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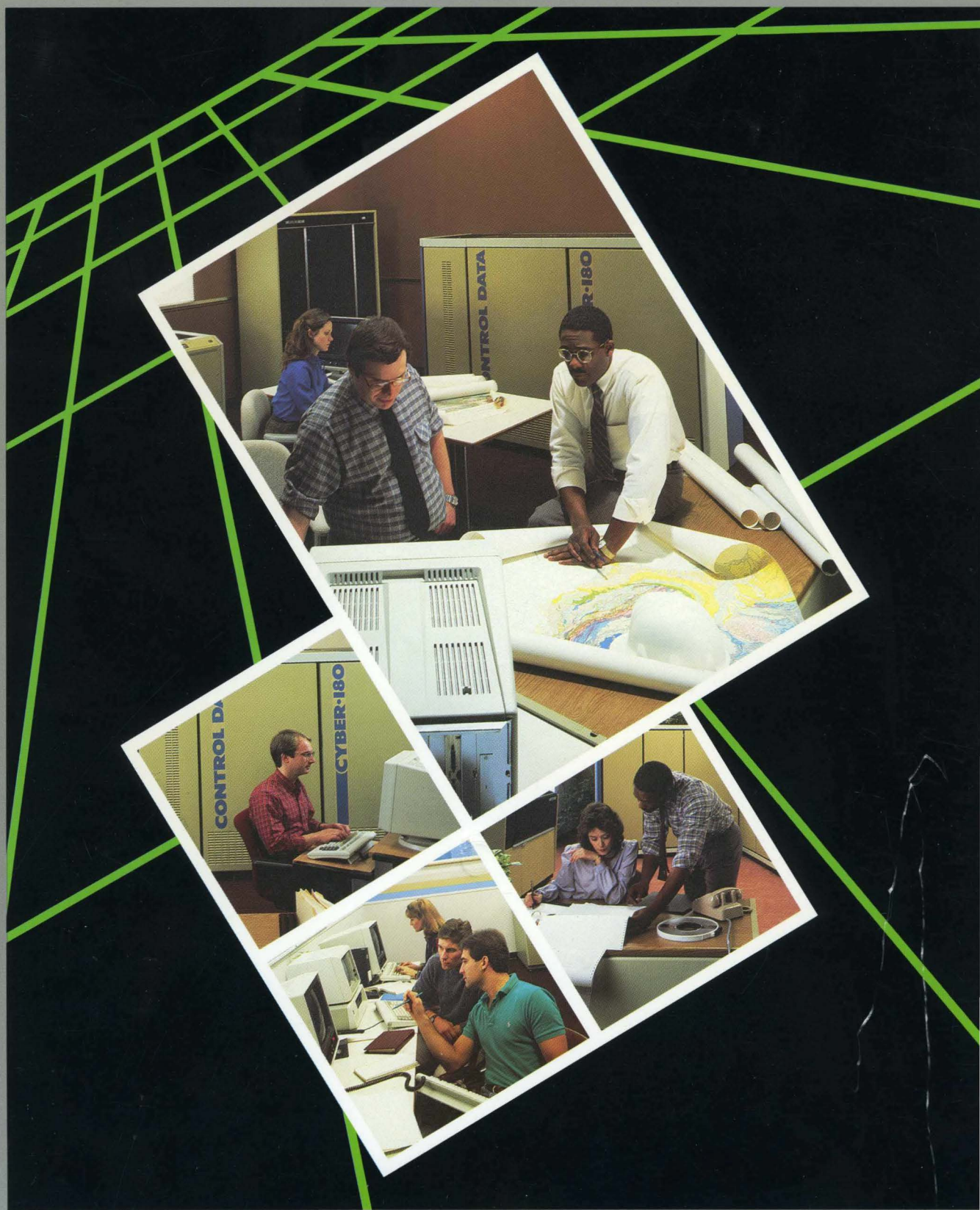
Mail/VE Version 2 Administration

CONTROL DATA



Usage

60464515

Mail/VE Version 2
Administration

Usage

This product is intended for use only as described in this document. Control Data cannot be responsible for the proper functioning of undescribed features and parameters.

Publication Number 60464515

Manual History

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About This Manual

This manual documents installation and maintenance procedures for the Mail/VE Version 2 which runs on the CONTROL DATA® Network Operating System/Virtual Environment (NOS/VE).

Mail/VE Version 2 is a multihost electronic mail system that conforms to the internationally-accepted standards described in the 1984 CCITT X.400 Recommendations on Message Handling Systems.

Audience

This manual provides information for the site analyst responsible for installing, configuring, and maintaining the Mail/VE system. In addition, the manual provides information for the site analyst responsible for managing the NOS/VE user validations that control access to Mail/VE. To use this manual, you should have a working knowledge of the NOS/VE System Command Language (SCL) as described in the NOS/VE System Usage manual.

Mail/VE Manuals

Mail/VE is supported by two manuals. This manual describes Mail/VE administration activities: installation, configuration, and maintenance.

The Mail/VE Usage manual describes how to read, write, and send letters using either screen or line mode. To use the Mail/VE Usage manual, you should be familiar with NOS/VE concepts as presented in the Introduction to NOS/VE manual.

Conventions

The following conventions are used in this manual:

Boldface	In a command format description, names and required parameters are in boldface type.
Italics	In a command format description, optional parameters are in italic type.
Numbers	All numbers are decimal unless otherwise noted.
`Examples`	In examples that show a dialogue between the system and the user, the user input is shown in lowercase characters.

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Overview of Mail/VE 1

Mail/VE Version 2 is a multihost electronic mail system that conforms to the internationally-accepted standards described in the 1984 CCITT X.400 Recommendations on Message Handling Systems.

In conforming with the X.400 Recommendations, Mail/VE Version 2 utilities, commands, subcommands, and parameters have names that refer to terms defined in the recommendations.

For readers unfamiliar with X.400 terminology, this chapter presents a brief overview of X.400 concepts and terms necessary for performing Mail/VE administration activities. The rest of this manual describes Mail/VE administration activities:

- Chapter 2 describes installation and configuration tasks:
  - Installing Mail/VE
  - Setting defaults for Mail/VE validations
  - Creating Mail/VE administrators
  - Creating organizations
  - Creating mailboxes for users
  - Creating routes for multihost mail transfer
- Chapter 3 describes Mail/VE maintenance tasks:
  - Backing up Mail/VE database files
  - Restoring Mail/VE database files
  - Editing a file of update subcommands
  - Activating Mail/VE statistics
  - Converting Mail/VE Version 1 database files
- Chapter 4 provides reference information on ADMINISTER_MAIL utility subcommands and functions.

Mail/VE and the X.400 Recommendations

This section describes X.400 Addresses, User Agents (UAs), and Message Transfer Agents (MTAs).

X.400 Addresses

In an X.400 mail system, each user is identified by a unique address in an address directory. To transfer messages in a worldwide electronic mail system, all X.400 mail systems provide the same hierarchy of address attributes:

- Global address attributes
- Local address attributes

Global Address Attributes

The global address attributes, also called inter-domain attributes, are registered names for the following:

- Country

  Worldwide, each country registers a unique country code to identify itself. The country code of the United Kingdom is UK; the country code of the United States of America is US, and so on.

- Administrative management domain

  Within each country, a designated authority registers the names of the administrative management domain(s). The administrative management domain, in turn, has the authority to register the names of private management domains.

  In countries that have a national telephone service, such as the United Kingdom, that service usually acts as the only administrative management domain and has the authority to register the names of private management domains.

  In countries that have competitive telephone services, such as the United States of America, the competitive telephone service will probably result in the existence of several administrative management domains. An example of one possible administrative management domain in the US is ATTMAIL.

- Private management domain

  A private management domain can be a corporation or any other group that wants to manage a private domain of mail users. For example, Control Data Corporation could register a private management domain name of CDC.

  A private management domain can be registered with more than one administrative management domain in any number of countries.

  In addition, a private management domain need not be registered with any administrative domain. By mutual agreement, private management domains can choose to be directly connected with one another.

Local Address Attributes

The local address attributes, also called the intradomain attributes, identify organizations within an administrative or private management domain:

- Organization name
- Organization units
- Personal name

The administrative or private management domain registers the names of organizations, which can consist of from one to four units. For example, Control Data, as a private management domain, could register the organization name ARH for its Arden Hills Operations and the name SVL for its Sunnyvale Operations.

The personal name is the unique name for a mailbox within a domain and organization. The distribution list name is a unique name for a list of addresses within a domain and organization.

X.400 User Agents (UAs)

In an X.400 mail system, messages are sent to a user identified by a unique address. That address identifier from which messages are sent and received is called a user agent (UA). The UA is analogous to a post office box.

For day-to-day administration tasks, you need not be concerned with the term user agent. However, the term user agent is used in some Mail/VE statistics. For information on Mail/VE statistics, refer to chapter 4.

X.400 Message Transfer Agents (MTAs)

The software that transfers messages to and from user agents on a system is called the Message Transfer Agent (MTA). The MTA is analogous to a post office. That is, the MTA serves a group of UAs in the same manner as a post office serves a group of post office boxes.

When you install Mail/VE on a host, you assign an MTA name to that instance of Mail/VE.

Mail/VE Installation and Validation 2

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Mail/VE Installation and Validation 2

This chapter provides step-by-step instructions for performing the following tasks:

- Installing Mail/VE Version 2
- Setting defaults for Mail/VE validations
- Creating administrators for Mail/VE
- Creating organizations
- Creating mailboxes for users
- Setting up multihost Mail/VE

Installing Mail/VE

The NOS/VE software release bulletin (SRB) describes how to run the INSTALL_SOFTWARE command. After the INSTALL_SOFTWARE command has been executed from the system console, the Mail/VE Version 2 command library and binaries are available in the $SYSTEM.MAILVE_V2 catalog. You can now install Mail/VE from the system console.

To install Mail/VE, you use the INSTALL_MAILVE procdure. This procedure installs the following software components:

- EMAIL utility

  Provides the user interface to Mail/VE Version 2. EMAIL is documented in the Mail/VE Version 2 Usage manual.

- ADMINISTER_MAIL utility

  Provides subcommands and functions for Mail/VE administration tasks. Reference information on utility usage is provided in chapter 4 of this manual. Before accessing this utility, a user's MAILVE_ADMINISTRATION validation must be set to ANALYST, SYSTEM, or FAMILY. For information on Mail/VE validations, refer to the next section in this chapter.

- Mail/VE Maintenance Command Library

  Provides commands and utilities for maintaining Mail/VE. The commands and utilities are described in chapter 3. Before accessing the maintenance library, a user's MAILVE_ADMINISTRATION validation must be set to ANALYST. For information on Mail/VE validations, refer to the next section in this chapter.

- Mail/VE Database Files

  Provides directories of all entities in the mail system. An entity can be a mailbox or a distribution list. For information on Mail/VE database files, refer to chapter 3.

To execute the INSTALL_MAIL procedure, follow these steps:

1. Add the maintenance command library to the command list:

```
/create_command_list_entry ..
../entry=$system.mailve_v2.maintenance.command_library
/
```

2. Execute the INSTALL_MAIL procedure to initialize the Mail/VE database files and installation table. The INSTALL_MAIL procedure provides the following parameters:

   - X.400 country code
   - Mail/VE message transfer agent (MTA) name

   NOTE

   In multihost environments, the MTA name must also be a registered network title for the Queue File Transfer Facility (QTF). For information on registering a title for a network application such as QTF, refer to the NOS/VE Network Management manual.

   - X.400 administrative management domain name
   - X.400 private management domain name
   - Database catalog name

3. From the system console, execute the ACTIVATE_MAILVE procedure which resides on file OSF$BUILTIN_LIBRARY.

   If you want to automatically activate Mail/VE when the network is activated, include the ACTIVATE_MAILVE procedure in file NETWORK_ACTIVATION_EPILOG in catalog $SYSTEM.PROLOGS_AND_EPILOGS. For information on system prolog and epilog files, refer to the NOS/VE System Performance and Maintenance manual, Volume 2.

Mail/VE Validations

This section describes the NOS/VE validations that control the usage of Mail/VE and provides step-by-step instructions for using the NOS/VE ADMINISTER_VALIDATIONS utility to manage Mail/VE validations.

Only a NOS/VE system or family administrator (that is, a user whose validation includes the SYSTEM_ADMINISTRATION or FAMILY_ADMINISTRATION capability) can manage validations. For Mail/VE, this user must perform the following:

- Create one or more Mail/VE administrators. The Mail/VE administrators have access to the ADMINISTOR_MAIL utility and the Mail/VE maintenance commands.
- Set defaults for all Mail/VE validations. The default validations are automatically assigned to all current and future NOS/VE users.

For complete information on NOS/VE validations and ADMINISTER_VALIDATIONS utility usage, refer to the NOS/VE User Validation manual.

Description of Mail/VE Validations

There are four NOS/VE validations that control the usage of Mail/VE Version 2:

- MAILVE_ADMINISTRATION
- MAILVE_DISTRIBUTION_LIST_LIMIT
- MAILVE_MAILBOX_LIMIT
- MAILVE_RETENTION_LIMIT

Figure 2-1 shows the released versions of the validation fields.

```
MAILVE_ADMINISTRATION
    Field type: NAME
      Number of names allowed: 1
    Default value:  NONE
    Description: Controls the level of access of the
                 user to MAILVE.
    Change authority:  System administration
    Display authority: User
    Manage authority:  System administration
    Delete authority:  System

   MAILVE_DISTRIBUTION_LIST_LIMIT
       Field type: LIMIT
         Minimum limit value:          0
         Maximum limit value:        256
       Default value:      25
       Description: Limits the number of MAILVE distribution lists.
       Change authority:  Family administration
       Display authority: User
       Manage authority:  Family administration
       Delete authority:  System

   MAILVE_MAILBOX_LIMIT
       Field type: LIMIT
         Minimum limit value:          0
         Maximum limit value:        256
       Default value:       3
       Description: Limits the number of MAILVE mailboxes.
       Change authority:  Family administration
       Display authority: User
       Manage authority:  Family administration
       Delete authority:  System

   MAILVE_RETENTION_LIMIT
       Field type: LIMIT
         Minimum limit value:          1
         Maximum limit value:  UNLIMITED
       Default value:      14
       Description: Specifies the maximum retention period for a
                    MAILVE mailbox.
       Change authority:  Family administration
       Display authority: User
       Manage authority:  Family administration
       Delete authority:  System
```

Figure 2-1. Released Mail/VE Validation Field Descriptions

MAILVE_ADMINISTRATION Validation

The MAILVE_ADMINISTRATION validation controls access to Mail/VE. There are five access levels:

- ANALYST. Authority to use EMAIL, ADMINISTER_MAIL, and all Mail/VE maintenance commands.
- SYSTEM. Authority to use EMAIL and ADMINISTER_MAIL.
- FAMILY. Authority to use EMAIL and ADMINISTER_MAIL subcommands to create and change mailboxes for users of a family.
- USER. Authority to use EMAIL, including the subcommands to create and maintain mailboxes for own user name.
- NONE. Cannot use EMAIL until a Mail/VE administrator creates a mailbox for the user. Can never use EMAIL subcommands for creating mailboxes.

The released default value for the MAILVE_ADMINISTRATION level is NONE. That is, users are denied access to EMAIL until an administrator creates a mailbox for their use. If you want the users at your site to be able to create and change mailboxes for their own use, change the default MAILVE_ADMINISTRATION level to USER. Only users with SYSTEM_ADMINISTRATION capability can change this validation.

MAILVE_DISTRIBUTION_LIST_LIMIT Validation

The MAILVE_DISTRIBUTION_LIST_LIMIT validation controls the number of distribution lists permitted to a user. The released default value for the MAILVE_DISTRIBUTION_LIST_LIMIT is 25 distribution lists.

MAILVE_MAILBOX_LIMIT Validation

The MAILVE_MAILBOX_LIMIT validation controls the number of mailboxes permitted to a user. The released default value for the MAILVE_MAILBOX_LIMIT is 3 mailboxes.

MAILVE_RETENTION_LIMIT Validation

The MAILVE_RETENTION_LIMIT validation specifies the maximum amount of time that letters are retained. The released default value for the MAILVE_RETENTION_LIMIT is 14. That is, a Mail/VE user can set the retention period for a given mailbox to a maximum of 14 days.

Users can change the retention period for specific letters using the EMAIL CHANGE_LETTER subcommand. Users can also change the retention period for letters delivered to a specific mailbox using the EMAIL CHANGE_MAILBOX subcommand. However, the retention periods can never exceed the default value set in the user's MAILVE_RETENTION_LIMIT validation.

An administrator, however, can set the retention period for a user's mailbox to a value greater than that user's MAILVE_RETENTION_LIMIT validation.

Setting Defaults for Mail/VE Validations

The following steps show how to set the defaults for Mail/VE validations using the ADMINISTER_VALIDATIONS utility. Once the defaults are set, all current and future users are automatically assigned the default values for the validations. For complete information on managing validations, refer to the NOS/VE User Validation manual.

NOTE

Only users with the SYSTEM_ADMINISTRATION or FAMILY_ADMINISTRATION capability can execute the subcommands in the following steps.

1. Start the ADMINISTER_VALIDATIONS utility. Then, specify the family for which you want to set the defaults for Mail/VE validations. For example, to start the utility and set the defaults for family DESIGN, enter:

```
/administer_validations
ADMV/use_validation_file vf=:design.$system.$validations
```

2. Start the MANAGE_USER_FIELDS subutility:

```
ADMV/manage_user_fields
MANUF/
```

3. Set the default for each validation:

   - Use the CHANGE_NAME_FIELD subcommand to set the default value for the MAILVE_ADMINISTRATION validation. For example, to set the default to USER, enter:

```
MANUF/change_name_field field_name=mailve_administration ..
MANUF../add_default_names=user delete_default_names=all
MANUF/
```

   - Use the CHANGE_LIMIT_FIELD subcommand to set the default value for the MAILVE_DISTRIBUTION_LIST_LIMIT validation. For example, to set the default to 5, enter:

```
MANUF/change_limit_field ..
MANUF../field_name=mailve_distribution_list_limit ..
MANUF../default_value=5
MANUF/
```

- Use the CHANGE_LIMIT_FIELD subcommand to set the default value for the MAILVE_MAILBOX_LIMIT validation. For example, to set the default to 1, enter:

```
MANUF/change_limit_field ..
MANUF../field_name=mailve_mailbox_limit ..
MANUF../default_value=1
MANUF/
```

- Use the CHANGE_LIMIT_FIELD subcommand to set the default value for the MAILVE_RETENTION_LIMIT validation. For example, to set the default to 30, enter:

```
MANUF/change_limit_field ..
MANUF../field_name=mailve_retention_limit ..
MANUF../default_value=30
MANUF/
```

4. Stop the MANAGE_USER_FIELDS subutility and the ADMINISTER_VALIDATIONS utility:

```
MANUF/quit
ADMV/quit
/
```

Creating Mail/VE Administrators

The MAILVE_ADMINISTRATION validation controls access to the ADMINISTER_MAIL utility and Mail/VE maintenance commands. To perform Mail/VE administration tasks, at least one user at a site must be validated to use the utility and commands. The following steps show how to create users who can perform Mail/VE administration tasks.

NOTE

Only users with the SYSTEM_ADMINISTRATION capability can execute the subcommands in the following steps.

1. Start the ADMINISTER_VALIDATIONS utility. Then, specify the family on which you want to create a Mail/VE administrator. For example, to start the utility and create administrators for family DESIGN, enter:

```
/administer_validations
ADMV/use_validation_file ..
ADMV../validation_file=:design.$system.$validations
```

2. Create Mail/VE administrators:

   - To create user MVE_SYSTEM as a Mail/VE system administrator, enter:

```
ADMV/create_user user=mve_system
Creating user MVE_SYSTEM
CREU/change_mailve_administration value=system
CREU/quit
ADMV/
```

   - To create user MVE_ANALYST as a Mail/VE analyst, enter:

```
ADMV/create_user user=mve_analyst
Creating user MVE_ANALYST
CREU/change_mailve_administration value=analyst
CREU/quit
ADMV/
```

   - To create user MVE_FAMILY_DESIGN as the Mail/VE family administrator of family DESIGN, enter:

```
ADMV/create_user user=mve_family_design
Creating user MVE_FAMILY_DESIGN
CREU/change_mailve_administration value=family
CREU/quit
ADMV/
```

3. Stop the ADMINISTER_VALIDATIONS utility by entering the QUIT command:

Creating Organizations

Mail/VE uses organizations to locate mailboxes and distribution lists in a multihost environment. For single-host environments, organizations can be created, but are not necessary.

An organization is identified by an organization name and/or organization units. Before any user can use an organization name or organization unit to define a mailbox or distribution list, the organization must be created in the Mail/VE directory.

To create the organizations on the host, follow these steps:

1. Log in to the system with a Mail/VE administrator user name. Then, start the ADMINISTER_MAIL utility:

```
/administer_mail
admm/
```

2. For each organization on the host, use the CREATE_ORGANIZATION subcommand to create the organization: include an organization name and/or from 1 to 4 organization units. This subcommand associates the organization with an MTA name for intradomain routing.

   For example, to create an organization that has the organization name MARKETING and four hierarchical units of MPLS, MIDWEST_REGION, and USA_ACCOUNTS and associate it with the MTA YELLOW, enter:

```
admm/create_organization ..
admm../organization_units=('mpls','midwest_region','usa_accounts') ..
admm../organization_name='marketing' ..
admm../title=yellow
admm/
```

   NOTE

   The order in which you list the organization units is significant. That is, the system preserves the order and you must maintain the order in all subsequent references to the units. For more information on the CREATE_ORGANIZATION subcommand, refer to chapter 4.

3. Stop the utility by entering the following subcommand:

```
admm/end_administer_mail
/
```

Creating Mailboxes for Users

Mail/VE automatically registers a user in the user directory at the time a mailbox is created for the user. If your site has set the default for the MAILVE_ ADMINISTRATION validation to USER, users are automatically registered when they create their mailbox.

If your site has set the default MAILVE_ADMINISTRATION validation to NONE, the Mail/VE adminstrator must create a mailbox for each user. To do so, follow these steps:

1. Start the ADMINISTER_MAIL utility:

```
/administer_mail
admm/
```

2. Enter a CREATE_MAILBOX subcommand for each user for which you need to create a mailbox. For example to create a mailbox for users USER_1, USER_2, and USER_3 of family ACCOUNTS, enter:

```
admm/create_mailbox user=user_1 family=accounts
crem/set_attribute ..
crem../personal_name='Frank Smith' ..
crem../organization_unit='unit 1' ..
crem../organization_name='payroll'
crem../end_create_mailbox
admm/
admm/create_mailbox user=user_2 family=accounts
crem/set_attribute ..
crem../personal_name='Ellen Stuart' ..
crem../organization_unit='unit 1' ..
crem../organization_name='payroll'
crem../end_create_mailbox
admm/
admm/create_mailbox user=user_3 family=accounts
crem/set_attribute ..
crem../personal_name='George Wright' ..
crem../organization_unit='unit 1' ..
crem../organization_name='payroll'
crem../end_create_mailbox
admm/
```

Setting Up Multihost Mail/VE

This section describes the additional set up steps necessary to establish a multihost Mail/VE system:

- Create organizations of remote hosts
- Create route entries for remote hosts
- Activate QTF

Create Organizations on Remote Hosts

Mail/VE uses organizations to locate mailboxes and distribution lists in a multihost environment. To successfully transfer mail to all locations in the network, you must create all the organizations on each host in the network.

For each organization, use the CREATE_ORGANIZATION subcommand of the ADMINISTER_MAIL utility. For complete information on the CREATE_ ORGANIZATION subcommand, refer to chapter 4.

Create Route Entries in the Mail/VE Route Directory

When you installed Mail/VE, the installation procedure created an initial route entry that defines the MTA installed on this host.

For each additional host in the network, create a route entry. To do so, use the CREATE_ROUTE subcommand of the ADMINISTER_MAIL utility. The value for the TRANSFER_SERVICE parameter is always QTF and the DESTINATION_TYPE parameter is always MVE.

For example, if a Mail/VE multihost environment consisted of three hosts with the MTA names YELLOW, PINK, and GREEN, the following routes should be created:

- On system YELLOW, routes must be added for systems PINK and GREEN:

```
ADMM/create_route ..
ADMM../title='pink' ..
ADMM../transfer_service=qtf ..
ADMM../destination_type=mve
ADMM/
ADMM/create_route ..
ADMM../title='green' ..
ADMM../transfer_service=qtf ..
ADMM../destination_type=mve
```

- On system PINK, routes must be created for systems YELLOW and GREEN:

```
ADMM/create_route ..
ADMM../title='yellow' ..
ADMM../transfer_service=qtf ..
ADMM../destination_type=mve
ADMM/
ADMM/create_route ..
ADMM../title='green' ..
ADMM../transfer_service=qtf ..
ADMM../destination_type=mve
```

- On system GREEN, routes must be created for systems YELLOW and PINK:

```
ADMM/create_route ..
ADMM../title='yellow' ..
ADMM../transfer_service=qtf ..
ADMM../destination_type=mve
ADMM/
ADMM/create_route ..
ADMM../title='pink' ..
ADMM../transfer_service=qtf ..
ADMM../destination_type=mve
```

Activate QTF

The Queue File Transfer Facility (QTF) provides the transfer service for mail in a Mail/VE multihost environment. Once QTF is installed, ensure that it has been activated.

To automatically activate QTF when the network is activated, include the ACTIVATE_QTF command in file NETWORK_ACTIVATION_EPILOG. For more information on QTF, refer to the NOS/VE Network Management manual. For more information on system prologs and epilogs, refer to the NOS/VE System Performance and Maintenance manual, Volume 2.

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Mail/VE Maintenance 3

This chapter provides reference information for the analyst who maintains Mail/VE Version 2. This chapter discusses:

- Mail/VE database files
- Mail/VE statistics
- Backing up Mail/VE database files
- Restoring Mail/VE database files
- Editing a file of update subcommands
- Converting Mail/VE Version 1 directories

Mail/VE Database Files

The Mail/VE database includes a central directory and a distributed database for messages. The distributed database stores files in each user's master catalog. Here is a list of the files in the central and distributed databases:

Central Directory Database Files

The following files reside in the catalog named during the Mail/VE installation:

- ADDRESS_DIRECTORY

  Contains up to three entries for each entity defined on the database. An entity is a mailbox or a distribution list. The record definition includes a personal name, organization name, organization units (1 to 4), and message transfer agent (MTA).

- DISTRIBUTION_LIST_CONTENTS

  Contains the address list for each distribution list defined on a database. There is at least one entry in the directory for each distribution list.

- ENTITY_DIRECTORY

  Contains an entry for each entity defined on this database. An entity is a mailbox or a distribution list. The record definition contains all names associated with the entity: organization name and units, description, and telephone number. For group entities, the record also contains the number of permission entries. For information on group mailboxes and distribution lists, refer to the Mail/VE Version 2 Usage manual.

- PERMISSION_DIRECTORY

  Contains the list of permissions for each group entity on the database. A group entity is either a group mailbox or group distribution list. There is at least one entry for each group entity. For information on permissions, refer to the Mail/VE Version 2 Usage manual.

- ROUTE_DIRECTORY

  Contains an entry for each path in the mail network. The Mail/VE administrator is responsible for adding routes to this directory.

- USER_DIRECTORY

  Contains an entry for each user who owns a mailbox on the host. Each entry contains the user's NOS/VE user name, family name, default mailbox, and number of owned entities (that is, number of owned mailboxes and distribution lists).

Distributed Database Files

The following file resides in the master catalog of each Mail/VE Version 2 user:

MVF$ELECTRONIC_MAIL_DATABASE

This file contains the user's messages, message headers, and various user options.

Mail/VE Statistics

Mail/VE emits statistics that can be gathered in the system statistic log. A site analyst can gather the statistics in the log by using the ACTIVATE_STATISTICS command. For information on Mail/VE statistics and the ACTIVATE_STATISTICS command, refer to the NOS/VE System Performance and Maintenance manual, Volume 2.

Directory Backup and Restore

The MANAGE_MAIL_DIRECTORY (MANMD) utility provides subcommands for backing up and restoring Mail/VE directory files. Only users whose MAILVE_ADMINISTRATION validation is set to ANALYST can access the utility.

To back up a directory, execute the GENERATE_DIRECTORY_UPDATE subcommand during a MANAGE_MAIL_DIRECTORY utility session. The subcommand reads the current directory entries and creates a file of MANMD update subcommands. There are four update subcommands:

UPDATE_DISTRIBUTION_LIST
UPDATE_MAILBOX
UPDATE_ORGANIZATION
UPDATE_ROUTE

If necessary, you can edit the file of update subcommands to specify information for subcommand parameters not automatically generated by the GENERATE_DIRECTORY_UPDATE subcommand.

To restore a directory, execute the file of update subcommands during a MANAGE_MAIL_DIRECTORY utility session. The following sections describe how to back up a directory file, restore a directory file, and edit a file of update subcommands.

Backing Up a Directory File

To backup the Mail/VE directory file, you do not need exclusive access to the directory file. However, if you intend to edit the file of update subcommands produced by the GENERATE_DIRECTORY_UPDATE subcommand, you must have exclusive access to the directory files to ensure that no user modifies a directory entry subsequent to the utility generating the update subcommand for that entry.

NOTE

Only a user whose MAILVE_ADMINISTRATION validation is set to ANALYST can use the MANAGE_MAIL_DIRECTORY utility. In addition, the user must have a permit to the catalog in which the database files reside with an ACCESS_MODE of (ALL,CYCLE,CONTROL) and a SHARE_MODE of (NONE).

To back up a directory file, follow these steps:

1. Log in to the system using a Mail/VE analyst user name. Then, add the Mail/VE maintenance commands to the command list:

```
/create_command_list_entry ..
../e=$system.mailve_v2.maintenance.command_library
/
```

2. Start the MANAGE_MAIL_DIRECTORY utility by entering the following command:

```
/manage_mail_directory
MANMD/
```

3. Execute the GENERATE_DIRECTORY_UPDATE subcommand to translate the current directory entries into MANMD update subcommands. For example:

```
MANMD/generate_directory_update ..
MANMD../output=$mailve_admn.directory_backup
```

4. Stop the MANAGE_MAIL_DIRECTORY utility session:

```
MANMD/end_manage_mail_directory
/
```

Restoring the Mail/VE Directory Files

To restore the Mail/VE directory file, you must have exclusive access to the directory file. Follow these steps:

1. Log in to the system using a Mail/VE analyst user name. Then, add the Mail/VE maintenance commands to the command list:

```
/create_command_list_entry ..
../e=$system.mailve_v2.maintenance.command_library
/
```

2. Start the MANAGE_MAIL_DIRECTORY utility by entering the following command.

```
/manage_mail_directory errors=$user.restore_errors
MANMD/
```

3. Execute the update subcommands stored in the latest backup file. For example, to execute the subcommands in file $mailve_admn.directory_backup, enter:

```
MANMD/include_file file=$mailve_admn.directory_backup
MANMD/
```

4. When the file of update subcommands has finished executing, look at the errors file you named on the call to the MANAGE_MAIL_DIRECTORY utility:

   - If you do not understand the errors or the errors are not tolerable, exit this utility session without writing the changes. For example,

```
MANMD/end_manage_mail_directory save=false
/
```

   - If there are no errors or the errors are tolerable, exit the utility session and write the changes:

```
MANMD/end_manage_mail_directory save=true
/
```

     The utility creates new high cycles for every Mail/VE Version 2 directory file. These files are created only on the information provided by the file of update subcommands.

Editing a File of Update Subcommands

You must edit the file of update subcommands if you need to change the following:

- Family names
- Message transfer agent (MTA) names
- User names

The file of update subcommands is a text file which can be edited using a text editor such as the EDIT_FILE utility. While editing the file, follow these guidelines:

- Do not change any GLOBAL_KEY values. You can change any other information in the file.
- UPDATE_ORGANZITION subcommands must precede all UPDATE_ DISTRIBUTION_LIST and UPDATE_MAILBOX subcommands.
- When you modify any local address attributes (organization names, organization units, and personal names), make sure that the address is still unique within the private management domain.
- Proofread your editing carefully. If your editing causes an SCL syntax error, the file of update subcommands will not execute properly.

Converting Mail/VE Version 1 Directory Entries

If your site had been using Mail/VE Version 1, you can convert the version 1 directory of mailboxes and distribution lists for use with Mail/VE Version 2. Before you can perform the conversion:

- Mail/VE Version 2 must be installed.
- Your MAILVE_ADMINISTRATION level must be set to ANALYST.
- You must have a permit to the catalog where the Mail/VE Version 2 database files reside. The permit must include an ACCESS_MODE of (ALL,CYCLE,CONTROL) and a SHARE_MODE of (NONE).
- You must have a permit to the catalog $SYSTEM.MAILVE (the Mail/VE Version 1 database catalog). The permit must include an ACCESS_MODE of (ALL,CYCLE,CONTROL) and a SHARE_MODE of (NONE).
- You must have ring 4 privileges.

To convert the Mail/VE Version 1 directory of mailboxes and distribution lists, follow these steps:

1. Add the Mail/VE Version 2 maintenance commands to your command library by entering the following command:

```
/create_command_list_entry ..
../entry=$system.mailve_v2.maintenance.command_library
/
```

2. Inform all Mail/VE Version 1 users that you intend to convert the database files for use with version 2. Any changes they make after the conversion will not be included in the version 2 files.

3. Get exclusive access to the Mail/VE Version 1 database files. Then, execute the CONVERT_MAIL_DATABASE command and specify the following: the catalog that contains the version 1 database files, an output file, and an errors file. For example:

```
/convert_mailve_database..
../database=$system.mailve.mail..
../output=$mailve_admn.v1_update
../errors=$mailve_admn.error_file
```

   The CONVERT_MAIL_DATABASE command reads the Mail/VE Version 1 directory entries, translates the entries into MANAGE_MAIL_DIRECTORY subcommands, and stores the subcommands in the output file.

4. If you have created organizations, you will need to edit the file of update subcommands to include the organization names and/or units in the user mailbox and distribution list definitions. For information on editing the file of subcommands, refer to Editing a File of Update Subcommands earlier in this chapter.

5. Get exclusive access to the Mail/VE Version 2 directories. You can do this by temporarily changing catalog or file permissions to the directories after deadstart.

6. Start a MANAGE_MAIL_DIRECTORY utility session and execute the GENERATE_DIRECTORY_UPDATE subcommand. For example,

```
/manage_mail_directory
MANMD/generate_directory_update output=$mailve_admn.v2_update
MANMD/end_manage_mail_directory
/
```

7. Combine the two files of update subcommands produced by the CONVERT_MAIL_DATABASE and the GENERATE_DIRECTORY_UPDATE calls. For example:

```
/copy file input=$mailve_admn.v1_update ..
../output=$mailve_admn.v2_update.eoi
```

NOTE

The version 2 update subcommands must precede the version 1 update subcommands in the resulting file.

8. Execute the subcommands in the output file during a MANAGE_MAIL_DIRECTORY utility session. For example, to execute file $mailve_admn.v2_update:

```
manage_mail_directory
    include_file file=$mailve_admn.v2_update
end_manage_mail
```

When the MANAGE_MAIL_DIRECTORY utility session is ended, a new high cycle of each Mail/VE Version 2 directory file is created. The new cycles reflect both the information from the converted version 1 directory and the current version 2 directory.

Mail/VE Maintenance Commands

This section provides reference information for Mail/VE maintenance commands. The commands reside on the following library:

$SYSTEM.MAILVE_V2.MAINTENANCE.COMMAND_LIBRARY

To access the commands, your MAILVE_ADMINISTRATION validation level must be set to ANALYST.

CONVERT_MAILVE_DATABASE

Purpose Translates Mail/VE Version 1 directory entries into UPDATE_MAILBOX and UPDATE_DISTRIBUTION_LIST subcommands and stores the subcommands in the output file. The file of subcommands can be executed during a MANAGE_MAIL_DIRECTORY utility session to create entries in the Mail/VE Version 2 directory files.

Format

CONVERT_MAILVE_DATABASE or
CONMD
DATABASE_CATALOG=file
OUTPUT=file
ERRORS=file
STATUS=status variable

Parameters

DATABASE_CATALOG or *DC*

The catalog that contains the Mail/VE Version 1 database files. The default is $SYSTEM.MAILVE.MAIL.

OUTPUT or *O*

The file to which output is written. The default is file $OUTPUT.

ERRORS or *E*

The file to which errors are written. The default is file $ERRORS.

Remarks

- Mail/VE Version 2 must be installed before you can execute this command.
- Only users who are validated as an administrator of Mail/VE Version 1 can execute this command. To qualify as an administrator of Mail/VE Version 1, the user must have the following:
  - A permit to catalog $SYSTEM.MAILVE with an ACCESS_MODE of (ALL,CYCLE,CONTROL) and a SHARE_MODE of (NONE).
  - Ring 4 privilege.

INSTALL_MAIL

Purpose Installs Mail/VE Version 2 and initializes the Mail/VE Version 2 installation table and database.

Format

INSTALL_MAIL or
INSM
MESSAGE_TRANSFER_AGENT=string
PRIVATE_DOMAIN=string
ADMINISTRATIVE_DOMAIN=string
COUNTRY=string
DATABASE_CATALOG=file
STATUS=status variable

Parameters

MESSAGE_TRANSFER_AGENT or **MTA**

The message transfer agent (MTA) name to assign to this instance of Mail/VE.

PRIVATE_DOMAIN or *PD*

For X.400 transfer only. The private domain name assigned to this instance of Mail/VE.

ADMINISTRATIVE_DOMAIN or *AD*

For X.400 transfer only. The administrative domain name assigned to this instance of Mail/VE.

COUNTRY or *C*

For X.400 transfer only. The country name assigned to this instance of Mail/VE.

DATABASE_CATALOG or *DC*

The catalog in which to install the Mail/VE database files. The default is file $USER.MAILVE_V2.MAIL.

Remarks

- The Mail/VE installation table entries define this instance of Mail/VE and are used as default values by the mail system.
- INSTALL_MAIL must be executed from the system console.

MANAGE_MAIL_DIRECTORY

Purpose Starts the MANAGE_MAIL_DIRECTORY utility.

Format

MANAGE_MAIL_DIRECTORY or
MANMD
OUTPUT=file
ERRORS=file
STATUS=status variable

Parameters

OUTPUT or *O*

The file to which output is written. The default is file $OUTPUT.

ERRORS or *E*

The file to which errors are written. The default is file $ERRORS.

Directory Management Commands

This section provides reference information for the MANAGE_MAIL_DIRECTORY utility subcommands. The subcommands are generated when you use the GENERATE_DIRECTORY_UPDATE subcommand and the CONVERT_MAILVE_DATABASE command.

ADD_ADDRESS
UPDDL Subcommand

Purpose Specifies an address to add to a distribution list.

Format

ADD_ADDRESS or
ADDA
PERSONAL_NAME=string or *record*
ORGANIZATION_UNIT=list of string
ORGANIZATION_NAME=string
PRIVATE_DOMAIN=string
ADMINISTRATIVE_DOMAIN=string
COUNTRY=string
X121_ADDRESS=string
TERMINAL_IDENTIFIER=string
UA_IDENTIFIER=string
POSTAL_ADDRESS=list of string
POSTAL_ADDRESS_CODE=string
POSTAL_ADDRESS_COUNTRY_NAME=stringstring
DOMAIN_DEFINED_ATTRIBUTES=list of record
STATUS=status variable

Parameters

PERSONAL_NAME or *PN*

The name of the mailbox or distribution list to add to the distribution list. Specify the name as a 1- to 64-character string or a record of the following format:

```
record
  surname: string 1..40
  given name: string 0..16
  initials: string 0..5
  generation qualifier: string 0..3
recend
```

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 units associated with the mailbox or distribution list. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names is significant; address lookup procedures determine a match based on the order.

ORGANIZATION_NAME or *ON*

The name of the organization associated with the mailbox or distribution list. Specify the name as a 1- to 64-character string.

PRIVATE_DOMAIN or *PD*

For X.400 transfer only. The private domain of the mailbox or distribution list.

ADMINISTRATIVE_DOMAIN or *AD*

For X.400 transfer only. The administrative domain of the mailbox or distribution list.

COUNTRY or *C*

For X.400 transfer only. The country code of the mailbox or distribution list.

X121_ADDRESS or *XA*

The address of the mailbox or distribution list as specified in accordance with recommendation X.121. Specify a string of from 1 to 15 characters.

TERMINAL_IDENTIFIER or *TI*

The terminal identifier of a telematic terminal on which the mail will be read. Specify a string of from 1 to 32 characters.

UA_IDENTIFIER or *UI*

For X.400 transfer only. The user agent (UA) identifier of the mailbox or distribution list. The UA identifier must be unique within the specified domain. Specify a string of from 1 to 32 characters.

POSTAL_ADDRESS or *PA*

Information that describes the physical postal delivery system of the mailbox or distribution list. Specify the information with a list of from 2 to 6 strings of 1 to 30 characters each.

POSTAL_ADDRESS_COUNTRY_NAME or *PACN*

The postal address country name of the mailbox or distribution list. Specify a string of from 1 to 30 characters.

POSTAL_ADDRESS_CODE or *PAC*

The postal address code of the mailbox or distribution list. Specify a string of from 1 to 128 characters.

DOMAIN_DEFINED_ATTRIBUTES or *DDA*

A list of from 1 to 4 non-X.400 attributes of the mailbox or distribution list. Specify each attribute as a record of the following format:

```
record
  name: string 1..8
  value: string 1..128
recend
```

ADD_PERMISSION
UPDDL Subcommand
UPDM Subcommand

Purpose Adds a mailbox or distribution list to the group permitted to use the mailbox or distribution list

Format

ADD_PERMISSION or
ADDP
PERSONAL_NAME=string or *record*
ORGANIZATION_UNIT=list of string
ORGANIZATION_NAME=string
PRIVATE_DOMAIN=string
ADMINISTRATIVE_DOMAIN=string
COUNTRY=string
PERMISSIONS=keyword or list of keyword
STATUS=status variable

Parameters

PERSONAL_NAME or *PN*

The name of the mailbox or distribution to which access is permitted.. Specify the name as a 1- to 64-character string or a record of the following format:

```
record
  surname: string 1..40
  given name: string 0..16
  initials: string 0..5
  generation qualifier: string 0..3
recend
```

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 units associated with the mailbox or distribution list. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names is significant; address lookup procedures determine a match based on the order.

ORGANIZATION_NAME or *ON*

The name of the organization associated with the mailbox or distribution list. Specify the name as a 1- to 64-character string.

PRIVATE_DOMAIN or *PD*

For X.400 transfer only. The private domain of the mailbox or distribution list.

ADMINISTRATIVE_DOMAIN or *AD*

For X.400 transfer only. The administrative domain of the mailbox or distribution list.

COUNTRY or *C*

For X.400 transfer only. The country code of the mailbox or distribution list.

PERMISSIONS or *P*

The access permitted to the the mailbox or distribution list. The default is the keyword ALL. Specify one or more of the following keywords:

READ or R

For mailboxes, letters can be read; for distribution lists, the list can be displayed.

WRITE or W

For mailboxes only. Letters can be sent to the mailbox.

USE or U

For distribution lists only. Distribution list can be included in a recipient list. However, without READ access, cannot expand the distribution list.

ALL

For mailboxes, READ and WRITE; for distribution lists, READ and USE.

ACTIVATE_AUTO_FORWARDING UPDM Subcommand

Purpose Specifies a mailbox to which mail is automatically forwarded.

Format

ACTIVATE_AUTO_FORWARDING or
ACTAF
PERSONAL_NAME=string or *record*
ORGANIZATION_UNIT=list of string
ORGANIZATION_NAME=string
PRIVATE_DOMAIN=string
ADMINISTRATIVE_DOMAIN=string
COUNTRY=string
X121_ADDRESS=string
TERMINAL_IDENTIFIER=string
UA_IDENTIFIER=string
POSTAL_ADDRESS=list of string
POSTAL_ADDRESS_CODE=string
POSTAL_ADDRESS_COUNTRY_NAME=string
DOMAIN_DEFINED_ATTRIBUTES=list of record
STATUS=status variable

Parameters

PERSONAL_NAME or *PN*

The name of the mailbox to which mail is automatically forwarded. Specify the name as a 1- to 64-character string or a record of the following format:

```
record
  surname: string 1..40
  given name: string 0..16
  initials: string 0..5
  generation qualifier: string 0..3
recend
```

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 units associated with the mailbox. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names is significant; address lookup procedures determine a match based on the order.

ORGANIZATION_NAME or *ON*

The name of the organization associated with the mailbox. Specify the name as a 1- to 64-character string.

PRIVATE_DOMAIN or *PD*

For X.400 transfer only. The private domain of the mailbox or distribution list.

ADMINISTRATIVE_DOMAIN or *AD*

For X.400 transfer only. The administrative domain of the mailbox or distribution list.

COUNTRY or *C*

For X.400 transfer only. The country code of the mailbox or distribution list.

X121_ADDRESS or *XA*

The address of the mailbox or distribution list as specified in accordance with recommendation X.121. Specify a string of from 1 to 15 characters.

TERMINAL_IDENTIFIER or *TI*

The terminal identifier of a telematic terminal on which the mail will be read. Specify a string of from 1 to 32 characters.

UA_IDENTIFIER or *UI*

For X.400 transfer only. The user agent (UA) identifier of the mailbox or distribution list. The UA identifier must be unique within the specified domain. Specify a string of from 1 to 32 characters.

POSTAL_ADDRESS or *PA*

Information that describes the physical postal delivery system of the mailbox or distribution list. Specify the information with a list of from 2 to 6 strings of 1 to 30 characters each.

POSTAL_ADDRESS_COUNTRY_NAME or *PACN*

The postal address country name of the mailbox or distribution list. Specify a string of from 1 to 30 characters.

POSTAL_ADDRESS_CODE or *PAC*

The postal address code of the mailbox or distribution list. Specify a string of from 1 to 128 characters.

DOMAIN_DEFINED_ATTRIBUTES or *DDA*

A list of from 1 to 4 non-X.400 attributes of the mailbox or distribution list. Specify each attribute as a record of the following format:

```
record
  name: string 1..8
  value: string 1..128
recend
```

END_MANAGE_MAIL_DIRECTORY MANMD Subcommand

Purpose Stops a MANAGE_MAIL_DIRECTORY utility session.

Format

END_MANAGE_MAIL_DIRECTORY or
ENDMMD or
END or
QUIT or
QUI
SAVE=boolean
STATUS=status variable

Parameters

SAVE or *S*

Specifies whether the updates made during this utility session are saved or discarded. The default is TRUE. Specify one of the following keywords:

FALSE

Updates made during this utility session are discarded.

TRUE

Updates made during this utility session are saved. New high cycles for every Mail/VE directory file are created. Currently, the content of these new files is generated only from the update subcommands. Therefore, you must input a complete set of update subcommands or the new files will contain incomplete information.

END_UPDATE_DISTRIBUTION_LIST MANMD Subcommand

Purpose Stops an UPDATE_DISTRIBUTION_LIST subutility session.

Format

END_UPDATE_DISTRIBUTION_LIST or
ENDUDL or
END or
QUIT or
QUI
SAVE=boolean
STATUS=status variable

Parameters

SAVE or *S*

Specifies whether the changes made during this subutility session are saved or discarded. The default is TRUE. Specify one of the following keywords:

FALSE

Changes made during this subutility session are discarded.

TRUE

Changes made during this subutility session are saved.

END_UPDATE_MAILBOX MANMD Subcommand

Purpose Stops an UPDATE_MAILBOX subutility session.

Format

END_UPDATE_MAILBOX or
ENDUM or
END or
QUIT or
QUI
SAVE=boolean
STATUS=status variable

Parameters *SAVE* or *S*

Specifies whether the changes made during this subutility session are saved or discarded. The default is TRUE. Specify one of the following keywords:

FALSE

Changes made during this subutility session are discarded.

TRUE

Changes made during this subutility session are saved.

GENERATE_DIRECTORY_UPDATE MANMD Subcommand

Purpose Generates a file of update subcommands based on the current directory database files. This file of subcommands can be executed to produce Mail/VE directories.

Format

GENERATE_DIRECTORY_UPDATE or
GENDU
OUTPUT=file
ERRORS=file
STATUS=status variable

Parameters

OUTPUT or *O*

The file to which output is written. The default is the output file specified on the MANAGE_MAIL_DIRECTORY command.

ERRORS or *E*

The file to which errors are written. The default is the output file specified on the MANAGE_MAIL_DIRECTORY command.

SET_ATTRIBUTES UPDDL Subcommand

Purpose Defines or changes distribution list attributes.

Format

SET_ATTRIBUTES or
SET_ATTRIBUTE or
SETA
DISTRIBUTION_LIST_NAME=list of keyword or *string* or *record*
ORGANIZATION_UNITS=list of keyword or *string*
ORGANIZATION_NAME=list of string
DESCRIPTION=string
TELEPHONE_NUMBER=string
EXPAND=boolean
PERMIT_TYPE=keyword
STATUS=status variable

Parameters

DISTRIBUTION_LIST_NAME or *DLN*

A list of 3 strings to name the distribution list. The first element of the list is always used in displays. The second and third elements are aliases.

Each element can be the keyword NO_CHANGE or a 1- to 64-character string or a record of the following format:

```
record
  surname: string 1..40
  given name: string 0..16
  initials: string 0..5
  generation qualifier: string 0..3
recend
```

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 units associated with the distribution list. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names is significant; address lookup procedures determine a match based on the order.

ORGANIZATION_NAME or *ON*

The name of the organization associated with the distribution list. Specify the name as a 1- to 64-character string.

DESCRIPTION or *D*

A 1- to 64-character string that describes the distribution list.

TELEPHONE_NUMBER or *TN*

The telephone number of the distribution list owner. Specify a string of from 1 to 32 characters.

EXPAND or *E*

Specifies whether the distribution list is expanded in a recipient list. The default is no change. Specify one of the following keywords:

FALSE

Distribution list is not expanded.

TRUE

Distribution list is expanded.

PERMIT_TYPES or *PERMIT_TYPE* or *PT*

The type of distribution list permission. Specify one of the following keywords. The default when creating a distribution list is PRIVATE; the default when changing a distribution list is no change.

PRIVATE or PR

Only the owner of the distribution list can use the list.

PUBLIC or PU

Any user can use the distribution list.

GROUP or G

A group of defined mailboxes can use the distribution list. To add mailboxes to the group, use the ADD_PERMISSION subcommand.

SET_ATTRIBUTES
UPDM Subcommand

Purpose Defines or changes mailbox attributes.

Format

SET_ATTRIBUTES or
SET_ATTRIBUTE or
SETA
PERSONAL_NAME=list of keyword or *string* or *record*
ORGANIZATION_UNITS=list of keyword or *string*
ORGANIZATION_NAME=list of string
DESCRIPTION=string
TELEPHONE_NUMBER=string
RETENTION_PERIOD=keyword or *integer*
PERMIT_TYPE=keyword
STATUS=status variable

Parameters

PERSONAL_NAME or *PN*

A list of 3 strings to name the mailbox. The first element of the list is always used in displays. The second and third elements are aliases.

Each element can be the keyword NO_CHANGE or a 1- to 64-character string or a record of the following format:

```
record
  surname: string 1..40
  given name: string 0..16
  initials: string 0..5
  generation qualifier: string 0..3
recend
```

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 units associated with the mailbox. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names is significant; address lookup procedures determine a match based on the order.

ORGANIZATION_NAME or *ON*

The name of the organization associated with the mailbox. Specify the name as a 1- to 64-character string.

DESCRIPTION or *D*

A 1- to 64-character string that describes the mailbox.

TELEPHONE_NUMBER or *TN*

The telephone number of the mailbox owner. Specify a string of from 1 to 32 characters.

RETENTION_PERIOD or *RP*

The number of days a letter is retained in the mailbox after it has been seen. Specify the keyword MAXIMUM or an integer value for the number of days to retain letters. The default is the value set by the MAILVE_RETENTION_LIMIT validation.

PERMIT_TYPES or *PERMIT_TYPE* or *PT*

The type of mailbox permission. Specify one of the following keywords. The default when creating a mailbox is PRIVATE; the default when changing a mailbox is no change.

PRIVATE or PR

Only the owner of the mailbox can read or send mail using the mailbox.

PUBLIC or PU

Any user can use the mailbox to read or send mail.

GROUP or G

A group of defined mailboxes can read or send mail using the mailbox. To add mailboxes to the group, use the ADD_PERMISSION subcommand.

UPDATE_DISTRIBUTION_LIST MANMD Subcommand

Purpose Starts a subutility to add a distribution list entry to the mail database.

Format

```
UPDATE_DISTRIBUTION_LIST or
UPDDL
    GLOBAL_KEY=name
    TITLE=string or name
    USER=name
    FAMILY=name
    STATUS=status variable
```

Parameters

GLOBAL_KEY or GK

An identifier for the distribution list that is unique within the private domain.

TITLE or T

The message transfer agent (MTA) name assigned to the instance of Mail/VE where this distribution list is defined.

USER or USER_NAME or UN or U

The NOS/VE user name of the distribution list owner.

FAMILY or F

The NOS/VE family name of the distribution list owner.

UPDATE_MAILBOX
MANMD Subcommand

Purpose Starts a subutility to add a mailbox entry to the mail database.

Format

UPDATE_MAILBOX or
UPDM
GLOBAL_KEY=name
TITLE=string or **name**
USER=name
FAMILY=name
STATUS=status variable

Parameters

GLOBAL_KEY or **GK**

An identifier for the mailbox that is unique within the private domain.

TITLE or **T**

The message transfer agent (MTA) name assigned to the instance of Mail/VE where this mailbox is defined.

USER or **USER_NAME** or **UN** or **U**

The NOS/VE user name of the mailbox owner.

FAMILY or **F**

The NOS/VE family name of the mailbox owner.

UPDATE_ORGANIZATION MANMD Subcommand

Purpose Creates an organization entry in the Mail/VE address directory.

Format

UPDATE_ORGANIZATION or
UPDO
TITLE=string
ORGANIZATION_UNITS=list of string
ORGANIZATION_NAME=string
STATUS=status variable

Parameters

TITLE or **T**

The network title to assign to the destination mail service of an existing route. This assignment associates an organization with a mail service to facilitate intra-domain routing.

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 units. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names is significant; address lookup procedures determine a match based on the order.

ORGANIZATION_NAME or *ON*

The name of the organization. Specify the name as a 1- to 64-character string.

Remarks

- You must specify a value for the ORGANIZATION_UNIT or ORGANIZATION_NAME parameter or you will receive an error message.
- UPDATE_ORGANIZATION subcommands must precede any other update subcommands during a restore procedure.

UPDATE_ROUTE
MANMD Subcommand

Purpose Creates a route entry in the Mail/VE directory.

Format

UPDATE_ROUTE or
UPDR
TITLE=string
COUNTRY=string
ADMINISTRATIVE_DOMAIN=string
PRIVATE_DOMAIN=string
TRANSFER_SERVICE=key or string
DESTINATION_TYPE=key or string
STATUS=status variable

Parameters

TITLE or **T**

The network title assigned to the destination mail service.

COUNTRY or *C*

For X.400 transfer only. The country of the destination mail service.

ADMINISTRATIVE_DOMAIN or *AD*

For X.400 transfer only. The administrative domain of the destination mail service.

PRIVATE_DOMAIN or *PD*

For X.400 transfer only. The private domain of the destination mail service.

TRANSFER_SERVICE or *TS*

The transfer service used to route mail to the destination mail service. Enter one of the following keywords or a string value. The default is the keyword QTF.

MVE

The transfer service is Mail/VE. That is, this is a host-resident transfer.

QTF

The transfer service is the Queue File Transfer Facility (QTF), which transfers mail from one Mail/VE system to another Mail/VE system.

DESTINATION_TYPE or *DT*

The type of the destination mail service. Enter the keyword MVE or a string value. The default is the keyword MVE.

MVE

The destination mail service is a Mail/VE system.

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ADMINISTER_MAIL Utility 4

This chapter describes how to use the ADMINISTER_MAIL utility and provides reference information for utility subcommands and functions.

Starting the Utility

To access the ADMINISTER_MAIL utility, your MAILVE_ADMINISTRATION validation level must be set to ANALYST, SYSTEM, or FAMILY.

To start the utility, enter:

```
/administer_mail
```

The system displays the following prompt:

```
admm/
```

When the admm/ prompt is displayed, the ADMINISTER_MAIL subcommands and functions are available for use.

Stopping the Utility

To stop the utility, enter:

```
admm/end_administer_mail
/
```

Setting Utility Defaults

The ADMINISTER_MAIL utility maintains default values for FAMILY and USER. When you start the utility, the utility sets the default value for FAMILY to the value you specified during login. The utility sets the default value for USER to a null name.

When you execute a utility subcommand that provides optional FAMILY and USER parameters, the default for the FAMILY parameter is the current utility default for FAMILY; the default for USER is the current utility default for USER.

You implicitly change the default values for FAMILY and USER whenever you specify values for FAMILY and USER parameters on utility subcommands. You can explicitly set the values of FAMILY and USER by using the SELECT_USER subcommand.

You can determine the current default for FAMILY and USER by using two ADMINISTER_MAIL functions:

$ADMINISTERED_FAMILY

$ADMINISTERED_USER

For example, to display the current default value, enter:

```
/display_value $administered_family
```

ADMINISTER_MAIL Utility Subcommands

The following section describes the ADMINISTER_MAIL utility command, subcommands, and functions.

ADMINISTER_MAIL

Purpose Starts the ADMINISTER_MAIL utility.

Format

ADMINISTER_MAIL or
ADMM
OUTPUT=file
ERRORS=file
STATUS=status variable

Parameters

OUTPUT or *O*

The file to which output is written. The default is file $OUTPUT.

ERRORS or *E*

The file to which error messages are written. The default is file $ERRORS.

Remarks

- The ADMINISTER_MAIL utility can be used only by users whose MAILVE_ADMINISTRATION validation level is set to ANALYST, SYSTEM, or FAMILY.
- At utility startup, the system sets the default value for FAMILY to the value you specified during login; the system sets the default for USER to a null name.

CHANGE_MAILBOX
ADMM Subcommand

Purpose Starts the CHANGE_MAILBOX subutility to change the attributes of a mailbox.

Format

CHANGE_MAILBOX or
CHAM
PERSONAL_NAME=string or **record**
ORGANIZATION_UNITS=list of string
ORGANIZATION_NAME=string
STATUS=status variable

Parameters

PERSONAL_NAME or **PN**

The name of the mailbox to change. Specify the name as a 1- to 64-character string or a record of the following format:

```
record
  surname: string 1..40
  given name: string 0..16
  initials: string 0..5
  generation qualifier: string 0..3
recend
```

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 units associated with the mailbox. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names is significant; address lookup procedures determine a match based on the order.

ORGANIZATION_NAME or *ON*

The name of the organization associated with the mailbox. Specify the name as a 1- to 64-character string.

Remarks

- Users can change only mailboxes for which they are the administrator.
- For information on the subcommands of the CHANGE_MAILBOX subutility, refer to the Mailbox Management Commands later in this chapter.

CREATE_MAILBOX ADMM Subcommand

Purpose Starts the CREATE_MAILBOX subutility to create a mailbox.

Format

CREATE_MAILBOX or
CREM
USER=name
FAMILY=name
STATUS=status variable

Parameters

USER or *USER_NAME* or *UN* or *U*

The NOS/VE user name for whom the mailbox is created. The default is the value returned by $ADMINISTERED_USER.

FAMILY or *F*

The name of the NOS/VE family to which the user belongs. The default is the value returned by $ADMINISTERED_FAMILY.

Remarks The MAILVE_ADMINSTRATION validation determines who can create mailboxes:

- A user whose MAILVE_ADMINISTRATION validation level is set to SYSTEM or ANALYST can create mailboxes for users of any family on the system.
- A user whose MAILVE_ADMINISTRATION validation level is set to FAMILY can create mailboxes only for users of their family.
- For information on the subcommands of the CREATE_MAILBOX subutility, refer to the Mailbox Management Commands later in this chapter.

CREATE_ORGANIZATION ADMM Subcommand

Purpose Creates an organization entry in the Mail/VE address directory and associates a message transfer agent (MTA) name with the organization.

Format

CREATE_ORGANIZATION or
CREO
ORGANIZATION_UNITS=list of string
ORGANIZATION_NAME=string
TITLE=string
STATUS=status variable

Parameters

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 organization units. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names is significant; address lookup procedures determine a match based on the order.

ORGANIZATION_NAME or *ON*

The name of the organization. Specify the name as a 1- to 64-character string.

TITLE or *T*

The network title of a destination mail service to associate with the organization to facilitate intradomain routing. The default is the value returned by $MAILVE_INSTALLATION(MESSAGE_TRANSFER_AGENT).

Remarks Each organization can be associated with only one MTA name.

CREATE_ROUTE ADMM Subcommand

Purpose Creates a route entry in the Mail/VE directory.

Format

CREATE_ROUTE or
CREAR
TITLE=string
COUNTRY=string
ADMINISTRATIVE_DOMAIN=string
PRIVATE_DOMAIN=string
TRANSFER_SERVICE=key or *string*
DESTINATION_TYPE=key or *string*
STATUS=status variable

Parameters

TITLE or **T**

The network title assigned to the destination mail service.

COUNTRY or *C*

For X.400 transfer only. The country of the destination mail service.

ADMINISTRATIVE_DOMAIN or *AD*

For X.400 transfer only. The administrative domain of the destination mail service.

PRIVATE_DOMAIN or *PD*

For X.400 transfer only. The private domain of the destination mail service.

TRANSFER_SERVICE or *TS*

The transfer service used to route mail to the destination mail service. Enter one of the following keywords or a string value. The default is the keyword QTF.

MVE

The transfer service is Mail/VE. That is, this is a host-resident transfer.

QTF

The transfer service is the Queue File Transfer Facility (QTF), which transfers mail from one Mail/VE system to another Mail/VE system.

DESTINATION_TYPE or *DT*

The type of the destination mail service. Enter the keyword MVE or a string value. The default is the keyword MVE.

MVE

The destination mail service is a Mail/VE system.

Remarks The CREATE_ROUTE subcommand can be used only by users whose MAILVE_ADMINISTRATION validation level is set to ANALYST.

DELETE_MAILBOX ADMM Subcommand

Purpose Deletes a mailbox and the contents of the mailbox.

Format

DELETE_MAILBOX or
DELM
PERSONAL_NAME=string or **record**
ORGANIZATION_UNITS=list of string
ORGANIZATION_NAMES=list of string
STATUS=status variable

Parameters

PERSONAL_NAME or **PN**

The name of the mailbox to delete. Specify the name as a 1- to 64-character string or a record of the following format:

```
record
  surname: string 1..40
  given name: string 0..16
  initials: string 0..5
  generation qualifier: string 0..3
recend
```

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 units associated with the mailbox. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names is significant; address lookup procedures determine a match based on the order.

ORGANIZATION_NAME or *ON*

The name of the organization associated with the mailbox. Specify the name as a 1- to 64-character string.

Remarks Users can delete only mailboxes for which they are the administrator.

DELETE_ORGANIZATION ADMM Subcommand

Purpose Deletes an organization entry from the Mail/VE directory.

Format

DELETE_ORGANIZATION or
DELO
ORGANIZATION_UNIT=list of string
ORGANIZATION_NAME=string
STATUS=status variable

Parameters

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 units. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names must be the same order you specified when you created the organization.

ORGANIZATION_NAME or *ON*

The name of the organization to delete. Specify the name as a 1- to 64-character string.

Remarks Although all parameters for this subcommand are optional, you must specify a value for either the organization units or the organization name parameter to identify the organization entry you want to delete.

DELETE_ROUTE
ADMM Subcommand

Purpose Deletes a route entry from the Mail/VE directory.

Format

DELETE_ROUTE or
DELR
TITLE=string
COUNTRY=string
ADMINISTRATIVE_DOMAIN=string
PRIVATE_DOMAIN=string
STATUS=status variable

Parameters

TITLE or **T**

The network title assigned to the destination mail service.

COUNTRY or *C*

For X.400 transfer only. The country of the destination mail service.

ADMINISTRATIVE_DOMAIN or *AD*

For X.400 transfer only. The administrative domain of the destination mail service.

PRIVATE_DOMAIN or *PD*

For X.400 transfer only. The private domain of the destination mail service.

Remarks The DELETE_ROUTE subcommand can be used only by users whose MAILVE_ADMINISTRATION validation level is set to ANALYST.

DELETE_USER
ADMM Subcommand

Purpose Deletes one or more user entries from the Mail/VE directory. When a user is deleted, all the user's mailboxes, distribution lists, and letters are also deleted. Also, if the MAILVE_ADMINISTRATION level of the user is set to NONE, the user can no longer access Mail/VE.

Format

DELETE_USER or
DELU
USER=list of name
FAMILY=name
STATUS=status variable

Parameters

USER or **U**

The NOS/VE user name(s) to delete from the Mail/VE directory.

FAMILY or **F**

The name of the NOS/VE family to which the user or users belong.

Remarks Only users whose MAILVE_ADMINISTRATION validation level is set to SYSTEM, ANALYST, or FAMILY can delete users from the Mail/VE system.

DISPLAY_MAILBOXES
ADMM Subcommand

Purpose Displays information about one or more mailboxes.

Format

DISPLAY_MAILBOXES or
DISPLAY_MAILBOX or
DISM
PERSONAL_NAME=keyword or *string* or *record*
ORGANIZATION_UNITS=list of string
ORGANIZATION_NAME=string
USER=name
FAMILY=name
DISPLAY_OPTIONS=keyword
OUTPUT=file
STATUS=status variable

Parameters

PERSONAL_NAME or PN

The name of the mailbox to display. Specify the name as a 1- to 64-character string or a record of the following format:

```
record
  surname: string 1..40
  given name: string 0..16
  initials: string 0..5
  generation qualifier: string 0..3
recend
```

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 units associated with the mailbox. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names is significant; address lookup procedures determine a match based on the order.

ORGANIZATION_NAME or *ON*

The name of the organization associated with the mailbox. Specify the name as a 1- to 64-character string.

USER or *U*

The NOS/VE user name of the user whose mailboxes you want to display. The default is the value returned by $ADMINISTERED_USER.

FAMILY or *F*

The name of the NOS/VE family to which the user belongs. The default is the value returned by ADMINISTERED_FAMILY.

DISPLAY_OPTIONS or *DISPLAY_OPTION* or *DO*

The amount of information to display. Specify one of the following keywords. The default is the keyword BRIEF.

BRIEF or B

Display only local address attributes.

FULL or F

Display all mailbox attributes.

PERMITS or PERMIT or P

Display the type of permit only. For group mailboxes, display the list of mailboxes with read or write privilege.

OUTPUT or *O*

The file to which output is written. The default is the output file specified on the ADMINISTER_MAIL command. If no output file was specified on the ADMINISTER_MAIL command, the default is file $OUTPUT.

DISPLAY_ORGANIZATION ADMM Subcommand

Purpose Displays one or more organizations registered in the Mail/VE address directory.

Format

DISPLAY_ORGANIZATIONS or
DISPLAY_ORGANIZATION or
DISO
ORGANIZATION_UNITS=list of string
ORGANIZATION_NAME=string
DISPLAY_OPTIONS=keyword
FORMAT=keyword
OUTPUT=file
STATUS=status variable

Parameters

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 units to display. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names is significant; address lookup procedures determine a match based on the order.

ORGANIZATION_NAME or *ON*

The name of the organization to display. Specify the name as a 1- to 64-character string.

DISPLAY_OPTIONS or *DISPLAY_OPTION* or *DO*

The information to display. Specify one of the following keywords. The default is the keyword LOCAL.

ALL or A

Display all organizations registered in the directory.

LOCAL or L

Display only organizations that reside on this host.

NON_LOCAL or NL

Display only organizations that reside on remote hosts.

FORMAT or *F*

The format for the display. Specify one of the following keywords. The default is the keyword DEFINITION.

DEFINITION or D

Display the organization information in a labelled format.

SOURCE

Display the organization information as a list of CREATE_ORGANIZATION subcommands.

OUTPUT or *O*

The file to which output is written. The default is the output file specified on the ADMINISTER_MAIL command. If no output file was specified on the ADMINISTER_MAIL command, the default is file $OUTPUT.

DISPLAY_ROUTE
ADMM Subcommand

Purpose Display the contents of the route directory.

Format

DISPLAY_ROUTES or
DISPLAY_ROUTE or
DISR
TITLE=list of string
COUNTRY=string
ADMINISTRATIVE_DOMAIN=string
PRIVATE_DOMAIN=string
FORMAT=keyword
OUTPUT=file
STATUS=status variable

Parameters

TITLE or *T*

The network title or titles of route entries to display.

COUNTRY or *C*

The country of route entries to display.

ADMINISTRATIVE_DOMAIN or *AD*

The administrative domain of the route entries to display.

PRIVATE_DOMAIN or *PD*

The private domain of the route entries to display.

FORMAT or *F*

The format for the display. Specify one of the following keywords. The default is the keyword DEFINITION.

DEFINITION or D

Display the route information in a labelled format.

SOURCE

Display the route information as a list of CREATE_ROUTE subcommands.

OUTPUT or *O*

The file to which output is written. The default is the output file specified on the ADMINISTER_MAIL command. If no output file was specified on the ADMINISTER_MAIL command, the default is file $OUTPUT.

DISPLAY_USERS
ADMM Subcommand

Purpose Display the contents of the user directory.

Format

DISPLAY_USERS or
DISPLAY_USER or
DISU
USERS=keyword or *list of name*
FAMILY=name
DISPLAY_OPTIONS=keyword
OUTPUT=file
STATUS=status variable

Parameters

USERS or *USER* or *USER_NAMES* or *UN* or *U*

The NOS/VE user names for which information is displayed. Specify a list of names or the keyword ALL to display information on all users. The default is the keyword ALL.

FAMILY or *F*

The name of the NOS/VE family to which the users belong. The default is the value returned by $ADMINISTERED_FAMILY.

DISPLAY_OPTIONS or *DISPLAY_OPTION* or *DO*

The information to display. Specify one of the following keywords. The default is the keyword NAME.

ALL or A

Display all information about the specified Mail/VE user.

DEFAULT_MAILBOX or DM

Display the default mailbox of the specified user.

NAME or N

Display the the user and family names of the specified users.

OWNED_ENTITIES or OE

Display the mailboxes and distribution lists owned by the specified user.

STATISTICS or S

Display the mail usage statistics for the specified user.

OUTPUT or *O*

The file to which output is written. The default is the output file specified on the ADMINISTER_MAIL command. If no output file was specified on the ADMINISTER_MAIL command, the default is file $OUTPUT.

LOOKUP_ADDRESS
ADMM Subcommand

Purpose Displays information about one or more addresses that meet the search criteria specified by the address parameters (PN, OU, and ON).

Format **LOOKUP_ADDRESS** or
LOOA
PERSONAL_NAME=string or *record*
ORGANIZATION_UNIT=list of string
ORGANIZATION_NAME=string
ADDRESS_OPTIONS=key or *list of key*
DISPLAY_OPTIONS=key or *list of string*
OUTPUT=file
STATUS=status variable

Parameters **PERSONAL_NAME** or **PN**

The name of the mailbox or distribution list. Specify the name as a 1- to 64-character string or a record of the following format:

```
record
  surname: string 1..40
  given name: string 0..16
  initials: string 0..5
  generation qualifier: string 0..3
recend
```

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 units associated with the mailbox or distribution list. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names is significant; address lookup procedures determine a match based on the order.

ORGANIZATION_NAME or *ON*

The name of the organization associated with the mailbox or distribution list. Specify the name as a 1- to 64-character string.

ADDRESS_OPTIONS or *ADDRESS_OPTION* or *AO*

A list of one or more keywords to control the search operation. The default is the keyword ALL.

ALL

Display all types of addresses: group, public, and private mailboxes and distribution lists.

DISTRIBUTION_LIST

Display only distribution lists.

GROUP

Display only group mailboxes and distribution lists.

MAILBOX

Display only mailboxes.

PRIVATE

Display only private mailboxes and distribution lists.

PUBLIC

Display only public mailboxes and distribution lists.

DISPLAY_OPTIONS or *DISPLAY_OPTION* or *DO*

The amount of information to display. Specify one or more of the following keywords. The default is the keyword PERSONAL_NAME.

ALIAS_NAME or AN

Display the alias name or names of the mailbox or distribution list, if any, for each address.

ALL or A

Display all information about the address.

DESCRIPTION or D

Display the description, if any, for each address.

ORGANIZATION_NAME or ON

Display the organization name, if any, for each address.

ORGANIZATION_UNITS or ORGANIZATION_UNIT or OU

Display the organization units, if any, for each address.

PERSONAL_NAME or PN

Display the primary mailbox or distribution list name for each address.

TELEPHONE_NUMBER or TN

Display the telephone number, if any, for each address.

OUTPUT or *O*

The file to which output is written. The default is the output file specified on the ADMINISTER_MAIL command. If no output file was specified on the ADMINISTER_MAIL command, the default is file $OUTPUT.

END_ADMINISTER_MAIL
ADMM Subcommand

Purpose Stops an ADMINISTER_MAIL utility session.

Format

END_ADMINISTER_MAIL or
ENDAM or
ENDA or
QUIT or
QUI
STATUS=status variable

SELECT_USER
ADMM Subcommand

Purpose Change the values returned by the $ADMINISTERED_FAMILY and $ADMINISTERED_USER functions.

Format

SELECT_USER or
SELU
USER=name
FAMILY=name
STATUS=status variable

Parameters

USER or **U**

The NOS/VE user name to assign to $ADMINISTERED_USER.

FAMILY or *F*

The NOS/VE family name to assign to $ADMINISTERED_FAMILY.

Remarks Only users whose MAILVE_ADMINISTRATION validation level is set to SYSTEM, ANALYST, or FAMILY can assign a value to $ADMINISTERED_FAMILY. Users whose MAILVE_ADMINISTRATION level is set to FAMILY can assign only the name of their family on the FAMILY parameter.

$ADMINISTERED_FAMILY
ADMM Function

Purpose Returns the current ADMM utility default for FAMILY.

Format **$ADMINISTERED_FAMILY**

$ADMINISTERED_USER
ADMM Function

Purpose Returns the current ADMM utility default for USER.

Format **$ADMINISTERED_USER**

$MAILVE_INSTALLATION
ADMM Function

Purpose Returns the values assigned to Mail/VE during installation.

Format **$MAILVE_INSTALLATION**
(NAME: list of keyword)

Parameters **NAME**

The Mail/VE installation information to retrieve. Specify one or more of the following keywords:

COUNTRY or C

Returns the name of the country assigned to this installation of Mail/VE.

ADMINISTRATIVE_DOMAIN or AD

Returns the name of the administrative domain assigned to this installation of Mail/VE.

PRIVATE_DOMAIN or PD

Returns the name of the private domain assigned to this installation of Mail/VE.

MESSAGE_TRANSFER_AGENT or MTA

Returns the message transfer agent (MTA) name assigned to this installation of Mail/VE.

DATABASE_CATALOG or DC

Returns the database catalog path name assigned to this installation of Mail/VE.

Remarks If no value was assigned during installation, the system returns a null string.

Mailbox Management Commands

This section provides reference information for the common subcommands of the CREATE_MAILBOX and CHANGE_MAILBOX subutilities:

DISPLAY_ATTRIBUTES or DISA

SET_ATTRIBUTES or SETA

To stop a CREATE_MAILBOX subutility session, use the END_CREATE_MAILBOX subcommand; to stop a CHANGE_MAILBOX subutility session, use the END_CHANGE_MAILBOX subcommand.

DISPLAY_ATTRIBUTES
CHAM and CREM Subcommand

Purpose Displays the attributes of a mailbox.

Format

DISPLAY_ATTRIBUTES or
DISPLAY_ATTRIBUTE or
DISA
OUTPUT=file
STATUS=status variable

Parameters

OUTPUT or *O*

The file to which output is written. The default is the output file specified on the ADMINISTER_MAIL command. If no output file was specified on the ADMINISTER_MAIL command, the default is file $OUTPUT.

END_CHANGE_MAILBOX
CHAM Subcommand

Purpose Stops a CHANGE_MAILBOX subutility session.

Format

END_CHANGE_MAILBOX or
ENDCM or
END or
QUIT or
QUI
SAVE=boolean
STATUS=status variable

Parameters

SAVE or *S*

Specifies whether the changes made during this subutility session are saved or discarded. The default is TRUE.

FALSE

Changes made during this subutility session are discarded.

TRUE

Changes made during this subutility session are saved.

END_CREATE_MAILBOX CREM Subcommand

Purpose Stops a CREATE_MAILBOX subutility session.

Format

END_CREATE_MAILBOX or
ENDCM or
END or
QUIT or
QUI
SAVE=boolean
STATUS=status variable

Parameters *SAVE* or *S*

Specifies whether the mailbox created during this subutility session is saved or discarded. The default is TRUE.

FALSE

The mailbox created during this subutility session is discarded.

TRUE

The mailbox created during this subutility session is saved.

SET_ATTRIBUTES
CHAM and CREM Subcommand

Purpose Defines or changes mailbox attributes.

Format

SET_ATTRIBUTES or
SET_ATTRIBUTE or
SETA
PERSONAL_NAME=list of keyword or *string* or *record*
ORGANIZATION_UNITS=list of keyword or *string*
ORGANIZATION_NAME=list of string
DESCRIPTION=string
TELEPHONE_NUMBER=string
RETENTION_PERIOD=keyword or *integer*
PERMIT_TYPE=keyword
STATUS=status variable

Parameters

PERSONAL_NAME or *PN*

A list of 3 strings to name the mailbox. The first element of the list is always used in displays. The second and third elements are aliases.

Each element can be the keyword NO_CHANGE or a 1- to 256-character string or a record of the following format:

```
record
  surname: string 1..40
  given name: string 0..16
  initials: string 0..5
  generation qualifier: string 0..3
recend
```

ORGANIZATION_UNITS or *ORGANIZATION_UNIT* or *OU*

The list of names of from 1 to 4 units associated with the mailbox. Specify each unit as a 1- to 32-character string. The order in which you specify the unit names is significant; address lookup procedures determine a match based on the order.

ORGANIZATION_NAME or *ON*

The name of the organization associated with the mailbox. Specify the name as a 1- to 64-character string.

DESCRIPTION or *D*

The telephone number of the mailbox owner.

RETENTION_PERIOD or *RP*

The number of days a letter is retained in the mailbox after it has been seen. Specify the keyword MAXIMUM or an integer value for the number of days to retain letters. The default is the value set by the MAILVE_RETENTION_LIMIT validation.

PERMIT_TYPES or *PERMIT_TYPE* or *PT*

The type of mailbox permission. Specify one of the following keywords. The default for new mailboxes is PRIVATE; the default for existing mailboxes is no change.

PRIVATE or PR

Only the owner of the mailbox can read or send mail using the mailbox.

PUBLIC or PU

Any user can use the mailbox to read or send mail.

GROUP or G

A group of defined mailboxes can read or send mail using the mailbox. To add or delete mailboxes from the group, use the EMAIL ADD_PERMISSION and DELETE_PERMISSION subcommands.

Glossary A

Glossary A

A

Address

Defines the location of a mailbox or distribution list in a mail system. An address is composed of attributes that define a unique entry in the mail directory.

Address Attributes

Components of an address. There are global and local address attributes.

- Global attributes allow mail system users anywhere in the world to communicate. The global attributes are Administrative Management Domain, Private Management Domain, and Country in which the user's mail system resides.
- Local attributes associate the address with a particular mail system. They are the Personal Name, Organization Name, and Organization Unit(s) associated with the mailbox or distribution list.

Autoforwarding

Feature that allows mail to be forwarded from one mailbox to another automatically. Users specify autoforwarding information when creating or changing a mailbox definition.

B

Blind Courtesy Copy Address List

Can only be displayed by a member of the list. Users have the option of setting up a blind courtesy copy address list when they compose a letter.

C

Courtesy Copy Address List

Users have the option of setting up a courtesy copy address list when they compose a letter.

D

Default Mailbox

Mailbox initially used as the user's identity for checking and reading mail. Users can change the default mailbox to any mailbox they own anytime during a mail session.

Directory

List of all mailbox and distribution list addresses registered with a mail system.

Distribution List

Named recipient list that is addressable. A distribution list can contain both mailbox and other distribution list addresses. It cannot contain its own address. Distribution lists can be group, public, or private.

G

Global Address

Address that contains attributes that allow users on different mail systems anywhere in the world to communicate.

The global address attributes specify the Administrative and Private Management Domain and Country where the mail system resides. Addresses identify mailboxes or distribution lists.

I

Identity

User's identity is the default mailbox unless changed by the user. The identity mailbox is used:

- As the From address for sending letters.
- To determine which mailboxes the user can read from, which mailboxes can be delivered mail, and which distribution lists can be used.

L

Letter

Message generated by a mail system user. The letter contains a header and a body. The address on the letter directs the letter through the mail system.

The letter header contains origination and delivery information and the subject of the letter.

The letter body is the content of the letter. The letter body can include ASCII text or nontext characters, such as binary code and/or graphics.

Local Address

Associates a mailbox or distribution list with a particular mail system. The local address attributes are the Personal Name of the mailbox or distribution list, and the Organization Name and Organization Unit(s) associated with the address.

M

Mailbox

Used to send and receive mail. Mailboxes can be private, group, or public.

N

Notice

Message generated by the mail system specifying whether or not a letter has been delivered to the address. The letter sender must request a delivery notice when composing a letter. Nondelivery notices are generated unless the sender specifies otherwise.

O

Owner

Mail/VE user who creates a mailbox or distribution list. Only the owner can delete or alter a mailbox or distribution list even though others may be permitted to use them.

R

Receipt

Message generated by the mail system to indicate whether or not the user displays a letter. The letter sender must request a receipt when composing a letter.

Recipient

Mailbox or distribution list address to which a letter is sent.

Retention Period

Integer between 1 and 365 specifying the number of days letters sent to a mailbox are kept before the system deletes them. Users can specify the retention period when they create or change the mailbox definition.

W

Wildcard Character

Character used in lookup procedures to represent omitted parts of an address. The asterisk (*) is recognized as the wildcard character in Mail/VE. It matches from 0 to 256 other characters.

For example, entering

```
lookup_address '* Hanson' ..
.. address_options=(mailboxes)
```

lists all mailbox addresses with HANSON as the surname component of the mailbox name.

Related Manuals B

This appendix lists the manuals which describe NOS/VE. Also included is information for ordering printed manuals and the way to access online manuals.

Ordering Printed Manuals B-1

Accessing Online Manuals B-1

Table B-1. Related Manuals B-2
NOS/VE Site Manuals B-2
NOS/VE User Manuals B-3
CYBIL Manuals B-5
FORTRAN Manuals B-6
COBOL Manuals B-6
Other Compiler Manuals B-7
VX/VE Manuals B-8
Data Management Manuals B-10
Information Management Manuals B-10
CDCNET Manuals B-11
Migration Manuals B-13
Miscellaneous Manuals B-13
Hardware Manuals B-15

Related Manuals B

All NOS/VE manuals and related hardware manuals are listed in table B-1. If your site has installed the online manuals, you can find an abstract for each NOS/VE manual in the online System Information manual. To access this manual, enter:

```
/help manual=nos_ve
```

Ordering Printed Manuals

To order a printed Control Data manual, send an order form to:

Control Data
Literature and Distribution Services
308 North Dale Street
St. Paul, Minnesota 55103-2495

To obtain an order form or to get more information about ordering Control Data manuals, write to the above address or call (612) 292-2101. If you are a Control Data employee, call (612) 292-2100.

Accessing Online Manuals

To access the online version of a printed manual, log in to NOS/VE and enter the online title on the HELP command (table B-1 supplies the online titles). For example, to see the NOS/VE Commands and Functions manual, enter:

```
/help manual=scl
```

or, because SCL is the default for the MANUAL parameter, simply enter

```
/help
```

An online Examples manual contains examples that reside in printed manuals. From within the online Examples manual, you can copy, print, and execute the examples it contains. To access this manual, enter:

```
/help manual=examples
```

When EXAMPLES is listed in the Online Manuals column in table B-1, that manual is represented in the online Examples manual.

Table B-1. Related Manuals

Manual Title	Publication Number	Online Manuals[1]
NOS/VE Site Manuals:		
CYBER 930 Computer System Guide to Operations Usage	60469560	
CYBER Initialization Package (CIP) Reference Manual	60457180	
Desktop/VE Host Utilities Usage	60463918	
MAINTAIN_MAIL (Version 1) [2] Usage		MAIM
NOS/VE Accounting Analysis System Usage	60463923	
NOS/VE Accounting and Validation Utilities for Dual State Usage	60458910	
NOS/VE File Server for STORNET and ESM-II Usage	60000190	
NOS/VE LCN Configuration and Network Management Usage	60463917	

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

2. To access this manual, you must be the administrator for Mail/VE Version 1.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
Site Manuals (Continued):		
NOS/VE Network Management Usage	60463916	
NOS/VE Operations Usage	60463914	
NOS/VE System Performance and Maintenance Volume 1: Performance Usage	60463915	
NOS/VE System Performance and Maintenance Volume 2: Maintenance Usage	60463925	
NOS/VE User Validation Usage	60464513	
NOS/VE User Manuals:		
EDIT_CATALOG Usage		EDIT_ CATALOG
EDIT_CATALOG for NOS/VE Summary	60487719	
Introduction to NOS/VE Tutorial	60464012	EXAMPLES
NOS/VE Advanced File Management Tutorial	60486412	AFM_T

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
NOS/VE User Manuals (Continued):		
NOS/VE Advanced File Management Usage	60486413	AFM
NOS/VE Advanced File Management Summary	60486419	
NOS/VE Commands and Functions Quick Reference	60464018	SCL
NOS/VE File Editor Tutorial/Usage	60464015	EXAMPLES
NOS/VE Object Code Management Usage	60464413	OCM and EXAMPLES
NOS/VE Screen Formatting Usage	60488813	EXAMPLES
NOS/VE Source Code Management Usage	60464313	SCM and EXAMPLES
NOS/VE System Usage	60464014	EXAMPLES
NOS/VE Terminal Definition Usage	60464016	
Screen Design Facility for NOS/VE Usage	60488613	SDF

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
NOS/VE User Manuals (Continued):		
Screen Design Facility/Data Management Usage	60488618	
CYBIL Manuals:		
CYBIL for NOS/VE File Management Usage	60464114	EXAMPLES
CYBIL for NOS/VE Keyed-File and Sort/Merge Interfaces Usage	60464117	EXAMPLES
CYBIL for NOS/VE Language Definition Usage	60464113	CYBIL and EXAMPLES
CYBIL for NOS/VE Sequential and Byte-Addressable Files Usage	60464116	EXAMPLES
CYBIL for NOS/VE System Interface Usage	60464115	EXAMPLES

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
FORTRAN Manuals:		
FORTRAN Version 1 for NOS/VE Language Definition Usage	60485913	EXAMPLES
FORTRAN Version 1 for NOS/VE Quick Reference		FORTRAN
FORTRAN Version 2 for NOS/VE Language Definition Usage	60487113	EXAMPLES
FORTRAN Version 2 for NOS/VE Quick Reference		VFORTRAN
FORTRAN for NOS/VE Tutorial	60485912	FORTRAN_T
FORTRAN for NOS/VE Topics for FORTRAN Programmers Usage	60485916	
FORTRAN for NOS/VE Summary	60485919	
COBOL Manuals:		
COBOL for NOS/VE Summary	60486019	

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
COBOL Manuals (Continued):		
COBOL for NOS/VE Tutorial	60486012	COBOL_T
COBOL for NOS/VE Usage	60486013	COBOL and EXAMPLES
Other Compiler Manuals:		
ADA for NOS/VE Usage	60498113	ADA
ADA for NOS/VE Reference Manual	60498118	EXAMPLES
APL for NOS/VE File Utilities Usage	60485814	
APL for NOS/VE Language Definition Usage	60485813	
BASIC for NOS/VE Summary Card	60486319	
BASIC for NOS/VE Usage	60486313	BASIC
LISP for NOS/VE Usage Supplement	60486213	
Pascal for NOS/VE Summary Card	60485619	

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
Other Compiler Manuals (Continued):		
Pascal for NOS/VE Usage	60485618	PASCAL and EXAMPLES
Prolog for NOS/VE Quick Reference	60486718	PROLOG
Prolog for NOS/VE Usage	60486713	
VX/VE Manuals:		
C/VE for NOS/VE Quick Reference		C
C/VE for NOS/VE Usage	60469830	
DWB/VX Introduction and User Reference Tutorial/Usage	60469890	
DWB/VX Macro Packages Guide Usage	60469910	
DWB/VX Preprocessors Guide Usage	60469920	
DWB/VX Text Formatters Guide Usage	60469900	

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
VX/VE Manuals (Continued):		
VX/VE Administrator Guide and Reference Tutorial/Usage	60469770	
VX/VE An Introduction for UNIX Users Tutorial/Usage	60469980	
VX/VE Programmer Guide Tutorial	60469790	
VX/VE Programmer Reference Usage	60469820	
VX/VE Support Tools Guide Tutorial	60469800	
VX/VE User Guide Tutorial	60469780	
VX/VE User Reference Usage	60469810	

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
Data Management Manuals:		
DM Command Procedures Reference Manual	60487905	
DM Concepts and Facilities Manual	60487900	
DM Error Message Summary for DM on CDC NOS/VE	60487906	
DM Fundamental Query and Manipulation Manual	60487903	
DM Report Writer Reference Manual	60487904	
DM System Administrator's Reference Manual for DM on CDC NOS/VE	60487902	
DM Utilities Reference Manual for DM on CDC NOS/VE	60487901	
Information Management Manuals:		
IM/Control for NOS/VE Quick Reference	L60488918	CONTROL
IM/Control for NOS/VE Usage	60488913	
IM/Fast for NOS/VE Administration Usage	60487513	

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
Information Management Manuals (Continued):		
IM/Fast for NOS/VE Programming Usage	60487514	
IM/Quick for NOS/VE Tutorial	60485712	
IM/Quick for NOS/VE Summary	60485714	
IM/Quick for NOS/VE Online Help		QUICK
CDCNET Manuals:		
CDCNET Access Guide		CDCNET_ ACCESS
CDCNET Batch Device User Guide		CDCNET_ BATCH
CDCNET Command Quick Reference	60000020	
CDCNET Conceptual Overview	60461540	
CDCNET Configuration and Site Administration Guide	60461550	
CDCNET DI Dump Analyzer		ANACD
CDCNET Diagnostic Messages	60461600	CDCNET_ MSGS

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
CDCNET Manuals (Continued):		
CDCNET Network Analysis	60461590	
CDCNET Network Configuration Utility		NETCU
CDCNET Network Configuration Utility Summary Card	60000269	
CDCNET Network Operations	60461520	
CDCNET Network Performance Analyzer	60461510	
CDCNET Product Descriptions	60460590	
CDCNET Systems Programmer's Reference Manual Volume 1 Base System Software	60462410	
CDCNET Systems Programmer's Reference Manual Volume 2 Network Management Entities and Layer Interfaces	60462420	
CDCNET Systems Programmer's Reference Manual Volume 3 Network Protocols	60462430	
CDCNET Terminal Interface Usage	60463850	
CDCNET TCP/IP Usage	60000214	

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
Migration Manuals:		
Migration from IBM to NOS/VE Tutorial/Usage	60489507	
Migration from NOS to NOS/VE Tutorial/Usage	60489503	
Migration from NOS to NOS/VE Standalone Tutorial/Usage	60489504	
Migration from NOS/BE to NOS/VE Tutorial/Usage	60489505	
Migration from NOS/BE to NOS/VE Standalone Tutorial/Usage	60489506	
Migration from VAX/VMS to NOS/VE Tutorial/Usage	60489508	
Miscellaneous Manuals:		
Applications Directory	60455370	
Control Data CONNECT User's Guide	60462560	
Control Data CONNECT Plus for the IBM Personal Computer (Version 1.0) User's Guide	60000388	

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
Miscellaneous Manuals (Continued):		
Debug for NOS/VE Quick Reference		DEBUG
Debug for NOS/VE Usage	60488213	
Desktop/VE for Macintosh Usage	60464503	
NOS/VE Diagnostic Messages Usage	60464613	MESSAGES
Mail/VE (Version 1) Summary Card	60464519	
Mail/VE (Version 1) Usage		MAIL_VE
Mail/VE Version 2 Administration	60464515	MAILVE_ ADMINISTRA-TION
Mail/VE Version 2 Usage	60464514	MAILVE_V2
Math Library for NOS/VE Usage	60486513	
NOS/VE Examples Usage		EXAMPLES

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
Miscellaneous Manuals (Continued):		
NOS/VE Online Manuals Systems	60488403	TOPICS_ CONTEXT
NOS/VE System Information		NOS_VE
Programming Environment for NOS/VE Usage		ENVIRON-MENT
Programming Environment for NOS/VE Summary	60486819	
Professional Programming Environment for NOS/VE Quick Reference		PPE
Professional Programming Environment for NOS/VE Usage	60486613	
Remote Host Facility Usage	60460620	
Hardware Manuals:		
CYBER 170 Computer Systems Models 825, 835, and 855 General Description Hardware Reference	60459960	

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

(Continued)

Table B-1. Related Manuals *(Continued)*

Manual Title	Publication Number	Online Manuals[1]
Hardware Manuals (Continued):		
CYBER 170 Computer Systems, Models 815, 825, 835, 845, and 855 CYBER 180 Models 810, 830, 835, 840, 845, 850, 855, and 860 Codes Booklet	60458100	
CYBER 170 Computer Systems, Models 815, 825, 835, 845, and 855 CYBER 180 Models 810, 830, 835, 840, 845, 850, 855, and 860 Maintenance Register Codes Booklet	60458110	
HPA/VE Reference	60461930	
Virtual State Volume II Hardware Reference	60458890	
7021-31/32 Advanced Tape Subsystem Reference	60449600	
7221-1 Intelligent Small Magnetic Tape Subsystem Reference	60461090	

1. This column lists the title of the online version of the manual and indicates whether the examples in the printed manual are in the online Examples manual.

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Comments (continued from other side)

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Arden Hills, MN 55126-9983

We would like your comments on this manual to help us improve it. Please take a few minutes to fill out this form.

Who are you?

- ☐ Manager
- ☐ Systems analyst or programmer
- ☐ Applications programmer
- ☐ Operator
- ☐ Other _____

How do you use this manual?

- ☐ As an overview
- ☐ To learn the product or system
- ☐ For comprehensive reference
- ☐ For quick look-up
- ☐ Other _____

What programming languages do you use? _____

How do you like this manual? Answer the questions that apply.

Yes	Somewhat	No	
☐	☐	☐	Does it tell you what you need to know about the topic?
☐	☐	☐	Is the technical information accurate?
☐	☐	☐	Is it easy to understand?
☐	☐	☐	Is the order of topics logical?
☐	☐	☐	Can you easily find what you want?
☐	☐	☐	Are there enough examples?
☐	☐	☐	Are the examples helpful? (☐ Too simple? ☐ Too complex?)
☐	☐	☐	Do the illustrations help you?
☐	☐	☐	Is the manual easy to read (print size, page layout, and so on)?
☐	☐	☐	Do you use this manual frequently?

Comments? If applicable, note page and paragraph. Use other side if needed.

Check here if you want a reply: ☐

Name _____ Company _____

Address _____ Date _____

_____ Phone _____

Please send program listing and output if applicable to your comment.