajasthan	62	4	5				
20	Tamil Nadu	16						
21	UP - East	64		1				
22	UP - West	16	2					
23	Uttarakhand	18						
24	West Bengal	2	2					1
	Total	489	21	10	Nil	Nil	Nil	4

C1	Problems Solved (Telephonically/ In-writing)	489
C2	Site Visit	21
C3	Exchange Data Correction	10
C4	Engineering Change Note (ECN) Implementation	Nil
C5	Software Retrofits	Nil
C6	Deliverable Media Preparation (Cartridges/ EPROMs)	Nil
C7	Critical Field Problems	4

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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