

# **SV8100 – IP DECT**

Pre-Sales Support

UNIVERGE SV8100

Release 4

Doc. Version 4.01


- Promotion
- DECT handsets
- Access Points
- Radio Planning
- DAP Manager
- IP DECT in SV8100



bundles



**Promotions Overview**

**UNIVERGE SV8000 DECT Handset bundels**  
Attractively Priced G355 IP DECT Handset Bundle ?  
Attractively Priced G955 IP DECT Handset Bundle including memory cards and bluetooth ?  


**Customer Contact**  
Business ConneCT Starter Package ?

**System Management**  
MA4000 Expense Management (MAS9) Trial Package ?

## IP DECT Bundles of 20 handsets plus some accessories

Promotional Packages

DECT Handset Packages

1

?

G355 Handset Package (NEC)

1|

?

G955 Handset Package (NEC)

System Reports		
Quote		
Material Specification		
Configuration Differences		
Obsol		
Qty	Prod.Code	Description
<b>SV8000 - iSPBX</b>		
1	9922 260 00645	G955 Handset Package (NEC)
20	9600 015 61000	G955 DECT Handset - NEC
20	9600 015 72000	G355/955 Desktop Charger NEC
20	9600 015 73000	G355/955 A.C. Adapter - INT
1	9600 015 79000	G355/955 Belt Clip set
2	9600 015 78000	G955/1755 Bluetooth Module
2	9600 017 76000	G955/1755 Bluetooth Headset
4	9600 017 63000	G355/955/1755 Memocard - 5 pcs/set
1	9922 260 00644	G355 Handset Package (NEC)
20	9600 015 58000	G355 DECT Handset - NEC
20	9600 015 72000	G355/955 Desktop Charger NEC
20	9600 015 73000	G355/955 A.C. Adapter - INT
4	9600 017 63000	G355/955/1755 Memocard - 5 pcs/set

### 10 Reasons to sell IP DECT

#### 1. Proven and reliable

Business Mobility IP DECT builds on proven and mature technology

#### 2. It's Scalable

IP DECT is scalable for 1 to 256 Access Points, for projects even to 750 Access Points

#### 3. It's Affordable

It is very attractively priced with a very easy licensing structure

#### 4. It's Integrated

It offers all the relevant features users expect from any business telephone

#### 5. Easy deployment and management

IP DECT encryption and security are standard. It also comes with powerful management tools and the handset software can be downloaded “through the air”

### 6. Rich choice of terminals

For every user-profile a specific handset and a choice of features and applications

### 7. Take handset to other locations

With IP DECT the handset will also subscribe automatically in other locations allowing users to stay reachable under the same number

### 8. Makes Unified Communications a reality

All IP DECT handsets share the same central directory which is always up-to-date. The directory even shows the presence of the required person

### 9. Powerful messaging to alarm and alert staff

Alarms and text messages will alert staff, helping them to respond immediately to calamities

### 10. Protects investment

IP DECT uses open standards such as the open messaging interface, the SIP protocols, the GAP compatibility for the handsets and many more



Basic	Office	Hi-office	Industry	Healthcare Industry	Healthcare Hospitality
<b>C124</b>	<b>G355</b>	<b>G955</b>	<b>I600</b> (EOL 2009Q3)	<b>I755</b>	<b>M155</b>

C124



DECT	Handset I600	Handset C124	Handset G355
Handsets			
	<input type="text" value="10"/>	<input type="text" value="2"/>	Equipped
			Sets Only
Documentation			
	<input type="text" value="0"/>		C124 User Guide Int
Accessories			
	<input type="text" value="0"/>		Belt Clips (10 pieces)



# DECT handsets

G355, G955



et I600	Handset C124	Handset G355	Handset
20	?	G355 Handset Package (NEC)	
400	?	Equipped	
0	?	Sets Only	
400	?	Desktop Charger	
0	?	Charging Rack Kit	
0	?	Wired Headset	
0	?	Extra Belt Clip Sets	
400	?	Memory Card (20 Pack)	
0	?	Horizontal Pouch	
0	?	Vertical Pouch	
0	?	Rugged Holder	
0	?	Battery Pack	
0	?	Download Tool	

et I600	Handset C124	Handset G355	Handset G955
10	?	G955 Handset Package (NEC)	
200	?	Equipped	
0	?	Sets Only	
200	?	Desktop Charger	
0	?	Charging Rack Kit	
0	?	Wired Headset	
20	?	Basic Bluetooth Headset	
10	?	Extra Belt Clip Sets	
200	?	Memory Card (20 Pack)	
20	?	Bluetooth Module	
0	?	Horizontal Pouch	
0	?	Vertical Pouch	
0	?	Rugged Holder	
0	?	Battery Pack	
0	?	Download Tool	



# DECT handsets

G355, G955

I755 replaces I600

Based on the G955, with the following extra's:

- Protection Class IP54 (EN 60 529)
- Increased drop, force and vibration resistant
- Improved keypad with distinctive keys
- Large speaker for quality hands free
- Man Down detection
- Two antennas enabling fast diversity
- Two Color schemes, one brand NEC

Battery Pack:

- Inductive charging
- Intelligent: always correct indication of battery power level
- Easy replaceable



**I755**



Handset G355	Handset G955	Handset I755
20	?	Standard Equipped
5	?	Standard Sets Only
2	?	Dark Equipped
1	?	Dark Sets Only
25	?	Standard Desktop Charger
3	?	Dark Desktop Charger
0	?	Basic Bluetooth Headset
0	?	Standard Belt Clip Set
0	?	Horizontal Pouch
0	?	Standard Battery Pack
0	?	Dark Battery Pack

# DECT handsets

I755



**Office version**



**Industry version**



## M155 DECT messaging watch

- Hands free calls (only)
- LRMS text messaging
- 5 selectable languages
- Talk time 8 hours
- Standby time 100 hours



### Used for:

- Care
- Cure
- Hospitality
- Cruise Lines



- Normal, urgent, emergency messages
- Dialing of pre-programmed numbers
- 42 characters on 3 lines or combined 2/1line display
- Auto registration, based on unique AC code
- Positioning for healthcare, Hospitality, elderly homes, etc.
- IP terminal license in SV8100 required

### M155 DECT messaging watch

- LCD with 1 icon line (status) and 3 text lines of which the top 2 lines can be combined to 1 line with characters of double height
- Info shown on display depends on operational mode
- Two keys for operation: upper and lower key

20	?	M155 Equipped
5	?	M155 Sets Only
10	?	M155v Equipped
2	?	M155v Sets Only
37	?	Desktop Charger



### M155 in charger

- Call number stored in local telephone book
- Call SOS number
- Call number received as call back info in text msg
- Answer / reject incoming call
- Send pre-defined / SOS msg
- Receive msg + reply

### SV8100 – IP DECT manuals

- User manuals
- Quick reference manuals
- Customer engineer manual
- DECT site survey

#### Package Contents:

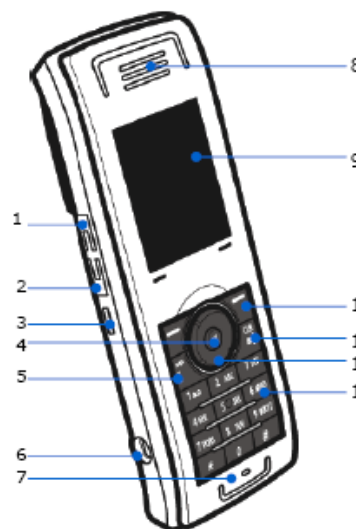
handset      2 belt clips  
battery      removing tool

#### Top row icons:

- Signal strength
- Message waiting
- Voice mail waiting
- Caller filter active
- Bluetooth active
- Keys locked
- Missed calls
- Silent mode
- Battery indication

#### Main menu items:

- |           |  |  |             |
|-----------|--|--|-------------|
| Messaging |  |  | Calls       |
| Contacts  |  |  | Calendar    |
| Settings  |  |  | Accessories |



1. Volume up key
2. Volume down key
3. SOS key
4. OK key
5. Off hook/enquiry (green phone key)
6. Headset jack connector
7. Microphone
8. Earpiece
9. Color display
10. Soft keys
11. On hook/clear/power (red phone key)
12. Navigational keys (Up/Right/Down/Left Nav. Key)
13. Keypad (0-9, \*, #)

keys 1-9: long press for speed dialling (if programmed).

\*: used in text editor to enter a star symbol and special characters, or to insert pause in dial mode.

0: used in text editor to enter space and special characters.

#: used in text editor to capitalize letters and type numbers. Long press activates the silent mode.



## Accessories



### Prophix Example

#### SV8100 with IP DECT

1. 20x M155
2. 20x I755 standard
3. 20x I755 dark
4. 20x M155 vibrator
5. 20x C124
6. 20x I600
7. 20x G955
8. 20x G355

Extension Interfaces	Trunk Interfaces	Networking Interfaces	System
Extension Interfaces			
Calculated	Additional		
0	0	?	Analogue Extension Interfaces
0	0	?	Digital Extension Interfaces
0	0	?	IP Extension Interfaces
0	0	?	SIP (3rd party IP) Extension Interfaces
160		?	NEC SIP Interfaces

Quote	Material Specification	Configuration Differences
Qty	Description	Prod.Code
☐	<b>iSPBX</b>	
	40 M155 DECT Desktop Charger	9600 015 69000
	20 M155 DECT Message Device	9600 015 68000
	20 I755s Desktop Charger	9600 015 89000
	20 I755s DECT Handset	9600 015 84000
	20 I755d Desktop Charger	9600 015 90000
	20 I755d DECT Handset	9600 015 88000
	20 M155v DECT Messenger	9600 015 70000
	20 C124 DECT Handset Kit - NEC INT	9600 017 64000
	20 I600 DECT Handset - INT	9600 015 07000
	1 PZ-ME50-EU	BE107322
	1 SV8100 Starter Package EU	BE108094
	1 CH2U RACK MOUNT KIT	BE106405
☐	160 NEC SIP Licence	9922 260 00616
	160 LK-SYS-IP-TERMINAL-SIP1-LIC	BE107586
☐	1 G955 Handset Package (NEC)	9922 260 00645
	20 G955 DECT Handset - NEC	9600 015 61000
	20 G355/955 Desktop Charger NEC	9600 015 72000
	20 G355/955 AC Adapter - INT	9600 015 73000
	1 G355/955/1755 Memcard - 20 pcs/...	9600 015 77000
	1 G355/955 Belt Clip set	9600 015 79000
	2 G955 Bluetooth Module	9600 015 78000
	2 G955/1755 Bluetooth Headset	9600 017 76000
☐	1 G355 Handset Package (NEC)	9922 260 00644
	20 G355 DECT Handset - NEC	9600 015 58000
	20 G355/955 Desktop Charger NEC	9600 015 72000
	20 G355/955 AC Adapter - INT	9600 015 73000
	1 G355/955/1755 Memcard - 20 pcs/...	9600 015 77000
	1 PZ-321PLA	BE106911
☐	<b>iSPBX Licences</b>	
	1 LK-SYS-SMDR-LIC	BE107576



<b>Handset positioning</b>	<b>Basic C124</b>	<b>Office G355</b>	<b>Hi-office G955</b>	<b>Industry I600</b>	<b>Healthcare Industry I755</b>	<b>Healthcare Hospitality M155</b>
Calling name/number, call logging	√	√	√	√	√	√ (no logging)
SOS alarm key	-	√	√	√	√	√
Loudspeaker mode	√	√	√	√	√	√
Charger rack	-	√	√	√	√	-
Internal Directory	40	200	200	100	200	5
Central Directory	-	√	√	√	√	-
Messaging (nurse call)	-	-	√	√	√	√
Broadcast messaging	-	-	√	√	√	√
Location detection	-	√	√	√	√	√
IP54	- (IP20)	- (IP20)	- (IP20)	√	√	- (IP20)
Bluetooth headset			√	-	√	-
Man-down	-	-	-	√	√	-

Key features <sup>2)</sup>	C124	G355	G955	I755	M155 Messenger
<b>Call handling features:</b> <ul style="list-style-type: none"> <li>• Auto answer</li> <li>• Calling name display</li> <li>• Calling Line (CLIP) display/digits</li> <li>• Call logging/size</li> </ul>	No Yes Yes/12 Yes/10	Yes Yes Yes/24 Yes/50	Yes Yes Yes/24 Yes/50	Yes Yes Yes/24 Yes/50	Yes Yes Yes No
<b>Headset/Bluetooth</b>	Yes/No	Yes/No	Yes/Yes	Yes/Yes	No
<b>Built-in vibrator</b>	No	No	Yes	Yes	No
<b>Charger rack</b>	No	Yes	Yes	Yes	No
<b>Corporate Directory</b>	No	Yes	Yes	Yes	No
<b>Display</b>	B/w display	Colour display	Colour display	Colour display	B/w display
<b>Triple frequency band</b>	No	Yes	Yes	Yes	No, dual
<b>IP classification</b>	IP20	IP20	IP20	IP54	IP20
<b>Location detection</b>	No	Yes (prepared)	Yes (prepared)	Yes (prepared)	Yes (prepared)
<b>Loudspeaker mode</b>	Yes	Yes	Yes	Yes	Yes
<b>Man-down alarm</b>	No	No	No	Yes	No
<b>Memory card</b>	No	Yes, optional	Yes, optional	Yes, optional	No
<b>Messaging (LRMS)</b>	No	No	Yes	Yes	Yes
<b>Messaging broadcast</b>	No	No	Yes	Yes	Yes
<b>Multiple subscription DECT systems</b>	No	Yes (8)	Yes (8)	Yes (8)	No
<b>Personal Phone book</b>	Yes	Yes	Yes	Yes	Yes
<b>Number of contacts</b>	40	200	200	200	5
<b>SOS-key/alarm</b>	No	Yes	Yes	Yes	Yes

<sup>1)</sup> Availability depends on local market situation and frequency band. Contact your local NEC dealer for more information

<sup>2)</sup> For details, see the datasheets for each type of handset

### Abbreviated Dial store (ABB)

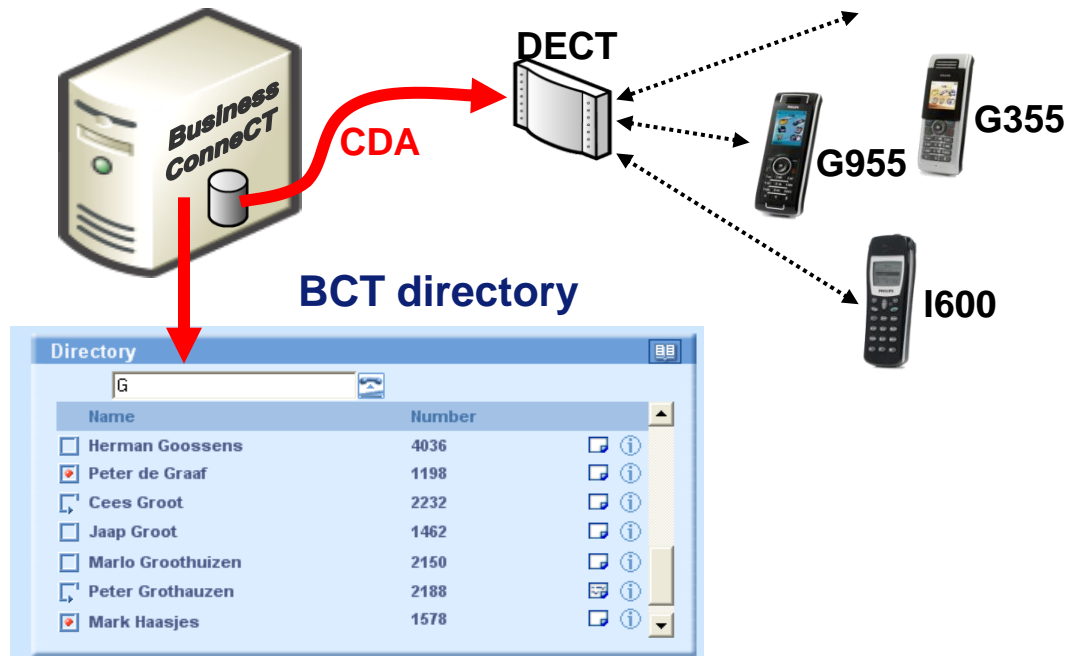
System Abbreviated Dial store can be accessed by IP DECT phones

- DECT handset user can search a telephone number within the common abbreviated dialing (ABB) / speed dialing (SPD) data table and make an outgoing call.
- G355 and G955 DECT handset have this ability.



### Directory – BCT

- DECT handsets can access the central BCT directory
- No synchronisation of BCT / IP DECT corporate directory SV8100 dir.
- Names and presence on DECT phones
- DECT and SMS messaging from BCT Client



C955 + CDA

### SV8100 Central Directory Access tool

- IP DECT users can access SV8100 directory
- Directory db in Excel

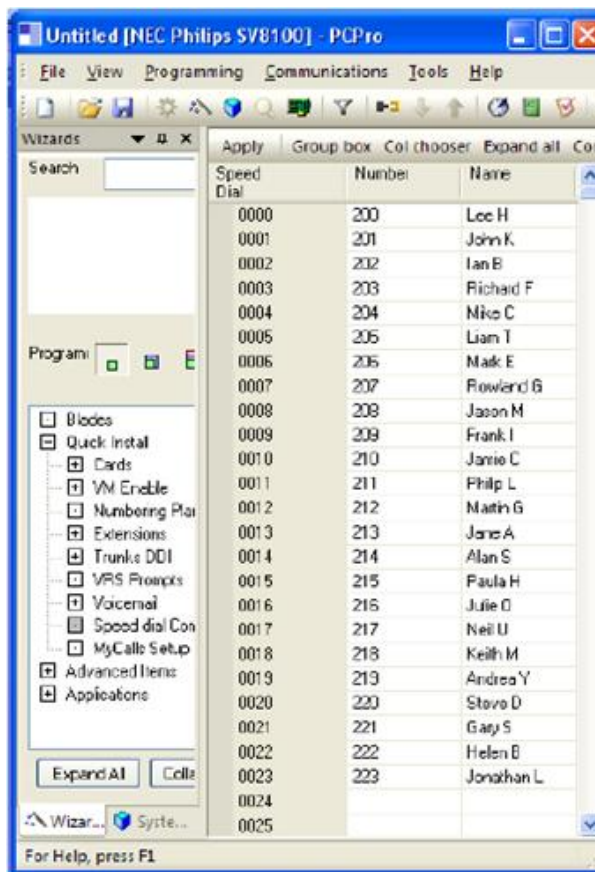
### IP DECT user:

- Press menu
- Press contacts
- Press Central Directory
- Select name/nr
- Dial number

### Bluespheres:

**SVTP001 –**

**SV8100 IP DECT Central  
Directory.pdf**



The screenshot shows the 'PCPPro' software window with a menu bar (File, View, Programming, Communications, Tools, Help) and a toolbar. On the left, there's a 'Wizards' pane with a search box and a tree view containing categories like 'Blades', 'Quick Install', 'Cards', 'VM Enable', 'Numbering Plan', 'Extensions', 'Trunks DDI', 'VRS Profiles', 'Voicemail', 'Speed dial Con', 'MyCalls Setup', 'Advanced Items', and 'Applications'. The main area displays a table with columns 'Speed Dial', 'Number', and 'Name'. The table contains 25 entries, numbered 0000 to 0024, with corresponding numbers and names. At the bottom, there are buttons for 'Expand All' and 'Collapse', and a status bar that says 'For Help, press F1'.

Speed Dial	Number	Name
0000	200	Lee H
0001	201	John K
0002	202	Ian B
0003	203	Richard F
0004	204	Niko C
0005	205	Liam T
0006	206	Mark E
0007	207	Rowland G
0008	208	Jason M
0009	209	Frank I
0010	210	Jamie C
0011	211	Philip L
0012	212	Martin G
0013	213	Jane A
0014	214	Alan S
0015	215	Paula H
0016	216	Julie O
0017	217	Neil U
0018	218	Keith M
0019	219	Andrea Y
0020	220	Steve D
0021	221	Gary S
0022	222	Helen B
0023	223	Jonathan L
0024		
0025		

Speed dial common



The screenshot shows a Microsoft Excel spreadsheet titled 'cdo\_names.xls'. The spreadsheet has three columns: 'Dblid', 'Name', and 'Extension'. It contains 25 rows of data, numbered 1 to 25 in the first column. The data matches the speed dial list in the PCPPro software. The status bar at the bottom shows the file path 'H:\directory\' and the current cell 'NUM'.

	A	B	C
	Dblid	Name	Extension
1	1	Lee H	200
2	2	John K	201
3	3	Ian B	202
4	4	Richard F	203
5	5	Niko C	204
6	6	Liam T	205
7	7	Mark E	206
8	8	Rowland G	207
9	9	Jason M	208
10	10	Frank I	209
11	11	Jamie C	210
12	12	Philip L	211
13	13	Martin G	212
14	14	Jane A	213
15	15	Alan S	214
16	16	Paula H	215
17	17	Julie O	216
18	18	Neil U	217
19	19	Keith M	218
20	20	Andrea Y	219
21	21	Steve D	220
22	22	Gary S	221
23	23	Helen B	222
24	24	Jonathan L	223

Source for CDA tool

### AP200S

- Designed for NECP protocols and open SIP
- Up to 12 channels (max 11 concurrent calls)
- AP200S is not licensed!
- Calling Name and number
- Message waiting indication
- Central directory
- Broadcast Messaging
- LRMS Messaging
- Only open-SIP (No Protims or iTMP)

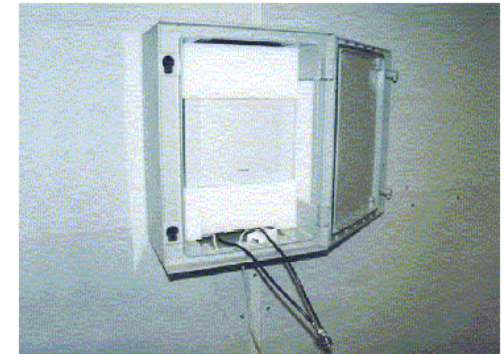
**NEC** Empowered by Innovation



- Peer-to-peer communication
- Priority & VLAN tagging
- PoE (IEEE802.3af) or external powering
- GAP/CAP compatible, encryption, seamless handover, text messaging
- Audio G.711, G.726 ADPCM
- No G.729ab in AP200S

### AP200E

- External directional antenna 8 dBi
- Always with outdoor housing (inside and outside building)
- Always in combination with AP200S



- *AP200S can also be used in outdoor housing*

DECT	Handset C124	Handset G355	Handset G955	Handset I755	Handset M155
DECT Access Points					
5					
1					
1					
0					
0					
0					
0					
0					
1					
6					

?

 AP200S DECT Access Point

?

 AP200E DECT Access Point For Directional Antennas

?

 - AP200(E) Outdoor Housing

?

 - AC Adaptor

?

 AP300C DECT Access Point

?

 AP300 DECT Access Point

?

 AP300E DECT Access Point For Directional Antennas

?

 - AP300(E) Outdoor Housing

?

 - Directional Antenna

?

 - Inline Power Adapter

?

 G729 support

?

 DAP Controller Rel 5 CD Rom for AP300



### AP300

- Replaces AP200
- SMB (AP300C) and Enterprise version (AP300) SV8100 uses AP300C
- AP200 and AP300 can be mixed in one network
- Very small housing, modern design
- Mountable on both the wall and on the ceiling
- 12 Channels
- G.729 via optional add-on board
- PoE class 2 compliant (no 230V Adapter available)
- Dap Manager release 5.0 required





### AP300 series

- AP300 NEC branded version , for all platforms, specific markets
- AP300C (Compact) NEC branded version for NEC SMB platforms
- AP300E version for external antenna, unbranded

### Options

- Outdoor Cabinet AP300
- External antenna directional 60°
- G7A add-on board

### DAP Manager

- Management, Subscription

### DMLS

- Open interface for messaging and location services



AP300



Outdoor box with AP300E  
and directional antenna



G7A

Characteristics	AP300C	AP300E
Secure Air interface	✓	✓
Crystal clear speech and seamless handover	✓	✓
Connects directly to the LAN/Ethernet (10/100 Mb)	✓	✓
Power over Ethernet	✓	✓
IP peer-to-peer communication (also needs support by the used PBX/SIP Server)	✓	✓
Downloadable software	✓	✓
Support a combined AP300C and AP200S series system (with release 5.0 software)	✓	✓
SIP and Protims do not require any DECT licenses, for iTMP only channel and handset licenses are needed	✓	✓
A PARI license is available for unique DECT system identification	✓	✓
Multi-region support	✓	✓
AP300 can run any protocol released, including SIP, Protims and iTMP	✓	✓
12 channels of which 11 for speech/messaging and 1 for synchronization	✓	✓
Supports G.729ab compression with G7A add-on board		✓
Supports Alcatel Lucent OXE R9.0 and Cisco CUCM R6.1 based on SIP (certifications for higher version are ongoing)		✓
Support of external antenna		✓
Two antenna connectors		✓
Should only be used with the dedicated outdoor box (outdoor box small) (for indoor protection as well)		✓
Works together with all AP300 series models as well as a combination with AP200	✓	✓

## Housing

- 146x174x43 mm (wxhxd) with horizontally positioned antenna
- 146x147x69 mm with vertically positioned antenna
- Weight 302 gram
- Colour white (RAL9010), Antenna light grey (RAL7035)

## Network

- Network interface 10/100 BaseT

## Frequency bands

- EMEA: 1880 – 1900 MHz
- Thailand: 1900 – 1906 MHz
- Latin America: 1910 – 1930 MHz (Brazil: 1910-1920 MHz)
- North America: 1920 – 1930 MHz

## Typical range:

- Indoor: 20 – 50 m, Outdoor: 300 m

## PBX protocol support

- SV8100: SIP

# DECT Access Points

DECT site survey is necessary to determine place and number of DAPs (DECT Access Points)

Up to 16 DAPs can be applied based on plug & play

- DAP manger only required during configuration

For 17 to approximately 50 DAPs:

- DAP Manager on PC is 24 / 7 required

Above 50 DAPs it will become special project (RAP):

- Special precautions, network assessments, etc become applicable

Absolute maximum is 750 DAPs:

- Theoretical value, will never be practically deployed

# DAP Manager

## DAP Manager consists of:

- Two services running in the Background.
- Web Server application based on Internet Information Services
- If installed, TFTP Server is running as service
- If installed, DHCP Server is running as application

Number	Status	PIN	RPN	Presence	Registration status
2000	Subscribed		010	Present	Registered
2001	Subscribed		011	Present	Registered
2002	Subscribed		010	Present	Registered
2003	Subscribed		010	Absent	Registered

## DECT Access Points

Branch Office:

All

1	RPN	Working	IP Address	MAC Address	Package ID	Number of channels	Number of handsets	Comment	
	010	Yes	192.168.4.100	00:18:27:00:21:EC	4910b4b6	6	3		OK Cancel
	011	Yes	192.168.4.150	00:18:27:00:21:EA	4910b4b6	4	5		Edit
1									

## Define Handset Packages

Select handset type :

G355 v01.51  
G955 v01.51  
I755  
M155

Select firmware package :

G955 v0151

Select Remove

Select firmware package for upload :

# DAP Manager

**DAP Manager INT - test system**

**Subscriptions**

Filter: No Filter

**1**

**Main**

- Subscriptions
- Access Points (2/2)
- Licences
  - Handsets 8/0
  - Multi-site handsets 0/0
  - 2 channel upgrades 3/24
- Add Number Range
- Backup (Export)
- History
- Pack Up & Go
- Get Archive
- Handset Firmware Update

**2**

**Subscriptions**

- Enable
- Disable
- Terminate
- Delete Number

**3**

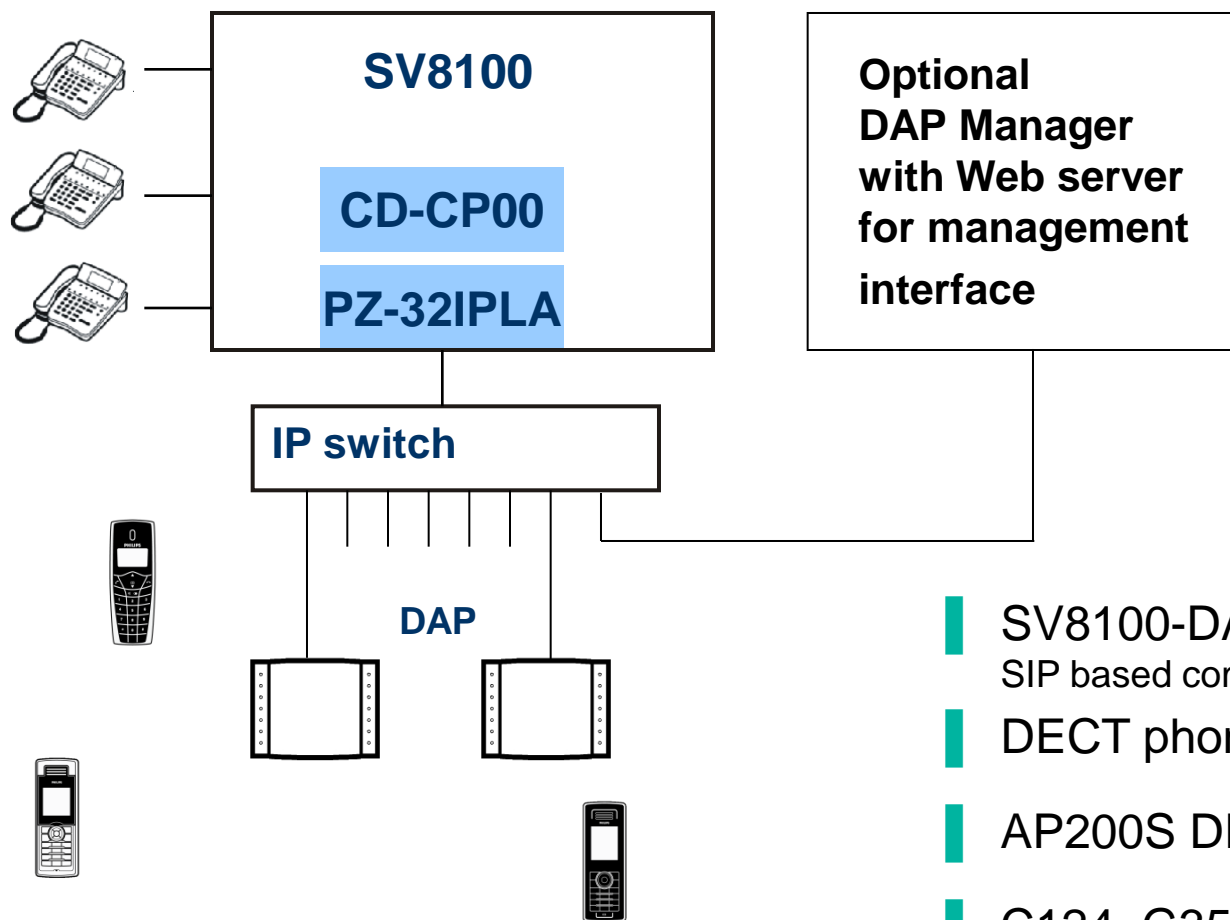
Select a Subscription and click on a Shift+Click to select a range.

Link: 31100004400504

**4**

Number	Status	PIN	RPN	Presence	Registration status	Handset type	SW version	Comment
2000	Subscribed		011	Present	Registered	G955	1.30	
2001	Subscribed		011	Present	Registered	G955	1.30	Edit
2002	Subscribed		010	Present	Registered	G955	1.30	Edit
2003	Subscribed		010	Present	Registered	G955	1.30	Edit
2004	Subscribed		011	Present	Registered	G955	1.30	Edit
2005	Subscribed		011	Present	Registered	G955	1.30	Edit
2006	Subscribed		011	Present	Registered	G955	1.30	Edit
2007	Subscribed		010	Present	Registered	G355	1.50	Edit
2008	Free							Edit

# IP DECT in SV8100



- SV8100-DAP:  
SIP based communication
- DECT phones act as SIP extensions
- AP200S DECT Access Point
- C124, G355, G955, I755, M155  
handsets
- DAP Manager on PC

# IP DECT in SV8100

Ethernet connection to CD-CP00 blade in SV8100

**Media gateway** in SV8100 is always needed:

- 3 media gateway variants: PZ- 32 / 64 / 128 IPLA
- Required for signaling of IP phones
- No voice channel occupation

**Memory** expansion (PZ-ME50 board) needed when:

- Using more than 64 system ports same is valid for IP phones

SV8100 SIP station **license** required per DECT handset

- SIP station license + DECT handset becomes cheaper

In-skin CD-ETIA switch and CD-RTA Router can be used for IP DECT



# IP DECT in SV8100

## SV8100 series requires IP DECT R4.2 or R5 when using AP300

- Corporate directory with Central Directory Dialing (SV8100 RIs2 + BCT)
- Firmware upgrading over the air (easy maintenance)
- Broadcast messaging (all sets simultaneously receive a message)
- Text messaging from Business ConneCT
- Unlicensed, easiest deployment possible

Currently:

- No location detection
- No Messenger application (MSG@Net)

# IP DECT in SV8100

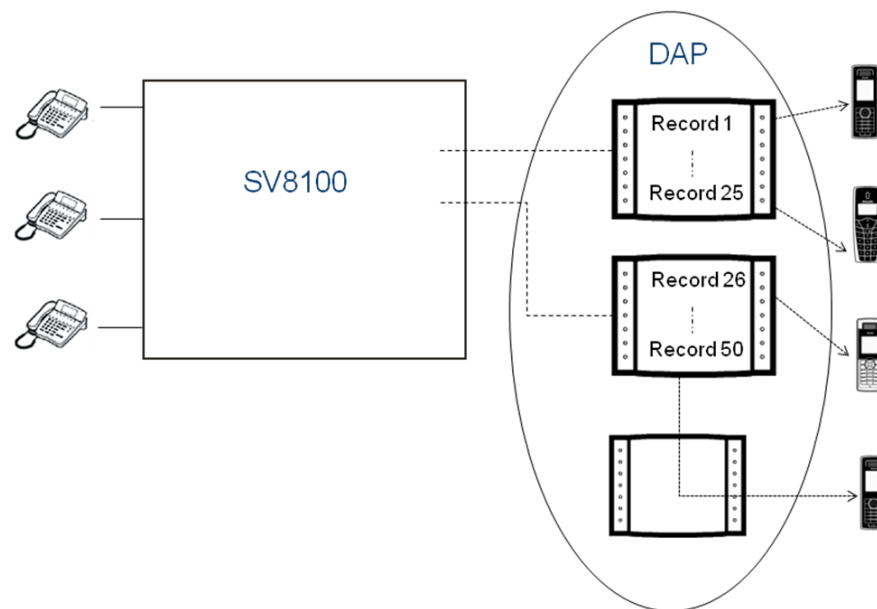
IP switch:

- If you use another type of IP Switch, it must support:
  - IP Multicasting
  - IGMP snooping must be disabled
  - Fast Forward
  
- IP DECT uses the SIP protocol
- No difference between DECT handset and SIP extension on SV8100
- All in one network segment (multicast)
- Max. 512 handsets These can all assigned to 1 duplication group

For much more information, consult

“SV8100 IP DECT Customer Engineer Manual” manual

### Single site DECT



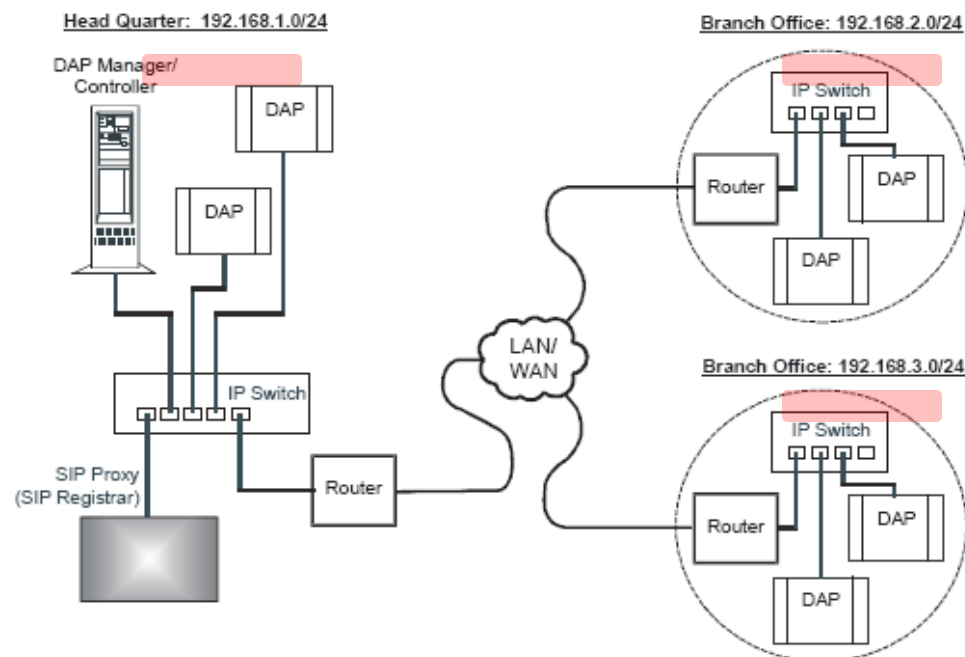
All DAPs on 1 site:

- DECT handset is associated with subscription record in a DAP
- Record is created during DECT handset subscription
- Handset functions as long as its subscription record can be reached
- All DAP'S in one subnet (otherwise we talk about Multi Site)

## Multi Site

### DAPs on Multiple sites is now supported

- DAPs in different subnets at different physical locations
- If the network supports Multicasting we talk about
  - “**Routed Headquarter**” solution.  
otherwise about
  - “**Branche Office**” solution



### Branch Office

- Multisite networking requires permanently connected DAP controller
- Main site and remote sites consists of different IP subnets forming different broadcast domains
- All DAPs assigned to the same duplication group (New in R3)
- Multicast is Disabled (or not possible) in the network
- DAP's of a site Must Be out of the range\view of other sites
- Roaming from an office to another is possible, but:
  - No Seamless handover

### Routed Head Quarter

- Multisite networking requires permanently connected DAP controller
- Main site and remote sites consists of different IP subnets forming different broadcast domains
- All DAPs assigned to the same duplication group (New in R3)
- Multicast is Enabled in the network
- DAP's of a site Must Be “in view” of other sites
- Seamless handover is possible

# IP DECT in SV8100

## Another way

- Another way to connect branch offices: Tunneling
- IP tunnels to group main site and branch offices into a single subnet, which in fact emulates a DECT single site solution
- Multicast Must be Enabled. Note Most tunnels do NOT support this
- Although this leads to a working DECT solution, it does demand sufficient throughput and reliability of network links between sites

### General:

- Multisite networking approach requires skilled IP installation

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