Lucent Technologies
Bell Labs Innovations

DEFINITY® IP Solutions

Voice-Quality Guidelines and Installation/Administration Checklist

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Voice Quality Guidelines

This section gives recommendations for increasing voice quality in VoIP configurations

10/100 BaseT

Although the TN802/B DEFINITY IP Interface technically supports 10/100 BaseT, testing and field experience have determined that superior voice quality and stability are achieved when the board is used at 10BaseT. Therefore, the IP Interface will be preset to 10 BaseT at the factory. Since this application's bandwidth needs are minimal, Lucent recommends that customers leave all IP Interface circuit packs set to 10 BaseT. This supersedes any information previously published, including customer documentation.

LAN and Remote Access Parameters

Guidelines for LAN and remote access parameters that affect voice quality are available from the Lucent Customer Support web site at: *http://support.lucent.com*.

Note: These guidelines were not finalized at the time of publication of this document — they will be inserted here in future releases.

Installation and Administration Checklist

This checklist provide a brief summary of the hardware installation and DEFINITY administration required for IP Softphones and H.323 trunks.

Hardware Installation

Refer to *Upgrades and Additions for R8.2si* (or *R8.2r*), 555-233-122 (115), for details on hardware installation.

√	Task
	Prepare for Installation by checking the site facilities and DEFINITY equipment shipment.
	Connect cables
	Connect modem
	Set modem DIP switches
	Connect to the Ethernet LAN
	(If upgrading existing TN802 to TN802B, follow upgrade procedures)
	Install the circuit packs
	Administer C-LAN (TN799B)
	Administer the IP Interface assembly (TN802B)
	Test external connection to the LAN

IP Softphone administration

Refer to *Administrator's Guide*, 555-233-506, for details on IP Softphone administration.

For R8, there are two main types of DEFINITY IP Softphone applications — the telecommuter application and the road-warrior application. The CentreVu IP Agent is a variation of the telecommuter application.

Do the following tasks to administer IP Softphone applications.

√	Screen	Task
	Optional Features (System Parameters Customer Options)	Verify that the DEFINITY system is enabled for IP Softphone use on the System Parameters Customer Options screen.
	Station	Add a DCP station (or change an existing DCP station) using the Station screen. *For the road-warrior application only*, add an H.323 station.
		Install the IP Softphone software on the user's PC for the telecommuter or the road-warrior applications. **OR** Install the IP Agent software on the user's PC for the CentreVu IP Agent application.

Enabling Administration for H.323 Trunk

Refer to *DEFINITY Administrator's Guide*, (DAG) 555-233-506, and *Administration for Network Connectivity*, (ANC) 555-233-504, for details on the enabling administration.

A few customer options and circuit pack parameters must be properly set before you can administer an H.323 trunk. Do the enabling administration using the screens listed below.

√	Screen	Task	Refer To
	Optional Features (System Parameters Customer Options)	Verify that the DEFINITY system is enabled for IP Softphones. (The Optional Features screen must be administered by the *init* login.)	DAG
	Circuit Packs	Administer the C-LAN and IP Interface assembly circuit packs on the Circuit Packs screen.	ANC
	Maintenance-Related System Parameters	Set threshold values for network performance on the Maintenance-Related System Parameters screen for network performance.	DAG
	IP Parameters	Enter the codec types on this screen in the order of preference of usage. Optionally, you can also use the Audio IP port number range field to specify a block of port numbers to be used for audio connections.	ANC

H.323 Trunk Administration

Refer to *Administration for Network Connectivity*, 555-233-504, for details on the H.323 trunk administration. Administer the H.323 IP trunks using the screens listed below.

√	Screen	Task
	Node Names	Enter a node name and IP address for each C-LAN and IP Interface board on the local switch. Enter a node name and IP address for the far-end gatekeeper for each far-end node that the H.323 trunks on the local switch will connect to. The far-end gatekeeper is a C-LAN board if the far-end is a DEFINITY switch.
	IP Interfaces	Enter the interface information for each C-LAN and each IP Interface (TN802B) board.
	Ethernet Data Module	Administer a data module screen, type *ethernet,* for each C-LAN board on the switch.

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√	Screen	Task
	Signaling Group	Create a signaling group for each H.323 trunk group. NOTE: NCA TSCs need to be administered only if this signaling group is to be used for DCS, AUDIX, MASI, or as Gateway. Administration of TSCs is the same as in previous releases
	Trunk Group	Create trunk groups and assign each H.323 trunk to a trunk group.
	IP Media Parameters	Enter the types of codecs and their preferred order of use.

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