

Lucent Technologies
Bell Labs Innovations



DEFINITY[®]

Enterprise Communications Server

Release 7, Issue 1(01.0.343.0 through 01.0.343.9)

Change Description

555-233-405
Comcode 108343336
Issue 1
June 1999

Notice

Every effort was made to ensure that the information in this book was complete and accurate at the time of printing. However, information is subject to change.

Your Responsibility for Your System's Security

Toll fraud is the unauthorized use of your telecommunications system by an unauthorized party, for example, persons other than your company's employees, agents, subcontractors, or persons working on your company's behalf. Note that there may be a risk of toll fraud associated with your telecommunications system and, if toll fraud occurs, it can result in substantial additional charges for your telecommunications services.

You and your system manager are responsible for the security of your system, such as programming and configuring your equipment to prevent unauthorized use. The system manager is also responsible for reading all installation, instruction, and system administration documents provided with this product in order to fully understand the features that can introduce risk of toll fraud and the steps that can be taken to reduce that risk. Lucent Technologies does not warrant that this product is immune from or will prevent unauthorized use of common-carrier telecommunication services or facilities accessed through or connected to it. Lucent Technologies will not be responsible for any charges that result from such unauthorized use.

Lucent Technologies Fraud Intervention

If you *suspect that you are being victimized* by toll fraud and you need technical support or assistance, call Technical Service Center Toll Fraud Intervention Hotline at 1 800 643-2353.

Federal Communications Commission Statement

Part 15: Class A Statement. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Part 68: Network Registration Number. This equipment is registered with the FCC in accordance with Part 68 of the FCC Rules. It is identified by FCC registration number AS593M-13283-MF-E.

Part 68: Answer-Supervision Signaling. Allowing this equipment to be operated in a manner that does not provide proper answer-supervision signaling is in violation of Part 68 rules. This equipment returns answer-supervision signals to the public switched network when:

- Answered by the called station
- Answered by the attendant
- Routed to a recorded announcement that can be administered by the CPE user

This equipment returns answer-supervision signals on all DID calls forwarded back to the public switched telephone network. Permissible exceptions are:

- A call is unanswered
- A busy tone is received
- A reorder tone is received

Canadian Department of Communications (DOC)

Interference Information

This digital apparatus does not exceed the Class A limits for radio noise emissions set out in the radio interference regulations of the Canadian Department of Communications.

Le Présent Appareil Numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

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European Union Declaration of Conformity

The "CE" mark affixed to the DEFINITY equipment described in this document indicates that the equipment conforms to the following European Union (EU) Directives:

- Electromagnetic Compatibility (89/336/EEC)
- Low Voltage (73/23/EEC)
- Telecommunication Terminal Equipment (TTE)
i-CTR3 BRI and i-CTR4 PRI

For more information on standards compliance, contact your local distributor.

Comments

To comment on this document, return the comment card at the front of the document.

Acknowledgment

This document was prepared by the Product Documentation Development group, Lucent Technologies, Denver, CO.

Highlights

This change description document describes the highlights incorporated in DEFINITY Enterprise Communications Server (ECS), Release 7, Issue 1.0, (01.0.343.0 through 01.0.343.9). For more detailed information, refer to *What's New in Release 7*, document number 555-233-746, Issue 1.

Highlights of Features and Enhancements

General

Announcement history log

The list history command provides information on changes made to announcements including records, re-records, deletions. It also shows the phone used to make the changes. The list usage for announcements command shows any VDN that is using an announcement extension for VDN of Origin Announcement.

Attendant split swap

An attendant can press a split swap key assigned to the attendant console to alternate between an active and a split call.

Displays

ISDN PRI customers can apply prefixes to U.S. and non-U.S. calling numbers for display. The prefix appears on any subsequent display on the same switch when the call is transferred, covered, and forwarded. The prefixed number is not passed on to other adjuncts, Call Detail Recording, or PBXs.

Expanded wait-step

The vectoring wait step can now be administered in seconds and minutes in addition to hours.

Multiple locations

A new Locations screen and new location fields on AAR and ARS routing tables allow local routing administration of cabinets situated in different geographic locations interconnected by DS1-remoted networks or Asynchronous Transfer Mode Wide Area Networks (ATM-WAN). Timezone routing and daylight savings time plans must be defined when multiple locations are administered. *Partition groups are now defined by location.*

System clock and daylight savings time

Daylight savings time rules can be applied to individual locations to automatically update user's displays and system times according to daylight savings time changes. Location information must be administered if daylight savings rules are administered. User times affect phone displays, automatic wakeup, and do-not disturb. System time controls time-of-day routing, SMDR recording, maintenance, and other internal times. Daylight savings time rules default to no treatment unless administered.

Transfer upon hangup

Transfer upon hangup allows a DCP, Hybrid and BRI phone user to place a call on hold, push the transfer or conference button, dial another number, and push the transfer or conference number again to complete the transfer or conference. TRANSFER COMPLETED now appears on display phones when a transfer takes place.

Asynchronous Transfer Mode (ATM)

ATM-WAN

Several networked ATM devices can be used as a single ATM switch for inter-port network connectivity using either a private ATM network or public WAN, or a combination of both. Enhanced maintenance allows more precise trouble shooting of failed routes or connections. ATM-WAN can reduce monthly network access charges or toll charges.

Call Center

603F CallMasterV native support

A new screen provides simpler administration for the 603F1 CallMasterV phone. The mute button field is display-only, and the mute button cannot be administered.

CentreVu Advocate Agent Limit

Logged-in non-AAS and non-AUDIX agents can now be administered. A new Logged-In Advocate Agents field appears on the Call Center page of the System Parameters Customer Options screen, and the current value of the number of agents and the administered maximum value appears on the system-capacities screen.

PASTE

System and terminal administration parameters are passed to a PC application and attached to a DCP display terminal. Additional feature buttons are supported, including information needed for CentreVu Agent.

Call detail recording

Both Call Detail Recording (CDR) ports can be accessed simultaneously and duplicate copies of customized CDR records can be sent to peripheral devices. The Secondary Output Format field on the CDR Systems Parameters screen must be set to "customized."

CDR billing records can include Direct Inward Dialing (DID) calls that are redirected off the switch, identified by condition code "T" on the record. The new Condition Code T for Redirected Calls field on the CDR System Parameters screen must be set to y.

Call routing

Controlled toll restriction

Phones can be restricted to allow only local calls.

Feature access codes

Feature access codes can be 4-digits long.

Hardware

TN556D and TN2185B ISDN BRI

ISDN BRI end-to-end signaling is supported on these circuit packs.

TN568 DEFINITY AUDIX R4.0 (ED-1E568)

A new TN568 circuit pack provides native support of DEFINITY AUDIX 4.0 features and operation.

TN792 Duplication Interface (DUPINT R7si)

This circuit pack is required for high and critical reliability R7si systems.

TN794 Network Controller/Packet Interface (NetPkt for R7.1si)

Network Controller/Packet Interface (NetPkt) TN794, for R7.1si, provides 8 asynchronous data channels. The TN794 provides functionality of the present TN777B, TN778, and a portion of TN765 circuit packs. For new systems, only the TN794 is required. For upgrades, the TN794/TN2400 assembly is required.

TN799 Control-LAN (C-LAN)

Control-LAN (C-LAN) TN799 provides TCP/IP connectivity over Ethernet or PPP to synchronous adjunct applications such as CMS, INTUITY AUDIX, and DCS signaling connectivity.

TN2305 and TN2306 Circuit Emulation Service (CES) trunk interface

TN2305 and TN2306 circuit packs provide ATM trunk interface over either an OC-3c or an STM-1 facility. The new circuit packs emulate either E1 or T1 service. The TN2305 supports ATM over multimode fiber, and the TN206 supports ATM over single mode fiber.

TN802 (J58890MA) IP trunk interface

The IP trunk interface on the TN802 MAPD circuit pack can send voice and fax from the DEFINITY ECS through the intranet to other DEFINITY ECS systems that also have this feature, or to other PBXs that are equipped with Internet Telephone Server.

TN2242 Japanese Digital Tie Trunk

A new 2MB Japanese digital tie trunk circuit pack, TN2242, provides private networking with multi-vendor call center environments. The circuit pack provides an ISDN PRI protocol that can be used through a pair of Time Division Multiplexors (TDM) that interconnect multiple DEFINITY switches and allows the use of certain call center features.

790B (for si) and 798B (for csi) Processors

Enhancements to the processor circuit packs are required for R7.

TN2183 Non-US

TN2183 and other non-US circuit packs (such as TN468B) do not support neon message waiting lamps.

1217A ESCC AC power supply

The ESCC AC power supply was redesigned for global application with wide range, self-adjusting inputs and power factor corrections. The ESCC AC power supply complies with International Standard IEC and Japanese regulations.

Hospitality

Crisis alert to a digital station

Notification of all emergency calls (911 in the U.S.) can be sent to designated digital DCP and BRI display phones. The name and extension of the person placing the emergency call appears on the digital phones's display, and the phone user can direct emergency personnel to the location of the call. A crisis alert button is assigned to the digital phones that receive notification.

Permanent time interval wakeup

A guest or attendant can schedule a wakeup call once that applies for the same time each day for the duration of the stay.

VIP wake up

A VIP wakeup request reminds the attendant to place a personal wakeup call to the guest.

Non-U.S.

Brazil

Tariff-free backward signal

Customers can administer a trunk group to provide a toll-free or tariff-free service. DEFINITY ECS generates an R2MFC tariff-free backward signal during call setup and simplifies central office billing.

Malicious Call Trace backward signal

When customers assign a Malicious Call Trace (MCT) class of restriction to a phone, DEFINITY ECS generates an R2MFC MCT backward signal during call setup. The central office collects trace information before releasing the calling party.

Station-based block collect calls

Block collect call administration is moved from the Trunk Group screen to the Class of Restriction screen to increase flexibility of the feature.

Japan

TN2242 Digital Tie Trunk

A new 2MB Japanese digital tie trunk circuit pack, TN2242, provides private networking with multi-vendor call center environments. The circuit pack provides an ISDN PRI protocol that can be used through a pair of Time Division Multiplexors (TDM) that interconnect multiple DEFINITY switches and allows the use of certain call center features.

The trunk supports Channel Associated Signaling (CAS) and ISDN PRI, DTMF and rotary interregister signaling, and provides native Layer 1 and full 30 channel support.

The system administrator defines the location of the ISDN D-channel on the TN2242. There are changes to the Trunk Group screen, the DS1 Circuit Pack screen, and the Signaling Group screen.

Russia

Incoming ANI via button

Users can press a button to collect ANI for each call they make. If the user presses the button while talking on a call, the ANI appears on the user's display and is sent to other features including Malicious Call Trace (MCT and Call Detail Recording (CDR).

If user presses the button while listening to dialtone then enters an extension, the PBX collects ANI from the dialed extension's trunk and sends the ANII to CDR and MCT. ANI does not appear on the user's display unless it is an MCT controller set.

Multiple ANI and Call forward

Administration allows either the calling party's ANI or the redirecting phone's ANI to be sent when a call originally intended for an extension on the switch is redirected with call coverage or call forwarding off of the switch via an MF trunk.

Octel Messaging

Octel voice messaging systems can be shared across a network, typically over DCS when DCS call coverage is active. Transfer mode is compatible with Octel voice messaging systems. Phones can be administered to emulate a 7405ND or 7434ND phone on a TN754B circuit pack only. Extension number information, including the name instead of the extension number, is sent on redirected calls. Ports are connected directly to Octel equipment.

QSIG

QSIG enhancements

QSIG temporary signaling connections (or call independent signaling connections) support connections over BRI trunks. QSIG supports multiple outstanding Class 1 operations on a specific call. The status signaling-group command shows the status of QSIG TSC PRI and the status bri-port shows the status of QSIG TSC BRI.

Private networking IEs are exchanged among nodes of a QSIG network, including through other vendors' QSIG nodes. Called/Busy Number IDs are also sent and displayed. QSIG messages longer than 260 octets can be sent and received.

QSIG/DCS

Called/Busy Number ID information is passed between QSIG and DCS nodes in a private network.

QSIG message waiting indication

Message waiting lamps and dial tones notify all users in a QSIG network of messages waiting or retrieved. The MWI status can be requested remotely (from the message center) node after a system restart and routinely at 24 hour intervals.

QSIG centralized AUDIX

QSIG calls can cover to an AUDIX or a voice mail system that conforms to QSIG protocol standards on another node. Original called and calling party information is provided.

Survivable Remote EPN (SREPN)

DEFINITY ECS allows the remote reset of a switch in a survivable remote processor to reconnect the remote EPN.

Security

Access Security Gateway (ASG)

A new command, change secret-key, provides unique secret keys to individual Lucent services logins associated with a specific DEFINITY ECS system. Also, ASG authentication can be required for specific ports and for specific logins.

To identify a system during the ASG login, the unique product identification number is displayed during the ASG login process. This ID is automatically assigned during product registration.