

Smooth Operator Configuration Note

For Smooth Operator Family of Products

Octel

Voice

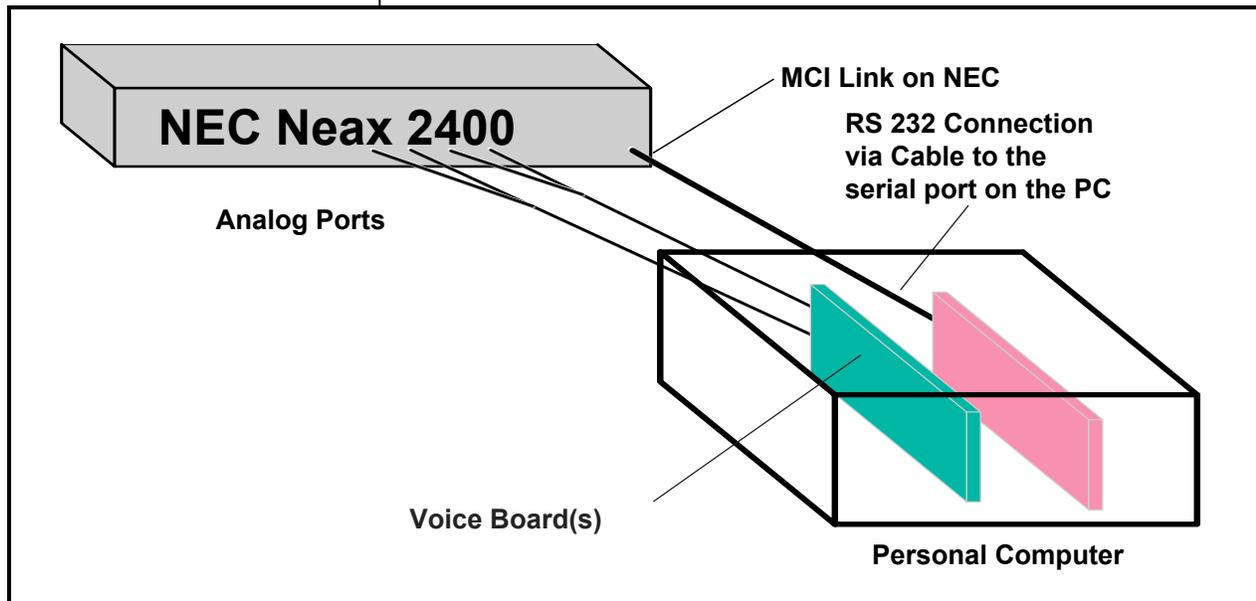
Processing

Module

Configuration Note 77175

NEC Neax 2400* with Direct Serial Link

Revised 10/24/97



Communications between the Neax 2400 and the Smooth Operator are through a RS-232 Connection to the serial port on the PC.

Smooth Operator Ordering Information

1.0 METHOD OF INTEGRATION

RS-232 / Direct Serial Integration. Smooth Operator communicates with the NEAX 2400 using Feature 2 of the Message Center Interface (MCI). Call forward to personal greeting is achieved by call information being sent over the MCI link to the RS232 port on Smooth Operator when calls are forwarded to the Voice Mail UCD group. Message Waiting Lights are set and canceled using the NEC message center feature. A hookflash followed by the extension transfers the caller to the operator.

2.0 SMOOTH OPERATOR ORDERING INFORMATION

There are many options available for both kit and turnkey versions of this product, depending on the application. Please consult with your sales representative. The RS-232 Serial Software for NEC NEAX 2400 diskette, part number S-COM-1031, and Modem cable (BEL-ATHAY10), part number H-COM-2215 must be used.

Disclaimer: Configuration Notes are designed to be a general guide reflecting Octel's experience configuring its systems. These notes cannot anticipate every configuration possibility given the inherent variations in all hardware and software products. Please understand that you may experience a problem not detailed in a Configuration Note. If so, please notify Sales Engineering at (408)324-3066, and if appropriate we will include it in our next revision. Octel accepts no responsibility for errors or omissions contained herein.

Switch hardware requirements

3.0 SWITCH HARDWARE REQUIREMENTS

- NEAX Message Center Interface (MCI) link I/O card I002-A
- One single line port port for each integrated voice port to be programmed into a UCD group. (PA-16LCQ is recommended since it can be programmed to provide loop current detection).
- NEAX MCI RS 232, requires TTY-CA cable and TTY-CA-1 cable
- One RJ-14 jack with 4-conductor line cord for every two Sm Oper ports
- 80 volt power supply for for messaaage waiting lights on single line phones
- One analog line for remote service access
- One RJ-11 Jack for above and 2-conductor modular telephone cord.
- If FaxMail is installed.
 - One analog line per FAX port.
 - One RJ-11 Jack for every Brooktrout TR-112 fax port OR one RJ-14 Jack for every two Brooktrout TR-114 fax ports, along with 4-conductor modular telephone cords.

Switch software requirements

3.1 SWITCH SOFTWARE REQUIREMENTS

- NEAX 2400 SIM or IMG 5200
- NEAX 2400 MMG or UMG 4200 or 5200

Note: Versions prior to 4200 may not provide overflow to UCD, also there may be problems passing caller information from the MCI to the Smooth Operator on internal transfers.

Supported integration features

4.0 SUPPORTED FEATURES

[✓] Items are supported

System Forward to Personal Greeting		Message Waiting	
All Calls	[]	LCD Display	[✓]
Ring/no answer	[]	LED	[]
Busy	[]	Lamp	[✓]
Busy/No Answer	[]	Audible / Stutter Dial Tone	[]
Do Not Disturb	[]	Multiple Return to Operator	[✓]
Station Forward to Personal Greeting		Direct Call	[✓]
All Calls	[✓]	Auto Attendant	[✓]
Ring/no answer	[✓]	Outcalling	[✓]
Busy	[✓]	Personal Greeting of Original-Called Party	
Busy/No Answer	[]	Multiple Call Forward	[✓]
Do Not Disturb	[]	Double Call Forward	[]
Flexible Forwarding		Call Coverage	[]
Forward to No Answer Greeting	[✓]	Intercom Paging	[✓]
Forward to Busy Greeting	[✓]	Supervised Transfers	
Intercom/CO Forwarding	[]	Call Screening	[✓]
		Call Queuing	[✓]

Intercom Paging [✓]
Record Telephone Conversation []

Programming switch system parameters

4.1 DISCONNECT TYPE

Disconnect is achieved by either Drop in Loop or Fast busy. For proper external disconnect supervision, Ground start or Supervised Loop start CO lines are recommended. (see Note 7.1)

5.0 CONFIGURING THE NEC NEAX 2400

Before you begin programming, it is recommended that a hard copy of the customer database be obtained to verify existing programming.

When configuring the MCI link, the switch system administrator should be contacted to avoid possible programming conflicts. Remember to instruct the SWITCH that the MCI is not a MAT terminal.

Note: In the following examples, 100 will represent the UCD pilot number for Voice Mail. Single Line extensions to the Smooth Operator will be 100, 101, 102 and 103.

5.1 NEAX 2400 SYSTEM PROGRAMMING

Refer to the Programming section in the NEC manual for information on entering, saving, and exiting database programming.

To allow multiple call forward to personal greeting, enter system programming. Data will specify the number of hops allowed on calls forwarded under Busy/No answer conditions.

Assignment of System Data			
SYS :	1		
INDEX :	5	DATA :	XX
		SYS:	System Data Items
			1-System Data 1
			2-System Data 2
			3-System Data 3
		INDEX:	System Data Index
			System Index
			1 0-255
			2 0-15
			3 0-31
		DATA:	System Data
(Hexadecimal)			

SYS: Number of hops allowed on calls forwarded is a system-wide parameter, type 1 in this field, then press ENTER.

INDEX: Enter 5 for number of hops allowed on calls forwarded.

DATA: Max value allowed is 05 for 5 hops. Consult the System Administrator for proper value.

To allow blind transfer to the attendant(s) console, enter system programming.

Assignment of System Data

SYS :	1		SYS:	System Data Items
INDEX :	5	DATA: XX		1-System Data 1
				2-System Data 2
				3-System Data 3
			INDEX:	System Data Index
				System Index
				1 0-255
				2 0-15
				3 0-31
			DATA:	System Data (Hexadecimal)

SYS: Allow blind transfer to the attendant(s) console is a system-wide parameter, type **1** in this field, then press **ENTER**.

INDEX: Enter **17** for allow blind transfer to the attendant(s) console.

DATA: Minimum value is 08 to enable bit 4. Consult the System Administrator for proper value. For 4200 or 5200 Rel I series software an application disk must be loaded.

5.2 CONFIGURING THE SINGLE LINE PORTS

The following screens are taken from a NEAX MAT terminal.

```

***      2400 MAINTENANCE COMMAND MENU      ***

1      SYSTEM CONTROL
2      SYSTEM BACKUP
3      MAKE BUSY CONTROL
4      TRAFFIC DATA
5      TEST
6      STATION DATA
7      TRUNK DATA
8      NUMBERING PLAN
9      SERVICE FEATURE DATA (1)
10     SERVICE FEATURE DATA (2)
11     SIGNAL TRANSLATION DATA
12     RESTRICTION DATA
13     INSTALLATION
14     LIST UP

      ENTER MENU ITEM NO [ 6 ]

```

Select Menu Item **6**. Then press the **ENTER** key

For this example we are using a consecutive block (100-103) of extension numbers. You must add each extension to the system and program it properly.

*** STATION DATA COMMANDS ***		
1	ASDT: Assignment of Station Data	[CM01]
2	ASCL: Assignment of Station Class Data	[CM01]
3	ASTN: Assignment of Station Number	[CM01]
4	DSTN: Display of Station Data	[CM01]
5	AKYD: Assignment of Key Data for Dterm	[CM01]
6	ASHP: Assignment of Station Hunting-Pilot	[CM01]
7	RSHP: Remove Station Hunting-Pilot	[CM01]
8	ASHC: Assignment of Station Hunting-Circular	[CM01]
9	RSHC: Remove Station Hunting-Circular	[CM01]
10	ACPG: Assignment of Call Pickup Group	[CM01]
11	AISA: Assignment of Individual Speed Calling Entry Area	[CM02]
12	APHN: Assignment of Phantom Station Number	[CM02]
13	ASHU: Assignment of Station Hunting-UCD	[CM01]
14	RSHU: Remove Station Hunting-UCD	[CM01]
15	AUOG: Assignment of UCD Overflow Group	[CM01]
ENTER MENU ITEM NO [1]		

Select ASSIGNMENT OF STATION DATA option by typing **1** then press the **ENTER** key.

Enter The station administration data for extension 100 (the first single line port). In order to correctly set up the single line ports, follow the steps below:

- TN:** Tenant Number (default = 1). Consult the System Administrator to see if this value should be modified. If this value does not need modification, press **ENTER** to go to the next field.
- STN:** Station Number. Enter the extension number of the first single line port, (as per our example, this would be 100). Press **ENTER** to go to the next field. The extension of the first single line voice mail port will be the forwarding target for the subscribers.
- LENS:** Line Equipment Number (default=00000). Consult the System Administrator for the proper line equipment assignment. After entering the correct data, press **ENTER**.
- TEC:** Telephone Class (default-1). This should be changed to **3** to allow dial pulse and push button functions. Press **ENTER** to go to the next field.
- RSC:** Route Restriction Class (default=0). Consult the System Administrator for proper value.
- SFC:** Service Feature Class (default=0). Consult the System Administrator for proper value.

When programming a port, you may need to change the Tenant Number. You will need to select and enter a proper Station Number and Line Equipment Assignment. **Telephone Class** must be set to **3**. A Route Restriction Class and Service Feature Class must be selected. There are no known conflicts with the options in either Route Restriction Class or Service Feature Class at this time.

Assignment of Station Data		TN: Tenant Number
TN: 1	STN: 100	STN: Station Number
LENS: 000000		LENS: Line Equipment Number (6 Digits)
TEC: 3	RSC: 0 SFC: 0	TEC: Telephone Class (1-31)
		1-DP (10PPS) 22-EMM
		2-PB
		3-DP/PB
		11-VMM/VMZ
		12-Dterm V
		13-Data Terminal Via Dterm V
		14-Hot Line
		15-Cas Line
RSC: Route Restriction Class (0-15)		16-Data Terminal via Data Module
For assignment of RSC, ARSC command		18-Virtual Line Appearance
SFC: Service Feature Class (0-15)		19-TMM
For assignment of SFC, ASFC command		20-PSM

When you are done editing the final field on this screen, press the **ENTER** key to confirm the single line station programming. When assigning the first station data command for a Line Package, the message **"PKG CHECK"** will be displayed on the screen. At this point, check that the right circuit card is in the slot on the switch and then press the **ENTER** key. All assignments to the same Line Package, after the initial one, will prompt you with a **"WRT?"** message after entering the station data. Type **"Y"** then press the **ENTER** key to confirm your information. The cursor will then move to the first field, allowing you to configure the next single line port. Repeat this step for each single line port.

When you have configured all your single line ports, press the **** (**BACKSLASH**) key to return to the Station Menu.

5.3 ASSIGNING SINGLE LINE PORTS TO A UCD GROUP

*** STATION DATA COMMANDS ***		
1	ASDT: Assignment of Station Data	[CM01]
2	ASCL: Assignment of Station Class Data	[CM01]
3	ASTN: Assignment of Station Number	[CM01]
4	DSTN: Display of Station Data	[CM01]
5	AKYD: Assignment of Key Data for Dterm	[CM01]
6	ASHP: Assignment of Station Hunting-Pilot	[CM01]
7	RSHP: Remove Station Hunting-Pilot	[CM01]
8	ASHC: Assignment of Station Hunting-Circular	[CM01]
9	RSHC: Remove Station Hunting-Circular	[CM01]
10	ACPG: Assignment of Call Pickup Group	[CM01]
11	AISA: Assignment of Individual Speed Calling Entry Area	[CM02]
12	APHN: Assignment of Phantom Station Number	[CM02]
13	ASHU: Assignment of Station Hunting-UCD	[CM01]
14	RSHU: Remove Station Hunting-UCD	[CM01]
15	AUOG: Assignment of UCD Overflow Group	[CM01]
ENTER MENU ITEM NO [13]		

From the Station Data Menu, type **13**, for Assignment of Station Hunting-UCD. Press the **ENTER** key.

The Tenant Number that was used when configuring the single line ports must be the same one used in the Assignment of Station Hunting-UCD. The first single line port, is entered as the Station Number (**STN: 100**).

Note: Not all versions use the first station number as the pilot number of the hunt group. Contact the System Administrator and determine if a pilot number is assigned or the number of the first station is used.

By setting the Count (**CNT**) to **4**, you have created a UCD group for four single line ports accessed through the UCD target number 100. Enter the second single line port number for the second Station Number (**STN: 101**).

Assignment of Station Hunting-UCD	
TN: 1	TN: Tenant Number
STN: 100	STN: Station Number
CNT: 4 2 STN: 101	CNT: Number of Stations to be entered (number of Voice Mail ports)
	ADD: Number of Stations to be added
	*STN: Station Number of the Stations included in the UCD group.
	(*indicates the order of a station in the group)

After adding the second single line port number, press **ENTER**. The screen will update as shown below.

Assignment of Station Hunting-UCD

TN: 1	TN: Tenant Number
STN: 100	STN: Station Number
CNT: 4 3 STN: 102	CNT: Number of Stations to be entered (number of Voice Mail ports)
	ADD: Number of Stations to be added
	*STN: Station Number of the Stations included in the UCD group.

(*indicates the order of a station in the group)

You are now prompted to enter the extension of the third single line port, (102). After entering the extension press **ENTER**. The screen will update in the same manner, prompting you for the fourth member of the UCD group. After entering the data for the final UCD member, you will be prompted with a "WRT?" message. Type "Y" and press **ENTER**.

Press the "\" (BACKSLASH) key to return to the Station Data Menu, then press the "\" (BACKSLASH) key again to return to the 2400 Maintenance Command Menu.

5.4 CONFIGURING THE MESSAGE CENTER INTERFACE LINK

```

***      2400 MAINTENANCE COMMAND MENU      ***

1      SYSTEM CONTROL
2      SYSTEM BACKUP
3      MAKE BUSY CONTROL
4      TRAFFIC DATA
5      TEST
6      STATION DATA
7      TRUNK DATA
8      NUMBERING PLAN
9      SERVICE FEATURE DATA (1)
10     SERVICE FEATURE DATA (2)
11     SIGNAL TRANSLATION DATA
12     RESTRICTION DATA
13     INSTALLATION
14     LIST UP

      ENTER MENU ITEM NO [ 13 ]
    
```

Select option **13** (INSTALLATION) from the Main Menu. Press **ENTER**

```

*** INSTALLATION COMMANDS ***

1 ASYD:      Assignment of System Data           [CM03]
2 AUNT:      Assignment of Unit Data            [CM03]
3 ASTD:      Assignment of State Translation Data [CM03]
4 ATCC:      Assignment Terminal Configuration Command [CM03]
5 ASMD:      Assignment of Service Module Data   [CM03]
6 MMNF:      Make Menu File                     [CM02]

ENTER MENU ITEM NO [ 1 ]
    
```

Type **1** to select System Data. Press **ENTER**

The next five steps represent the minimum requirements necessary for the MCI integration to work correctly. The data field entered may be different for each installation and should never be changed without first consulting the Switch Administrator.

ONE: MESSAGE WAITING LIGHT PROGRAMMING

```

Assignment of System Data

SYS : 1                      SYS:  System Data Items
INDEX : 28   DATA: 20      1-System Data 1
                             2-System Data 2
                             3-System Data 3
INDEX:  System Data Index
                System  Index
                1      0-255
                2      0-15
                3      0-31
DATA:  System Data (Hexadecimal)
    
```

SYS: Message waiting control is a system-wide parameter, type **1** in this field, then press **ENTER**.

INDEX: Enter **28** for message waiting control.

DATA: Enter a value of **20** to set bit 5 of index 20 to 1, this allows the MCI link to control Message Waiting Lights. This value should not be changed without consulting the System Administrator.

TWO: MCI LINK PORT ASSIGNMENT

There are different ports available to the switch and one is reserved for the MAT terminal. Consult your Switch Administrator before programming this parameter. In our example we have assumed that Terminal 1 is assigned as the MCI link.

Assignment of System Data		
SYS : 1		SYS: System Data Items
INDEX : 29	DATA: 02	1-System Data 1
		2-System Data 2
		3-System Data 3
		INDEX: System Data Index
		System Index
		1 0-255
		2 0-15
		3 0-31
		DATA: System Data (Hexadecimal)

SYS: MCI data link programming is a system-wide parameter, type 1 in this field, then press **ENTER**.

INDEX: Set index to 29 to assign a communications port for the data link.

DATA: There are different ports available to the switch, one is reserved for the MAT terminal. Consult your Switch Administrator before programming this parameter. Use the following table to determine the proper data input for index 29.

Link number	DATA	PORT
Mat Terminal	00	0
1	02	1
2	04	2
3	08	3
4	10	4
5	20	5

THREE: DATA BITS AND PARITY ASSIGNMENT

Assignment of System Data		
SYS : 1		SYS: System Data Items
INDEX : 34	DATA: 09	1-System Data 1
		2-System Data 2
		3-System Data 3
		INDEX: System Data Index
		System Index
		1 0-255
		2 0-15
		3 0-31
		DATA: System Data (Hexadecimal)

SYS: Data bits and Parity Assignment is a system-wide parameter, type **1** in this field, then press **ENTER**.
INDEX: Set index to **34** to assign Data bits and Parity.
DATA: Data bits and Parity effect the SMDS and MCI data link. This value should not be changed without consulting the System Administrator. Use the following table to determine the proper data input for index 34.

Bit	System Data Contents	
0	0/1 Out/ In services for SMDS and MCI link	
1	0 = No parity	2 = No parity
2	4 = Odd parity	6 = Even parity
3	0 = Unused	8 = 1 Stop bit
4	10 = 1.5 stop bits	18 = 2 Stop bits

FOUR: DEFINE THE MCI PORT AS TERMINAL

Assignment of System Data	
SYS : 1	SYS: System Data Items
INDEX : 117 DATA: 01	1-System Data 1
	2-System Data 2
	3-System Data 3
	INDEX: System Data Index
	System Index
	1 0-255
	2 0-15
	3 0-31
	DATA: System Data (Hexadecimal)

SYS: MCI data link programming is a system-wide parameter, type **1** in this field, then press **ENTER**.
INDEX: 117 is used as an example. Index is specific to the port you selected in the previous screen. Use the chart below to select the index value. Enter this value in the INDEX field.

PORT	INDEX	DATA
Mat Terminal	116	02
1	117	01
2	118	01
3	119	01
4	120	01
5	121	01

DATA: Selecting **01** in the DATA field insures that the port is seen as a MCI port and not a MAT terminal interface, then press **ENTER**.

FIVE: ASSIGN THE MCI LINK TO THE UCD GROUP

Assignment of System Data			
SYS : 2	TN: 1	SYS:	System Data Items
INDEX : 6	DATA: 01		1-System Data 1
			2-System Data 2
			3-System Data 3
		INDEX:	System Data Index
			System Index
			1 0-255
			2 0-15
			3 0-31
		DATA:	System Data (Hexadecimal)

SYS: MCI data link association with a UCD Group is on a tenant by tenant basis. Type **2** in this field, then press **ENTER**.

TN: You need to use the same tenant value you used when creating the Single Line ports and UCD group.

INDEX: Index **6** includes field that allow you to associate the MCI link with the UCD group.

DATA: Setting DATA to **01** sets bit 0 to tell the Switch that the MCI link is associated with the UCD group.

MCI SERVICE FOR CALLS VIA ATTENDANT CONSOLE

Assignment of System Data			
SYS : 2	TN: 1	SYS:	System Data Items
INDEX : 7	DATA: 00		1-System Data 1
			2-System Data 2
			3-System Data 3
		TN:	Tenant Number
		INDEX:	System Data Index
			System Index
			1 0-255
			2 0-15
			3 0-31
		DATA:	System Data (Hexadecimal)

SYS: MCI Service for calls Via Attendant Console is on a tenant by tenant basis. Type **2** in this field, then press **ENTER**.

TN: You need to use the same tenant value you used when creating the Single Line ports and UCD group.

INDEX: Index **7** includes the field that allow MCI Service for calls via Attendant Console.

DATA: Setting DATA to **02** sets bit 1 to tell the Switch that the MCI Service is for calls via Attendant Console. This value should not be changed without consulting the System Administrator.

5.5 DATA LINK CONFIGURATION FOR THE MCI

Set up the MCI I/) port (P/N PAI002) to the same baud, parity, data bit and stop bit settings as the NEC.CFG file in the Smooth Operator system. If the MCI data link is configured for 2 stop bits it should be reconfigured for 1 stop bit. 2 stop bits will cause inconsistent operation of the MCI link.

Note: After making any changes to the Data Link on the NEAX you must Reboot the switch for the changes to take effect. If you make changes to the Integration Configuration program of the Smooth Operator system, you must exit the Smooth Operator system and relaunch it by rebooting the PC..

The normal settings for the MCI data link are 1200 baud, 8 data bits, 1 stop bit, and no parity bit. Below are the jumper settings that are needed to achieve this.

Switch Settings			Function
SW01/	1	2	3
SW11	on	off	on
	4	off	1200 BPS
	5	off	Parity bit invalid
	6	off	Even parity
	7	on	8 bits
	8	on	1 stop bit
	8	off	Send side FIFO is 1 byte.
	8	off	For version 5200 J4.38 and above set switch 8 off.

Switch Settings		Function
SW02/	1 on	When PB lead is - terminal is busy
SW12	2 on	DTR signal is always on
	3 on	DSR signal is not provided
	4 on	CD is not provided
	5 on	CS is not provided
	6 on	CI is not provided
	7 on	PB signal is not provided
	8 off	Not used

Switches 01 and 02 are configured when you are using port 0 on the I/O card, 11 and 12 are configured when you are using port 1.

5.6 PROGRAMMING THE STATION SETS

Forward RNA:

1. Lift handset of phone to be forwarded, wait for dial tone.
2. Dial the access code or press the function key for forward RNA, at this point you will get a second dial tone.
3. Dial the forwarding target number. (This is the first member extension of the UCD group.)

Cancel Forward RNA:

1. Lift handset of phone that you want to cancel forwarding on, wait for dial tone.
2. Dial the access code or use the function key for canceling forward RNA, at this point you will receive a confirmation tone.

Note: Call Forward RNA SFI=8 must be allowed in the stations service feature class. Dterm sets may have a function key for RNA forward - FKY=22.

Forward Busy:

1. Lift handset of phone to be forwarded, wait for dial tone.
2. Dial the access code or press the function key for busy forward, at this point you will get a second dial tone.
3. Dial the forwarding target number. (This is the first member extension of the UCD group.)

Cancel Forward Busy:

1. Lift handset of phone that you want to cancel forwarding on, wait for dial tone.
2. Dial the access code or use the function key for canceling forward busy, at this point you will receive a confirmation tone.

Note: SFI=9 Call forward busy, must be in the stations service feature class. Dterm sets may have a function key for forward busy - FKY=1.

Forward All Calls:

1. Lift handset of phone to be forwarded, wait for dial tone.
2. Dial the access code or press the function key for forward all calls, at this point you will get a second dial tone.
3. Dial the forwarding target number. (This is the first member extension of the UCD group.)

Cancel Forward All Calls:

1. Lift handset of phone that you want to cancel forward all calls on, wait for dial tone.
2. Dial the access code or use the function key for canceling forward all calls, at this point you will receive a confirmation tone.

Note: RNA SFI=7 Call forward all calls, must be in the stations service feature class. Dterm sets may have a function key for forward all calls - FKY=2.

Smooth Operator programming

6.0 CONFIGURING THE SMOOTH OPERATOR

During the install process, run the Integrator program and choose the NEC NEAX 2400. The Integrator will place appropriate feature codes into the Smooth Operator Setup.

The following codes should be inserted by the integrator. Four digit extensions are assumed.

Outside Line Access Code	9,
Off Hook Delay (OFFHDLY)	50
Hook Flash Interval (FLINTVL)	50
DTMF Tone Length (TONELEN)	8

Message Waiting Parameters

Permit Message Waiting Lights	✓
Use MW Data from Serial Port [COMMMWL]	✓

Inband Parameters

Total Number of DID Digits	10
Seconds to Wait for First Digit	1
Location of Inband Signaling Code	1
Milliseconds to Wait for Next Digit	100
Code for Go to Voice Mail	F
Start at End of String for Go to Voice Mail	Enabled
Location of Mailbox Number for Go to Voice Mail	4
Code for Immediate Subscriber Login to Mailbox	C
Start at End of String for Immediate Login	Enabled
Location of Mailbox Number for Immediate Login	4
Code for Busy Extension	B
Start at End of String for Busy Extension	Enabled
Location of Mailbox Number for Busy Extension	4
Code for No Answer Extension	N
Start at End of String for No Answer Extension	Enabled
Location of Mailbox for No Answer Extension	4
Start at End of String for Default Code	Enabled
Location of Mailbox Number for Default Code	4

Note: *Verify these dialing sequences for your installation.*

In addition to running the Integrator, ensure the following parameters are set to their corresponding values in System Setup:

SMDI Parameters

Use SMDI	✓
----------	----------

Note: *Verify all these dialing sequences for your switch*

6.1 INTEGRATION CONFIGURATION PROGRAM

When the Integration Configuration Program is run, ensure that the Serial Communication Protocol matches the NEC 2400, which was set in section 5.4 step 3 of this document to 1200 baud, no parity, eight data bits, and one stop bit (1200, 8,N,1). Set Time-out to 10.

Next, select PORT ID, enter the extension numbers connected to the corresponding Smooth Operator ports.

Note: The NEC Serial interface is less sensitive to protocol matches than the NEC 2400. The Smooth Operator may be excepting digits but message waiting lights may not work. Try setting the protocol of the Serial link to odd parity, seven data bits, and two stop bit (1200, 7,O,2).

7.0 CONSIDERATIONS / ALTERNATIVES

The following items should be considered, below:

- Supervised Transfers
- Disconnect Type

7.1 SUPERVISED TRANSFERS

If the NEC 2400 is programmed to execute a supervised transfer, Handsfree Announce must be disabled. If call forwarding is on at the station, ensure that it is for Ring/No Answer only, and that the ring timer is greater than the Maximum Rings for the mailbox.

7.2 DISCONNECT TYPE

The NEC line card 16LC-Q provides a 128-194 millisecond Drop in Loop current. If you are not using the 16LC-Q card the NEC PBX will send a Fast Busy which must be "learned" by running CCA.

Important notes concerning this integration

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