

Application Note

Product: Mobility Server

Purpose: Information that maybe used as a guide to configure the Mobility Server 2 system to the Nortel Meridian PBX Option 11C and Option 81C.

Date: 11/15/2005

1.0 Overview

Intended Audience: Nortel PBX System Administrators or persons having extensive knowledge of the Nortel Meridian PBX.

This document contains configuration information that may be used as a guide to configure the Mobility Server 2 system to the Nortel Meridian PBX. Figure 1 below provides an overview of a generic connection between the Mobility Server system and a Nortel Meridian PBX.

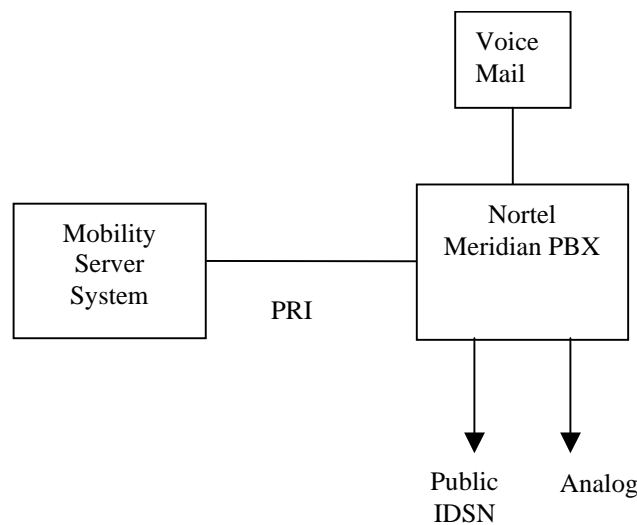


Figure 1

The following configuration sections are provided in this document:

Notes	See Section 1.1
Connections to T1 5ESS (Options 11C, 81C)	See Section 2.1
Connections to T1 Q-SIG (Options 11C, 81C)	See Section 2.2
Connections to E-1 Q-SIG (Option 81C)	See section 2.3

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Coordinated Dialing Plan See section 2.4

References See section 3

1.1 Notes

- a.) Coordinated Dialing Plan (CDP) is an optional package in the Nortel Meridian that allows calls to be routed to the PWT MOB SERVER system as DID's. The customer **needs** to purchase this SW in order to properly integrate PWT MOB SERVER.
- b.) If 5ESS is the protocol used, the PBX delivers the calls as Public and National instead of Private and Local. The PBX will also not route extension numbers beginning with 0 and 1 across the link to the MS. This causes the need for number analysis workarounds and limitations for call screening in the mobility server. QSIG is preferred for this reason.
- c.) If QSIG protocol is used and the Mobility Server is set up as the Master then it will **not be** able to extract the clock (take sync) from the PRI connection. Set the MS to slave to extract clock from the PRI. If the MS must be set up as a Master then you must extract clock from a RE Link.
- d.) Shared D-Channels are not allowed. Each PRI needs it's own D-Channel.
- e.) If you have setup the PBX call routing to the Mobility Server using CDP then by default CDP uses CLID table 0. CDP can only use CLID table 0. If you have the HNTN (Area Code) and HLCL (NSX) values set in CLID Table 0 then you will see a 10 digit number show up on the Ascom phone from calls made from PBX desk phones. This is because calls routed to the MS from the PBX are being routed through CDP. CDP can only use CLID table 0 and thus the HNTN and HLCL values are being appended to the extension number.

One possible work around would be to build another CLID table and assign PBX users to this new CLID table. Then go back and modify CLID table 0, which CDP uses, and remove the values for the HNTN and HLCL. Note: This change will affect all users that are using CDP.

Another work around could be to remove the HNTN and HLCL values and let your CO hardcode the main number to your facility as the caller ID.

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2. Technical Discussion

2.1 Connections to T1 5ESS

PWT Mobility Server connection to the Nortel Meridian PBX (5ESS T1)

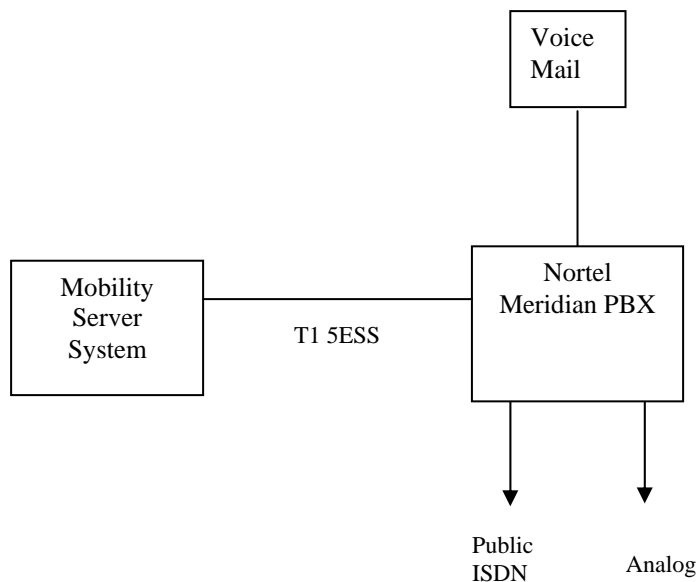


Figure 2

NORTEL MERIDIAN HARDWARE REQUIREMENTS

Combinations of the following board types may be found in the Meridian PBX.

Option 11C

- **NTRB21** - 1.5Mb DTI/PRI Card with downloadable D-channel
- **NTAK09** - 1.5Mb DTI/PRI Card
- **NTAK20** - Clock Controller daughter board
- **NTAK93** - D-channel Handler Interface daughter board
- **NTBK51** - Downloadable D-Channel daughter board

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Option 81C

- **NT5D12** - Dual port 1.5Mb DTI/PRI card
- **NTBK51AA** - Downloadable D-Channel daughter board
- **NT6D80 MSDL**- Multipurpose Serial Data Link

CONFIGURATION OF T1 5ESS TO MOBILITY SERVER

T1 5ESS Mobility Server to Nortel PBX

Link ID	PBX_Link_1
Board & Port number	1, 9
Capacity	T1
Protocol layer 3	ISDN 5ESS Network
Protocol Version	No Version
Network Termination	Master
Send restart layer 2	No
Frame structure	ESF
Alarm Indication	Option 0
Line Coding	B8ZS

T1 5ESS Nortel to Mobility Server

See Description 1, below

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Mobility Server PBX Link Setup

➤ Create PRI link to PBX (Physical Link)

Hardware Resources - Physical Link - Create Advanced:

Protocol Layer 3	ISDN 5ESS Network	N
Capacity	T1	N
Link ID	PBX_Link_1	
Board and Port Number	1,9	
Protocol Version	No version	Y
Send restart at layer 2 establishment	NO	Y
T309	90000	Y
T316	120000	Y
N316	2	Y
Protocol Layer 2	LAPD	Y
Network Termination	Master	Y
T200	1000	Y
T203	10000	Y
N200	3	Y
Ack Pending Time	0	Y
Window Size	7	Y
Frame Structure	ESF	N
Threshold CRC4	915	Y
Cont CRC Time	50	Y
Mfa Time	150	Y
Alarm Indication	Option 0	N
Line Coding	B8ZS	N

[APPLY]

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- **Create a Route for the Link just created**
 - **Route Handling - Route, - Create:**

Type of Route Connection	Private Network Exchange
Route ID	20
Name	PBX_Route_1
Customer	common
Trunk Call Discrimination	15
Traffic Matrix Coordination	15
Call Collision Priority	A-side (high)
Channel Selection Order	Bottom
Channel Negotiation	Yes

[APPLY]

- **Create Trunks for the Link just created**
 - **Hardware Resources - Trunk, Create:**

Trunk Id	PBX_Trunk_1
Route	20
Physical Link	PBX_Link_1
First B-channel	1
Last B-channel	23

[APPLY]

- **Create Primary Routing Analysis**
 - **Route Handling - Primary Routing - Create:**

Net type	PNP
Logical route	1
Transfer capability	Don't Care
Customer	Common
Selected route(s)	20
Alternative Logical Route	none

[APPLY]

Result: Primary Analysis set.

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If the configuration has more than one link to the PBX then perform these additional steps:

- **Create PRI link to PBX (2nd Physical Link)**
 - **Hardware Resources - Physical Link - Create Advanced:**

Input Field Name	Data fill	Default value (Y)es or (N)o
Protocol Layer 3	ISDN 5ESS Network	N
Capacity	T1	N
Link ID	PBX_Link_2	
Board and Port Number	1,10	
Protocol Version	No version	Y
Send restart at layer 2 establishment	NO	Y
T309	90000	Y
T316	120000	Y
N316	2	Y
Protocol Layer 2	LAPD	Y
Network Termination	Master	Y
T200	1000	Y
T203	10000	Y
N200	3	Y
Ack Pending Time	0	Y
Window Size	7	Y
Frame Structure	ESF	N
Threshold CRC4	915	Y
Cont CRC Time	50	Y
Mfa Time	150	Y
Alarm Indication	Option 0	N
Line Coding	B8ZS	N

[APPLY]

Application Note

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- **Create a Route for the Link just created**
 - **Route Handling - Route - Create:**

Type of Route Connection	Private Network Exchange
Route ID	21
Name	PBX_Route_2
Customer	common
Trunk Call Discrimination	15
Traffic Matrix Coordination	15
Call Collision Priority	A-side (high)
Channel Selection Order	Bottom
Channel Negotiation	Yes

[APPLY]

- **Create Trunks for the Link just created**
 - **Hardware Resources - Trunk, Create:**

Trunk Id	PBX_Trunk_2
Route	21
Physical Link	PBX_Link_2
First B-channel	1
Last B-channel	23

[APPLY]

- **Modify PNP 1 to include the new Route 21**
 - **Route Handling – Primary Routing - Modify:**

Net Type	PNP
Logical Route	1
Selected route(s)	20,21

[APPLY]

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Description 1

The following are the parameter settings in the Nortel to set up the routes. In order to set up the routes in the Nortel you must build both D-channel settings and route database. Numbering plans will need to be provisioned to match current dialing plan.

// T-1 5ess ////

ADAN DCH 10
CTYP MSDL (DCHI) Note: can be either type of D-channel card for 5ESS PRI
CARD 03
PORT 1
DES PWT MOB SERVER
USR **PRI**
DCHL 3
OTBF 32
PARM RS422 DTE Note: this option is only needed if using MSDL (CTYP)
DRAT 64KC
CLOK EXT
NASA NO
IFC **ESS5**
SIDE USR
CNEG 1
RLS ID **

RCAP ND2
MBGA NO
OVLN NO ---(*May not appear depending on the software release and packages*)
OVLS NO
T200 3
T203 10
N200 3
N201 260
K 7

// RDB 5ess /// ---(*Route*)

TYPE RDB
CUST 00
DMOD 23 --- (*Opt. 11C only*)
ROUT 26
DES PWT MOB SERVER-1
TKTP **TIE**
ESN NO

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CNVT NO

SAT NO

RCLS INT

DTRK YES

DGTP PRI

ISDN YES

MODE PRA

IFC ESS5

SBN NO

PNI 00000

SRVC NNSF

NCNA YES

NCRD NO

CHTY BCH

CTYP CDP

INAC NO

ISAR NO

TGAR 0

--- (Site Dependent)

BCOT 0

DSEL 3VCE

--- See the note on page 11.

PTYP PRI

AUTO NO

DNIS NO

DCDR NO

--- (Site Dependent)

ICOG IAO

SRCH LIN

TRMB NO

Turn Tromboning OFF

STEP

ACOD 206

TCPP NO

PII NO

TARG 01

--- (Site Dependent)

CLEN 10

--- (Site Dependent)

BILN NO

OABS

INST

ANTK

SIGO STD

ICIS YES

TIMR ICF 512

OGF 512

EOD 13952

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NRD 10112
DDL 70
ODT 4096
RGV 640
GRD 896
SFB 3
NBS 2048
NBL 4096
TFD 0
DRNG NO
CDR NO --- (Site Dependent) CDR is OFF
MUS NO
EQAR NO
FRL 0 0

PAGE 002

FRL 1 0
FRL 2 0
FRL 3 0
FRL 4 0
FRL 5 0
FRL 6 0
FRL 7 0
OHQ NO
OHQT 00
CBQ NO
AUTH NO
TTBL 0
PLEV 2
ALRM NO
ART 0
SGRP 0
AACR NO

Trunk Channel Setting For 5ESS (Load 14)

TN 114 1
TYPE TIE
CDEN SD

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CUST 0
TRK PRI
PDCA 1
PCML MU Set to MU-law for T1 circuits
NCOS 6 Should be set to equal the highest extension NCOS!
RTMB 26 1 --- (Site Dependent)
B-CHANNEL SIGNALING
TGAR 1 --- (Site Dependent)
AST NO
IAPG 0
CLS **CTD DTN** CND WTA LPR APN THFD HKD
P10 VNL
TKID
DATE 7 MAY 2004

Route stat

PRI* TRK LOOP 3 - ENBL
FFMT/LCMT/YALMT: ESF/B8Z/FDL
SERVICE RESTORE: YES
YEL ALM PROCESS: YES
ALARM STATUS : NO ALARM
CH 01 - IDLE TIE 3VCE * CH 02 - IDLE TIE 3VCE *
CH 03 - IDLE TIE 3VCE * CH 04 - IDLE TIE 3VCE *
CH 05 - IDLE TIE 3VCE * CH 06 - IDLE TIE 3VCE *
CH 07 - IDLE TIE 3VCE * CH 08 - IDLE TIE 3VCE *
CH 09 - IDLE TIE 3VCE * CH 10 - IDLE TIE 3VCE *
CH 11 - IDLE TIE 3VCE * CH 12 - IDLE TIE 3VCE *
CH 13 - IDLE TIE 3VCE * CH 14 - IDLE TIE 3VCE *
CH 15 - IDLE TIE 3VCE * CH 16 - IDLE TIE 3VCE *
CH 17 - IDLE TIE 3VCE * CH 18 - IDLE TIE 3VCE *
CH 19 - IDLE TIE 3VCE * CH 20 - IDLE TIE 3VCE *
CH 21 - IDLE TIE 3VCE * CH 22 - IDLE TIE 3VCE *
CH 23 - IDLE TIE 3VCE * CH 24 - DCH 10

Note: If you are experiencing any of the below problems, then you will need to change the DSEL setting to VCE, 3VCE, or VOD depending on your PBX configuration.

- Calls from certain locations, to Mobility Server phones, terminate in the PBX with a D Channel error of 42 however, most other calls work fine.

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- Calls from your local area, to Mobility Server phones, terminate in your PBX with a D Channel error of 42 however, long distance calls into the Mobility server work fine.

D Channel error 42 is a switch congestion error and usually means that not enough bandwidth has been designated for the Mobility Server PRI links.

2.2. Connections to T1 Q-SIG

PWT Mobility Server connection to the Nortel Meridian PBX (QSIG T1).

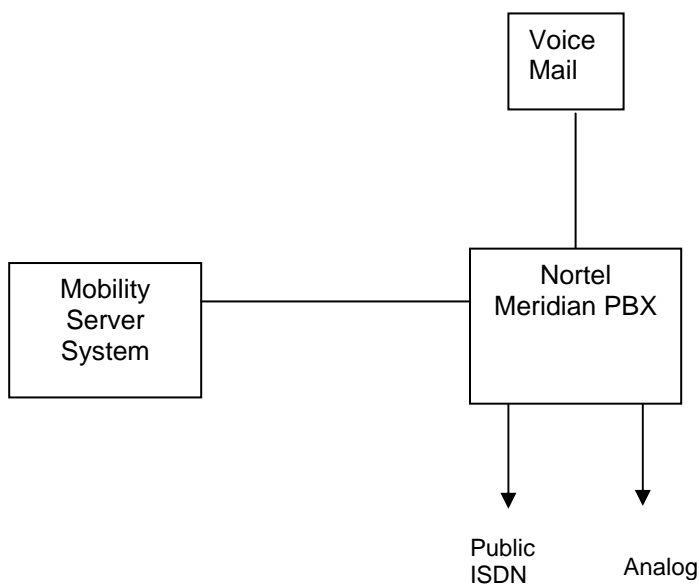


Figure 3

Application Note

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NORTEL MERIDIAN HARDWARE REQUIREMENTS

Combinations of the following board types may be found in the Meridian PBX.

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- **NTBK51** - Downloadable D-Channel daughter board

Option 81C

- **NT5D12** - Dual port 1.5Mb DTI/PRI card
- **NTBK51AA** - Downloadable D-Channel daughter board
- **NT6D80 MSDL-** Multipurpose Serial Data Link

T1 QSIG Mobility server to Nortel PBX

Link ID	PBX_Link_1
Board & Port number	1,9
Capacity	T1
Protocol layer 3	ISDN Q
Protocol Version	ECMA Edition 2
Network Termination	Master
Send restart layer 2	No
Frame structure	ESF
Alarm Indication	Option 0
Line Coding	B8ZS

T1 QSIG Nortel to Mobility Server

See Description 2, below

Application Note

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Mobility Server PBX Link Setup

➤ Create PRI link to PBX (Physical Link)

- Hardware Resources - Physical Link - Create Advanced:

Input Field Name	Data fill	Default value (Y)es or (N)o
Protocol Layer 3	ISDN Q	N
Capacity	T1	N
Link ID	PBX_Link_1	
Board and Port Number	1,9	
Protocol Version	ECMA Edition 2	Y
Send restart at layer 2 establishment	NO	Y
T309	90000	Y
T316	120000	Y
N316	2	Y
Protocol Layer 2	LAPD	Y
Network Termination	Master	Y
T200	1000	Y
T203	10000	Y
N200	3	Y
Ack Pending Time	0	Y
Window Size	7	Y
Frame Structure	ESF	N
Threshold CRC4	915	Y
Cont CRC Time	50	Y
Mfa Time	150	Y
Alarm Indication	Option 0	N
Line Coding	B8ZS	N

[APPLY]

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- **Create Routes for the Link just created**
 - **Route Handling - Route - Create:**

Type of Route Connection	Private Network Exchange
Route ID	20
Name	PBX_Route_2
Customer	common
Trunk Call Discrimination	15
Traffic Matrix Coordination	15
Call Collision Priority	A-side (high)
Channel Selection Order	Bottom
Channel Negotiation	Yes

[APPLY]

- **Create Trunks for the Link just created**
 - **Hardware Resources – Trunk - Create:**

Trunk Id	PBX_Trunk_1
Route	20
Physical Link	PBX_Link_1
First B-channel	1
Last B-channel	23

[APPLY]

- **Create Primary Routing Analysis**
 - **Route Handling - Primary Routing - Create:**

Net type	PNP
Logical route	1
Transfer capability	Don't Care
Customer	Common
Selected route(s)	20
Alternative Logical Route	none

[APPLY]

Result: Primary Analysis set.

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Purpose: Information that maybe used as a guide to configure the Mobility Server 2 system to the Nortel Meridian PBX Option 11C and Option 81C.

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If the configuration has more than one link to the PBX then perform these additional steps:

- Create PRI link to PBX (2nd Physical Link)
 - Hardware Resources - Physical Link - Create Advanced:

Input Field Name	Data fill	Default value (Y)es or (N)o
Protocol Layer 3	ISDN 5ESS Network	N
Capacity	T1	N
Link ID	PBX_Link_2	
Board and Port Number	1,10	
Protocol Version	No version	Y
Send restart at layer 2 establishment	NO	Y
T309	90000	Y
T316	120000	Y
N316	2	Y
Protocol Layer 2	LAPD	Y
Network Termination	Master	Y
T200	1000	Y
T203	10000	Y
N200	3	Y
Ack Pending Time	0	Y
Window Size	7	Y
Frame Structure	ESF	N
Threshold CRC4	915	Y
Cont CRC Time	50	Y
Mfa Time	150	Y
Alarm Indication	Option 0	N
Line Coding	B8ZS	N

[APPLY]

Application Note

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Purpose: Information that maybe used as a guide to configure the Mobility Server 2 system to the Nortel Meridian PBX Option 11C and Option 81C.

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- **Create a Route for the Link just created**
 - **Route Handling - Route - Create:**

Type of Route Connection	Private Network Exchange
Route ID	21
Name	PBX_Route_2
Customer	common
Trunk Call Discrimination	15
Traffic Matrix Coordination	15
Call Collision Priority	A-side (high)
Channel Selection Order	Bottom
Channel Negotiation	Yes

[APPLY]

- **Create Trunks for the Link just created**
 - **Hardware Resources – Trunk - Create:**

Trunk Id	PBX_Trunk_2
Route	21
Physical Link	PBX_Link_2
First B-channel	1
Last B-channel	23

[APPLY]

- **Modify PNP 1 to include the new Route 21**
 - **Route Handling – Primary Routing - Modify:**

Net Type	PNP
Logical Route	1
Selected route(s)	20,21

[APPLY]

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Description 2

Nortel Configuration for QSIG T-1

D-CHANNEL SETTINGS

ADAN DCH 14

CTYP MSDL Note: This card must be a MSDL in order to support Q_SIG (downloadable D-channel)

CARD 02

PORT 1

DES QSIG_PWT MOB SERVER

USR PRI

DCHL 2

OTBF 32

PARM RS422 DTE

DRAT 64KC

CLOK EXT

NASA NO

IFC ESGF

PINX_CUST 0

ISDN_MCNT 300

CLID OPT0

CO_TYPE STD

SIDE USR

CNEG 1

RLS ID **

RCAP COLP NDS CCBS CCNR

MBGA NO

OVLN YES

DIDD 0

OVLN YES

OVLN 0

T310 120

T200 3

T203 10

N200 3

N201 260

K 7

ROUTE DATA BASE

TYPE RDB

CUST 00

DMOD

ROUT 21

DES PWT MOB SERVER_Q

TKTP TIE

Rev. E

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ESN NO
CNVT NO
SAT NO
RCLS EXT
DTRK YES
DGTP PRI
ISDN YES
MODE PRA
IFC ESGF
SBN NO
PNI 00000
NCNA NO
NCRD NO
CHTY BCH
CTYP UKWN
INAC NO
ISAR NO
TGAR 0
CPFXS YES
ADDP NO
INTC NO
DSEL 3VCE
PTYP DTT
AUTO NO
DNIS NO
DCDR NO
ICOG IAO
SRCH LIN
TRMB NO
STEP
ACOD 202
TCPP NO
TARG 01
CLEN 1
BILN NO
OABS
INST
ANTK
SIGO STD
ICIS YES
TIMR ICF 512
OGF 512
EOD 13952
NRD 10112
DDL 70
ODT 4096
RGV 640
GRD 896

Set Tromboning OFF

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SFB 3
NBS 2048
NBL 4096
TFD 0
DRNG NO
CDR NO
MUS NO
EQAR NO
FRL 0 0

PAGE 002

FRL 1 0
FRL 2 0
FRL 3 0
FRL 4 0
FRL 5 0
FRL 6 0
FRL 7 0
OHQ NO
OHQT 00
CBQ NO
AUTH NO
TTBL 0
PLEV 2
ALRM NO
ART 0
SGRP 0
AACR NO

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2.3 E-1 QSIG (Option 81C)

MERIDIAN 1 NORTEL PABX SYSTEM

SYSTEM TYPE : OPT81C

RELEASE : 23.37

VERSION : 1911

PWT Mobility Server connection to the Nortel Meridian PBX (E1 QSIG)

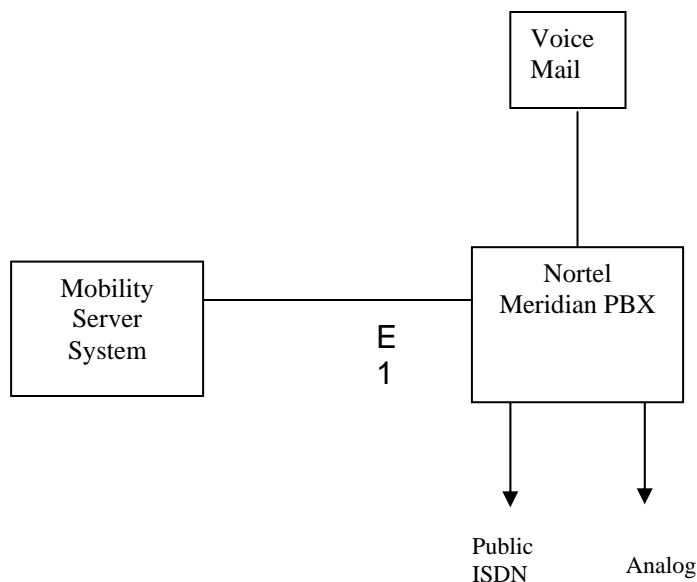


Figure 4

HARDWARE REQUIREMENT

- **NTCK43** - 2.048 MBIT DUAL PRIMARY RATE ACCESS CARD
- **NTBK51** - DOWNLOADABLE D-CHANNEL DAUGHTERBOARD

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CONFIGURATION OF QSIG TO MOBILITY SERVER

2 E1 Physical Link MS2.x to Meridian

Protocol layer 3 ISDN-Q
Capacity E1
Link ID PBX_Link_1
Board & Port numb 1,9
Protocol Version ECMA Edition 2
Send restart layer 2 No
Network Termination Master

1 E1 Physical Link Meridian to MS2.x

See Description 3, below

Mobility Server PBX Link Setup

- Create PRI link to PBX (Physical Link)
 - Hardware Resources - Physical Link - Create Advanced:

Input Field Name	Data fill	Default value (Y)es or (N)o
Protocol Layer 3	ISDN Q	N
Capacity	E1	Y
Link ID	PBX_Link_1	
Board and Port Number	1,9	
Protocol Version	ECMA Edition 2	N
Send restart at layer 2 establishment	NO	Y
T309	90000	Y
T316	120000	Y
N316	2	Y
Protocol Layer 2	LAPD	Y
Network Termination	Master	Y
T200	1000	Y
T203	10000	Y
N200	3	Y
Ack Pending Time	0	Y
Window Size	7	Y
Frame Structure	Auto detection	Y
Threshold CRC4	915	Y
Cont CRC Time	50	Y

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Mfa Time	150	Y
Alarm Indication	RAI	Y
Line Coding	HDB3	Y

[APPLY]

- **Create a Route for the Link just created**
 - Route Handling - Route - Create:

Type of Route Connection	Private Network Exchange
Route ID	20
Name	PBX_1
Customer	common
Trunk Call Discrimination	15
Traffic Matrix Coordination	15
Call Collision Priority	A-side (high)
Channel Selection Order	Bottom
Channel Negotiation	Yes

[APPLY]

- **Create Trunks for the Link just created**
 - Hardware Resources – Trunk - Create:

Trunk Id	PBX_Trunk_1
Route	20
Physical Link	PBX_Link_1
First B-channel	1
Last B-channel	30

[APPLY]

- **Create Primary Routing Analysis**
 - Route Handling - Primary Routing - Create:

Net type	PNP
Logical route	1
Transfer capability	Don't Care
Customer	Common
Selected route(s)	20
Alternative Logical Route	none

[APPLY]

Result: Primary Analysis set.

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If the configuration has more than one link to the PBX then perform these additional steps:

- **Create PRI link to PBX (2nd Physical Link)**
 - **Hardware Resources - Physical Link - Create Advanced:**

Input Field Name	Data fill	Default value (Y)es or (N)o
Protocol Layer 3	ISDN Q	N
Capacity	E1	Y
Link ID	PBX_Link_2	
Board and Port Number	1,10	
Protocol Version	ECMA Edition 2	N
Send restart at layer 2 establishment	NO	Y
T309	90000	Y
T316	120000	Y
N316	2	Y
Protocol Layer 2	LAPD	Y
Network Termination	Master	Y
T200	1000	Y
T203	10000	Y
N200	3	Y
Ack Pending Time	0	Y
Window Size	7	Y
Frame Structure	Auto detection	Y
Threshold CRC4	915	Y
Cont CRC Time	50	Y
Mfa Time	150	Y
Alarm Indication	RAI	Y
Line Coding	HDB3	Y

[APPLY]

- **Create a Route for the Link just created**
 - **Route Handling - Route - Create:**

Type of Route Connection	Private Network Exchange
Route ID	21
Name	PBX_Route_2
Customer	common
Trunk Call Discrimination	15
Traffic Matrix Coordination	15

Application Note

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Call Collision Priority	A-side (high)
Channel Selection Order	Bottom
Channel Negotiation	Yes

[APPLY]

- **Create Trunks for the Link just created**
 - **Hardware Resources – Trunk - Create:**

Trunk Id	PBX_Trunk_2
Route	21
Physical Link	PBX_Link_2
First B-channel	1
Last B-channel	30

[APPLY]

- **Modify PNP 1 to include the new Route 21**
 - **Route Handling – Primary Routing - Modify:**

Net Type	PNP
Logical Route	1
Selected route(s)	20,21

[APPLY]

Description 3

D-CHANNEL SETTING

ADAN DCH 34
CTYP MSDL
GRP 1
DNUM 8
PORT 0
DES ASCOM
USR PRI
DCHL 34
OTBF 32
PARM RS422 DTE
DRAT 64KC
CLOK EXT
NASA NO
IFC ESGF
PINX_CUST 0
ISDN_MCNT 300

Application Note

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CLID OPT0
CO_TYPE STD
SIDE USR
CNEG 1
RLS ID **
RCAP **COLP NDS CCBS CCNR**
OVLR YES
DIDD 0
OVLS YES
OVLT 0
T310 120
T200 3
T203 10
N200 3
N201 260
K 7

QSIG ROUTE DATA SETTING FOR D-CHANNEL 34

TYPE RDB
CUST 00
ROUT 34
DES ASCOM
TKTP TIE
ESN NO
CNVT NO
SAT NO
RCLS EXT
DTRK **YES**
BRIP NO
DGTP PRI2
ISDN YES
MODE PRA
IFC ESGF
SBN NO
PNI 00000
NCNA NO
NCRD NO
CTYP UKWN
INAC NO
ISAR NO
TGAR 0
CPFXS YES
ADDP NO
INTC NO
DSEL 3VCE
PTYP DTT
AUTO NO

Application Note

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DNIS NO
DCDR NO
ICOG IAO
SRCH LIN
TRMB NO
STEP
ACOD **7134**
TCPP NO
TARG
BILN NO
OABS
INST
IDC NO
DCNO 0 *
NDNO 0
DEXT NO
ANTK
SIGO STD
MFC NO
ICIS YES
OGIS YES
TIMR ICF 512
 OGF 512
 EOD 13952
 NRD 10112
 DDL 70
 ODT 4096
 RGV 640
 GTO 896
 GTI 896
 SFB 3
 NBS 2048
 NBL 4096
 TFD 0
DTD NO
SCDT NO
2 DT NO
DRNG NO
CDR YES
INC NO
LAST NO
QREC NO
OAL YES
AIA YES
OAN YES
OPD YES
NDP EXC 0
CDRX NO

Set Tromboning OFF

Application Note

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NATL YES
SSL
CFWR NO
IDOP NO
MUS NO
PANS YES
RACD NO
EQAR NO
FRL 0 0
FRL 1 0
FRL 2 0
FRL 3 0
FRL 4 0
FRL 5 0
FRL 6 0
FRL 7 0
OHQ NO
OHQT 00
CBQ NO
AUTH NO
TDET NO
TTBL 1
PLEV 2
OPR NO
ALRM NO
ART 0
PECL NO
DCTI 0
SGRP 0
AACR NO

TRUNK CHANNEL SETTING FOR QSIG

TN 034 01
TYPE TIE
CDEN SD
CUST 0
TRK PRI2
PDCA 1
PCML A
NCOS 0
RTMB 34 1
B-CHANNEL SIGNALING
TGAR 0
AST NO
IAPG 0
CLS **CTD DTN** WTA LPR APN THFD BARD
P10 VNL

Set to A-law for E1 Qsig
Set this to equal the highest extension NCOS!

Application Note

Product: Mobility Server
Purpose: Information that maybe used as a guide to configure the Mobility Server 2 system to the Nortel Meridian PBX Option 11C and Option 81C.
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TKID
DATE 20 AUG 1999

TN 034 02
TYPE TIE
CDEN SD
CUST 0
TRK PRI2
PDCA 1
PCML A
NCOS 0
RTMB 34 2
B-CHANNEL SIGNALING
TGAR 0
AST NO
IAPG 0
CLS CTD DTN WTA LPR APN THFD BARD
P10 VNL
TKID
DATE 20 AUG 1999

LOOP TIMER SETTING FOR LOOP 34

TYPE PRI2
FEAT LPTI

LOOP 34
MFF **CRC**
ACRC NO
ALRM REG
RAIE NO
G1OS YES
SLP 5 24 H 30 1 H
BPV 128 122
CRC 201 97
FAP 28 1
RATS 10
GP2 20 100 S 12 S 12 S 4 S
MNG1 15 M
NCG1 15 M
OSG1 15 M
MNG2 15 S
NCG2 15 S
OSG2 15 S
PERS 50
CLRS 50
OOSC 5

Application Note

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2.4. Coordinated Dialing Plan

Note: CDP is an optional package that allows calls to be routed to the PWT MOB SERVER system as DIDs. The customer **needs** to purchase this SW in order to properly integrate to the PWT MOB SERVER.

CDP entry 73

>ld 87
ESN000

MEM AVAIL: (U/P): 470428 USED: 103011 TOT: 573439
DISK RECS AVAIL: 449
REQ prt
CUST 0
FEAT cdp
TYPE dsc
DSC 73
DSC 73
FLEN 0
DSP LSC
RLI 9

Note: this table points the numbers starting with 73 toward the RLI 9 (route list 9)

RLB RLI 9

RLI 9

RLI 9
ENTR 0
LTER NO
ROUT 26
TOD 0 ON 1 ON 2 ON 3 ON
4 ON 5 ON 6 ON 7 ON
CNV NO
EXP NO
FRL 0
DMI 2
FCI 0
FSNI 0
OHQ NO
CBQ NO

ENTR 1
LTER YES

Application Note

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TOD 0 ON 1 ON 2 ON 3 ON
4 ON 5 ON 6 ON 7 ON

FRL 0
DMI 3
FCI 0
FSNI 0

ISET 0
MFRL 0
OVLL 0

Note: this RLI9 table points the calls toward route 26 (PWT MOB SERVER) as the 1st option using DMI table 2, and as a second option if PWT MOB SERVER is unavailable to a local termination (extension) using DMI table 3.

DMI table 2 and 3

DMI 2 is to route the PRI to PWT MOB SERVER
DMI 3 is to reroute if PRI is down

FEAT dgt
DMI 2

DMI 2
DEL 0
INST 0
CTYP NXX
Note: This is DMI if using 5ESS

CUST 0
FEAT DGT
DMI 2

DMI 2
DEL 1
INST 7
CTYP LOC
Note: This is the DMI if using QSIG

CUST 0
FEAT dgt
DMI 3

DMI 3
DEL 5

Application Note

Product: Mobility Server

Purpose: Information that maybe used as a guide to configure the Mobility Server 2 system to the Nortel Meridian PBX Option 11C and Option 81C.

Date: 11/15/2005

INST 4001
CTYP UKWN

Note: as displayed this deletes all 5 digits dialed and sends 4001 (an extension). It can be configured to delete only the 1st part of the number thus allowing a desk phone to be called that has a consistent number with the Personal Number. I.e.: 73001 (personal number) delete (2), insert (4), which modifies 73001 to be 4001 if the span is down and that allows calls to the intended desk phone. All personal numbers and desk extensions would need to conform to this numbering scheme.

3. Reference

Installation and Basic Maintenance Manual Mobility Server 2

Nortel Meridian X11 Administration Input/Output Guide 553-3001-311

Nortel Meridian ISDN Primary Rate Interface Installation Guide 553-2901-201

Nortel Meridian Option 11C 1.5Mb DTI/PRI 553-3011-310

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