

**Corporate Network Solutions
Business Networks Systems Division**

**Technical
Information
Bulletin**

TITLE:

Release 6 New and Enhanced Features

SYSTEM APPLICATION:

NEAX 7400 IPS / NEAX 7400 IPS Retrofit Systems

SOFTWARE VERSION APPLICATION:

SC-3117 F1 2.02

ATTACHMENTS:

Doc-Reg ID:

<http://www.kbase.cns.nec.com.au/>

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OVERVIEW

Software Release 6.1 (F1 2.02) has some new features along with some enhancements to current features. The MATWorX Ver 6 (5.4.0) is required to make use of all features provided by this software version.

New Features

Accommodation of Dterm85 Series handsets
DtermIP Program Download

Enhanced Features

Whisper Page Enhancement

Minimum Hardware / Software

PABX	NEAX 7400 ICS Retrofit System / NEAX 2000 IPS
MP	PN-CP26-A / PN-CP24-A
Software	SC-3117 F1 2.01
MATWorX	MATWorX Version 6 (ver 5.4.0)

MEMORY AREAS

Program Revision

F85 >	FF02	SC number read	3117	SC number
	FF03	Official Version read	F1	Official Version
	FF04	Official Revision read	0002	Official Revision
	FF05	Official Revision Read	02	Official Revision (Below decimal point)

Above example: SC-3117 F1 2.02

Feature Read

F87 >	001~255	Feature Listing	A / R	A= Allowed R= Restricted Unbundling Read
F89 >	01~16	Options 01 through to 16	XXX	Options Unbundled

Reading the Licensing memory areas

The licensing of the IP requirements for the system is done with an option disk which is loaded by NEC BS Production. It contains information specific to one PABX by means of a serial number. This information can be read with the KeyFD Add-In of MATWorX or by MOC or CAT mode.

CM F89 >	01~16	Options 01 through to 16	XXX	Options unbundled
CM F88 >	01~255	Individual options	XXX	Number of option unbundled
i.e. F88 >	12	No. of IP Ports (IP Dterms)	004	Unbundled for 4 IP Dterm licences
F88 >	13	No. of Softphone licences	016	Unbundled for 16 Softphone licences

NEW FEATURES

Accommodation of Dterm85 Series

Description

A new series of Dterm handsets have been developed and this feature allows them to be accommodated on the NEAX 2000 IPS. The series includes the following handsets: Dterm2DT, Dterm8D, Dterm16D, Dterm32D, DtermIP 8D, DtermIP 16D and Dterm85 60 Button DSS Console. The following features have also been added:

- Two new feature keys, Directory and Message have been added. The operating procedure for these will be described later in this document.
- 6 additional Dterm ring tones have been added.
- Power saving mode. This feature lowers the brightness of the Dterm LED after a time determined by system data. (Not available on DtermIP)
- Display of adjusting volume for several items, display of adjusting LCD contrast can now be seen on the Dterm LCD.

Service Conditions

- The number of Dterm85 and DtermIP handsets that can be accommodated is limited by the maximum number of Dterm / Dterm IP for that IPS configuration.
- The operation mode of the Dterm is set by system data (CM 1217>xxx:3).
- Either Dterm75 mode or Dterm85 mode must be assigned to level 0~3 and level 4~7 of the 8DLC cards in CM 12 YY=17, because this data must be assigned per four circuits of the 8DLC cards. (This condition is not applicable for DtermIP).
- Dterm85 can be accommodated in IPS with software previous to R6.1 but will function in Dterm75 mode.
- If a Dterm is exchanged during operation, the old key data will remain in system. Therefore, when Dterm65 is exchanged with Dterm85, the key label will not match the keys. In this case, CM 90 will need to be reassigned so that the dedicated function keys of Dterm85 are set.

Directory, Message and Microphone keys

Description

The Directory key is dedicated for use in conjunction with the System Speed Dial feature.

The Message key is dedicated to perform the use of Message Wait Search feature.

The Microphone key is dedicated for use as a microphone on/off key. (This setting cannot be changed by system data).

Service Conditions

Dedicated function keys have been added to the Dterm85 series handsets. The default settings for these keys are as follows:

- Key number 98: Dial by Name Directory (for Station Speed Dialing [F5015])
- Key number 99: Message Waiting Search [F0A46]
- Key number none: Microphone (This is fixed and cannot be changed by system data)

Operating procedure

Directory key

This key uses the same function as the Dial By Name feature.

To search for a number by name and originate a call by Speed Calling – Station

1. From an idle status, press Directory key
2. Enter a name or part of a name by keypad
3. Press up/down softkey to locate correct number (Name and number shown on Dterm LCD)
4. When desired name has been reached, press line key or go off hook to originate call.

To register a name and number for call by Speed Calling – Station

1. From an idle status, press Directory key
2. Press Feature key and enter a name by keypad
3. Press the feature key and enter the dialed number to be stored (Name and number shown on Dterm LCD)
4. Press Feature key. The Dterm LCD shows “set ok”.

Message key

This key uses the same function as the Message Waiting Reminder Search feature key.

To retrieve a message from a Dterm with an LCD:

1. Press the Speaker key or lift handset and receive Dial Tone
2. Press the Message Key; Dterm LCD shows Message xxxx (where xxxx is the station number that set the message) and the time the message was sent.
3. Three options are available by softkey function:
 - Press SEARCH softkey to see the next message; or press 1 on the keypad
 - Press CALL softkey to call the displayed station; or press 2 on the keypad
 - Press ERASE softkey to erase the displayed message; or press 3 on the keypad

Programming procedure

A	DESCRIPTION	DATA
CM90	Set the dedicated function keys Directory key Message key	<ul style="list-style-type: none"> • YY=00 (1) X~XXXXXXXX,98 Stn No, key 98. (2) F5015: Dial by Name Directory • YY=00 (1) X~XXXXXXXX,99 Stn No, key 99. (2) F0A46: Message Waiting Search
END		

Ring frequency control

Description

6 new ringer tones have been added to the existing 8 ringer tones currently available.

Service conditions

These ringer tones are only available to Dterm i series.

Operating procedure

To change the Ring Frequency at the Dterm

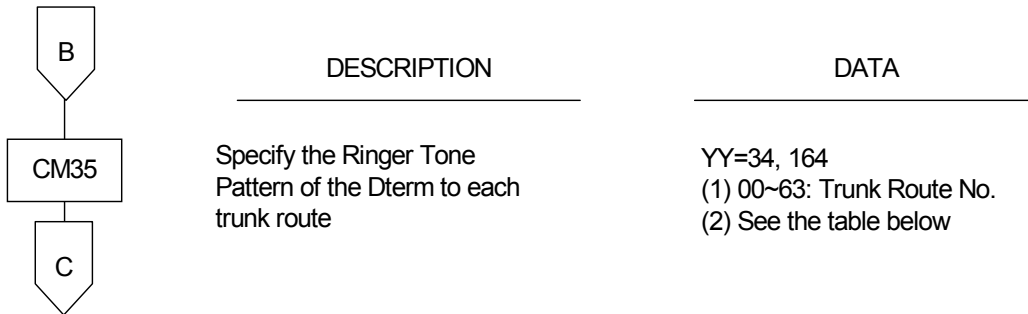
1. Press the Feature key, followed by 3; receive the new selected tone from the Dterm speaker
2. Press 3 to scroll through the 14 ringer tones available
3. Press Feature key when desired ringer tone is selected

Programming procedure

To control the ring frequency by system programming

A	DESCRIPTION	DATA
CM08	Dterm ringer volume control and sending of ring test tone . To ring the ringer, press feature key and dial 0 . To adjust the ringer volume, press up/down arrow buttons	(1) 262 (2) 0: Allow the ring test tone to be heard when feature key and 0 is pressed
CM15	Enable the frequency control by system data programming	(1) 390 (2) 0: By pressing Feature key and 3 1: As per CM 15 YY=83, 84, 93, CM 35 YY=34, 164 (Default)
B	Specify the ringer tone pattern of the Dterm for terminating calls from a station in the Service Restriction Class C assigned by CM 12 YY=07	<ul style="list-style-type: none"> • YY=83, 84, 93 (1) 00~15: Service Restriction Class C assigned by CM 12 YY=07 (2) See table below

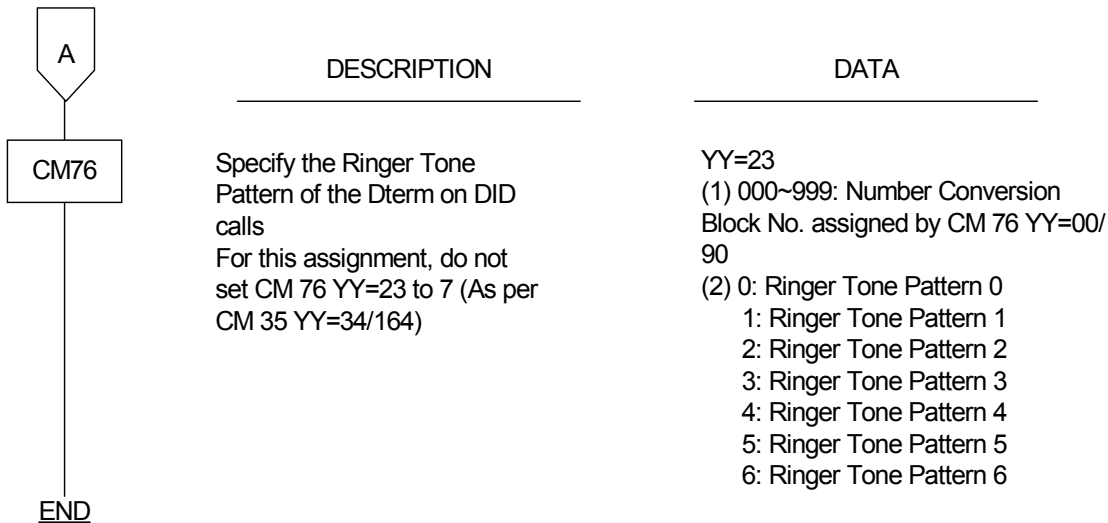
YY=83	YY=84	YY=93: 0	YY=93: 1 (default)
0	0	Ringer Tone Pattern 7	Ringer Tone Pattern 7
0	1 (default)	Ringer Tone Pattern 6	Ringer Tone Pattern 1
1 (default)	0	Ringer Tone Pattern 5	Ringer Tone Pattern 0
1 (default)	1 (default)	Ringer Tone Pattern 4	Ringer Tone Pattern 2



DESCRIPTION	DATA
Specify the Ringer Tone Pattern of the Dterm to each trunk route	YY=34, 164 (1) 00~63: Trunk Route No. (2) See the table below

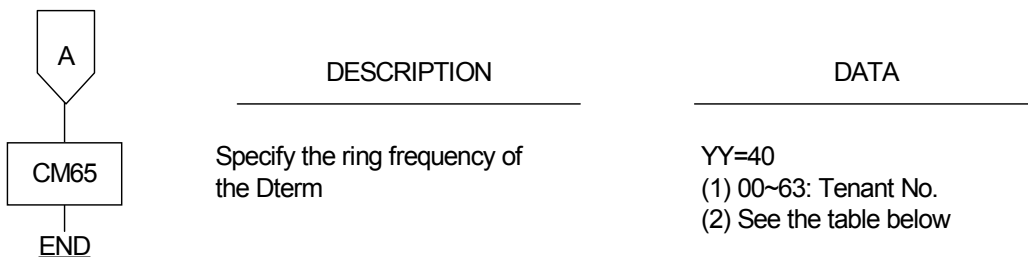
YY=34	YY=164: 0	YY=164: 1 (default)
0	Ringer Tone Pattern 3	Ringer Tone Pattern 0
1	Ringer Tone Pattern 6	Ringer Tone Pattern 1
2	Ringer Tone Pattern 5	Ringer Tone Pattern 2
3 (default)	Ringer Tone Pattern 4	Ringer Tone Pattern 7

To specify the Ringer Tone Pattern of the Dterm to each DID No.



DESCRIPTION	DATA
Specify the Ringer Tone Pattern of the Dterm on DID calls For this assignment, do not set CM 76 YY=23 to 7 (As per CM 35 YY=34/164)	YY=23 (1) 000~999: Number Conversion Block No. assigned by CM 76 YY=00/90 (2) 0: Ringer Tone Pattern 0 1: Ringer Tone Pattern 1 2: Ringer Tone Pattern 2 3: Ringer Tone Pattern 3 4: Ringer Tone Pattern 4 5: Ringer Tone Pattern 5 6: Ringer Tone Pattern 6

To set the ring frequency of the Dterm



DESCRIPTION	DATA
Specify the ring frequency of the Dterm	YY=40 (1) 00~63: Tenant No. (2) See the table below

Ringer Tone Pattern No.	YY=40: 0	YY=40: 1 (default)
0	Door Phone Ringer Tone	1100 + 1400 Hz / 16Hz Modulating signal
1	Ringer Tone 1	520 + 660 Hz / 8 Hz Modulating signal
2	Ringer Tone 2	660 + 760 Hz / 16 Hz Modulating signal
3	Ringer Tone 3	1100 Hz Envelope
4	Ringer Tone 4	540 Hz
5	Ringer Tone 5	1100 Hz
6	Not used	1400 + 1100 Hz
7	Not used	520 + 660 Hz / 16 Hz Modulating signal

Power saving mode

Description

This feature dims the level of the Dterm line key lamps slightly, after a predetermined time. This time is set in system data.

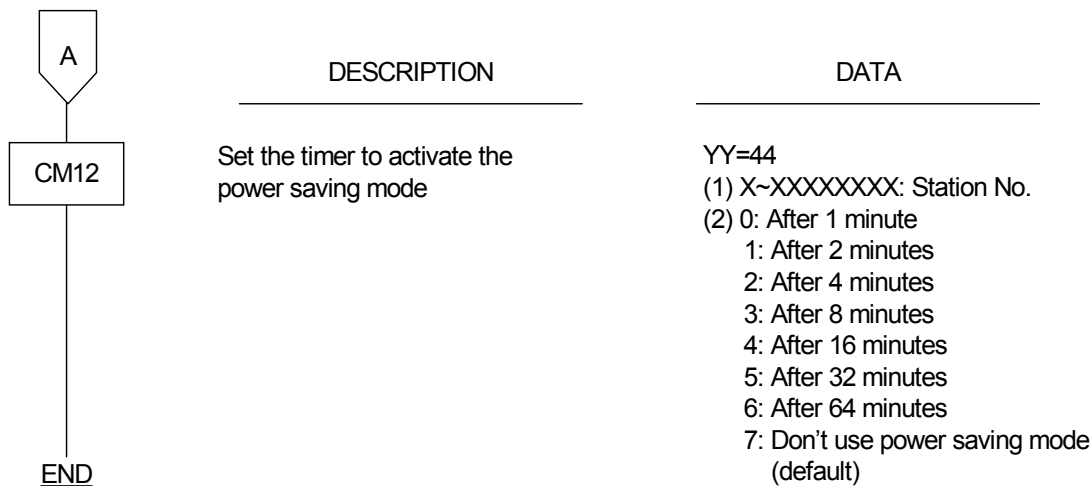
Service conditions

This feature is not available for DtermIP.

Operating procedure

There is no operating procedure.

Programming procedure



DtermIP Firmware Auto-upgrade

Description

Previously, the DtermIP / IP Adaptor firmware could only be updated one by one. This was both cumbersome and time consuming. This feature allows the firmware of the DtermIP or Dterm with IP Adaptor fitted to be upgraded under the following conditions:

- At a time designated by system data
- When the user logs in
- To a designated terminal

Service Conditions

General Conditions

1. IP-Terminal Firmware Auto-Upgrade service is available from Release 6
2. This service does not require any KEY ROM /KEY FD
3. For firmware upgrade, PC dedicated to FTP/TFTP server is required
4. Type of IP-terminal firmware that can be upgraded is as follows. The service is limited to the IP terminals with Peer-to-Peer connections. Terminals with IPELC connections are not supported.
5. **Maximum of four terminals can be upgraded at the same time regardless of the type of upgrade.**

Type of IP-Terminal Firmware	Default Directory Default File Name	Time for Upgrade per Terminal
Dterm Series E/Dterm75 IP Adapter unit with P2P firmware IP-bundled Dterm Series E with Dterm Series i appearance	/IPW2U/ramhptop.hex	About 3 minutes
Dterm85 -IPR / DtermIP Series i - IPR	/IPR/ramhp2pr.hex	?
IP-bundled Dterm85 / IP-bundled Dterm Series i	IPRU/ramhp2pw.out	

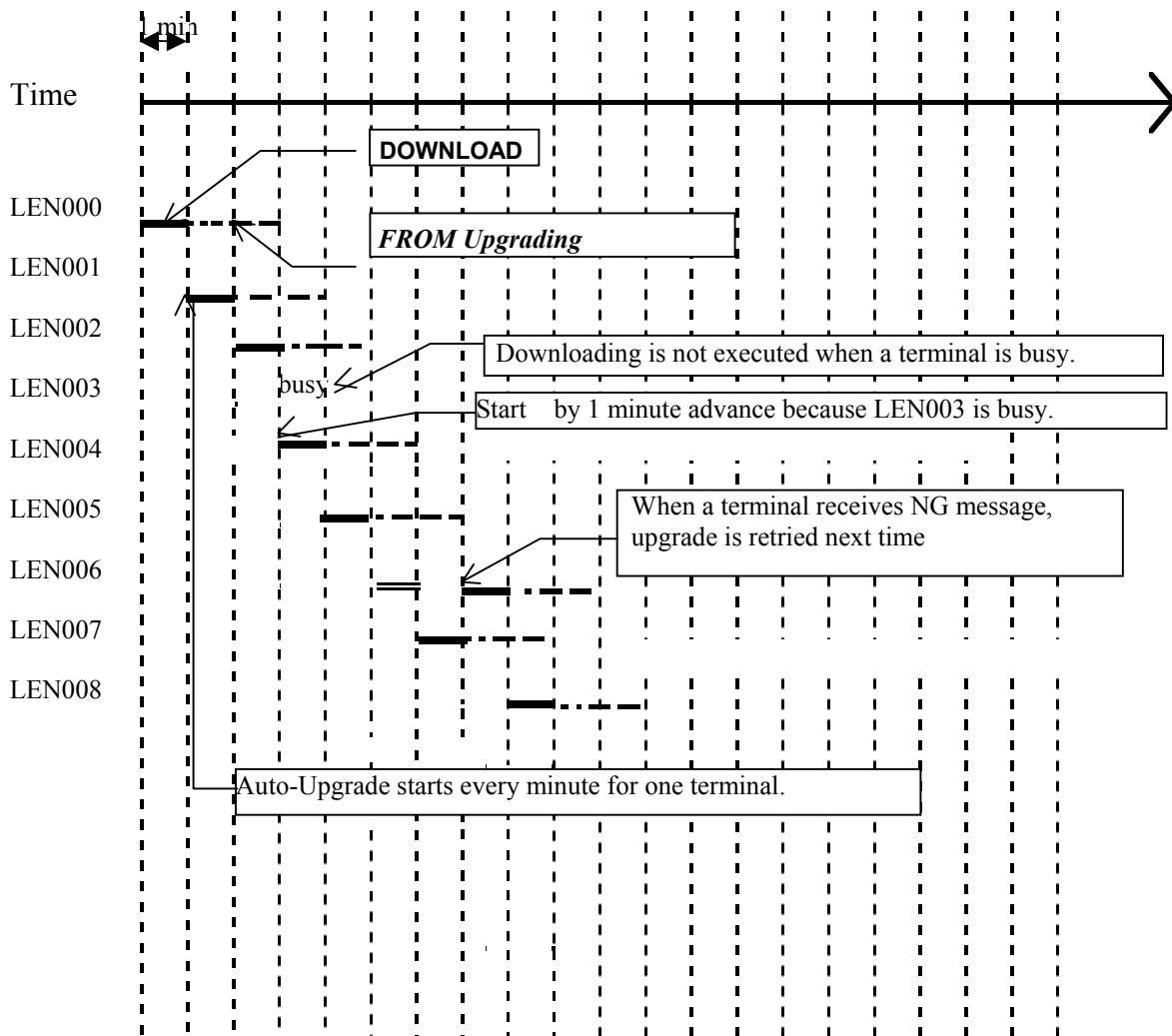
Login Name/Password	TFTP Server	FTP Server
Login Name	anonymous	Anonymous
Password	- (no password)	2000IPS

Conditions for Upgrade

1. Firmware version filed in FTP/TFTP server is assigned by the system data (CM0C, YY=00-07,1st=02).
When the latest firmware version is filed in the server, be sure to update the system data.
2. When the FTP server is used for upgrade, Login name, Password and Directory is required. As ASCII code has to be used for CM0C, YY=00-07,1st=06/07/08, the data assignment can only be done by MATWorX (in future). Alphanumeric code cannot be used. Currently the default data is displayed.
3. When the FTP server is used for upgrade but any of system data CM0C, YY=00-07,1st=06/07/08 is not assigned, login from the IP terminal with a login name "anonymous" and password "2000 IPS" (authentication by FTP server is required). Refer to Table above for the directory name.

Conditions for Auto-Upgrade at Appointed Time

1. Auto-Upgrade at Appointed Time service is available or not by the system data assignment (CM15, YYY=482) on a station class of service basis.
2. By the same command mentioned above, assign "Retry/Not retry" in upgrade failure status. Upgrade can be retried just one time. When upgrade results in failure two times in succession, IP-terminal operates with previous firmware.
3. When this service is carried out, neither Auto-Upgrade at Login Time nor Auto-Upgrade for Designated Terminal can be carried out.
4. PBX system checks the firmware version of each terminal starting from the terminal with the smallest LEN number, and carry out this service if required.
5. This service is carried out only for the idle terminals. This service is not (cannot be) carried out for the terminals in Logout or busy status.
6. The actual starting time of the Auto-Upgrade at Appointed Time may be varied with a range of +/-1 minute. Figure 3.3.1 shows Time Chart of Auto-Upgrade at Appointed Time. When 448 of IP- bundled Dterm Series i have to be upgraded, for example, it takes about 450 minutes to be completed, without retry.



Time Chart of Auto-Upgrade at Appointed Time

7. CMFA50>01/02 counts the number of terminals that are successfully upgraded and the number of terminals that result in upgrade failure only when the PBX sends the latest firmware download message to the terminals. If the terminals are busy or logged out, CMFA50>02 does not count the number of terminals in upgrade failure because the PBX does not send the download message to the terminals.
8. Auto-Upgrade at appointed time can be suspended by CMFA50>00:CCC (clear) during executing the Auto-Upgrade. However, you cannot suspend the upgrade of the terminal with "Downloading..." displayed.

Conditions for Auto-Upgrade at Login Time

1. Auto-Upgrade at Login Time service can be assigned or not on a system basis by CM0C, YY=90, 1st=02. **Note 1**
2. When this service is assigned, retry in upgrade failure status is not available.
3. When this service results in failure, IP-terminal with MAC authentication method operates with previous firmware and Date/Time is displayed on LCD. In case of IP-terminal with Login authentication method, Login screen is displayed on LCD, and the registration of the terminal followed by upgrade of firmware is repeated if 5 minutes have passed without login operation in the Login screen status (under study).

Conditions for Auto-Upgrade for Designated Terminals

1. Auto-Upgrade for Designated Terminals is assigned and carried out on My Line number basis.
2. This service is carried out only for idle terminals. This service is not (cannot be) carried out for the terminals in Logout status.
3. When this service is assigned, retry in upgrade failure status is not available.
4. The following table describes the command (CM0C YY=50) for Auto-Upgrade for Designated Terminals. Once the 2nd data=0 is entered, Upgrade starts and “OK” is displayed regardless of success or not. If the file in the FTP/TFTP server is the same version as that in the terminal, “OK” will be displayed but the Upgrade will not start.

CM0C YY=50						
1 st DATA	2 nd DATA read		2 nd DATA write		Display	
Station No.	XXYY	Current version of firmware XX: Integral No. YY: Decimal No.	0	Start Upgrade	OK	Start Upgrade (“OK” is displayed immediately regardless of success or not)
					DATA NOT FOUND	Data for FTP/TFTP server (CM0C YY=00-07) has not been assigned
					WAIT, BUSY NOW	During Upgrade of other terminals (Maximum four terminals can be upgraded at the same time.)
	DATA ERROR	During Logout/ Non-IP-terminal	-	To write is restricted	-	
WAIT, BUSY NOW	During Auto-Upgrade at appointed time/ During Upgrade/ Terminal busy					

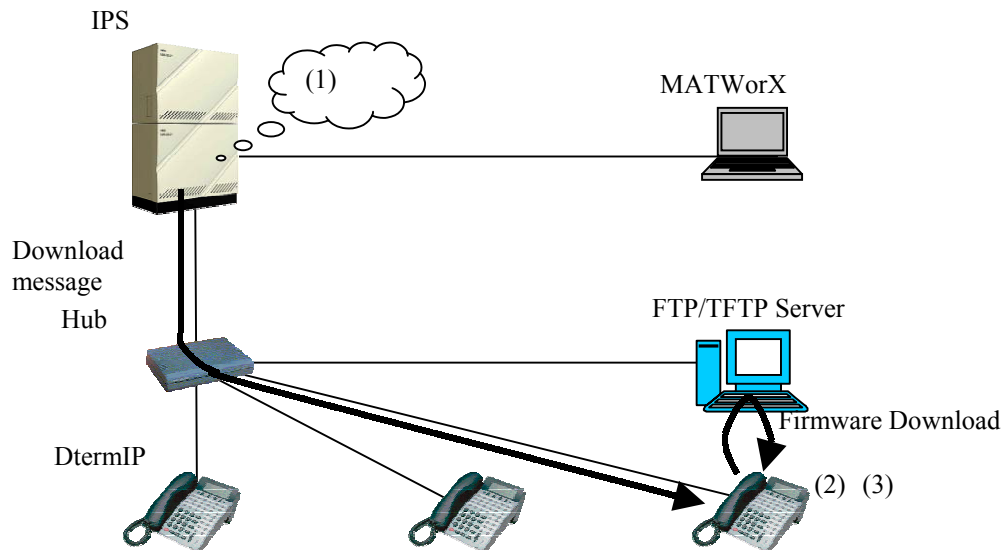
Note 1. The reason why Auto-Upgrade at Login Time is assigned on a system basis:

This is because the service is designed taking such situation into account that the service is used at the time of system installation, and because the service has to be carried out in such conditions that station number of terminals has not been registered. Thus, assignment on station class basis is impossible.

Operating Procedure

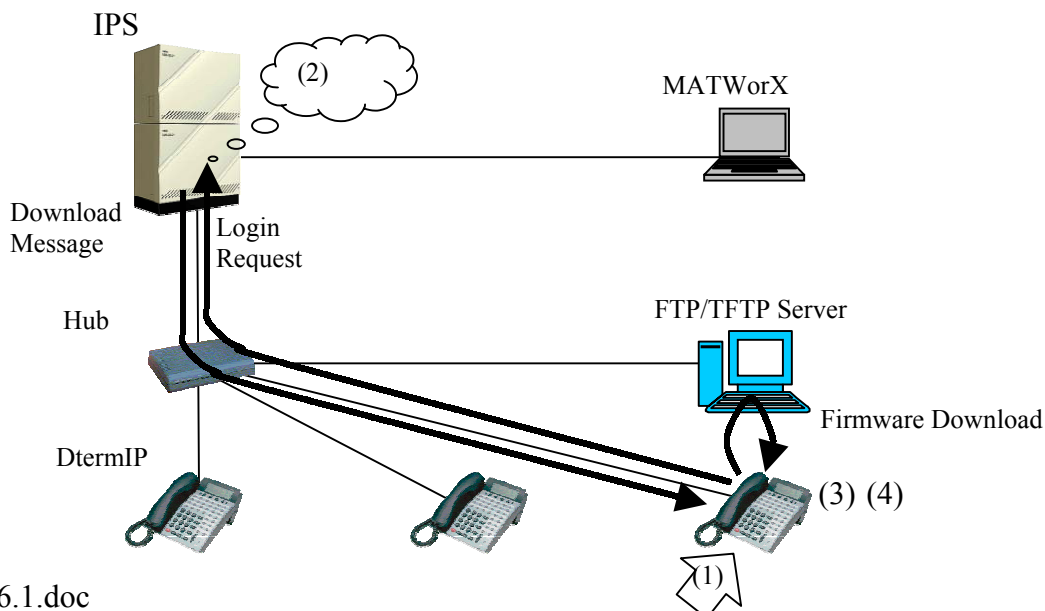
Auto-upgrade at appointed time

1. At appointed time assigned by CM 436 > 00 >, PBX system checks the software version of the IP-terminal connected to the PBX and sends the latest firmware download to the IP-terminal if required.
2. IP-terminal that receives the message starts the latest firmware download. During this time, "Downloading ---" is displayed on the Dterm LCD.
3. Download/upgrade is completed in approximately three minutes and IP-terminal is automatically reset. Then Date/Time is displayed on Dterm LCD of terminals.
4. In the same way, all IP-terminals that belong to the specific station classes are upgraded.



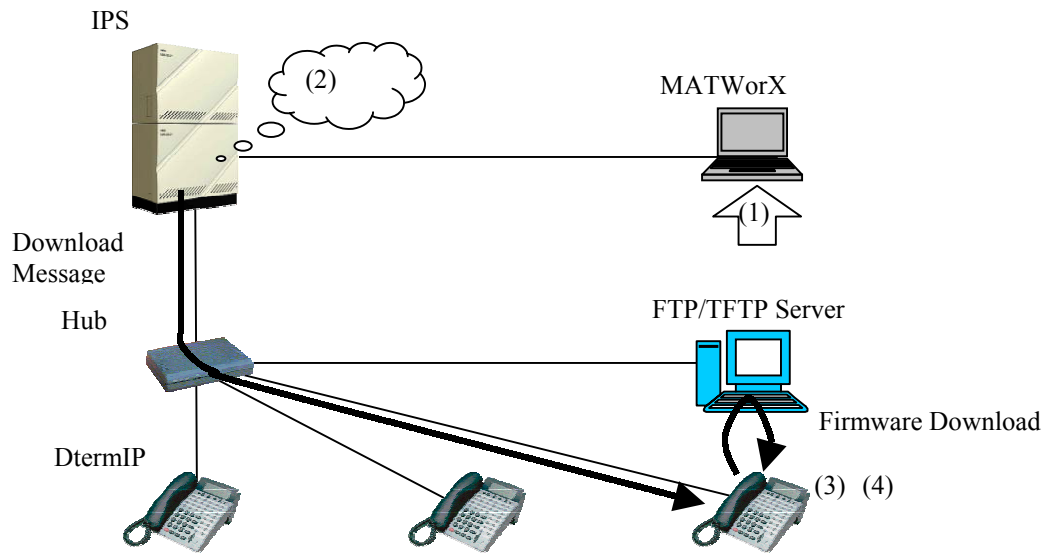
Auto-upgrade at Login time

1. After a Login operation from an IP-terminal, "Connecting ----" is displayed on the Dterm LCD. Shortly after this, Login screen is displayed.
2. PBX system checks the firmware version of the IP-terminal, which has just logged in to the PBX, and sends the latest firmware download to the IP-terminal if required.
3. "Downloading ---" is displayed on the LCD of the IP-terminal that receives the download message. IP-terminal starts the download/upgrade.
4. Download/upgrade is completed in approximately three minutes and IP-terminal is automatically reset. Login screen is displayed on the Dterm LCD.



Auto-upgrade for designated terminal

1. Designate the station number of IP-terminal that requires upgrade and enter upgrade command by MATWorX.
2. PBX system checks the firmware version of the IP-terminal and sends the latest firmware download to the IP-terminal if required.
3. "Downloading ---" is displayed on the LCD of the IP-terminal that receives the download message. IP-terminal starts the download/upgrade.
4. Download/upgrade is completed in approximately three minutes and IP-terminal is automatically reset. Login screen is displayed on the Dterm LCD.



Programming Procedure

External FTP/TFTP server related information

A	DESCRIPTION	DATA
CM0C	Upgrade Information Profile No. 00~07	<ul style="list-style-type: none"> • YY=00~07 (1) 00: Type of IP terminal to be upgraded (2) 00~05: Type <ul style="list-style-type: none"> 00: DtermIP (IP bundled Series E with Series i appearance) or Dterm Series E/ Dterm75 IP adaptor with P2P firmware 03: Dterm85-IPR / Dterm Series i 05: IP-bundled DTerm85 / IP bundled Dterm Series i NONE: Not specified (Default) (1) 01: Upgrade File SP No. (2) XXXX: SP No. (0000~9999) NONE: SP No. is ignored as an operating condition (Default) (1) 02: Upgrade File version (2) XXY: <ul style="list-style-type: none"> XX=Integral No. of file version (00~99) YY=Decimal No. of file version (00~99) NONE: Version is not specified, firmware is not upgraded (Default) (1) 04: Server IP address (2) aaabbbcccddd: =000~255 NONE: (Default) (1) 05: Server Protocol (2) 0: FTP <ul style="list-style-type: none"> 1: TFTP (Default) YY=90 (1) 00: SP No. check for upgrade (2) 0: Upgrade without conditions <ul style="list-style-type: none"> 1: Upgrade only when firmware SP No. of terminal corresponds to that filed in the server (Default) (1) 01: Firmware version check for upgrade (2) 0: Upgrade when firmware version of terminal and that filed in the server are different <ul style="list-style-type: none"> 1: Upgrade only when firmware version of terminal is older than that filed in the server (Default)
CM0C		
END		

Readout of IP-terminal related information

A	DESCRIPTION	DATA
CMFA	Readout of Firmware Version of IP-terminal (Read only)	<ul style="list-style-type: none"> • YY=00 (1) X~XXXXXXXX: Station number (2) XXXXYZZ: XXXX=SP No. YY=Integral No. of Firmware Version ZZ=Decimal No. of Firmware Version
END		

Readout of Type of IP-terminal

A	DESCRIPTION	DATA
CMFA	Readout of Type of IP-terminal	<ul style="list-style-type: none"> • YY=01 (1) X~XXXXXXXX: Station number (2) 00~05: Type 00: DtermIP (IP bundled Series E with Series i appearance) or Dterm Series E/ Dterm75 IP adaptor with P2P firmware 05: IP-bundled DTerm85 / IP bundled Dterm Series I FF: Non-IP-terminal NONE: Not in Login status (IP-terminal)
END		

Result of Auto-upgrade at appointed time

A	DESCRIPTION	DATA
CMFA	Result of Auto-upgrade at appointed time	<ul style="list-style-type: none"> • YY=50 (1) 00: Read/Clear the status of Auto-upgrade at appointed time (2) 00: Not started 01: Upgrading 10: Completed CCC: Suspend Auto-upgrade / Reset result of Auto-upgrade Note: When CCC is entered, the result of 1st data=01, 02 are also reset (1) 01: Read the number of terminals that are successfully upgraded (2) XXX: The number of terminals that are successfully upgraded (1) 02: Read the number of terminals that result in upgrade failure (2) XXX: The number of terminals that result in upgrade failure
END		

Auto-upgrade at appointed time

A	DESCRIPTION	DATA
CM43	Start time of firmware download/upgrade	<ul style="list-style-type: none"> • Y=6 (1) 00 (2) AAAABBCCDDEE: AAAA=year, BB=month, CC=day, DD=hour, EE=min NONE: Not upgrade (Default)
CM15	Assign/Not Assign Auto-upgrade at appointed time	<ul style="list-style-type: none"> • YYY=482 (1) 00~15: Service Restriction Class C (2) 0: Upgrade with 1 retry 1: Upgrade with no retry 2: Not upgrade (Default)
END		

Auto-upgrade at Login time

A	DESCRIPTION	DATA
CM0C	Assign/Not assign Auto-upgrade at Login time	<ul style="list-style-type: none"> • YY=90 (1) 02 (2) 0: Upgrade 1: Not upgrade (Default)
END		

Auto-upgrade for Designated terminal

A	DESCRIPTION	DATA
CM0C	Assign Auto-upgrade for designated terminal	<ul style="list-style-type: none"> • YY=50 (1) X~XXXXXXXX: Station number to be upgraded (2) 0: Upgrade (Start after station number is entered) Refer to service conditions for details.
END		

ENHANCED FEATURES

Whisper Page enhancement

Description

This enhancement allows for the station that has set Call Forward-Busy/All or Do Not Disturb to receive a Whisper Page call when busy in conversation.

Service Conditions

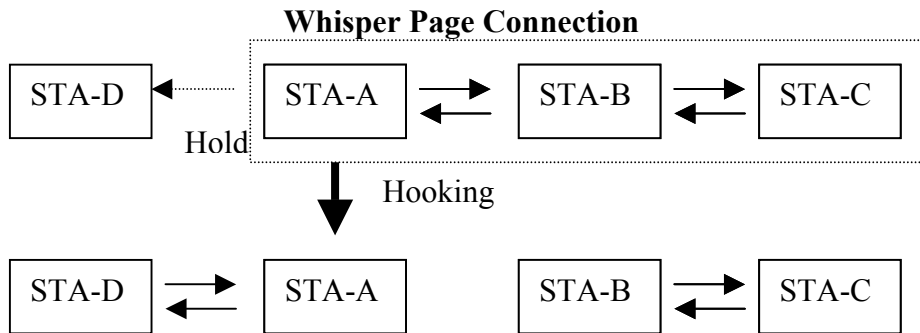
Current Operation

Condition of Service Setting

- (1) The station user can set only one station that can interrupt by Whisper Page. If the station user tries to override to the other station, the station user will hear Reorder Tone.
- (2) The availability of this service depends on the Service Restriction Class of calling and called party.
- (3) This service requires 3-party conference trunk therefore maximum 16 stations can use Whisper Page at the same time in system. When 16 stations are using Whisper Page, and 17th station is going to activate this service, the Reorder Tone is sent to that station.
- (4) The Reorder Tone is sent to the calling party when he/she activates Whisper Page to the station that is setting privacy.
- (5) This service is not available from/to Attendant Console.
- (6) The Reorder Tone is sent to the calling party when he/she activates Whisper Page to the station that is in conversation with Attendant Console.
- (7) This service is available to the station that is in conversation with another station or trunk.
- (8) This service is not available when the called party has set the Camp-on/Call Waiting.

Operating Conditions

- (1) When the calling party interrupts to the called party by Whisper Page, the CRBT tone is sent.
- (2) After activating Whisper Page, the called party can put on hold the original call by Answer key and can talk with calling party privately.
- (3) After the situation above (2), the processing is same as Call Waiting. When the called station presses Answer key/Hooking again, the called station can be re-connected with original party and the calling station is put on hold.
- (4) After activating Whisper Page, when the calling station hangs-on, the call is maintained with the called party and the original party.
- (5) After activating Whisper Page, when the called party hangs-on, the original call is released, the Ring Back Tone is sent to the calling party, and the Ringing is sent to called party.
- (6) After activating Whisper Page, when the original party hangs-on, the call is maintained with the calling party and the called party.
- (7) After activating Whisper Page, when calling party (STA-A) makes hooking, the calling party (STA-A) is connected to the party (STA-D) that is held on the calling party's station. The connection of called party (STA-B) and original party (STA-C) is maintained. See diagram on following page.



(8) The station number (name) in conversation is displayed on LCD of the calling station.

Enhancement Condition

1. This service is available from R6 software (SC-3117 IPS BSC PROG-F1 1.06).
2. The following operating procedure is added. The current operating procedure can be used simultaneously. The same operating procedure is available for sub-line of a Dterm.
Off Hook→Receive Dial Tone→Dial Feature Access Code/Press Function Key→ Hear Special Dial Tone→Dial Station Number
3. Whisper Page is used when the called party is in busy status. If the called party is idle, the ringing is sent to the called station normally.
4. When the called party has set Call Forwarding-All Calls/Do Not Disturb and is in busy status, Whisper Page is available. If the called station is idle, the Call Forwarding-All Calls/Do Not Disturb is activated.
5. The other conditions are the same as current Whisper Page service.

Operating Procedure

To Whisper Page a station that has Call Forward-Busy/All or Do Not Disturb set and is in busy condition.

- Station goes off-hook or presses SPKR key of Dterm and receives Dial Tone
- Station dials Whisper Page Feature access code or presses Function key of Dterm
- Station receives Special Dial Tone
- Station dials station number
- Whisper Page is activated

Programming

A	DESCRIPTION	DATA
CM20	Numbering Plan (Access code)	<ul style="list-style-type: none"> • Y=0~3 (1) X~XXXX: Access code (2) A188: Whisper Page
CM90	Dterm programmable feature key	<ul style="list-style-type: none"> • YY=00 (1) X~XXXXXXXX,YY: My-line number, Key number (2) F0A88: Whisper Page
CM15	Service Restriction Class	<ul style="list-style-type: none"> • YY=111 (1) 00~15: Service Restriction Class A (2) 0: Restricted 1: Allowed (Default)
B		

	DESCRIPTION	DATA
	Service Restriction Class	<ul style="list-style-type: none"> • YY=112 (Station that uses Whisper page) (1) 00~15: Service Restriction Class A (2) 0: Restricted <ul style="list-style-type: none"> 1: Allowed (Default)
	Check method when using Dterm Multi-line	<ul style="list-style-type: none"> (1) 268 (2) 0: Busy (station base) <ul style="list-style-type: none"> 1: Ringing (Extension base) (Default)
<u>END</u>		

LIMITATIONS

- Currently, a limitation exists with the IPS system concerning Virtual IP Trunks and Link Reconstitution.
 I.e. When a call made across Virtual IP Trunks, is transferred back to the same system that originated the call, the CCIS trunks may appear to not have reconstituted. In actual fact, the speech portion of the call has reconstituted, but the trunks are held up for the duration of the call with minimal bandwidth utilisation for signalling/control purposes. The trunks will release when the call is released. NEC Japan, recognise this problem, and are working on a solution. A work around can be to program more Virtual IP Trunks than originally required and limit the bandwidth used on the CCIS link using Bandwidth Control feature.