

Addendum
Tenor Commands for Nortel Interoperability
Generation 2 Tenors

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Introduction

The commands described in this addendum were added to allow Quintum to interoperate with Nortel devices. Information on the applicable settings are detailed in this document. These settings will enable the Generation 2 Tenor DX/AX/AS and Tenor CMS to interoperate with both the Nortel BCM and Nortel Succession 1000.

```
IPRoutingGroup/InBandTone    = yes (1)
H323sg/RelayProgress         = no (0)
H323sg/EarlyH245            = no (1)
H323sg/StartH245Collision   = no (0)
H323sg/UsePartyNumber       = no (0)
```

If a Tenor is to be used to register with a Nortel Gatekeeper, the following parameters also need to be set:

```
H323sg/RegisterDN           = Register as E.164 IDs (2)
H323sg/IgnoreGrantedBandwidth = yes(1)
H323sg/H323ID              = <some string here>
```

Codec Payload Size must correspond to 30 ms in order to be compatible with the Succession 1000 and BCM.

G.723.1 codecs are not supported at this time.

IP Routing Group

InbandTone

Description Determines how the Tenor will respond to inbound setup messages.

Guidelines This feature is for compatibility with Nortel equipment.

If this is disabled:

- Tenor responds to inbound Setup with CP and Alerting messages.
- There is no FastStart in these messages.
- The Progress message is not sent.
- Tenor does not provide inband ringback.
- When the user answers, a COnnect message is sent with FastStart.

If this is enabled (default):

- Tenor responds to inbound Setup with CP, Progress, and Alerting messages.
- All of these messages include FastStart.
- Progress and Alerting include ProgIndIE.
- Tenor provides inband ringback.
- When the user answers, a COnnect msg is sent without FastStart.

Cmd Type	Command
Prompt Level	config-IPRoutingGroup-1#
Syntax	set inbandtone or it { 0 1 }
Arguments	0 Disabled 1 Enabled
Default	1 Enabled
Examples	config-IPRoutingGroup-1# set it 0 Disable the InbandTone feature.

H323SignalingGroup

RelayProgress

Description	This setting allows you to choose whether or not to send Progress Messages on an ISDN interface.
Guidelines	In most instances, you will not need to change this setting.
Cmd Type	Command
Prompt Level	config- ISDNSignalingGroup -1#
Syntax	set relayprog or rp {0 1}
Arguments	0 Off 1 On.
Default	1 On
Examples	config- ISDNSignalingGroup -1# set rp 0 Sets this parameter to "off," as described above.

EarlyH245

Description	In the case where there is an inbound call with Fast Start=true and Tunneling=false, this item starts up H245 after the alerting is sent. This will result in the Alert being sent, then a Facility with startH245 in it. The default is disabled, which means that the facility will be sent after the connect in the default case.
Cmd Type	Command
Prompt Level	config-H323SignalingGroup-1#
Syntax	set earlyh245 or eh { 0 / 1 }

Arguments	0 Disabled - facility sent after connect 1 Enabled - facility sent after alert
Default	0 Disabled
Examples	config-H323SignalingGroup-1# set eh 1 Sets the 2G Tenor to send the startH245 facility after the alert.

StartH245Collision

Description	Sets which algorithm the Tenor uses to resolve a startH245 collision. The default sets the Tenor to use an algorithm that is logically opposite what is written in H323 spec, section 8.2.3.
Guidelines	This was done to interoperate with certain other vendors' releases that seem to violate the spec. When the box is checked, the Tenor uses the algorithm as written in the spec.
Cmd Type	Command
Prompt Level	config-H323SignalingGroup-1#
Syntax	set starth245collision or shc { 0 / 1 }
Arguments	0 H245 not by spec (must be used for BCM (v 3.5) and ASM (P100.19.00) 1 H245 by spec
Default	0 H245 not by spec
Examples	config-H323SignalingGroup-1# set shc 1 Sets the 2G Tenor to do H245 according to the spec.

UsePartyNumber

Description	This allows you to configure the 2G Tenor to send AliasAddress type "PartyNumber" in place of E.164 or H.323 ID types in the Setup only, ARQ only, or both Setup and ARQ.
Guidelines	This is needed in some Nortel Interoperability situations. <ul style="list-style-type: none"> • When set to '0' (None), the ARQ and Setup will contain E.164 in their Source and Destination addresses. • If the selection is '1' (in Setup only), the outgoing Setup will have the PartyNumber in its Source and Destination addresses. • If the selection is '2' (In ARQ only), the outgoing ARQ will have the PartyNumber in its Source and Destination addresses. • If the selection is '3' (Both), both the ARQ and Setup will use the

PartyNumber in their Source and Destination addresses.

If the H.323 Stack receives an incoming Setup using PartyNumber, the Calling/Called information will be extracted if they are the AliasAddress PartyNumber choice. If the 2G Tenor receives an ARQ, it will look for the E.164 AliasAddress type and also PartyNum type.

Cmd Type	Command
Prompt Level	config-H323SignalingGroup-1#
Syntax	set usepartynumber or {0/1/2/3}
Arguments	0 Off 1 In Setup only 2 In ARQ only 3 Both Setup and ARQ
Default	0 Off
Examples	config-H323SignalingGroup-1# set upn 2 Sets the 2G tenor to use the party number in ARQ only.

RegisterDN

Description	For interoperability purposes, it is sometimes necessary not to register DNs with an external or non-Quintum Gatekeeper.
Cmd Type	Command
Prompt Level	config-H323SignalingGroup-1#
Syntax	set registerdn or rdn {0 1}
Arguments	0 This 2G Tenor does not register DNs with external or non-Quintum Gatekeepers. 1 This 2G Tenor does register DNs with external or non-Quintum Gatekeepers.
Default	1 Yes
Examples	config-H323SignalingGroup-1# set registerdn 0 Sets this 2G Tenor not to register DNs with external or non-Quintum Gatekeepers.

IgnoreGrantedBandwidth

Description	This allows you to choose whether or not to ignore how much bandwidth is allotted to this unit. The default is not to ignore the granted bandwidth.
Cmd Type	Command
Prompt Level	config-H323SignalingGroup-1#

Syntax	set ignoregrantedbandwidth or igb {0 1}
Arguments	0 Off Do not ignore 1 On Ignore
Default	0 No, do not ignore
Examples	config-H323SignalingGroup-1# set igb 1 Sets this parameter to "yes," as described above.

H323ID

Description	Sets the unique name of this 2G Tenor Gateway, that is communicated as part of H.323 messaging.
Guidelines	A valid entry is an alphanumeric string, up to 16 characters.
Cmd Type	Command
Prompt Level	config-H323SignalingGroup-1#
Syntax	set h323id <i>{name}</i>
Arguments	name Alphanumeric string that provides a label to identify this 2G Tenor. Up to 16 characters.
Default	None
Examples	config-H323SignalingGroup-1# set h323id nyc_cms Sets the H.323 ID to nyc_cms.