

Bulletin No:27Date:14th Oct 2004Region:EMEA & APAC

### **IP Office and DECT integration**

Avaya is pleased to announce the General Availability of IP Office DECT Integration version 2.0.12 Software. Integration enhances the portable handset with intuitive internal and call presentation activity.

The following information should be adhered to when connecting IP Office and DCU 500/1500 to utilise IP Office DECT integration.

The DECT Integration is license controlled from the IP Office. Browsing the Installation CD and running the install program from within the DECT folder will install the DECT integration software.

IP Office DECT Integration requires the following IPO and KIRK minimum software levels

- > DCU/KIRK 1500 CCFP PCS 6a+ hardware
- > DCU/KIRK 500 CCFP PCS 2+ hardware
- > DCU/KIRK 1500 CCFP version 6 software
- DCU/KIRK 500 CCFP 1N+ software
- > Avaya Branded KIRK 3040 PP Handsets 4i+ software
- Base Station/RFP PCS 3+ software
- ► KIRK CCFP P.I.N.
- ➢ IP Office 2.1 (24)+ software
- > IP Office DECT License
- ➢ IP Office DECTExe V2.012
- ➢ IP Office DECTCfg V2.03+

IP Office DECT Integration offers the following enhancements to the Mobile 'Slave' portable DECT handset

- CLI Presentation
- Internal Naming Presentation
- Internal and External Directory
- Twinning via a Master DT/DS handset
- Call Waiting Indication \*
- Phone Manager Interaction \*

\* Slave DECT Call Waiting or Phone Manager BLF operation is an either/or option. On install of the DECT integration software, **the default activity depends on the call waiting settings of the Master or Slave handset.** 

If call waiting is set to off, for both the master and slave, then Call Waiting (camp-on) is disabled to the slave DECT handset when busy and receiving a new call to the Master twin, therefore supporting BLF updates.

A change in the registry setting will allow permanent Call Waiting operation, but in turn will disable the BLF updating real time to its Master twin.

Please see page 3 in this document configuring the registry set-up.

### IP Office

Analogue ports are utilised to support ringing and speech presentation from the IP Office to the DECT DCU/CCFP. Programming the User and Extension fields should incorporate the following.

# The IP Office Extn Tab

The Extn field of any Analogue port supporting the DECT handset must have the Caller Display Type field set to <u>Off</u>. When set to On (Default) the call set up time via the DCU base station signalling is delayed due to the IP Office trying to present the calling display identity on analogue. *Note:* - CLI/naming presentation is a function of the DECT Integration software.

Ext	ension 8038		
Extn			
Exte	nsion ID	771	
Exte	nsion	8038	
Calle	r Display Type	Off	
Eq	uipment Classification	On	
	0 Quiet Headset	UK20	
0	Paging Speaker		Unit - 10ms
6	Standard Telephone	FSKA	Unit - 10ms
	·		,

### IP Office User – Telephony

The Busy Wrap Up timer should be changed from default 2 seconds to 4 seconds on both the Master and Slave, or on any individual User supporting a DECT handset.

The Call Waiting feature must be disabled to the Master and Slave when utilising DECT integration supporting BLF updates to Master handset operation. (Default DECT installation)

Telephony settings must have the Master and Slave Call Waiting checked ON for the call-waiting feature to operate to the Slave DECT handset when twinning has been enabled.

If Call Waiting is checked ON in the Telephony tab, IP Office DECT will work in call waiting operational mode. If call waiting is checked off it will work in BLF copy mode, unless the registry is changed and made to work in call waiting mode regardless of Telephony tab.

### Server DECT Integration Registry Changing

Changing the Registry settings to allow Call Waiting to a Slave twinned DECT handset will disable the real time Master handset BLF update. The CTI coding can only support either/or functionality and is a limitation on the DECT integration service.

To change the Registry to support Call Waiting to a Slave please do the following

- Stop DECT Service
- > From the command line type **regedit**
- Within the registry tree navigate to HKEY\_LOCAL\_MACHINE\SOFTWARE\Avaya\IP400\DECT
- Define a new DWORD Value Slave CallWaiting and set it to 1 Hexadecimal if requiring Call Waiting on busy Slave when Master called.
- Once defined, set the value to 0 to support BLF updates to the Master twin.

Restart the DECT Service to initialise settings.

Please see Registry Entry screenshot on page 4.

1y Computer	Name	Туре	Data
HKEY_CLASSES_ROOT	(Default)	REG_SZ	(value not set)
HKEY_CURRENT_USER	ab)CSVHands	ets REG_SZ	201
	Directory (	update period REG_DW	/ORD 0x00000018 (24)
	First ext n	umber REG DW	/ORD 0x000000c9 (201)
SAM	Handsets	REG DW	ORD 0x00000000 (0)
	E DiHost	REG SZ	192,168,42,1
SOFTWARE	1 Language	REG DW	ORD 0x0000000 (0)
	abPassword	REG SZ	.t.,=,~=,
	Serial port	REG DW	ORD 0x0000001(1)
	Slave Call	Vaiting REG DW	/ORD 0x0000001(1)
	ab) Twins	REG SZ	201-203
		ned_se	201 200
	··		
		Edit DWORD Val	lue ?
CallStatus		100220	
		Value name:	
- Generic		Slave CallWaiting	
TSPI		100 million (100 m	
🛄 Upgrade Wizard		value data:	Base
🗄 🧰 KeyServ		1	💿 Hexadecimal
😟 🧰 Borland		5.	O Decimal
😟 🧰 C07ft5Y			100 F.P.
🕀 🤖 Classes			OK Cancel
🗄 🧰 Clients			
🕀 🛅 Compuware	~	2	
🗰 🕉			

# User - Short Codes

The DECT slave handset associated with twinning does not support Log-On, Log-Off activity. A short code to disable the DECT handset to Log Out should be added to all DECT Slave users. This is a precautionary short code. If a DECT user operational with twinning to a master should enter this function then the DECT service will require restarting.

★ Shortcode *36	×
Short Code	*36
Telephone Number	
Line Group ID	0
Feature	Busy
Locale	
Force Account Code	
	OK <u>C</u> ancel <u>H</u> elp

# IP Office Master/Slave Voice Mail Access

IP Office Master Slave integrated Voice Mail access programming can be found on the toolkit 2.1 CD. This can be located from *Contents/System Installation/Compact DECT Installation/IP Office Integration/DECT Configuration/ Voicemail Pickup.* 

# DECT CCFP Programming

Ensure that the DECT DCU/CCFP has been correctly installed prior to starting the IP Office DECT integration Service.

The DCU/CCFP must be set to Exchange Generated Ringing. This is a system wide function. For typical settings see below.

Radio coverage and overlap of Base Stations MUST be measured to ensure correct operation and handover functionality. Base Stations must be software PCS 3+.

Prior to starting the IP Office DECT Service, check the diagnostics of the CCFP base-station activity for any busy bits. Any Base-Station showing an excessive busybit may require additional coverage from an alternative base station.

Correct Twinning operation must have the same CCFP Local number to its corresponding IP Office analogue user number.

DCU/CCFP does <u>NOT</u> support Collective group calling (Ring Mode = Group). Any Twinning or analogue activity supporting DECT handsets must use an alternative group calling operation from the IP Office.

Options Status Message L	avel Help	-
MSF Status   Registratio	CCFP Setup	
Global CCFP Setup		
Exchange Code	Binging Mode	Date Time [dd_mm] [bb_mm]
	Exchange=E	29 09 10 57 Set Date/time
Individual IWU Card Setup		-IWU Software Edition
Choose IWU card:		10
Dial Mode		
DTMF 90ms=2	Ringing Frequency	Pause Time
C Pulse 40/60ms=1	▼ 20-60Hz=2	✓ 2s=6=9
Recall Mode		
Loop Break 100ms=	1 Dial Tone Filter Freque	ency Suppression
C Earth Pulse 400ms=	315-545Hz=2	Office (Att. 12dB)=0C
		Save IWU Data Cancel Edits

### DCU/CCFP 1500 and 500 P.I.N. (5a+ software)

The DCU requires a P.I.N. from KIRK to support full MSF (Message Service Function) messaging. By default the license supports 2 full MSF channels on DAB/IWU card 0 slots 0-1.

The default KIRK P.I.N. drives the first two programmed handsets display showing the call waiting details, however IPO DECT Integration will offer the Call Waiting tone to other busy DECT handset. KIRK full P.I.N. number status allows the display of all portable handsets to be updated with the Call Waiting details.

P.I.N. is mandatory for base station and handset functionality from version 5a onwards.

# **DECT Non Supported Functionality**

- > Collective Group Calling on ANY DECT handsets.
- Profile 2 selected on a DECT handset with IP Office DECT Integration operational
- VoiceMail Ring back alerting Slave DECT handset when Master has gone off hook /on hook after initial Voice Mail alert.
- DECT Slave Log On / Log Off operational Activity
- Master/Slave ACD Agent twinning operation and CCC reporting.
- Twinning has not been tested on KIRK 500 Infineon Platform PCS 7 Hardware

# Comments and Observations

KIRK has introduced 5b Flash software for CCFP 1500 units. All CCFP 1500 units have been shipped from KIRK with this build of software from Week 27, 2004.

CCFP 1500 units should be upgraded to version 6 software supporting IPO DECT integration.

Group calling activity does not support Collective groups through DECT DCU/CCFP.

Twinned Master and Slave and individual DECT supported handsets should have a minimum ring timeout set to 15 seconds from the settings available in the IP Office.

Changing a name associated to the DECT POT handset on the IP Office 'User' details will require the DECT service to be restarted.

# DECT Integration Known Issues on Release

- The maximum password length on the host IP Office must be no greater than 12 characters when configuring IPO DECT Integration.
- The Ringing time before diverting to Voicemail does not follow the timer set on either the DECT Master or Slave, diverting being slightly delayed than the timer set.

# Version 6 Software KIRK1500 DCU/CCFP

Incorrect CLI presentation could occur to a DECT handset when a new call is presented to a handset still in the clearing process within DCU/CCFP unit.

This is resolved with an upgrade to version 6 KIRK 1500 operation DCU/CCFP software and a modification of the default KIRK 1500 settings.

A release of software for the KIRK 500 COMPACT DECT resolving this issue will be available on the 22<sup>nd</sup> October 2004.

### Upgrade Process to version 6 software

Upgrading the KIRK 1500 DCU/CCFP to version 6 software can be administered through the DCU/CCFP windows interface.

The DECT control unit MUST be hardware 6a+ capable of supporting the 'Big Flash' software.

The PIN number must be obtained from KIRK Telecom by supplying to KIRK the individual DCU/CCFP 'ARI' number, unique to each DCU/CCFP unit. If the DCU/CCFP has been shipped with the PIN then this will be seen on System PIN Label attached to the DCU/CCFP unit.

The DECT Integration service must be stopped.

Copy the Flash.ktb file into the working directory C:\Program Files\CCFP Administration.

☐ Allow :	Subscription	Backup EEPROM Data to PC
Block Ne	ew Calls Allow New Calls	Restore EEPROM Data to CCFP
Retreive	Default IWU Settings	Clear Master EEprom
IWU	Card © Default Codes	Transfer Flash Code to CCFP
AI	O Uptional Lodes	Change Password Restart System
Se	t IWU Card to Default settings	Enter Pin Code   Pin Code Status

Open the DCU/CCFP Windows administration. Click on Transfer Flash and select the Flash.ktb file

Select Flash.ktb and click open.

Open					<u>? ×</u>
Look jn:	CCFP Admini	stration 8.04	-	+ 🗈 📸 🖬 -	
My Recent Documents Desktop	System F6_06_10.ktb				
My Documents					
My Computer					
Mu Network	File name:	flash kth		<b>_</b>	Open
Places	Files of type:	ktb		-	Cancel

The transfer takes approximately 15 minutes, indicated by the progress bar. The DECT system will automatically restart when transfer completes.

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# Modification of the Default KIRK 1500 Settings.

Stop the DECT Integration service. Using the SIO.exe contact the KIRK DCU/CCFP 1500 unit.



Press Alt key and Home key together, when contacting the unit with SIO.exe The unit will show 'Entering Command Mode'

C:\DOCUME~1\ADMINI~1\Desktop\sio4\SIO.EXE	
Status field	
Entering Command mode	
AF1: SMLREAD AF2: SMLWRITE AF3: AF6: AF7: AF8:	AF4: AF5: AF9: RESTART AF10:LOADCODE

C:\DOCUME~1\ADMINI~1\Desktop\sio4	\SIO.EXE
Flash program part number 133	300110. Flash Program Edition PCS05B_
+ Command+ Syntax	Description
i Load i L BiA	Load into Base Stations / ARI
Connect   C	Set up Switch in Connect Mode
Message   M	Set up Switch in Message Mode
I IWU I I 0117	Set Up to IWU
i Heap i H	Show Heap Status
¦ Heap view ¦ W	Show Heap allocation
Clear   E	Erases EEPROM Data
Fill FASP	Fill EEPROM A=ADDR, S=SIZE, P=Pattern (Hex)
Insert CD   B[LRPN][DELAY]	Insert Cable Delay (Tick * 96.5 ns)(Dec.)
EEPROM PAS	Read block in EEPROM A=ADDR(Hex), S=SIZE(Dec.)
Debug IN	Enter debug mode
Ciphering   K 0 1	Disable(0) / Enable(1) ciphering
Secur.Conf.   A [val]	Security Config. (Val is 2 hex digits)
Diagnostic   T	Diagnostic tool
Block   X 011	Block(0) / Enable(1) for further calls
Disconnect  D I C	Disconnect call, I=IWU card, C=Channel.
Restart   S	Restart system
Uiew PCS's  U	Display the PCS for all RFP's
Ring delay! Y [val]	Ring delay Delay ( in units of 20 millisec.)
Baudrate   Z [val]	RS232 baudrate (val=1 => 9600 bps else 19200)
CCFP role   R[0 1 2 3]	Ø=Solo, 1=Master, 2=Slave, 3=SoloNoTraffic.

> Press '**Return**' to refresh the default Command Mode options.

- > Enter **Y80** and then press the return key.
- > Check by pressing 'Y' and press the return key.
- > Press **F1** key to exit Command Mode.
- > Press F10 to exit SIO from the DCU/CCFP unit.
- Restart the DECT Integration service.

### **DCU/CCFP Failed Upgrade Process**

If the upgrade process fails then the DCU/CCFP unit can be reloaded with the Flash.ktb file through the SIO.exe

Copy the SIO.exe file into the working directory of C:\Program Files\CCFP Administration

Click on SIO to administer the DCU/CCFP.

C:\PROGRA~1\CCFPAD	0~1.04\5IO.EXE	
*** ERROR: UNKNOWN ************************************	COMMAND TAXAXX BOOT COMMAND INTERPRETER XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
+ Command syntax LOAD FIA READ N WRITE N ERASE PIN FILL RESTART MEM a s ROLE	HW PCS: 7 Description	
LOAD F Enter filename:FLA Loading code 13: Record: 6c/dc \	SH.KTB 57:43	

#### Enter the command LOAD F

The flash file will be located from the working directory and will automatically start loading. This process will take approximately 15 minutes.

The DCU/CCFP will automatically restart when finished.

Close the SIO.exe by pressing F10 and then reopen the windows interface to administer the unit. Full administration can be done via SIO.exe if you have previous experience of the SIO operation.

# Software Download

All required IPO DECT files and software are available from <u>ftp.avaya.com</u> entering the log-in username **ipoffice** password being **ipotier4** 

Issued by: Avaya SMBS New Product Introduction Tel: +44 (0) 1707 392200 Fax: +44 (0) 1707 376933 Email: gssfsg@avaya.com Website: <u>http://www.avaya.com/businesspartner</u>