NEC

NAME DISPLAY

AN
OPEN APPLICATION INTERFACE (OAI)
INSTALLATION GUIDE

NEC America, Inc.

NDA-30011-003
Revision 3.0
December, 1996
Stock # 241718

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Chapter 1 Introduction

This guide provides specific field entries that need to be made in the process of installing and configuring Name Display. In addition to this guide, use the following manuals for this installation:

Applications Manager (APM) Installation Manual – Contains step-by-step instructions for installing the software from the release media.

Applications Manager (APM) Operations Manual – Explains how applications like Name Display are configured in the APM environment, using the entries and values provided in this guide.

NEAX2400 System Manuals – Give very detailed explanations about the assignments that need to be made through the Maintenance Administration Terminal (MAT) commands on the NEAX2400.

Briefly, the installation and set up of Name Display involves the following sequence of steps:

Software Installation

Name Display software must first be loaded from the release media. Log in to the APM Platform Management Menu, select the Installation of Applications/ Packages option, and follow the instructions provided in the **APM Installation Manual** to complete this part of the installation.

Application Configuration

Name Display is internally supported by the APM and must be configured in the APM environment. Chapter 2 of this guide provides the information that must be entered into this APM configuration file. Use the instructions provided in the **APM Operations Manual** to make the entries provided in this section.

Database Requirements

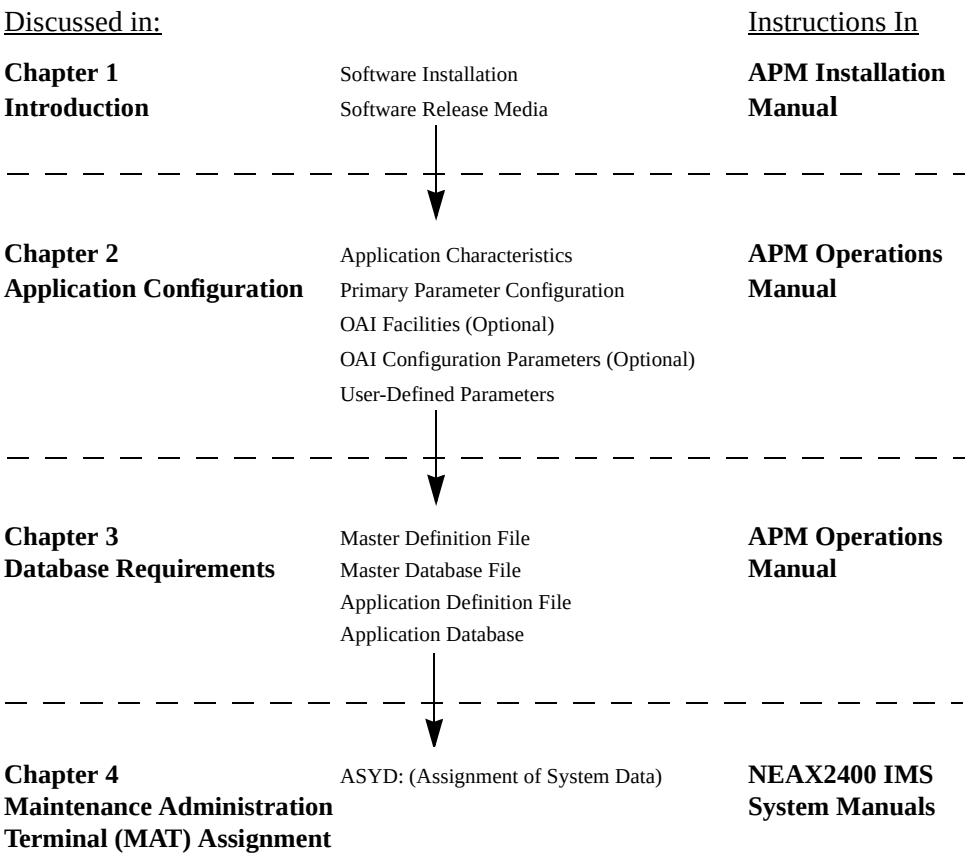
Name Display requires one application database that is constructed and maintained through the APM Database Administration option. The process begins with the creation of a master definition file and its related master database. Then an application definition file is constructed which enables the processing of the master database file into a Name Display application database. Chapter 3 of this guide defines the information which must be included in these definition and database files. Use the instructions provided in the **APM Operations Manual** to make the entries contained in this section.

MAT Assignments

Specific data settings must be assigned at the NEAX2400 Maintenance Administration Terminal (MAT) before Name Display will function. Chapter 4 of this guide specifies the necessary commands and the values at which they are to be set. Use the instructions provided in the **NEAX2400 IMS System Manuals** to make the entries contained in this section.

The installation process, including its presentation in this manual and reference to other manuals that are necessary, is illustrated below.

Figure 1-1 Name Display Installation Requirements



Chapter 2 Application Configuration

Name Display is configured into the APM system using the Add function of the Application Configuration option on the APM System Administration menu. To access the Application Configuration option:

1. Enter the APM option from the APM Platform Management Menu.
2. Enter the System Administrator password at the APM password screen.
3. Enter the Application Configuration option from the System Administration menu.

This section contains the information that should be entered in the configuration file for Name Display. For specific instructions on what these parameters mean and how to make these entries, use the **APM Operations Manual**.

Step 1 – Application Characteristics

Parameter	Entry	Description
OAI Application	Y	Indicates whether or not (Yes or No) this component is an OAI application because it communicates with the NEAX2400 using OAI processes.
CRT Application	N	Indicates whether or not (Yes or No) this component requires a terminal screen that is of the same type as the one used by the APM.
Communication Queue	N	Indicates whether or not (Yes or No) this non-OAI component needs an IPC queue to communicate with other processes.

Step 2 – Primary Configuration Parameters

On the APM Configuration Entry screen, make the entries shown below to the parameters indicated:

Parameter	Entry	Description
Application Name	Name_Display	Indicates the name to be displayed in the APM menus. This name is displayed however it is entered here; i.e., capital letters, lowercase, etc.
Executable Filename	/oai/app/namedisp	Indicates the path name of the executable file.
Group	(make no entry)	(Name_Display is not a member of a group of applications.)
Response Mode	I(gnore)	Indicates the action that APM is to take with the component when a member of its group terminates; the I (Ignore) serves as a default value since neither component belongs to a group.
Initialization Batch	Y	Indicates whether or not Name_Display is to be initialized automatically when the OAI system is initialized.
Termination Mode	M(essage)	Indicates how the APM is to notify Name_Display to terminate.
Standard Output	/dev/null	Indicates where Name_Display output is sent.
Number of Restarts	0	Indicates the number of times the APM may restart Name_Display in the event that it terminates erroneously; 0 indicates that it is not to be restarted at all.

Step 3 – Facilities

According to instructions in the **APM Operations Manual**, designate the following NEAX2400 facility for the Name_Display component using the **Facilities** command on the APM Configuration Entry screen:

FLF – Free Location Facility

Step 4 – Secondary OAI Configuration Parameters

Using the **OAI-Conf** command on the APM Configuration Entry screen, make the entry shown for each of the following parameters required by Name_Display. Use the instructions provided for this option in the **APM Operations Manual**:

Parameter	Entry	Definition
Database Name #1	/oai/db/cur/namefile	Indicates the path name of the database containing the extension numbers, display names, and their corresponding employee names. The database filename *namefile*, listed here with its path, should be used as the name of the corresponding Application Definition File. (See "Create an Application Definition File" on page 7 for more information.)
Tenant Number	1	Specifies the number of the tenant to which the extensions apply.
Source Link Name	OAI1X25	The port on the source side of the communication link; entry should correspond to a link name in the APM system configuration file.
Destination Link Name	PBX1X25	The port on the destination side of the communication link; entry should correspond to a link name in the APM system configuration file.
Association Recovery	10	The number of seconds Name_Display will wait before trying to re-establish an association with the NEAX that has been released.

Step 5 – User-defined Parameters

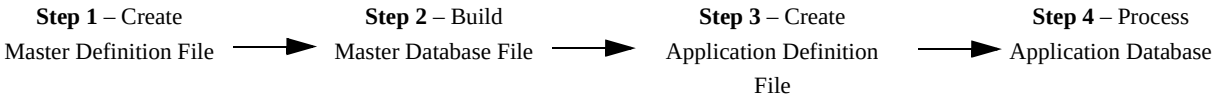
Make the following additional parameter entry through the **UserDefined** command on the APM Configuration Entry screen.

Parameter	Entry	Definition
#1	16	The length of the Display Name field in the Name Display database (8 or 16 characters); this entry must agree with the size of the Display Name field in the database. (See **Display Name** in Field Definitions on page 8 for more information.)

This completes the configuration of Name Display in the APM. Now go to Database Requirements to create its database support.

Chapter 3 Database Requirements

Name Display requires a database that contains all of the extension numbers in the system and for each, the name that will be displayed on the D^{term} LCD panel during call placement and connection. This database is created through the Database Administration option on the APM System Administration Menu through a process that involves the following four steps:



1. **Create a Master Definition File:** In this step, the master definition file is created to define the fields in the master database file.
2. **Enter Data to a Master Database File:** In this step, the master database is built by entering data (i.e., telephone extensions, employee names, and display names) into the fields that were just defined in Step 1.
3. **Create an Application Definition File:** In this step, a definition file is created that defines how data from the master file is to be converted to meet the needs of Name Display. ***The database name in the application configuration file (namefile) must be used for this definition file***. (See Step 4 – Secondary OAI Configuration Parameters on page 5 for more information.)
4. **Process an Application Database File:** In this step, the master database input is converted to a database file according to the definitions created in Step 3, using the Process/Install Application Databases option on the APM Database Administration menu. When the **Process** command is activated, data is drawn from the master database and converted to the formats specified in the corresponding application definition file. The **Install** command is then activated to enable Name Display to access the database.

Instructions

The information required in all four steps for the Name_Display database is provided in table form on the next page. Using this information alongside of the procedural instructions provided in the **APM Operations Manual**, enter the Database Administration option on the APM System Administration Menu and build the database. Any messages displayed during these steps are addressed in the Process and Error Messages chapter of the **APM Operations Manual**.

Note: *Remember to complete Step 4, Process the Application Database, after entering the information on the next page in Steps 1 through 3.*

The Name Display database contains all extensions served by Name Display and, for each extension, the name of the employee assigned to it and the form of that employee's name that will be displayed on the D^{term} LCD panel. Name the master definition file **namedisp** and the application definition file **namefile**.

Table 3-1

Field Description	Master Definition File				Application Definition File	Master Database
	Type	Size	Min. Value	Max. Value	Data Type	Typical Entry
Extension	A	5			ASCII	3150
Display Name	A	16			ASCII	J.Thomas
Employee Name	A	25				Janet Thomas

Field Definitions

- **Extension** – The phone number to which the following name assignments are being made.
- **Display Name** – The name that is to be displayed on the D^{term} LCD panel; must be entered with the first name initial separated from the last name by either a period (.) or a blank space, for example, *J. Thomas*; the length of this field must agree with the length specified in the User-Defined Parameter #1. (See Step 5 – User-defined Parameters on page 6 for more information.)
- **Employee Name** – The name of the employee who is assigned to this phone number; must be entered in the database with the first name first and the last name second, for example, *Janet Thomas*.

This completes creation of the Name Display database. Now go to MAT Assignment, to make the necessary NEAX MAT assignments.

Chapter 4 MAT Assignment

This guide assumes that data settings that affect the operation of all OAI software on a system-wide basis have already been assigned on the NEAX Maintenance Administration Terminal (MAT). Such settings include, for instance, system index values and assignment of Interface I/O Port Data in the Interface Processor (IP). It is also assumed that the NEAX system D^{terms} have all been assigned through the Assignment of Station Data (ASDT) command. For more information about these system data settings and about the following Name Display setting, refer to the **OAI Module Installation Manual for the NEAX2400 IMS,** the **NEAX2400 IMS Command Manual,** the **NEAX2400 IMS Job Specification Manual,** and the **NEAX2400 IMS Programming Manual**.

Use the **Assignment of System Data (ASYD)** command to enable the Name Display feature, as follows:

Sys 1 Index 78 bit 3 – 0 = Display name only
1 = Display calling/called number with name

Sys 1 Index 78 bit 5 – Enable Name Display feature? 1 = yes

Name Display is now installed and ready to be initialized. Enter the APM Operations Menu and initialize Name Display through the Non-CRT Application option, according to instructions provided in the **APM Operations Manual**.

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