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# DNC configuration data

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## Overview

The forms in this section are designed to record configuration information for a DNC-50 System, DNC-500 System or a DNC-100 System. Each form shows the fields that are provided in that table. It should be noted that column numbers 77 to 80 are always used to record the four digit form code number. Table 4-A lists the available tables, in alphabetical order, and their Form Code numbers.

**Table 4-A**  
**DNC-BNM tables and form code numbers**

TABLE NAME	FORM CODE NUMBER
Attendant Subgroup	0012
Customer	0004
Customer DNC, and Other DNC	0007
Customer Group	0008
Disk Monitoring (Operation)	0015
Disk Monitoring (User Defined Features)	0016
DNC Owner Profile (DNC-500)	0002
(DNC-100)	0003
Feature Data	0001
Feature Profile, & Customer Feature Profile	0006
Link Details	0052
Link Configuration	0051
Mask	0013
Name/Address	0053
Node & Customer Node	0005
Subscriber Line Usage	0011
Trunk Ownership	0009
- continued -	

**Table 4-A (Continued)**  
**DNC-BNM tables and form code numbers**

TABLE NAME	FORM CODE NUMBER
User	0014
Virtual Facility Trunk Group	0010
X.25 Details	0050

When NT personnel have used the information that is recorded in these forms to deliver a configured BNM system, authorized users of the system may add to, or change, this information through the corresponding tables of that system. For the procedures to access and use the various tables of a BNM system refer to 450-1021-311.

## Procedure

Use the following procedure as a guide to determine which forms you must complete, and the order in which you should complete them. Photocopy the forms you need and enter your data on the copies.

- (1) How will you connect remote DMS or DNC-100 nodes to a DNC-500, or remote DMS to a DNC-50? Complete the forms for the X.25 Details, Name/Address, Link Configuration Tables and Link Details Tables to provide the data for each connection.
- (2) Who owns the new DNC systems? Complete the DNC Owner Profile Table form to provide the required information about the owner of each new DNC-50, DNC-500, and DNC-100 system.
  - for a DNC-500: go to the next step
  - for a DNC-50 or a DNC-100: go to step 4
- (3) What type(s) of feature data will the DNC-500 system be collecting from centrex nodes for customers? Complete the Feature Data Table form to provide the required information concerning the data type(s), and any OM subtypes, to be collected.
- (4) What DMS-100/DMS-200 node(s) will the DNC system be collecting or (DNC-100) receiving collected data from? Complete the Node Table form to provide one entry for each centrex node that is to contribute data to the system.
  - for a DNC-50 or a DNC-500: go to the next step
  - for a DNC-100: go to step 8
- (5) What customer(s) will the DNC-50 or DNC-500 system serve? Complete the Customer Table to provide one entry for each customer for which the system is to collect and process data.
- (6) Which DMS-100 or DMS-200 node(s) belong to the centrex networks of the customer(s) to be served by the new DNC-50 or DNC-500 system? List the centrex nodes that belong to each customer in the Customer Node Table form.

- (7) What type(s) of feature data will the DNC-50 or DNC-500 system be collecting from centrex nodes for each customer? List the type(s), and any OM subtypes, of data belonging to each customer in the Customer Feature Profile form.
  - for a DNC-500: go to the next step
  - for a DNC-50: go to step 9
- (8) What other DNC(s) are connected to the new DNC-500 or DNC-100 as part of this BNM system? List any other DNC-100(s) in the Other DNCs Table form or other DNC-500s in the Customer DNC Table form.
- (9) To what customer groups, at each relevant DMS node, do the customers that are served by this DNC system belong? Complete the Customer Group Table form with one entry for each customer group used by the DMS nodes for the relevant customer(s).
  - for a DNC-500 or a DNC-100: go to the next step
  - for a DNC-50: go to step 13
- (10) If the new DNC is to collect any ATT (automatic trunk test) or KT (killer trunk) data, complete the Trunk Ownership Table form with the appropriate information for each trunk that belongs to the customer(s) served by this DNC system. Then list in the Virtual Facility Group Table form, any DMS groups to which these trunks belong.
- (11) What lines at the relevant DMS node(s) belong to the centrex network(s) of the customer(s) served by this DMS system? Complete the Subscriber Line Usage Table form with one entry for each relevant subscriber line that belongs to the customer or customers of the system.
- (12) What attendant subgroup divisions are made for the lines in the centrex network(s) of the customer(s) that are served by this DNC system? Complete the Attendant Subgroup Table form with the information for each customer's attendant subgroups.
- (13) Is the new DNC to mask out any directory numbers in the SMDR data it produces for the customer(s) it serves? If so, list each directory number to be masked in the Mask Table.
- (14) What users are authorized for each feature in the new DNC System? Complete the User Table with the appropriate information for each authorized user of the system.



## **Attendant subgroup table**

In a BNM system each customer or customer group, or both, can have one or more attendant subgroups.

### **Customer Name**

The name, as known by the DNC, of the customer to which the facilities are dedicated. It must be the same as the Customer Name in the other customer and virtual facility group tables on the DNC-500 system.

### **Attendant Subgroup**

An attendant subgroup registered on the DMS for this customer.

### **User Defined Name**

The owner name, as understood by the customer defined in Owner Name. This is the name that appears on formatted reports.

### **User Reference**

A shorter customer name that is defined by the user for use by the system when pre-formatting spooled SMDR data.



## Customer table

The DNC-50, or DNC-500, Customer Table registers all customers for the operating company (telco) who are to be served by this BNM system. Each customer may use their own actual DNC-100, or may have the use of a "virtual" DNC-100 on the DNC-50, or DNC-500, system.

### **Customer Name**

(Up to 16 characters)

The name of the customer as it is to appear on formatted reports.

### **DNC Reference**

(Up to 16 characters)

The name of the customer as known by this and other BNM systems. It should be the same as the corresponding field at other BNM systems in the network.

### **Network Address**

(Up to 16 characters)

The name of the customer's DNC-100 in the NSAP Table in Packet Level Parameters. This name must be the same as the DTE Address in the Name/Address Table of the DNC-500, and must be entered in uppercase characters without blanks.

### **Password**

(Up to 8 characters)

This password will be required to logon to the BNM system of this customer.

### **Group Id**

(Number from 1 to 64)

The group to which this customer DNC-100 system belongs. The system reserves group 0 for the operating company owner of the DNC-50, or DNC-500, and its users. Each group (other than 0) represents a separate customer and associated DNC-100 (real or virtual). Up to 64 different customer groups are supported per BNM system.

### **SMDR Data Format**

(For SMDR data spooling customers only.)

This field indicates whether the customer wishes to have the system replace the various trunk group, virtual facility group, attendant console, and customer group names supplied by the MDC nodes in their centrex network with a single "User Reference" for each, as specified in the appropriate BNM tables. Once specified, these User References will appear as names on all SMDR data spooled to this customer. The candidate values are Y or N.

**User Port**

(Four numbers, from 0 to 99)

The Cabinet, Slot, Line, and Port numbers of the dedicated LIU connection used for SMDR data spooling to this customer. This information need only be specified if the customer requires the dedicated spooling feature; the combination of numbers must be unique for each user of the BNM system.

**Printer Group**

(Up to 16 characters)

The logical name of the printer, or any other output device, that is to be used for the customer. An NSR24, or later, version of the BNM system supports up to eight printers per DNC-500, one for each full (actual or remote access) DNC-100 customer.

**DNC Type**

- DNC-50, or DNC-500, (for the operating company owners and users),
- DNC-100 (for customers with their own DNC-100 system), or
- Remote Access (for customers with virtual DNC-100 systems).

The BNM system support up to 64 customers, including four actual DNC-100 systems, seven "virtual" DNC-100 systems (that is, remote access customer accounts on the operating company's DNC-500); the rest support SMDR features only.





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	<b>Form Code 0007</b>
Office _____	Page _____ of _____
Originator _____	Date (yyymmdd) _____
<b>(A) DNC Name</b>	<b>(B) DNC Reference</b>
<b>(C) Network Address</b>	<b>(D) Password</b>
<b>(E) DNC Type</b>	
<p>1)</p>	
<b>(A)</b>   0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	<b>(B)</b>   1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
<b>(C)</b>   3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	<b>(D)</b>   5 5 5 5 5 5 5 5 5 2 3 4 5 6 7 8 9
<b>(E)</b> <b>D</b>   <b>N</b>   <b>C</b>   6 6 6 6 6 6 6 1 2 3 4 5 6	
<p>2)</p>	
<b>(A)</b>   0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	<b>(B)</b>   1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
<b>(C)</b>   3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	<b>(D)</b>   5 5 5 5 5 5 5 5 5 2 3 4 5 6 7 8 9
<b>(E)</b> <b>D</b>   <b>N</b>   <b>C</b>   6 6 6 6 6 6 6 1 2 3 4 5 6	
<p>3)</p>	
<b>(A)</b>   0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	<b>(B)</b>   1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
<b>(C)</b>   3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	<b>(D)</b>   5 5 5 5 5 5 5 5 5 2 3 4 5 6 7 8 9
<b>(E)</b> <b>D</b>   <b>N</b>   <b>C</b>   6 6 6 6 6 6 6 1 2 3 4 5 6	
<p>4)</p>	
<b>(A)</b>   0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	<b>(B)</b>   1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
<b>(C)</b>   3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	<b>(D)</b>   5 5 5 5 5 5 5 5 5 2 3 4 5 6 7 8 9
<b>(E)</b> <b>D</b>   <b>N</b>   <b>C</b>   6 6 6 6 6 6 6 1 2 3 4 5 6	
<p>5)</p>	
<b>(A)</b>   0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	<b>(B)</b>   1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
<b>(C)</b>   3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	<b>(D)</b>   5 5 5 5 5 5 5 5 5 2 3 4 5 6 7 8 9
<b>(E)</b> <b>D</b>   <b>N</b>   <b>C</b>   6 6 6 6 6 6 6 1 2 3 4 5 6	

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## Customer DNC and other DNC table

The Customer DNC and Other DNC Table registers all DNCs, and their owners, that are part of this BNM system.

### Customer DNC requirements (DNC-50 or DNC-500)

The DNC-50, or DNC-500, Customer DNC Table registers all users of the DNC-50, or DNC-500, and the DNC-100 systems that comprise a total BNM system. All DNC-100 systems involved belong to customers of the operating company that owns the DNC-50, or DNC-500,.

#### DNC Name

(Up to 16 characters)

The name of the owner of the other BNM system, as known by other users of that system.

#### DNC Reference

(Up to 16 characters)

The name of the owner of the other BNM system and node, as known by the system. The entry must be consistent with the Customer Name and DNC Reference for this customer in all other BNM tables.

#### Network Address

(Up to 16 characters)

The logical address of the DNC system in the Packet Level Parameters Table. The entry must be the same as the DTE Address in the Name/Address Table, and must be entered in upper case characters with no blanks.

#### Password

(Eight characters)

The password the owner requires to access this other DNC.

#### DNC type

50 or 500 (for the operating company DNC)

100 (for the DNC-100 system of a customer)

The characters DNC are pre-entered and are to be followed by the characters 50, 500 or 100. The default value is 500.

### **Other DNC requirements (DNC-100)**

For a customer with a DNC-100, the Other DNC Table registers all other DNCs and their owners that are part of this BNM system.

#### **DNC Name**

(Up to 16 characters)

The name of the owner of the other BNM system, as known by the system's users.

#### **DNC Reference**

(Up to 16 characters)

The name of the owner of the other BNM system, as known by that system. The entry must be consistent with the Customer Name and DNC Reference for this customer in other tables.

#### **Network Address**

(Up to 16 characters)

The logical address of the other DNC system in the Packet Level Parameters Table. The entry must be the same as the DTE Address in the Name/Address Table, and must be entered in upper case characters with no blanks.

#### **Password**

(Eight characters)

This password is required to access this DNC.

#### **DNC Type**

DNC-500 (for the operating company DNC)

DNC-100 (for the DNC-100 system of a customer)

The characters DNC are pre-entered and are to be followed by the characters 500 or 100. The default value is 500.



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	Form Code 0008
Office _____	Page ____ of ____
Originator _____	Date (yymmdd) _____
(A) Customer Name	(B) Customer Group
(C) User Defined Name	(D) User Reference
1)	
(A) _____ 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	(B) _____ 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C) _____ 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	(D) _____ 5 5 5 5 2 3 4 5
2)	
(A) _____ 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	(B) _____ 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C) _____ 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	(D) _____ 5 5 5 5 2 3 4 5
3)	
(A) _____ 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	(B) _____ 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C) _____ 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	(D) _____ 5 5 5 5 2 3 4 5
4)	
(A) _____ 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	(B) _____ 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C) _____ 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	(D) _____ 5 5 5 5 2 3 4 5
5)	
(A) _____ 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	(B) _____ 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C) _____ 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	(D) _____ 5 5 5 5 2 3 4 5
6)	
(A) _____ 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	(B) _____ 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C) _____ 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	(D) _____ 5 5 5 5 2 3 4 5

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## Customer group table

Meridian Digital Centrex (MDC) customers can belong to one or more customer groups on the various DMS nodes of their MDC network.

### **Customer Name**

The name of the customer, as known by the DNC, to which the facilities are dedicated. It must be the same as the Customer Name in the other customer tables on the DNC-500 system.

### **Customer Group**

The DMS customer group to which the customer belongs.

### **User Defined Name**

The Owner Name, as known by the customer defined in Owner Name. This is the name that appears on formatted reports.

### **User Reference**

(For SMDR data spooling customers only.)

The four-character name that the BNM system is to substitute for any local MDC node name for this customer group in all SMDR data spooled to the current customer.





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## DMOP table

Table DMOP ( Disk Monitoring Operation) is used to define each customer's disk utilization level for SMDR Data Collection (SM), for Station Administration (SA), and for Customer Programming (CP). It is also used to set the number of times that a feature is monitored in relation to the number of times that the feature is activated.

Disk Monitoring is conducted once hourly, or notification is received from the System Data Manager (SDM) that changes have been made to Table DMOP or Table DMUDF, or both.

### **Tuple\_Id**

(25 characters)

This field is part of the SDM sub-system; entries must be unique in the SDM environment in the same way that all other entries in the SDM sub-system are unique.

### **FEATURE**

(A maximum of nine characters) SM, SA, CP, <from Table DMUDF>

The name of the application software that is to be monitored. For value CP, and for other application software, a pathname must be defined in Table DMUDF for each application software name.

### **CUSTOMER**

(16 characters)

The name of the customer when the value in the field FEATURE is SM or SA. For all other values of the field FEATURE the field CUSTOMER is left blank.

### **DIR\_AL\_SIZE**

(Range -1, or 6 to 32767 Kbytes)

The total size of the directory, above which an alarm will be raised. The default value -1 is assigned to prevent an alarm being raised, and only if the value in field DIR\_WP\_SIZE is also -1.

### **DIR\_WP\_SIZE**

(Range -1, or 8 to 32767 Kbytes)

The total size of the directory, above which the directory is Write-Protected. The default value -1 is assigned to prevent the directory being Write-Protected. The value in this field must be greater than the value in field DIR\_AL\_SIZE.

### **Num\_FILE\_AL**

(Range -1, or 6 to 32767)

The quantity of files in the data directories of the feature, above which an alarm will be raised. When the default value -1 is assigned, no alarm is raised.

**DISK\_OM**

T or F

OMs are obtained only if the value in this field is set to T. The OMs report the total quantity of data files for a feature, and the total volume of these files. For feature SM the following additional OMs are reported:

- (a) the average quantity of files that were created per hour from the last monitoring process to the current monitoring process, assuming that no files were removed during that period.
- (b) the estimated quantity of records that were collected each hour from the last monitoring process to the current monitoring process, based on an average record size of 40 bytes.
- (c) the highest average of hourly record creation [(reference item (a))] during the current day, and the hour in which it occurred.

**MON\_FREQ**

(Range 1 to 32767)

The number of times that the data directory of the feature is activated before the feature is monitored. If the value in this field is -1 the directory will not be monitored. If the field is not datafilled, the default value 4 is assigned if the feature is SM, and 8 if the feature is SA. For all other features the default value is 1.

If Table DMOP and Table DMUDF are not datafilled when the Disk Monitoring PRU is put into service, the fields in Table DMOP are default datafilled as follows:

- Feature ..... SM or SA as applicable
- Customer ..... the name of the customer
- Dir\_AI\_Size ..... -1
- Dir\_WP\_Size ... -1
- #file\_AI ..... -1
- Disk\_OM ..... T
- Mon\_Freq ..... 4 for SM, 8 for SA

These default parameters, and the monitoring frequency, are stored in Table DMINIT.



	Form Code 0016
Office _____	Page _____ of _____
Originator _____	Date (yymmdd) _____
<b>(A) Feature</b>	<b>(B) Pathname</b>
1)	
<b>(A)</b>  _____  0 0 0 0 0 0 0 0 0 1 2 3 4 5 6 7 8 9	<b>(B)</b>  _____  1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
<b>(B)</b>  _____  2 2 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9	
<b>(B)</b>  _____  + <b>(B)</b>  _____  \$ 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	
2)	
<b>(A)</b>  _____  0 0 0 0 0 0 0 0 0 1 2 3 4 5 6 7 8 9	<b>(B)</b>  _____  1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
<b>(B)</b>  _____  2 2 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9	
<b>(B)</b>  _____  + <b>(B)</b>  _____  \$ 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	
3)	
<b>(A)</b>  _____  0 0 0 0 0 0 0 0 0 1 2 3 4 5 6 7 8 9	<b>(B)</b>  _____  1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
<b>(B)</b>  _____  2 2 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9	
<b>(B)</b>  _____  + <b>(B)</b>  _____  \$ 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	

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## DMUDF table

Table DMUDF is used to enable the user to monitor the disk utilization of application software other than those that are defined by default. This is done by giving the application a feature name, and then defining the feature in terms of its directory pathname.

After the feature is defined in Table DMUDF, the same feature name is datafilled in Table DMOP to define the utilization levels of the feature.

### **FEATURE**

(one to nine characters)

The name of the application software that is to be monitored.

### **PATHNAME**

( a maximum of 80 characters)

The Helix pathname of the application software data directory that is to be monitored. If the pathname does not extend beyond column 76, the symbol \$ is entered there instead of the symbol +, and the symbol \$ is omitted from column 80.

Office _____	Form Code 0002
Originator _____	Date (yymmdd) _____
<b>(A) Telco Name</b>	<b>(B) Telco DNC Reference</b>
<b>(C) Network Address</b>	<b>(D) Telco Password</b>
<b>(A)</b>   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   1   1   1	<b>(B)</b>   1   1   2   2   2   2   2   2   2   2   2   2   3   3   3   3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
<b>(C)</b>	<b>(D)</b>
3 3 3 3 3 4 4 4 4 4 4 4 4 4 5	5 5 5 5 5 5 5 5
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	2 3 4 5 6 7 8 9

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**DNC-50 system, or DNC-500 system, owner profile**

The DNC-50 system, or DNC-500 system, Owner Profile registers the operating company owner of the system, who has access to all customer data and to all functions of the BNM system.

**Telco Name**

(Up to 16 characters)

The operating company name as it is to appear on tapes, reports, etc.

**Telco DNC Reference**

(Up to 16 characters)

The operating company name recognized by the DNC-50 system, or DNC-500 system, and any attached DNC-100s on the system. The Telco DNC Reference must be the same as the Telco Name.

**Network Address**

(Up to 16 characters)

The NSAP Name of this DNC-50 system, or DNC-500 system, in the Packet Level Parameters Table. This name must be the same as the Address in DMS Table NOSADDR and the same as the DTE address in the X.25 Details Table of a connected DNC-100. All characters must be entered in upper case, without blanks between them.

**Telco Password**

(Up to 8 characters)

The password assigned to the operating company owner for accessing this DNC-50 system or DNC-500 system.

<b>Form Code 0003</b>																																																																																																																					
Office _____	Page ____ of ____																																																																																																																				
Originator _____	Date (yymmdd) _____																																																																																																																				
<b>(A) Customer Name</b>	<b>(B) DNC Reference</b>																																																																																																																				
<b>(C) Password</b>																																																																																																																					
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## **DNC-100 owner profile**

The DNC-100 Owner Profile registers the customer owner of a DNC-100 BNM system. A DNC-100 owner has access to all functions of the DNC-100 and to the portion of feature data transferred to that DNC-100 from the DNC-500 of the operating company.

### **Customer Name**

(Up to 16 characters)

The name of this customer owner, as it is to appear on tapes, reports, and the like. The name must be the same as the Customer Name in the various Customer Tables and Facility Ownership Tables of the DNC-500.

### **DNC Reference**

(Up to 16 characters)

The customer name as recognized by this DNC-100 and by the operating company's DNC-500 in this BNM system.

### **Password**

(Up to 8 characters)

The password that is assigned to the customer owner for accessing this DNC-100.



## Feature data table

The DNC-50, or DNC-500, Feature Data Table registers all types of feature data to be collected, processed, and distributed by the BNM system. Along with the type of data, this table registers the name by which this data is known on each DMS node of the centrex network concerned. For this reason, a type of feature data known by different names at different DMS nodes requires more than one entry in this table.

### Data Type Name

(Ten characters)

The name for the feature data as known by the users. This is the name that will appear on formatted reports. Names are required for the features ATT, KT, OM and SMDR.

### DNC Reference

(Ten characters)

The name for the feature data as known to this and other BNM systems (must be the same as the Feature Data Type in the Feature Profile Table). A given feature should have the same name at all DNCs. Candidate values are SMDR, OM, ATT, and SMDR.

### DMS Reference

(Ten characters)

The name for the feature data as understood by the DMS system(s).

### Data Subtype Name

(Ten characters)

This field applies to OMs only, and requires one of the following names (shown in bold type) to be entered:

- **TRK** - Trunk Group Usage
- **VFG** - Virtual Facility Group
- **SLU** - Subscriber Line Usage
- **IBN** - MDC Features usage
- **IBNSG** - Attendant Subgroup measurements
- **PRK** - Call Park OMs

### DNC Reference

(Ten characters)

This field applies to OMs only, and registers the name for the subgroup as known to this and other BNM systems. A given subgroup should have the same name at all DNCs.

### DMS Reference

(Ten characters)

This field applies to OMs only, and registers the name for the subgroup as known by the DMS system(s).

<div style="background-color: black; width: 100px; height: 15px; margin: 0 auto;"></div>	Form Code 0006
Office _____	Page ____ of ____
Originator _____	Date (yymmdd) _____
Customer Name	Continuation Mark <input type="checkbox"/>
0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	7 6
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1)	
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## Feature profile and customer feature profile

The DNC-100 Feature Profile Table registers all types of feature data to be collected for the customer or owner of the system and the DMS node(s) from which they are being collected.

The DNC-50, or DNC-500, Customer Feature Profile Table registers the feature data that is to be collected, and the node from which it is to be collected, for each customer on the BNM system.

### **DNC Application**

Enter BNM.

### **Node Name**

(Up to 16 characters)

The name of the node that is collecting data for the feature defined below. The entry must be the same as the DNC reference for the node name as defined in the Node Table.

### **Feature Data Type**

(Ten characters)

One entry for each of the feature data types SMDR, OM, KT or ATT that are to be collected. Each entry must be the same as the corresponding field of the Feature Data Table.

### **Data Subtype**

(Ten characters)

This field applies to OM data only. The OM subtype must be entered the same as DNC Reference for the subtype in the Feature Data Table.

### **Accumulation Interval**

Enter one of the texts **DAILY**, **WEEKLY**, or **MONTHLY** to specify the frequency of collecting data summaries from the DMS nodes.

Office \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_

Originator \_\_\_\_\_

Date (yymmdd) \_\_\_\_\_

- (A) Link ID    (B) Active    (C) Internal Clocking    (D) Inactivity Timer (1-255)    (E) Retransmission Timer (1-255)    (F) Retry Count (1-255)
- (G) Window Size (2-7)    (H) Cabinet    (I) Slot    (J) Line    (K) Port    (L) Data Rate    (M) Timer Resolution

1) (A) 

0	0	0
1	2	3

 (B) 

0
5

 (C) 

0
7

 (D) 

0	1	1
9	0	1

 (E) 

1	1	1
3	4	5

 (F) 

1	1	1
7	8	9

(G) 

2
1

 (H) 

2
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 (I) 

2
5

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 (K) 

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 (L) 

3	3	3	3	3
1	2	3	4	5

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7	8	9	0	1	2	3	4	5	6	7	8					

2) (A) 

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7	8	9	0	1	2	3	4	5	6	7	8					

5) (A) 

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1	2	3

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## Link details table

The Link Details Table (in Administrative Services) registers further configuration details of each X.25 link between the operating company's DNC-50, or DNC-500 BNM system, and a DMS node, or a customer's DNC-100 system. For DMS nodes, the information must match the information that is registered for the nodes in their X25LINK Tables.

### **Link ID**

(Range is 0-255)

This number uniquely identifies the physical link.

### **Active**

After all other data about the link has been provided, put an "X" in the box if this link is to be activated.

### **Internal Clocking**

Put an "X" in the box if the RS-232 clock signal is generated internally from the LIU of the operating company's DNC-500. Leave the box blank if the clock timer is taken from the modem.

### **Inactivity Timer**

(Range is 1-255 increments)

During periods of inactivity, this timer is used to poll the link to verify that it is still active. The increment period is taken from Timer Resolution value.

### **Retransmission Timer**

(Range is 1-255 increments)

The retransmission timer (LAPB 'T1' timer) defines the maximum time to wait for acknowledgement of an LAPB command. The increment period is taken from Timer Resolution value.

### **Retry Count**

(Range is 1-255)

The maximum number of times to retransmit a frame after the expiration of the Retransmission Timer. The default number is 10.

### **Window Size**

(Range is 2-7)

The maximum number of I-frames that may be outstanding on the link at any one time. This field value is referred to as 'k' in CCITT documents. The default number is 7.

### **Cabinet, Slot, Line, Port**

(Four single-digit numbers)

The location of the port, on the operating company's DNC-500, that is being used for this link.

**Data Rate**

(Up to 5 digits)

The speed at which this link operates. This rate must match the corresponding BAUDRATE parameter in the X25LINK Table for each DMS node; it is in effect only when Internal Clocking is in force. The default rate is 9660.

**Time Resolution**

(Up to 12 characters)

This field is used only with MLP mode. It sets the resolution of the previously listed timers. It may be set to either seconds, causing the associated timer counter to increment every second, or to centiseconds, causing the associated timer counter to increment every 1/100th of a second.







## Link configuration table

The Link Configuration Table (in Administrative Services) registers the configuration details of each X.25 link between the operating company's DNC-500 BNM system and a DMS node, or a customer's DNC-100 system. For DMS nodes, the information must match the information that is registered for the nodes in their X25LINK Tables.

### **MLP Mode**

(Up to 8 characters)

The type of multiple link procedure, which may be one of Single Link Procedures (SLP) or Multiple Link Procedures (MLP) 1980. MLP 1984 is not yet implemented.

### **Role**

(Three characters)

The role of this end of the link. In any data link, one end is the Data Terminal Equipment (DTE) and the other end is the Data Communications Equipment (DCE). A DNC-500 system is generally set to DCE, while DMS nodes and DNC-100 systems are set to DTE. DCE causes the LIU to use the 'A' address for command frames (X'03' for SLP mode and X'0F' for MLP mode). At the packet level, DCE causes outgoing calls to use the lowest available LCN for outgoing calls.

### **MLP Window Size**

(Range 1-64)

This field, sometimes referred to as 'mw' in CCITT documents, is used only if MLP mode was selected. It records the maximum number of outstanding frames across all links in the MLP group. If a DMS node is being connected, this number must match the corresponding FRMWINDO parameter in the X25LINK Table of the DMS node.

### **MLP Guard Region**

(Range 1-64)

This field, referred to as 'mx' in CCITT documents, is used only if MLP was selected. It records the number to determine the range of received MLP sequence numbers that will be considered invalid.

### **Lost Frame Timer**

(Range 1-255)

This field, referred to as 'T3' in CCITT documents, is used only if MLP was selected. It records the number to determine the maximum amount of time to wait for an out-of-sequence packet to arrive. The expiration of this timer indicates the loss of one or more packets. This parameter is counted at the rate specified by the Timer Resolution parameter.

### **MLP Reset Timer**

This parameter, intended for use with MLP 1984 operation, is left blank.

**Timer Resolution**

(Up to 12 characters)

This field is used only with MLP mode. The parameter is associated with Lost Frame and MLP Reset timers. It may be set to either SECONDS, causing the associated timer counter to increment every second, or to CENTISECONDS, causing the associated timer counter to increment every 1/100th of a second.





## Mask table

The Mask Table registers all telephone numbers in the centrex network(s) that the operating company or its customers, or both, do not want to appear in SMDR data or reports.

### **Phone Number**

The directory number, including the area code, that is to be queried for presence in the mask table. The number is entered in the format NPANNXXXXX (where NPA is the numbering plan area code) but is always stored in format NPA-NXX-XXXX.





## **Name/address table**

The Name/Address Table (in Administrative Services) registers the name and address of each DMS node, or a customer's DNC-100 system. For DMS nodes, the information must match the Address in DMS Table NOSADDR and the information in each Node table of the DNC.

### **Name**

(Up to 16 characters)

The name of the DMS-100 node, or the DMS-200 node, must be exactly as it is to be listed in the Node tables of the DNC-500 and the related DNC-100 BNM systems. This includes the use of upper and lower case letters and blanks.

### **DTE Address**

(Up to 14 characters)

The network address that has been assigned in the X.25 network for each DMS-100 node, or each DNC-100 node, to which this DNC-500 is connected.

42 DNC configuration data

<div style="background-color: black; width: 100px; height: 15px; margin: 0 auto;"></div>	Form Code 0005
Office _____	Page ____ of ____
Originator _____	Date (yymmdd) _____
Customer Name   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	Continuation <input type="checkbox"/> Mark <input type="checkbox"/>
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	
(A) Node	(B) DNC id
(C) Network Address	(D) Node Type
(E) S/W Load	
1)	
(A)   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	(B)   1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C)   3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	(D)   5 5 5 5 5 5 5 5 6 6
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	2 3 4 5 6 7 8 9 0 1
(E)   6 6 6 6 6 6 6 7 7 7	
3 4 5 6 7 8 9 0 1 2	
2)	
(A)   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	(B)   1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C)   3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	(D)   5 5 5 5 5 5 5 5 6 6
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	2 3 4 5 6 7 8 9 0 1
(E)   6 6 6 6 6 6 6 7 7 7	
3 4 5 6 7 8 9 0 1 2	
3)	
(A)   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	(B)   1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C)   3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	(D)   5 5 5 5 5 5 5 5 6 6
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	2 3 4 5 6 7 8 9 0 1
(E)   6 6 6 6 6 6 6 7 7 7	
3 4 5 6 7 8 9 0 1 2	

450-0755

## Node table and customer node table

All feature data for a particular customer on a BNM system must be gathered from one or more DMS nodes in a centrex network. The DNC-100 and the DNC-50, or DNC-500, Node Table registers all MDC (DMS) nodes that provide information to this BNM system.

The DNC-50, or DNC-500, Customer Node Table registers all DMS nodes that provide feature data for each customer of the BNM system. A DMS node can only be registered once in the Node Table, but this entry may be repeated for each applicable customer in the Customer Node Table.

### **Customer Name**

(Up to 16 characters)

The name of a BNM customer, required only if accessing the Customer Node Table is to be accessed.

### **Node**

(Up to 16 characters)

The name of the DMS node as it is to appear on formatted reports. This entry must be the same as the Name in the Name/Address Table.

### **Network Address**

(Eight characters)

The logical address of the DMS node in Packet Level Parameters table. This entry must be the same as the SVCDNA in DMS Table X25LINK, and the same as the DTE Address in the Name/Address Table. The entry must be in uppercase characters only, and must not contain any blanks.

### **Node Type**

(Ten Characters)

The type of the node in the customer system. Candidate values are DMS, SL100, and OFFNET. The default value is DMS.

### **S/W Load**

(Ten characters)

This is the software load of the switch that is to be added to the customer's system. The field data is optional, and is entered as BCSnn, where nn is the software load number.

	Form Code 0011
Office _____	Page ____ of ____
Originator _____	Date (yyymmdd) _____
(A) Customer Name	(B) Subscriber Line
(C) User Defined Name	
1)	
(A)   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	(B)   1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C)	
3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	
2)	
(A)   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	(B)   1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C)	
3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	
3)	
(A)   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	(B)   1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C)	
3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	
4)	
(A)   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	(B)   1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C)	
3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	
5)	
(A)   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	(B)   1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
(C)	
3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	

450-0761

## Subscriber line usage table

The Subscriber Line Usage Table identifies the lines that each customer of a BNM system uses at the various DMS nodes.

### **Customer Name**

The name, as known by the DNC, of the customer to which the facilities are dedicated. It must be the same as the Customer Name in the other customer and virtual facility group tables on the DNC-500 system.

### **Subscriber Line**

The name, as known by DMS, of the subscriber line. A LEN (line equipment number), DN (directory number) or station ID can be used.

### **User-Defined Name**

The name, as known by the customer, of the subscriber line. This is the name that appears on formatted reports.



## Trunk ownership table

The Trunk Ownership Tables in a BNM system determine the trunks in a Meridian Digital Centrex network that belong to (that is, are used by) each customer.

### **Originating Node Name and CLLI**

The name and CLLI for the originating node as known to the node. This is the name that will appear on formatted reports. If no entry is made to the CLLI field the default is all nodes.

### **Destination Node Name and CLLI**

The name and CLLI for the destination node as known to the node. This is the name that appears on formatted reports. If no entry is made to the CLLI field the default is all nodes.

### **Trunk Name**

The name for the trunk as known by the customer.

### **Trunk Type**

Either 1-way or 2-way.

### **Trunk Owner**

The name of customer to whom the trunk is dedicated.

### **User Reference**

(For SMDR data spooling customers only.)

The four-character name that the BNM system is to substitute for any local MDC node name for this trunk in all SMDR data that is spooled to the current customer.

[REDACTED] Form Code 0014

Office \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

Originator \_\_\_\_\_ Date (yymmdd) \_\_\_\_\_

(A) User Name                       (B) Quick Name  
 (C) Group No.                     (D) User Id No.             (E) Security Level           (F) Responsibility

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1)

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0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1																																																														
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450-0764



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## User

This table registers all users of a DNC-100 or DNC-50 system, or DNC-500 system, along with other relevant information.

### **User Name**

(Up to 16 characters)

The formal user name that appears on reports, tapes, etc.

### **Quick Name**

(Up to 16 characters)

An unofficial "nickname" of the user.

### **Group No.**

(Up to 5 digits)

The group number of the user in SAS (see practice 450-1011-300 and 450-1011-301).

### **User Id No.**

(Up to 5 digits)

The user ID number of the user in SAS (see practice 450-1011-300 and 450-1011-301).

### **Security Level**

Determines the operations the user can perform. The text shown in bold print is to be entered as required. If no entry is made the user is assigned System Administrator functions.

- (1) **System Administrator** all functions
- (2) **Operational Administrator** all but user assignment
- (3) **System Operator** tape, print queues
- (4) **Data Administrator** tape, print, data collection
- (5) **Maintenance** call tracking.

### **Responsibility Level**

Determines which types of system messages will be received by the user. If a user has more than one responsibility level, additional rows are completed with other responsibility levels as applicable, and the remaining fields repeated. If no responsibility level is assigned the user is assigned no responsibility. The following are the candidate responsibility levels:

- (a) **Operator**
- (b) **Administrator**
- (c) **Communications**
- (d) **System Resources**
- (e) **Data**

Office _____	Page ____ of ____
Originator _____	Date (yymmdd) _____
<b>(A) Customer Name</b>	<b>(B) Virtual Trunk Group</b>
<b>(C) User Defined Name</b>	<b>(D) User Reference</b>
<hr/>	
1) <b>(A)</b>   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	<b>(B)</b>   1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
<b>(C)</b>	<b>(D)</b>
3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	5 5 5 5
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	2 3 4 5
<hr/>	
2) <b>(A)</b>   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	<b>(B)</b>   1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
<b>(C)</b>	<b>(D)</b>
3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	5 5 5 5
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	2 3 4 5
<hr/>	
3) <b>(A)</b>   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	<b>(B)</b>   1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
<b>(C)</b>	<b>(D)</b>
3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	5 5 5 5
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	2 3 4 5
<hr/>	
4) <b>(A)</b>   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	<b>(B)</b>   1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
<b>(C)</b>	<b>(D)</b>
3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	5 5 5 5
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	2 3 4 5
<hr/>	
5) <b>(A)</b>   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	<b>(B)</b>   1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
<b>(C)</b>	<b>(D)</b>
3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	5 5 5 5
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	2 3 4 5
<hr/>	
6) <b>(A)</b>   0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1	<b>(B)</b>   1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6	8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3
<b>(C)</b>	<b>(D)</b>
3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 5	5 5 5 5
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	2 3 4 5

450-0760

## Virtual facility trunk group table

The Virtual Facility Trunk Group Table lists the VFGs of trunks to which each customer of the BNM system has access to on the various DMS nodes.

### **Customer Name**

The name of the customer, as known by the DNC, to which the facilities are dedicated. The name must be the same as the Customer Name in the Other Customer and Other Virtual Facility Group Tables on the DNC-500 system.

### **Virtual Trunk Group**

The name, as known by DMS, of the virtual trunk group.

### **User Defined Name**

The name, as known by the customer, of the virtual trunk group. This is the name that appears on formatted reports.

### **User Reference**

(For SMDR data spooling customers only.)

The four-character name that the BNM system substitutes for any local MDC node name, for this virtual trunk group, in all SMDR data that is spooled to the current customer.



## X.25 details table

The X.25 Details Table (in Administrative Services) registers the basic details of each X.25 link between the operating company's DNC-500 BNM system and a DMS node or a customer's DNC-100 system, or between the operating company's DNC-50 BNM system and a DMS node. For DMS nodes, the information in this table must match the information that is registered in the node's X25LINK Table.

### **Gateway Name**

(Up to 8 characters)

A symbolic name to identify the gateway externally. It may also be referred to as the 'subnet' name for an X25 occurrence. The default name is X25nn, where nn is the Object Index. Each X.25 line to another data device constitutes one gateway.

### **DTE Address**

(Up to 8 characters)

This data is optional. The network address that the gateway (that is, this DNC) has been assigned in the X.25 network. It is used as a calling address on call request packets. The default value is no address.

### **Default Packet Size**

(Up to 4 digits)

The X.25 packet size for the link. This size is one of 128, 256, 512, or 1024. It must match the corresponding PKTDATA entry in Table X25LINK if a DMS node is being connected.

### **Default Window Size**

(Range 1-7)

The maximum number of data packets that can be outstanding unacknowledged on a virtual circuit. This number must match the corresponding PKTWINDO parameter in Table X25LINK if a DMS node is being connected. The default number is 2.

### **Incoming Calls Allowed**

Put an "X" in the square if incoming calls are to be allowed on the link. Leave it blank if incoming calls are to be automatically cleared.

### **Default Application for Incoming Calls**

(Three characters)

A character string that identifies the name of the application to be used for incoming calls that contain no protocol ID. Enter NOS.

**Number of NETWORK, TRANSPORT, SURROGATE and PVC Connections**

(Range is 1-64)

The number of each type of virtual circuit connection used by the system. The NETWORK and PVC numbers must match the corresponding NUMSVCS and NUMPVCS entries in Table X25LINK if a DMS node is being connected. The default number is 1.

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## Network administration

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Network Administration of the Meridian Digital Network (MDC) depends on the data that is recorded in tables to establish routing plans and to set trunk parameters, and to apply network usage controls.

The tables and their form codes are listed alphabetically in Table 5-A.

**Table 5-A**  
**DMS-BNM network administration tables**

TABLE NAME	FORM CODE
IBNRTE	2433A&B
NCOS	2204
TRKGRP	2156V

PRACTICE 297-1001-454 SECTION 149 RELEASE AD01		DIGITAL MULTIPLEX SYSTEM IBN ROUTE TABLE RECORD		FORMCODE 2433A 7 8 7 0						
OFFICE _____		ORIGINATOR _____		PAGE _____ OF _____						
DATE ISSUED _____										
COMMAND	TABLE NAME									
0 0 0	0 0 0 0 1 1									
1 2 3	5 6 7 8 9 0 1									
T A B	I B N R T E									
COMMAND		DN	SNPA	NNX	4	DMT	4 = EXP			
		T	TABID		KEY					
		RX	CUSTNAME		3	NCOS	DMT	3 = SUBGRP		
		OW	C	E	Z	O	S	TABNAME	INDEX	
		S	H	X	N	E	V	CLLI	DMT	
		N	Q	P	VFG		DMT			
		VFG	VFG		DMT	CLLI		DMT		
		LINE	SNPA	5	8	7	DMT	5 = CO_CODE	7 = IDGTIME	8 = DEFG_DIGS
		ALWAYS								
		CND	SITE		SITE		TIMES			
		OR	TOD		TODNAME		COSMAP		ST	RTREF
		NOT	CALLCHR		CALLCHR		2 = PERCENT		SK	6 = SKIPNUM
			PREC		2 = CONDITION		T		TABNAME	INDEX
			PDR		VALUE					
0 0 0	0 0 0 0	1 1 1 1	2 2 2 2	2 2 2 2	2 2 2 2	2 2 2 2	3 3 3 3	3 3 3 3	3 3 3 3	3 3 3 3
1 2 3	5 6 7 8	0 1 2 3	4 5 6 7	8 9 0 1	2 3 4 5	6 7 8 9	0 1 2 3	4 5 6 7	8 9 0 1	2 3 4 5



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## Table IBNRTE

Table IBNRTE is used to set the routing of a call according to the digits that are dialed, or the conditions that are encountered during the processing of the call.

A number of the fields in the table consist solely of subfields. The following paragraphs discuss only the fields that require datafill.

### **RTE**

1 to 1023, or blank

Route Reference Index

### **IBNRTESEL**

DN, T, RX, OW, S, N, VFG, LINE, CND, NOT, QH, AC, IW, NIL, INS, ARS, or ISA

### **SNPA**

(numeric)

The serving NPA of the directory number.

### **NNX**

(numeric)

The NXX of the directory number.

### **EXP**

Y or N

Y allows expensive warning tone to be given to a line.

### **DMI**

0 to 32767

Digit Manipulation Index from Table DIGMAN. Enter 0 if digit manipulation is not required.

### **TABID**

IBNRTE, OFRT

The table identifier of the table to which the translation is to be routed.

### **KEY**

1 to 1023

The index of the table specified in field TABID

### **CUSTNAME**

(alphanumeric)

The Customer Group Name from Table CUSTHEAD.

### **SUBGRP**

0 to 7

The subgroup number of the customer group.

**NCOS**

0 to 255

The Network Class Of Service number.

**DMI**

0 to 32767

Digit Manipulation Index from Table DIGMAN. Enter 0 if digit manipulation is not required.

**OHQ**

Y or N

Off-Hook Queuing permission.

**CBQ**

Y or N

Call Back Queuing permission.

**EXP**

Y or N

Application of expensive route warning tone.

**ZONE**

0 to 9

The Outwats zone number for the virtual circuit per Table ZONEORDR.

**RTETYPE**

T

The route type field is shown as T on Form Code 2433 for translation to another Route List or route table.

**TABNAME**

IBNRTE or OFRT

The name of the table to which the translation is to be routed.

**KEY**

1 to 1023

The index that is provided in the table specified in field TABNAME.

**RTETYPE**

S

The route type field is shown as S on Form Code 2433 for translation to a code in Table CLLI.

**CLLI** (for Route Selector OW)

(alphanumeric)

The code in Table CLLI to which the translation must route.

**DMI**

0 to 32767

Digit Manipulation Index from Table DIGMAN. Enter 0 if digit manipulation is not required.

**RTETYPE**

V

The route type field is shown as V on Form Code 2433 for translation to a virtual facility group.

**VFG** (for Route Selector OW)

(1 to 6 alphanumeric characters)

The name of the virtual facility group to which the translation is to route.

**DMI**

0 to 32767

Digit Manipulation Index from Table DIGMAN. Enter 0 if digit manipulation is not required.

**CLLI** (for Route Selector S or N)

(alphanumeric)

The code that is assigned in Table CLLI to which the translation is to route.

**DMI**

0 to 32767

Digit Manipulation Index from Table DIGMAN. Enter 0 if digit manipulation is not required.

**VFG** (for Route Selector VFG)

(1 to 6 alphanumeric characters)

The name of the virtual facility group to which the translation is to route.

**DMI**

0 to 32767

Digit Manipulation Index from Table DIGMAN. Enter 0 if digit manipulation is not required.

**SNPA** (for Route Selector LINE)

(numeric)

The serving NPA of the directory number to which the call is to be terminated.

**CO\_CODE**

(numeric)

The NXX code of the directory number to which the call is to be terminated.

**DEFG\_DIGS**

(numeric)

The last four digits of the directory number to which the call is to be terminated.

**IDGTIME**

0 TO 63

The interdigital timing, expressed in units of ten milliseconds.

**DMI**

0 to 32767

Digit Manipulation Index from Table DIGMAN. Enter 0 if digit manipulation is not required.

**CONDSEL**

ALWAYS (to link two Route Lists together)

SITE (for transfer of the call to a specified Route List)

TOD (for transfer of the call at a specified time of day)

COSMAP (for transfer of the call after NCOS screening)

CALLCHR (for transfer of the call of specified characteristics)

RND (for transfer of the call based on random percentage specified)

**SITE**

(alphanumeric)

name of site from Table SITE.

**TODNAME**

(alphanumeric)

The name in Table TIMEODAY when the translation is to be routed.

**TIMES**

0 to 9, or A to F

The times in Table TIMEODAY when the translation can be transferred.

**COSMAP**

(alphanumeric)

The name in Table COSMAP for the NCOS mapping on which the transfer depends.

**CALLCHR**

(alphanumeric)

The name in Table CALLCHR containing the characteristics on which the transfer depends.

**PERCENT**

0 to 100

The percentage of calls to be affected.

**RTETYPE**

ST (for call transfer to another Route List in the same table)

SK ( for the call to skip to another route element in the same Route List)

T (For call transfer to another Route List in Table OFRT)

**RTEREF**

1 to 1023

The Route Reference number.

**SKIPNUM**

0 to 7

The number of elements to skip within the same Route List.

**TABNAME**

OFRT

The table name to which the translation is to be transferred.

**INDEX**

1 to 1023

The Route Reference index number in Table OFRT.

**CONDITION**

(R, P, I, F, O)

Establishes the precedence level of the trunk group, where:

R=Routine

P=Priority

I=Immediate

F=Flash

O=Override

**VALUE**

(string)

FIRST- where a precedence call is to be deflected on the first attempt

LAST- where a precedence call is to be deflected when the first deflection fails or is absent. (When the value LAST is encountered, the call is overwritten to precedence level ROUTINE to prevent further deflection.)

**OHQWT**

2 to 60

Off-Hook queuing waiting time , expressed in seconds.

**OVERRIDE**

Y (for specified customer and subgroup will always be used)

N ( for using customer group and subgroup when none apply to the call)

**CUSTNAME**

(alphanumeric)

Customer Group name Table CUSTHEAD.

**SUBGROUP**

10 to 7

The subgroup number to which the call is to be routed.



**ICI**

0 to 255

The ICI which will belong to this call.

**LINEATTR**

1 to 1023

The line attribute of the line being terminated on.

**NNX**

(numeric)

The central office code of the line being terminated on

**VFG**

(1 to 6 alphanumeric characters)

The name of the virtual facility group

**DMI**

0 to 32767

Digit Manipulation Index from Table DIGMAN. Enter 0 if digit manipulation is not required.

**NCOSLIST**

0 TO 255 (the NCOS number for which routing with the specified Route List will be attempted)

\$ (if less than 8 NCOS are entered)

**TREATMT**

0 to 63

The treatment a specified in Table IBNTREAT when the ARS authorization code is not in field NCOSLIST.

**TABID**

IBNRTE or OFRT

The table name to which the translation is to be routed.

**KEY**

1 to 1023

The index of the table specified in field TABID.

**OHQ**

Y (for off-hook queuing permitted)

N (for off-hook not permitted)

**CBQ**

Y (for call back queuing permitted)

N (for call back not permitted)

**EXP**

Y (for expensive route warning tone to be applied)

N (for expensive route warning tone not to be applied)

**CLLI**

(alphanumeric)

The CLLI code that is assigned in Table CLLI to which the translation must route.

**CALLTYPE**

TIE, INWATS, WATS,FX, PVT, PUB

ISA call types.

**FACNUM**

0 to 1023

Facility number in the NSF selector for call types FX and TIE

**ZONE**

0 to 9, A, B, C, or AUTO

Outwats zone identifier in the NSF selector for call type WATS

**NPI**

E164, PVT

The number plan identifier for calltype PVT that is in calling number delivery.

**OATYPE**

NONE, OP, or OM

The required type of operator access for calltype PUB.

**TNS**

0 to 999 (transit network number)

N (no TNS is required)

C (determine TNS from the call's originator)

**DMI**

0 to 32767

Digit Manipulation Index from Table DIGMAN. Enter 0 if digit manipulation is not required.







## Table NCOS

Table NCOS contains the Network Class Of Service numbers that are assigned to

- attendant consoles
- IBN or residential stations
- Incoming trunk groups
- the incoming side of two-way trunk groups
- authorization codes
- customer groups.

A number of the fields in the table are comprised solely of subfields. The following paragraphs discuss only the fields that require datafill.

### **CUSTGRP**

(1 to 16 alphanumeric characters) or blank  
The customer group name.

### **NCOS**

0 to 255, or blank  
The Network Class Of Service number.

### **NCOSNAME**

A to Z, 0 to 9, -, \$ or blank (1 to 16 characters)  
The Network Class Of Service name that is assigned for the key and lamp display.

### **LSC**

0 to 31, or blank  
The line screening code that is assigned to the NCOS number.

### **TRAFSNO**

0, 10 to 127, or blank  
The traffic separation number for the NCOS from Table TFANINT.

**OPTIONS**

XLAS <fields PRELXMLA, FEATXLA, DGCOLNM data>

OCTXLA <field OCTXLA data>

CRL <field CRL and field CRLACT data>

ERWT

ACR <field ANNREQD data>

CBQ <fields CBQSP, CBQMP, CBQRA and CBCOPTS data>

OHQ <field OHPRIO and field OHQNOTICE data>

ATT <field ATTN COS data>

AVP <field SDCOS data>

FLSHXLA <field PRELMXLA data>

DFLTNET <field NETNAME data>

PNB

PVN <field DIALOPT data>

The options are entered, followed by a space, and then the data for the associated subfields. The options that are candidates for assignment are as follows:

- (a) XLAS translator and digit collection
- (b) OCTXLA octothorpe translator
- (c) CRL code restriction level
- (d) ERWT expensive route warning tone
- (e) ACR authorization or account code last
- (f) CBQ call back queuing
- (g) OHQ off-hook queuing
- (h) ATT attendant NCOS
- (i) AVP Autovon screening
- (j) FLSHXLA flash translator
- (k) DFLTNET default logical network
- (l) PNB public network barring
- (m) PVN private virtual network



**Table TRKGRP**

Table TRKGRP is used to define the characteristics of incoming (type IBNTI), outgoing (type IBNTO), and two-way (IBNT2) IBNT trunk groups.

A number of the fields in the table are comprised solely of subfields. The following paragraphs discuss only the fields that require datafill.

**CLLI**

(alphanumeric)

The CLLI code for the trunk group in Table CLLI

**GRPTYP**

IBNTI, IBNTO, or IBNT2

The trunk group types.

**TRAFSNO**

0 (no traffic separation is required)

10 to 127 (the traffic separation number that is assigned to the trunk group in Table TRAFINT)

**PADGRP**

(alphabetic)

The name of the pad group that is assigned to the trunk in Table PADDATA.

**NCCLS**

NCRT (the trunk group type is IBNTI)

<the no circuit class assigned to the trunk group>

**CUSTNAME**

(1 to 16 alphanumeric characters)

The customer group name to which the trunk group belongs.

**SUBGRPNO**

0 to 7

The subgroup number of the attendant consoles to which attendant calls are routed.

**SELSEQ**

LIDL, ASEQ, DSEQ, CWCTH, CCWCTH, MIDL, or blank.

The trunk select sequence.

**NCOS**

0 TO 255, or blank

The NCOS number that is assigned to a trunk type IBNTI or IBNT2. Type IBNTO is blank.

**BILLDN**

(numeric), N, or blank  
The billing directory number.

**SUPV**

ANSDISC, DISCONLY, FAKEANS, NODISC  
Answer and disconnect supervision.

**DISCTEL**

0 to 3  
Trunk group disconnect timing.

**INTRAGROUP**

Y (for the call is intragroup)  
N (for the call is not intragroup)

**DIGIT0**

(numeric), N, or blank  
When one or two digits are to be prefixed to the incoming digits.

**DIGIT1**

(numeric), N, or blank  
When two digits are to be prefixed to the incoming digits.

**DTI**

Y, N, or blank  
Treatment of second dial tone.

**TES**

Y, N, or blank  
Treatment of toll essential service.

**CDR**

Y, N, or blank  
Treatment of call detail recording.

**SMDR**

Y, N, or blank  
Treatment station message detail recording.

**TRC**

0 to 7, or blank  
Terminating restriction codes.

**ALTNCOS**

0 to 255, or blank  
The alternate NCOS number.

**TRKDSR**

Y, N, or blank

The treatment of distinctive ringing on trunks.

**ALTSCFN**

0 to 255, or blank

The alternate Line Screening Code Flag number.

**LSCINCPT**

0 to 63, or blank

Line screening code flexible intercept.

**ALSCINCP**

0 to 63, or blank

Alternate line screening code flexible intercept number.

**IGA**

N or blank

Ignore answer.

**FDN**

Y, N, or blank

Toll denial treatment of FX trunk calls.

**FDV**

Y, N, or blank

Toll diversion treatment of FX trunk calls.

**FLASH**

Y, N, or blank

Flash treatment for trunk calls.

**DPX**

Y, N, or blank

Datapath Loop Extension.

**PREEMPT**

Y or N

Preemption assignment to military access lines.

**AIOD**

Y or N

Automatic identification of outward dialing.

**PMODE**

A, M, or N

Assigning preemption modes at an Autovon node.



**INCPREC**

Y or N

Determination of incoming precedence digits for military access lines.

**INCROUT**

Y or N

Determination of incoming routing digits for military access lines.

**MTR**

Y, N, or blank

Meter reception.

**CALLCHR**

SAT, DIGDATA, or blank

Call characteristics for incoming trunk groups.

**OPTIONS**

CALLCHR DIGDATA, CALLCHR SAT, SPCLBLG CCSA, SPCLBLG TDMTT, SPCLBLG FX, SPCLBLG ETS, NOACCOMP.

Options required for two-way trunk groups, outgoing trunk groups, and for incoming or two-way trunk groups without access to the modem pool.

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# Abbreviations

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AMA	Automatic Message Accounting
ASCII	American Standard Code for Information Exchange
ATT	Automatic Trunk Tests
BCD	Binary Coded Decimal
BCS	Batch Change Supplement
BNM	Business Network Management
CCITT	International Telephone and Telegraph Consultative Committee
CI	Command Interpreter
CLLI	Common Language Location Identifier
DCE	Data Communications Equipment
DDU	Disk Drive Unit
DIRP	Device Independent Recording Package
DMS	Digital Multiplex System
DN	Directory Number
DNC	Dynamic Network Controller
DPC	Data Protocol Controller
DTE	Data Terminal Equipment
EBCDIC	Extended Binary Coded Decimal Interchange Code
INIT	Initialization
IOC	Input and Output Controller
KT	Killer Trunk
LEN	Line Equipment Number
MDC	Meridian Digital Centrex
MLP	Multiple Link Procedures
MPC	Multi-Protocol Controller
NOS	Network Operating System
NPA	Numbering Plan Area

Network Operations Systems  
**Business Network  
Management**

Data Forms

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