

# **UAPLX Direct Number Assignment**

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## **Operations Manual**

**NEC** NEC Unified Solutions, Inc.

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June 2007  
NDA-30047, Revision 7



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# 1

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## Introduction

The *UAPLX Direct Number Assignment Operations Manual* provides the information you need to manage the Direct Number Assignment software.

- Chapter Topics*
- [UAPLX Direct Number Overview](#)
  - [Using this Guide](#)

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## UAPLX Direct Number Overview

UAPLX Direct Number Assignment is a software supplement to the Medical Center System (MCS) that enables hospital admitting personnel to retrieve DID telephone numbers from the MCS database.

With Direct Number Assignment a DID number for a new patient can be obtained by pressing a function key on the Dterm. When the function key is pressed, Direct Number Assignment accesses the MCS database of DID numbers, retrieves the next available one on the list, and displays it on the Dterm LCD panel. Admitting personnel can either accept the number and enter it into the patient's record or reject the number. Once a DID number is accepted, it is placed into "Offered and Accepted" status in the MCS database. Only after the DID number has been implemented by the PBX is it considered to be in "Active" status.

### **To Use Direct Number Assignment**

- Step 1** Press the **Dterm function key** that is assigned to Direct Number Assignment. An available DID number displays on the Dterm LCD panel, followed by the notation "ACCEPT?"
- Step 2** Do one of the following:
- Press **1#** to accept the displayed DID number. (Then enter the accepted DID number to the patient record.)
  - Press **0#** to cancel the DID request. The function key assigned to Direct Number Assignment, or nothing. If you do not press a key, Direct Number Assignment will time-out and reject the number.

If the number is accepted, Direct Number Assignment marks it as offered and accepted. If the number is not accepted, the number remains available. After the transaction, Direct Number Assignment clears the Dterm display.

If any entry other than 1# or 0# is made, Direct Number Assignment displays the message "1=YES 0=NO" and awaits a correct entry.

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## How This Guide is Organized

- |   |   |
|---|---|
| <p><i>Chapter 1</i><br/><i>Introduction</i></p>   | <p>This chapter provides a brief overview of Direct Number Assignment and outlines the actual manual organization.</p>      |
| <p><i>Chapter 2</i><br/><i>Configuring</i><br/><i>Direct Number</i><br/><i>Assignment</i></p> | <p>This chapter contains the information that should be entered in the configuration file for Direct Number Assignment.</p> |
| <p><i>Chapter 3</i><br/><i>MAT</i><br/><i>Assignments</i></p>                                 | <p>This chapter describes how to make Function Key assignments.</p>   |

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## Using this Guide

This guide provides specific field entries that need to be made during the installation and configuration of Direct Number Assignment. In addition to this guide, use instructions in 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 Direct Number Assignment are configured in the APM environment using the entries and values provided in this chapter.
- *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.

The installation and set up of Direct Number Assignment involves the following sequence of steps:



- *The RPM is didAlloc-<version>.i386.rpm.*
- *MCS must be installed first.*
- *The installed directory is /oai/app/didAlloc.*

- Step 1** Install Direct Number Assignment software from the release media.  
—Log into the APM Platform Management Menu.

- Select the **Installation of Applications/Packages** command.
- Follow the instructions provided in the *APM Installation Manual* to complete this part of the installation.

**Step 2** Modify the application configuration as necessary.

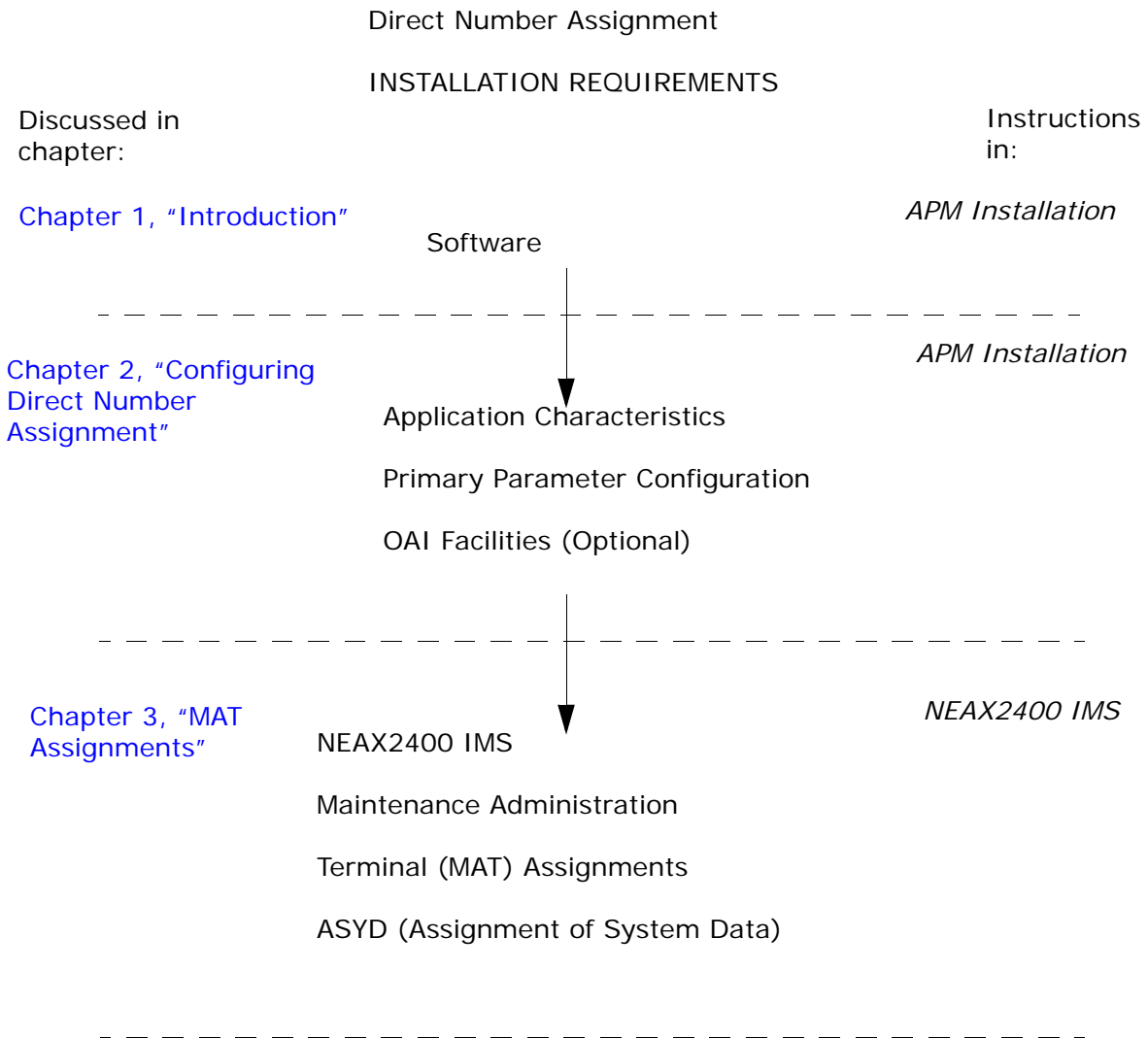
- Direct Number Assignment is configured during installation with default settings.
- These settings may be modified as described in [Chapter 2, “Configuring Direct Number Assignment”](#).
- Use the instructions provided in the *APM Operations Manual* to make the entries contained in this section.

**Step 3** Configure MAT Assignments.

- Several data settings must be assigned at the NEAX2400 Maintenance Administration Terminal (MAT) before Direct Number Assignment will function.
- Refer to [Chapter 3, “MAT Assignments”](#) for specifies 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.

[Figure 1-1](#) lists the installation requirements for Direct Number Assignment.

**Figure 1-1** Installation Requirements









# 2

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## Configuring Direct Number Assignment

This chapter contains the information that should be entered in the configuration file for Direct Number Assignment.



### REFERENCE

Refer to the “APM Operations Manual” for specific instructions on what these parameters mean and how to make these entries.

### Chapter Topics

- [Overview](#)
- [Step 1: Configuring the APM Application Configuration file](#)
- [Step 2: Configuring Primary Configuration Parameters](#)
- [Step 3: Designating OAI Facilities](#)
- [Step 4: Configuring Secondary OAI Configuration Parameters](#)

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## Overview

This chapter provides detailed procedures for configuring Direct Number in the APM, designating OAI Facilities, and configuring secondary OAI Configuration parameters.



### NOTE

Entries for parameters that are marked with an asterisk (\*) should be made exactly as they are shown; all other entries in this chapter serve as examples only.

After installation, the UAPLX Direct Number Assignment application may be configured using the Application Configuration on the APM System Administration Menu.

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

## Step 1: Configuring the APM Application Configuration file

Table 2-1 contains information used to add Direct Number Assignment to the APM Application Configuration file.

**Table 2-1** APM Application Configuration file information

Parameters	Entries	Descriptions
OAI Application	Y(es)	Indicates whether or not (Yes or No) Direct Number Assignment communicates with the NEAX2400 using OAI processes.
CRT Application	N(o)	Indicates whether or not (Yes or No) Direct Number Assignment requires a terminal screen that is of the same type as the one used by the APM.
Communication Queue	N(o)	Indicates whether or not (Yes or No) this non-OAI application needs an IPC queue to communicate with other process.

## Step 2: Configuring Primary Configuration Parameters

On the APM Configuration Entry screen, make the entries indicated in Table 2-2 for each Direct Number Assignment parameter.

**Table 2-2** APM Configuration Entry screen entries

Parameters	Entries	Descriptions
Application Name	Direct Number Assistant	Specifies the name to be displayed in the APM menus. This name is displayed however it is entered here; i.e., capital letters, lower case, etc.
Executable Filename	/oai/app/ didAlloc/ bin/ didAlloc	Indicates the path name of the executable file.
Group	(make no entry)	Indicates that Direct Number Assignment does not belong to a group.
Response Mode	I(gnore)	Indicates the action that the APM is to take with Direct Number Assignment should a member of the group terminate.
Initialization Batch	Y(es)	Indicates whether or not (Yes or NO) Direct Number Assignment is to be initialized automatically when the OAI system is initialized.

Parameters	Entries	Descriptions
Termination Mode	M(essage)	Indicates how the APM is to notify Direct Number Assignment to terminate.
Standard Output	/dev/null	Indicates where any output is sent.
Number of Restarts	10	Indicates how many times the APM may restart Direct Number Assignment after it terminates erroneously.

### Step 3: Designating OAI Facilities

According to instructions in the *APM Operations Manual*, designate the NEAX2400 facilities for Direct Number Assignment shown in [Table 2-3](#) using the **Facilities** command on the Configuration Entry screen.

**Table 2-3** NEAX2400 facilities for Direct Number Assignment

MRFI	Mode Release (I)
MSF	OAI Mode Set
TCFD	Terminal Control (D)
MRFR	Mode Release (R)
NTF	Number Transfer
TCFI	Terminal Control (I)



NOTE

The same MSF Op-Code that is specified here in the APM must be assigned to Direct Number Assignment the NEAX MAT. For more information, see [Chapter 3, "MAT Assignments"](#).

This code defaults to **130** with the **autoconfiguration** utility.

### Step 4: Configuring Secondary OAI Configuration Parameters

Using the **OAI-Conf** command on the APM Configuration Entry screen, make the entry shown for each of the parameters shown in [Table 2-4](#). Use the instructions provided for this option in the *APM Operations Manual*.

**Table 2-4** OAI-Conf command entries

Parameters	Entries	Descriptions
Database Name #1	(make no entry)	
Database Name #2	(make no entry)	
Timeout Value #1	30	Indicates the length of time, in seconds, that Direct Number Assignment waits for a response to a displayed message.
Timeout Value #2	1	
Tenant Number	1	Specifies the number of the tenant that Direct Number Assignment serves.
Source Link Name	OAI1TCP	Identifies the port on the source side of the communication link.
Destination Link Name	PBX1TCP	Identifies the port on the destination side of the communication link.
Association Recovery	30	Designates the number of seconds Direct Number Assignment will wait before trying to re-establish an association with the NEAX that has been released.

This completes the configuration of Direct Number Assignment in the APM. Continue on to [Chapter 3, "MAT Assignments"](#) to make the necessary MAT assignments.

# 3

## MAT Assignments

This chapter describes how to make Function Key assignments.

- Chapter Topic*
- [Overview](#)
  - [Making Function Key Assignments](#)

### Overview

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).



Refer to the following manuals for more information about these system data settings and the MAT commands described in this chapter for Direct Number Assignment.

- "OAI Module Installation Manual" for the NEAX2400 IMS
- "NEAX2400 IMS Command Manual"
- "NEAX2400 IMS Job Specification Manual"
- "NEAX2400 IMS Programming Manual"

### Making Function Key Assignments

A function key on every Dterm that is to be used to access Direct Number Assignment must be assigned to the Mode Set Facility number (Op-Code) that was configured for Direct Number Assignment in the APM.

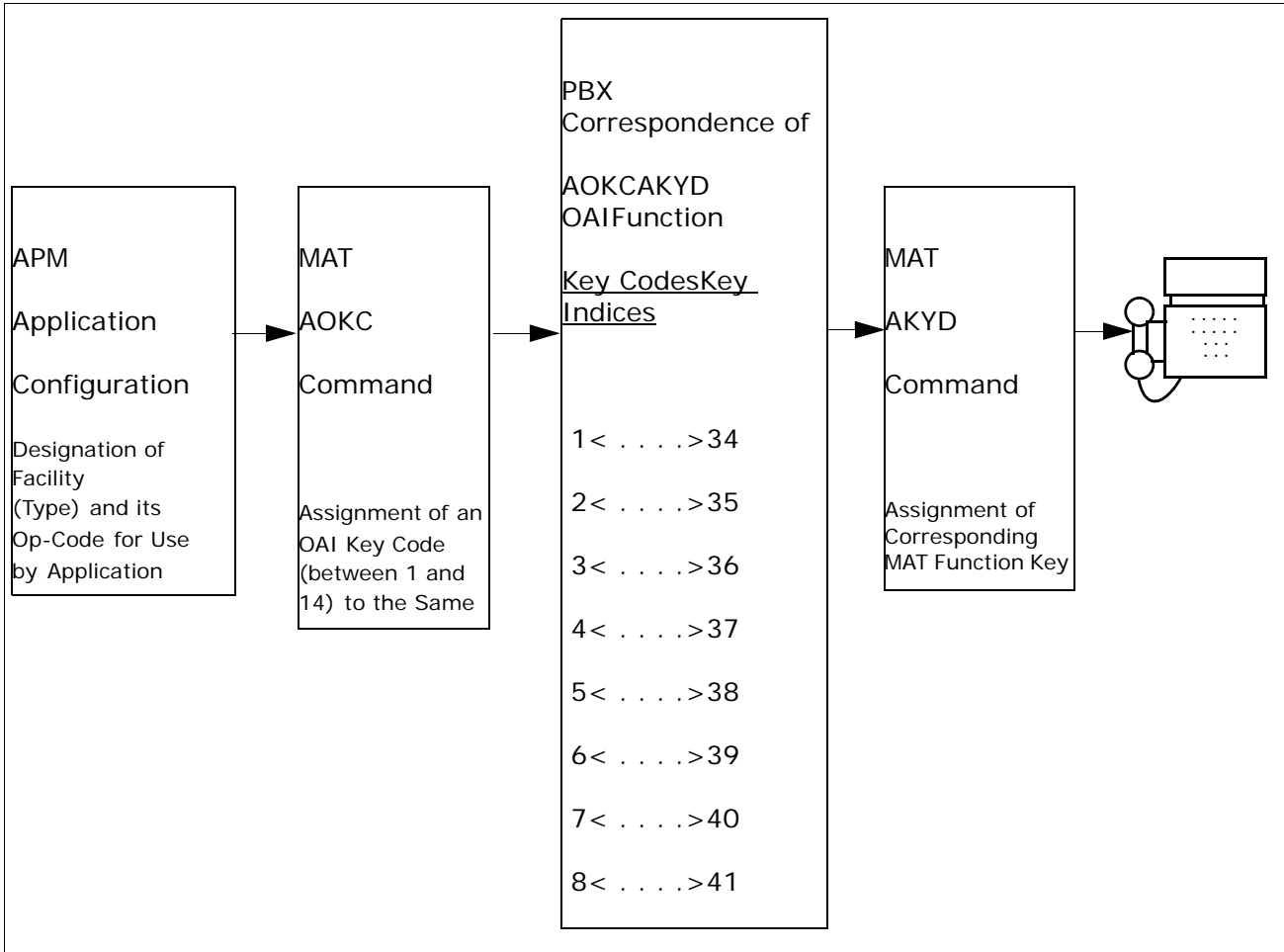


Refer to [Chapter 2, "Configuring Direct Number Assignment"](#) for more information.

- ASYD SYS1 Index 4 bit 4=1

- The MSF facility and its Op-Code are assigned to one of the 14 OAI Key Codes in the MAT using the AOKC command. Second, each of these OAI Key Codes corresponds to an AKYD Function Key Index (FKI) value which is then assigned to the specific Dterm function key. This process is illustrated in [Figure 3-1](#).

**Figure 3-1** OAI Function Key Assignment



A knowledge of the Dterm stations in the NEAX system and which ones will be set up to access Direct Number Assignment is necessary for using the following two commands:

- *AOKC COMMAND: (Assignment of OAI Key Codes)*
- *AKYD COMMAND: (Assignment of Dterm Function Key)*

**AOKC COMMAND: (Assignment of OAI Key Codes)**

This command is first used to associate the MSF facility and its Op Code that was configured in the APM for Direct Number Assignment to one of the OAI Key Codes in the MAT.

- Step 1** Enter an unused **OAI Key Code**, from 1 to 14. To determine what Key Codes are available for assignment, use the LOKC command to list the AOKC Key Codes that are already assigned.
- Step 2** Enter the type of **facility** using the value that designates the MSF.
- Step 3** Enter the same **MSF Op-Code** that was configured for Direct Number Assignment in the APM. Retrieve it using the Providers command on the APM Configuration Entry screen.

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### **AKYD COMMAND: (Assignment of Dterm Function Key)**

- Step 1** Enter the same tenant number that is configured for the application in the APM Application Configuration option.

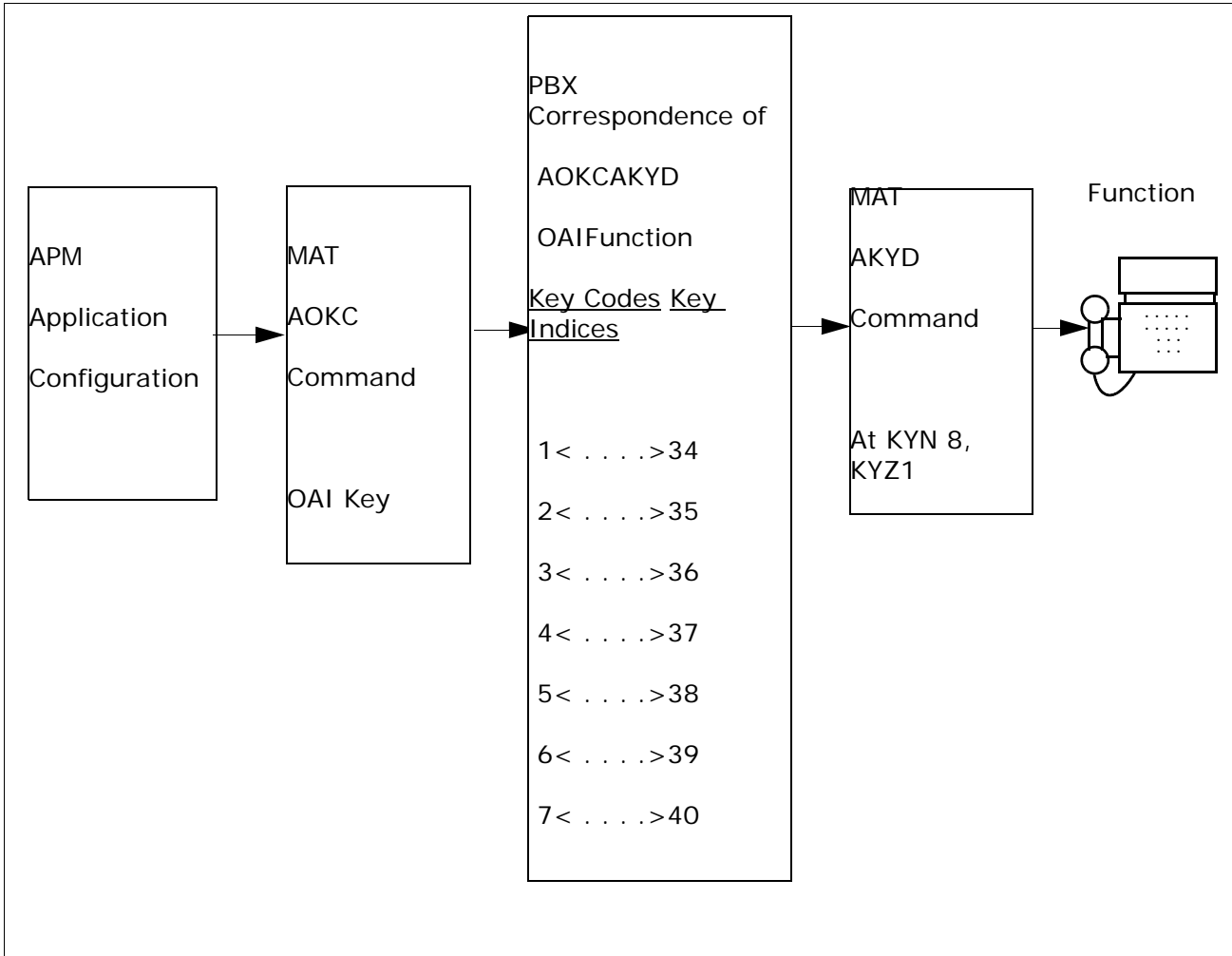


REFERENCE

Refer to Tenant #1 in [Table 2-4 on page 2-3](#) in [Chapter 2](#).

- Step 2** Enter the station number of the Dterm on which the function key is being assigned.
- Step 3** Enter a Dterm function key to the **MAT Function Key Index** that in turn corresponds to the previously assigned OAI Key Code.

**Figure 3-2** OAI Function Key Assignment Example



In the OAI Function Key Assignment example (Figure 3-2), the MSF was selected in the APM Application Configuration and its Op-Code was determined to be #130. MSF #130 is assigned through the AOKC command to an OAI Key Code. The Key Code to which it is assigned in this example is #10. The Dterm function key that is to be used to access Direct Number Assignment is configured as function key #8. Since OAI Key Code #10 corresponds in the PBX to MAT Function Key Index #43, Dterm function key #8 is assigned to Function Key Index #43 using the AKYD command. Thus, whenever a phone user presses function key #8 on any assigned Dterm, MSF 130 initiates communication with Direct Number Assignment for display of the next available number.

Direct Number Assignment is now installed and ready to be initialized. Enter the APM Operations Menu and initialize Direct Number Assignment through the **Non-CRT Application** command, according to instructions provided in the *APM Operations Manual*.



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NDA-30047, Revision 7