Nortel Communication Server 1000

# Office Data Administration System Fundamentals

NN43001-552

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# Revision history

**May 2007**
Standard 01.01. This document is issued to support Communication Server 1000 Release 5.0. This document contains information previously contained in the following legacy document, now retired: *Office Data Administration System: Description and Engineering (553-3001-352)*. No new content has been added for Communication Server 1000 Release 5.0. All references to Communication Server 1000 Release 4.5 are applicable to Communication Server 1000 Release 5.0.

**August 2005**
Standard 3.00. This document is up-issued to support Communication Server 1000 Release 4.5.

**September 2004**
Standard 2.00. This document is up-issued for Communication Server 1000 Release 4.0.

**October 2003**
Standard 1.00. This document is a new NTP for Succession 3.0. It was created to support a restructuring of the Documentation Library. This document contains information previously contained in the following legacy document, now retired: *Office Data Administration System: Description and Engineering* (553-2721-100).

# Contents

# About this document

This document is a global document. Contact your system supplier or your Nortel representative to verify that the hardware and software described are supported in your area.

## Subject

This document describes the features, programs, and engineering requirements of Office Data Administration System (ODAS). ODAS enables record keeping for telephones and attendant consoles.

### Note on legacy products and releases

This NTP contains information about systems, components, and features that are compatible with Nortel Communication Server 1000 Release 4.5 software. For more information on legacy products and releases, click the **Technical Documentation** link under **Support & Training** on the Nortel home page:

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## Applicable systems

This document applies to the following systems:

- Communication Server 1000S (CS 1000S)
- Communication Server 1000M Chassis (CS 1000M Chassis)
- Communication Server 1000M Cabinet (CS 1000M Cabinet)
- Communication Server 1000M Half Group (CS 1000M HG)
- Communication Server 1000M Single Group (CS 1000M SG)
- Communication Server 1000M Multi Group (CS 1000M MG)
- Communication Server 1000E (CS 1000E)
- Meridian 1 PBX 11C Chassis
- Meridian 1 PBX 11C Cabinet
- Meridian 1 PBX 51C

- Meridian 1 PBX 61C
- Meridian 1 PBX 81
- Meridian 1 PBX 81C

***Note:*** When upgrading software, memory upgrades may be required on the Signaling Server, the Call Server, or both.

### System migration

When particular Meridian 1 systems are upgraded to run CS 1000 Release 4.5 software and configured to include a Signaling Server, they become CS 1000M systems. Table 1 "Meridian 1 systems to CS 1000M systems" (page 8) lists each Meridian 1 system that supports an upgrade path to a CS 1000M system.

**Table 1**
**Meridian 1 systems to CS 1000M systems**

| This Meridian 1 system... | Maps to this CS 1000M system |
|---|---|
| Meridian 1 PBX 11C Chassis | CS 1000M Chassis |
| Meridian 1 PBX 11C Cabinet | CS 1000M Cabinet |
| Meridian 1 PBX 51C | CS 1000M Half Group |
| Meridian 1 PBX 61C | CS 1000M Single Group |
| Meridian 1 PBX 81 | CS 1000M Multi Group |
| Meridian 1 PBX 81C | CS 1000M Multi Group |

For more information, see one or more of the following NTPs:

- *Communication Server 1000M and Meridian 1 Small System Software Upgrade (NN43011-459)*
- *CS 1000M and Meridian 1 Large System Upgrades Overview (NN43021-458)*
- *Communication Server 1000S: Upgrade Procedures (553-3031-258)*
- *Communication Server 1000E Upgrades (NN43041-458)*

## Intended audience

This document is intended for individuals responsible for configuring the Office Data Administration System.

# Conventions

## Terminology

In this document, the following systems are referred to generically as "system":

- Communication Server 1000S (CS 1000S)
- Communication Server 1000M (CS 1000M)
- Communication Server 1000E (CS 1000E)
- Meridian 1

The following systems are referred to generically as "Small System":

- Communication Server 1000M Chassis (CS 1000M Chassis)
- Communication Server 1000M Cabinet (CS 1000M Cabinet)
- Meridian 1 PBX 11C Chassis
- Meridian 1 PBX 11C Cabinet

The following systems are referred to generically as "Large System":

- Communication Server 1000M Half Group (CS 1000M HG)
- Communication Server 1000M Single Group (CS 1000M SG)
- Communication Server 1000M Multi Group (CS 1000M MG)
- Meridian 1 PBX 51C
- Meridian 1 PBX 61C
- Meridian 1 PBX 81
- Meridian 1 PBX 81C

# Related information

This section lists information sources that relate to this document.

## NTPs

The following NTPs are referenced in this document:

- *Software Input Output Administration (NN43001-611)*
- *Communication Server 1000M and Meridian 1 Large System Planning and Engineering (NN43021-220)*

## Online

To access Nortel documentation online, click the **Technical Documentation** link under **Support & Training** on the Nortel home page:

www.nortel.com

### CD-ROM

To obtain Nortel documentation on CD-ROM, contact your Nortel customer representative.

## How to get Help

### Getting Help from the Nortel Web site

The best source of support for Nortel products is the Nortel Support Web site:

www.nortel.com/support

This site enables customers to:

- download software and related tools
- download technical documents, release notes, and product bulletins
- sign up for automatic notification of new software and documentation
- search the Support Web site and Nortel Knowledge Base
- open and manage technical support cases

### Getting Help over the phone from a Nortel Solutions Center

If you have a Nortel support contract and cannot find the information you require on the Nortel Support Web site, you can get help over the phone from a Nortel Solutions Center.

In North America, call 1-800-4NORTEL (1-800-466-7835).

Outside North America, go to the Web site below and look up the phone number that applies in your region:

www.nortel.com/callus

When you speak to the phone agent, you can reference an Express Routing Code (ERC) to more quickly route your call to the appropriate support specialist. To locate the ERC for your product or service, go to:

www.nortel.com/erc

### Getting Help through a Nortel distributor or reseller

If you purchased a service contract for your Nortel product from a distributor or authorized reseller, you can contact the technical support staff for that distributor or reseller.

# Description

## Contents

This section contains information on the following topics:



## Introduction

Office Data Administration System (ODAS) is an optional software package. This feature assists in keeping records of information regarding telephones and attendant consoles.

ODAS allows you to perform the following functions:

- assign a one-to-six-character alphanumeric station line designator (DES).
- insert the date of all service change activity on the Terminal Number (TN)
- print individual items on individual pages, including system and customer numbers, and a title for each page
- list or count all stations by telephone type, feature type, or both

- list Multiple Appearance Directory Numbers (MADN)
- list hunting patterns for individual Directory Numbers (DN)
- list telephones in alphanumerical order according to DESs
- enter or change DESs at an accelerated rate

The following sections describe these features in more detail.

## Station line designator

The station line designator (DES) is a one-to-six-character alphanumeric code assigned to individual telephones through overlay programs.

You can use the DES to do the following:

- identify telephones according to a system of numbering and naming that is meaningful to you or the Optivity Telephony Manager (OTM)
- get telephone data block printouts without the need to enter the TN or the DN

You must respond to the DES field when you use LDs 10 and 11 to install telephones. You must respond to the DES field in LD 27 when you install a Digital Subscriber Loop (DSL) data block.

## Service activity date

The service activity (ACT) date indicates the last date a service change was performed on a particular TN. The system automatically enters and updates the ACT date whenever a service change is made. When requested, the system updates theACT date of all TNs to the present system date. You can use ODAS print programs to print information according to a particular ACT date.

### Enhancements to non-ODAS overlay programs

The ACT date is automatically updated to the present system date for analog (500/2500-type) telephones (LD 10), Meridian 1 proprietary telephones (LD 11), attendant consoles (LD 12), Digitone receivers (LD 13), and trunk data blocks (LD 14) whenever a service change is made to the individual TN. It is also updated whenever the ACT date is reset to the present system date through a print program. LD 20 includes prompts for station DES, ACT DATE, and PAGE control. LD 22 includes prompts for ACT date, PAGE control, and reset ACT date. LD 10 and LD 11 include the insertion of a station DES. See *Software Input Output Administration (NN43001-611)* for complete information.

## Selectable page control

Selectable page control permits individual printouts for each page on standard 11-in. (280-mm) fanfold paper. Each page contains information about the individual item. The printout includes the system and customer numbers as well as the printout title. The customer number appears when requested at the CUST prompt.

## ODAS overlay programs

### Features print program (LD 81)

The features print program provides a list or count of the number of telephones in your system. The system may be prompted to supply the information based on one or more of the following:

- telephone type
- feature type
- telephone and feature type
- a single customer or a range of customers
- a predetermined ACT date
- DES

This program also includes selectable page control and ACT date resetting capabilities.

### Multiple appearance and hunt chain print (LD 82)

The multiple appearance and hunt chain print program provides a printout of stations with multiple appearance DNs, single appearance DNs appearing on telephones with multiple appearance DNs, and hunting patterns. The system can be prompted to supply the information based on one or more of the following:

- a single DN or a range of DNs
- a single customer or a range of customers
- a predetermined ACT date
- DES

This program also includes selectable page control and ACT date resetting capabilities.

### Designator sort print (LD 83)

The designator sort print program produces a printout of TNs inDES order. The system can be prompted to supply the information based on the following:

- single line listing of TNs in DES order or a detailed TN print in DES order

- a single customer or a range of customers

This program also includes selectable page control and ACT date resetting capabilities.

### Designator entry program (LD 84 and LD 85)

The designator entry program permits entering or changing a DES on analog (500/2500-type) telephones (LD 84) and Meridian 1 proprietary telephones (LD 85) at an accelerated rate. These programs perform an easy change similar to those in LDs 10 and 11. See *Software Input Output Administration (NN43001-611)* for complete information.

## Call Party Name Display

In LD 95, you can activate the display of the DES for MADNs. For display purposes, the DES characters are appended to the Call Party Name Display (CPND) name. Initial CPND name characters can be chopped off in favor of DES characters at the end, when the display cannot accommodate all characters.

## Emergency Services Access

### On-Site Notification

When an emergency call is initiated by a telephone user, the ODAS designator associated with the originating telephone is included as part of the On-Site Notification (OSN) call record sent to the OSN output or maintenance device. The DES is also part of the information shown on the OSN telephone display.

# ODAS programs

## Contents

This section contains information on the following topics:



## Features print program (LD 81)

Prompts and responses for LD 81 appear below.

**LD 81: List or count telephones.**

| Prompt | Response | Description |
|---|---|---|
| REQ | LST CNT | List or count stations with features. |
| CUST | xx | Customer number as defined in LD 15. |
| DATE | ACT | TN service changes on or after the ACT date. |
| | dd mmm yyyy | Print from selected date. |
| | <cr> | Ignore service change date. |
| PAGE | YES | Page control. |
| | <cr> | No page control. |

| Prompt | Response | Description |
|---|---|---|
| DES | d...d | Print all telephones with this DES. (Up to 6 alphanumeric characters.) |
| | d+ | Print all telephones with DES starting with d. |
| | + | Print all telephones with no DES assigned. |
| | <cr> | Print data for all telephones. |
| FEAT | ALL | Prints all features. |
| | xxxx | Print the specified feature, see *Software Input Output Administration (NN43001-611)*. |
| | <cr> | When DATE or DES is answered (above), carriage return means the system searches only for the DATE and/or DES input. If a feature was entered, <cr> means no more features to be entered. |
| NACT | YES | Resets ACT date to present system date. |
| | <cr> | Return to REQ, does not reset date. |
| | END | Exit program. NACT appears after printout is completed. |

Table 2 "Typical printout of a list of telephones with the Speed Call Controller (SCC) feature (LD 81)" (page 16) and Table 3 "Typical printout of a count of telephones sorted by feature type (LD 81)" (page 17) list typical printout formats for LD 81.

**Table 2**
**Typical printout of a list of telephones with the Speed Call Controller (SCC) feature (LD 81)**

| Feat | Cust | DN | LSN O | TN | Type | Key | DES | Act date |
|---|---|---|---|---|---|---|---|---|
| SCC | 00 | 2000 | 0000 | TN 00 0 01 0 | 500 | | ABCDA | 1 JAN1979 |
| SCC | 00 | 2001 | 0001 | TN 00 0 01 1 | 500 | | ABCDB | 1 JAN1979 |
| SCC | 00 | 2002 | 0000 | TN 00 0 01 2 | 500 | | DEEE | 10 APR1979 |

| Feat | Cust | DN | LSN O | TN | Type | Key | DES | Act date |
|---|---|---|---|---|---|---|---|---|
| SCC | 00 | 2003 | 0000 | TN 00 0 01 3 | 2500 | | ABCDD | 10 APR1979 |
| SCC | 00 | 3000 | 0002 | TN 00 0 04 0 | SL1 | 4 | HIB | 10 APR1979 |

**Table 3**
**Typical printout of a count of telephones sorted by feature type (LD 81)**

| Feature | Customer | Count | Total | SL1 | 500 | 2006 |
|---|---|---|---|---|---|---|
| ADL | 00 | CNT | 1 | 1 | 0 | 0 |
| AD3 | 00 | CNT | 1 | 1 | 0 | 0 |
| AO6 | 00 | CNT | 2 | 2 | 0 | 3 |
| ARC | 00 | CNT | 2 | 2 | 1 | 0 |
| PUA | ALL | CNT | 3 | 2 | 1 | 0 |
| PUD | ALL | CNT | 0 | 0 | 0 | 0 |

## Multiple appearance and hunt chain program (LD 82)

Prompts and responses for LD 82 appear below.

**LD 82: Prompts and responses.**

| Prompt | Response | Description |
|---|---|---|
| REQ | MAP | Multiple Appearance.<br><br>Print Multiple Appearance DN (MADN) and associated TNs. The hunt pattern displayed shows only the first TN in an MADN hunt group. |
| | MAG | Multiple Appearance Groups.<br><br>Print Multiple Appearance Groups, including all single appearance DNs assigned on telephones that have Multiple Call assignments. |
| | HNT | Hunt pattern, single step in either direction.<br><br>Short hunting is not shown. |
| CUST | xx | Customer number as defined in LD 15. |

| Prompt | Response | Description |
|---|---|---|
| DATE | ACT | TN service changes on or after the ACT date. |
| | dd mmm yyyy | Print from selected date. |
| | <cr> | Ignore service change date. |
| PAGE | YES | Page control. |
| | <cr> | No page control. |
| DES | d...d | Print all telephones with this DES. (Up to 6 alphanumeric characters.) |
| | d+ | Print all telephones with DES starting with d. |
| | + | Print all telephones with no DES assigned. |
| | <cr> | Print data for all telephones. |
| DN | x...x | Single DN or a range of DNs (0–9999999). |
| | ALL | Print all MAG or MAP DNs. |
| | <cr> | All DNs. |
| NACT | YES | Resets ACT date to present system date. |
| | <cr> | Return to REQ, does not reset date. |
| | END | Exit program. NACT appears after printout is completed. |

Typical printout formats for LD 82 appear in Table 4 "Typical MAP printout (LD 82)" (page 19), Table 5 "Typical Multiple Appearance Group (MAG) printout (LD 82)" (page 20), and Table 6 "Typical hunt chain print (LD 82)" (page 21).

**Table 4**
**Typical MAP printout (LD 82)**

| MAG[1] | Cust[2] | DN[3] | TN | Note[3] | Type | Key | DES | Act date |
|---|---|---|---|---|---|---|---|---|
| 001 | 00 | 200 | 00 1 01 2 | ***01 | SL1 | 03 | Y JK | 10 JUN 1979 |
| | | | 00 1 01 3 | HNT205 | SL1 | 08 | Y MN | 2 APR 1979 |
| | | 201 | 00 0 01 0 | HNT NONE | SL1 | 03 | A ZK | 1 MAY 1979 |
| | | | 00 1 01 2 | ***01 | SL1 | 02 | Y JK | 10 JUN 1979 |
| | | 204 | 00 0 01 0 | HNT NONE | SL1 | 03 | A ZK | 1 MAY 1979 |
| | | | 00 1 02 3 | ***01 | 500 | | A MM | 2 JAN 1979 |
| | | 203 | 00 1 01 2 | HNT NONE | SL1 | 04 | Y JK | 10 JAN 1979 |
| | | | 00 0 02 2 | ***01 | 500 | | A MK | 10 SEP 1979 |

***Note 1:*** The Multiple Appearance Group (MAG) number is determined by the system. It assigns the group numbers in ascending order.

***Note 2:*** The DN is indicated only on the lowest TN of the multiple appearance group. Single appearance DNs have only one TN listed.

***Note 3:*** The system uses the first TN of the multiple appearance group to determine hunting. ***01 indicates the order the TN is stored in the system (1–15). The first TN in the list (0) is identified either by a HNT number or HNT NONE.

**Table 5**
**Typical Multiple Appearance Group (MAG) printout (LD 82)**

| MAG[1] | Cust[2] | DN[3] | TN | Note[3] | Type | Key | DES | Act date |
|---|---|---|---|---|---|---|---|---|
| 001 | 00 | 300 | 00 0 04 0 | HNT 330 | SL1 | 00 | B VM | 2 JAN 1980 |
| | | 302 | 00 0 04 0 | HNT 330 | SL1 | 01 | B VM | 2 JAN 1980 |
| | | | 00 0 04 1 | ***01 | SL1 | 01 | B FO | 3 FEB 1980 |
| | | 302 | 00 0 04 0 | ***01 | SL1 | 02 | B VM | 2 JAN 1980 |
| | | | 00 0 04 1 | HNT 330 | SL1 | 02 | B FO | 3 FEB 1980 |
| | | 303 | 00 0 04 0 | HNT 330 | 500 | 03 | B VM | 2 JAN 1980 |
| | | | 00 0 04 1 | ***01 | SL1 | 03 | B FO | 3 FEB 1980 |
| | | 304 | 00 0 04 0 | HNT 330 | SL1 | 04 | B VM | 2 JAN 1980 |
| | | 307 | 00 0 04 0 | HNT 330 | SL1 | 05 | B VM | 2 JAN 1980 |
| | | 310 | 00 0 04 1 | | SL1 | 00 | B FO | 3 FEB 1980 |
| | | 400 | 00 0 04 0 | HNT NONE | SL1 | 06 | B VM | 2 JAN 1980 |

***Note 1:*** The Multiple Appearance Group (MAG) number is determined by the system and assigns the group numbers in ascending order.

***Note 2:*** The DN in indicated only on the lowest TN of multiple appearance. Single appearance DN have only one TN listed.

***Note 3:*** The system uses the first TN of the multiple appearance to determine hunting. ***01 indicates the order the TN is stored in the system (1–15). The first TN in the list (0) is identified either by a HNT number or HNT NONE.

| MAG[1] | Cust[2] | DN[3] | TN | Note[3] | Type | Key | DES | Act date |
|---|---|---|---|---|---|---|---|---|
| 002 | 00 | 200 | 24 0 01 0 | ***01 | 500 | | G BA | 9 MAR 1980 |
| | | 200 | 24 0 01 3 | HNT 309 | 2500 | | J LO | 8 MAR 1980 |

***Note 1:*** The Multiple Appearance Group (MAG) number is determined by the system and assigns the group numbers in ascending order.

***Note 2:*** The DN in indicated only on the lowest TN of multiple appearance. Single appearance DN have only one TN listed.

***Note 3:*** The system uses the first TN of the multiple appearance to determine hunting. ***01 indicates the order the TN is stored in the system (1–15). The first TN in the list (0) is identified either by a HNT number or HNT NONE.

**Table 6**
**Typical hunt chain print (LD 82)**

| Cust | DN | Hunt | DN | TN | Telephone type | Key | DES | ACT date |
|---|---|---|---|---|---|---|---|---|
| 00 | 5040 | | 5040 | 016 0 09 00 | 3000 | 00 | ABC | 30 OCT 1991 |
| | | FROM | 2032 | 049 0 09 00 | 2500 | | YJK | 31 OCT 1991 |
| 00 | 2032 | TO | 5040 | 016 0 09 00 | 3000 | 00 | ABC | 30 OCT 1991 |
| | | | 2032 | 049 0 09 00 | 2500 | | YJK | 31 OCT 1991 |

***Note:*** ** indicates a multiple appearance DN.

# Designator sort print program (LD 83)

Prompts and responses for LD 83 appear below.

**LD 83: Prompts and responses.**

| Prompt | Response | Description |
|---|---|---|
| REQ | LST TNB | Single line of information for each TN in DES order. TNB printouts in DES order. |
| CUST | xx | Customer number as defined in LD 15. |

| Prompt | Response | Description |
|---|---|---|
| PAGE | YES | Page control. |
| | <cr> | No page control. |
| NACT | YES | Resets ACT date to present system date. |
| | <cr> | Return to REQ, does not reset date. |
| | END | Exit program. NACT appears after printout is completed. |

Typical printout formats for LD 83 appear in Table 7 "Typical list printout format (LD 83)" (page 22) and Table 8 "Typical TN printout format (LD 83)" (page 22).

**Table 7**
**Typical list printout format (LD 83)**

| DES | ACT | Cust TN | Type | Density | Prime DN |
|---|---|---|---|---|---|
| ABC | 24 OCT 1979 | 00 00 4 02 3 | SL1 | DD | 3001 |
| ABD | 10 NOV 1979 | 00 00 4 03 0 | 500 | SD | |

**Table 8**
**Typical TN printout format (LD 83)**

| | |
|---|---|
| DES | AIB |
| TN | 00 0 02 1 |
| TYPE | SL1 |
| CDEN | DD |
| CUST | 0 |
| KLS | 1 |
| FDN | 2564 |
| TGAR | 0 |
| RNPG | 0 |
| IAPG | 0 |
| CLS | UNR FBD WTA LPR MTD FNA HTD |
| HUNT | 000 |

| | |
|---|---|
| KEY | 00 SCR 250<br>01<br>02<br>03<br>04<br>05<br>06<br>07<br>08<br>09<br>RLS |
| DATE | 2 JUL 1980 |

## Designator entry programs (LD 84 and LD 85)

LD 84 allows the addition of line designators to existing analog (500/2500-type) telephones.

LD 85 allows the addition of line designators to existing Meridian 1 proprietary telephones.

If the telephone is active on a call, the station is disconnected after the last <cr>.

Prompts and responses for LD 84 and LD 85 appear below.

**LD 84/LD 85: Prompts and responses.**

| Prompt | Response | Description |
|---|---|---|
| TN | | Terminal Number. |
| | l s c u | Format for Large System and CS 1000E system, where l = loop, s = shelf, c = card, u = unit. |
| | c u | Format for CS 1000M Small System, Meridian 1 Small System, CS 1000S system, Media Gateway 1000B, and Media Gateway 1000T, where c = card and u = unit. |
| | END | Exit the program. |
| DES | x...x | Designator. (Up to 6 alphanumeric characters.) |

# Engineering

## Contents

This section contains information on the following topics:



## Memory requirements

In addition to the data-store requirements given in *Communication Server 1000M and Meridian 1 Large System Planning and Engineering (NN43021-220)*, the ODAS feature requires the extra storage indicated in Table 9 "ODAS memory requirements" (page 25).

**Table 9**
**ODAS memory requirements**

| Type of store | Requirements (words) |
|---|---|
| Program store | 1100 |
| Protected data-store activity date per TN in system | 1 |
| Station line DES per telephone | 2 |

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