

DAPT113 Unified Communications

Video Conferencing Endpoint Configuration

June 2015

Doc ID	
Version:	1.1
Status:	Final
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1 Endpoint Naming Convention

1.1 Australia and Barcelona

Endpoint names have been set to align, as closely as possible, with the standard used for the naming of meeting rooms in Google Calendar (see Appendix 1).

This has been done intentionally to enable the same hierarchal system to be used for searching for the endpoints as resources in Calendar in the future.

Room Systems

B[Building ID]-[Floor ID]-[Location/Room ID]-VC-[Campus]-[Optional: Name]

Where:

Building ID: Three digit code for the building as per Property Services location naming standards

Floor ID: Two digit code for the building floor

Location/Room ID: Three digit code for the room or location (may optionally be followed by a letter – a, b, as required)

VC – Resource type (stands for Video Conferencing)

Campus:

CY = Melbourne City

BR = Brunswick

BE = Bundoora East

BW = Bundoora West

HAM = Hamilton

BCN = Barcelona

Name (Optional): is the common name applied to the room (e.g. Waterford, Orchid). Do not include spaces in the room name - use title case without spaces.

Portable Endpoints

Portable-[Sequential Number]-VC-[Campus]

Where:

Sequential Number: is a unique, sequential number for the unit

Campus: As above

Spare or Test Endpoints

[Spare/Test]-[Sequential Number]-VC-[Campus]

Where:

Sequential Number: is a unique, sequential number for the unit

Campus: As above

Note: Do not use periods (full stops) within resource names.

Examples:

B001-01-015-VC-CY

B088-10-012-VC-CY-Orchid

B091-01-005b-VC-CY-GOVLab

B602-00-VC-HAM-SeminarRoom

Portable-1-VC-BW

Spare-1-VC-CY

1.2 Vietnam

The endpoints in Vietnam currently do not follow the Google Calendar as closely as Australian endpoints do.

Room Systems

RUVN-[Campus]-VC-B[Building ID].[Floor ID].[Location/Room ID]-[Optional: Name]

Where:

Building ID: Single digit code for the building (the last digit from the Property Services location naming standard)

Campus:

SGS = Saigon South (Ho Chi Min City)

PNT = Pham Ngoc Thach (Ho Chi Minh City)

HN = Hanoi

VC – Resource type (stands for Video Conferencing)

Floor ID: Single digit code for the building floor

Location/Room ID: Two or three digit code for the room or location (may optionally be followed by a letter – a, b, as required)

Name (Optional): is the common name applied to the room (e.g. President, Boardroom). Use title case without spaces.

Portable Endpoints

RUVN-[Campus]-VC-Portable-[Sequential Number]

Where:

Campus: As above

Sequential Number: is a unique, sequential number for the unit

Spare Endpoints

RUVN-[Campus]-VC-Spare-[Sequential Number]

Where:

Campus: As above

Sequential Number: is a unique, sequential number for the unit

Examples:

RUVN-SGS-VC-2.2.41

RUVN-HN-VC-1.9.015-Boardroom

RUVN-SGS-VC-1.2.34-Yarra-Room

RUVN-SGS-VC-Portable-1

RUVN-SGS-VC-Spare-1

2 Address Books

The Avaya Scopia Management server is the primary source for the RMIT general phone book.

Tandberg and Cisco endpoints are not able to connect to retrieve the phone book from the Scopia server however, so are still using TMS. In order to avoid duplicating the general phonebook, TMS synchronises the general phonebook from the Scopia server via LDAP. This phone book is called "RMIT Video Conference Directory".

Any additional phonebooks are served natively from TMS (e.g. "Test Systems", "Suncorp Contacts").

Endpoints in Vietnam use the same phone book ("RMIT Video Conference Directory") as Australian endpoints.

3 Endpoint Settings

3.1 Cisco and Tandberg

The following settings are the defaults for all Cisco and Tandberg endpoints.

	Settings for Australia	Settings for Vietnam	Settings for Spain	Notes
Endpoint Name				Set to match the standard naming convention
IP Address	DHCP	DHCP	DHCP	To be from the range in the general user access VLAN
- SIP	Enable			
- SIP Authentication Name				Same as E164 alias
- SIP Authentication Password	Unique password			
- SIP Transport	TLS if available - Only AUTO for Tandberg units			
- Certificate Validation	No			
- SIP Server IP	172.25.243.60	TBA	10.255.5.1	List under proxy for Cisco endpoints
- SIP Server Discovery	Manual			
- SIP URI	SIPnumber@rmit.edu.au	SIPnumber@rmit.edu.vn	SIPnumber@rmit.eu	
- H.323 (Network Services)	On			
- H.323 Call setup Mode (H.323 Profile)	Gatekeeper			
- H.323 ID (H.323)	Same as new endpoint name			
- H.323 Gatekeeper Discovery (H.323)	Manual			
- H.323 Gatekeeper Address (H.323)	10.85.236.25	10.247.20.10	10.255.5.10	Avaya Scopia Gatekeeper address
- H.460	Enable			Applicable for Scopia Endpoints
- Maximum Call Bandwidth (Conference 1)	2560kbps			Or maximum
- SNMP trap target server (Network Services)	131.170.3.231 10.85.236.25			Uses TMS & Scopia Management for SNMP management
- IP address (Network 1)	DHCP	DHCP	DHCP	IP to be reserved in DHCP
- Internal Bridge	Enable			Where supported by the codec
- E164 number				Extension numbers will be allocated for all endpoints that are able to be dialled from both inside and external to the Uni. These numbers are to be allocated by the ITS ID Telephony team.
- NTP server and settings (Network Services)	time.rmit.edu.au	172.16.40.11 172.16.40.14	winsprddc71.rmit.internal	
- System Time Zone	(GMT + 10:00) Canberra, Melbourne, Sydney	(GMT + 07:00) Bangkok, Hanoi, Jakarta	(GMT + 01:00) Brussels, Copenhagen, Madrid, Paris	
- Daylight Saving Time	Off			NTP server should update!
- Telnet	Enable			IP units need telnet to work
- SSH	Enable			
- HTTP	Enable			Disabling HTTP will break Scopia management of the Tandberg endpoints
- HTTPS	Enable			
- DNS	Server 1:	172.16.40.11	10.255.15.1	

	Settings for Australia	Settings for Vietnam	Settings for Spain	Notes
	10.84.196.1 Server 2: 10.68.196.1	172.16.40.14	10.69.201.8	
- Corporate Directory location	http://its-vw-b5vctms.ad.rmit.edu.au/tms/public/external/phonebook/phonebookservice.asmx			TMS Server (131.170.3.231)
- External Manager	its-vw-b5vctms.ad.rmit.edu.au			TMS Server (131.170.3.231) Not found on some Codecs
- Streaming	Off (by default)			Remove any existing streaming settings (e.g. server address)
- Streaming Password	Same as Admin password			If setting is available
- Camera Standby Mode	Privacy Position			Found in Security settings
- Standby Time	10 Minutes			Not changeable in Tandberg Units
- Username and Password	Local username and password - as per RMIT standard for codecs			Local username and password - as per RMIT standard for codecs Note: To Change the password strength setting on Tandberg Units only: - Connect to unit via telnet client – use end point IP. - Type Password - Type 'strictpassword off'
- Quality of Service (QOS)	Call Signalling - 40 Audio - 46 Video - 34 Text - 46			Uses Diffserv
- Accept Incoming Calls	ON			
- Auto Answer Mode	On by default for Teaching Spaces Off by default for Meeting Rooms			On by default for Teaching Spaces Off by default for Meeting Rooms
- Microphone Status	On			
- Presentation	Auto			
- H.239	On			
- Presentation Source	PC			
- Snapshot Source	Off by default			

3.1 Avaya

The following settings are the defaults for Avaya endpoints.

	Settings for Australia	Settings for Vietnam	Settings for Spain	Notes
Endpoint Name				Set to match the standard naming convention
IP Address	DHCP	DHCP	DHCP	
Basic Settings – Preferences				
- Remote control Code	1			
- Local presentation Mode	Auto			
Basic Settings – Call-Answer Mode				
- Automatic Answer	On by default for Teaching Spaces Off by default for Meeting Rooms			On by default for Teaching Spaces Off by default for Meeting Rooms
-				
Administrator Settings – System				

	Settings for Australia	Settings for Vietnam	Settings for Spain	Notes
- Internet time	Yes			
- Time Server 1	time.rmit.edu.au	172.16.40.11 172.16.40.14	winsprddc71.rmit.internal	
- Time Zone	(GMT + 10:00) Melbourne, Sydney	(GMT + 07:00) Bangkok, Hanoi, Jakarta	(GMT + 01:00) Brussels, Copenhagen, Madrid, Paris	
- Enable Daylight Saving	No			
- Audio Coding	European			
- LDAP	Server: 10.85.236.25 Type: Remote H.350 (Scopia iVIEW)			
Administrator Settings – Calls				
- IP Call Rate	2048K			
- Meeting Time Limit	Unlimited			
- Call Time Limit	Unlimited			
- Enable encryption	Yes			
Administrator Settings – I/O Connections				
- Camera privacy Mode	Yes			
Administrator Settings – Networks				
Dynamic Ports	TCP Automatic: No TCP Port: 3230 UDP Automatic: No UDP Port: 3230			
NAT Traversal	No			
QoS	Yes, DiffServ			
GLAN 1 – Automatic IP Address	Yes (DHCP)			
GLAN 1 – IP Address	From DHCP			
GLAN 1 – Subnet Mask	From DHCP			
GLAN 1 – Gateway IP Address	From DHCP			
GLAN 1 – DNS Server	From DHCP			
GLAN 1 – MTU	1360			
GLAN 1 – Speed/Duplex	Auto			
GLAN 1 – VLAN Enable	No			
GLAN 2	Not used			
Administrator Settings – Protocols				
- Default Protocol	Automatic			
- Use SIP	Yes			
- Use H.323	Yes			
- Use ISDN	No			
- SIP User	E164@rmit.edu.au	E164@rmit.edu.vn	E164@rmit.eu	
- SIP Authentication	Same as E164 extension number			Password: TBA
- Use SIP Registrar	Yes			
- Use SIP	Yes			
- SIP Registrar Name	sm.rmit.edu.au	TBA	sm.rmit.eu	
- SIP Proxy	sm.rmit.edu.au	TBA	sm.rmit.eu	
- SIP Proxy Model	Avaya			
- Transport Outbound call	TCP			
- UDP & TCP Listening Port	5060			
- Use TLS	Yes			
- H.323 Name	Same as System Name			
- E164	Assigned extension number			
- Refuse Calls by IP Address	No			
- Use Gatekeeper	Yes			

	Settings for Australia	Settings for Vietnam	Settings for Spain	Notes
- Automatic Gatekeeper IP	No			
- Gatekeeper IP Address	10.85.236.25	10.247.20.10		
- Use H.460	No			
Administrator Settings – Utilities				
- Web Management	Yes			
- HTTPS	Yes			
SNMP Management	Yes			
SNMP Community	Public			
SNMP Edit – Community	Private			
SNMP Edit – Enable All Addresses	No			
SNMP Edit – Address	10.85.236.25	10.85.236.25	10.85.236.25	
SNMP Edit – Enable Traps	Yes			
Telnet Management	No			
Scopia Control - Password	Same as Admin password			
Scopia Management – Auto IP Address	Yes			
Scopia Management – IP Address	10.85.236.25 (vcmgmt.its.rmit.edu.au)	10.85.236.25 (vcmgmt.its.rmit.edu.au)	10.85.236.25 (vcmgmt.its.rmit.edu.au)	

4 Appendix 1: Google Calendar Resource Naming Standard

A **calendar resource** is anything you schedule that isn't an event. The most common example is a meeting room. Other examples might include projectors, company fleet cars, guest offices, recreation equipment, or any other **resource** that the people in your organization might schedule a time to use.

Calendar Resources in Google Apps follow the convention below:

B[Building ID]-*F*[Floor ID]-**[Optional** Location/Room ID]-*R*[Resource Type]-*P*[Portfolio/Dept]-**[Optional** School]-*C*[Campus]-*N*[Name]

Examples:

B155-01-15-Room-ITS-CY-Joplin
B155-01-15-Projector-ITS-CY-Projector A
B009-02-09-Room-DSC-MC-CY-Research Room
B108-01-Carpark-BUS-GSB-Carpark 1
B088-10-Laptop-ITS-CY-Laptop A
B202-01-Vehicle-SEH-SCECE-CY-Mazda Ute

For Vietnam,

Add a country code prefix, COUNTRY_CODE = RUVN

For rooms: *B*[3digit building]-*[2-3 digits/chars level number/code]*-*[name, type,...]*

Example:

RUVN-B008-05-026-Room-LIB-CY-Swn Conference Room 1

Why do we follow this convention?

Login to Gmail --> Calendars

Other Calendars --> Browse Interesting Calendars

More --> Resources for rmit.edu.au

By following this convention, all bookable calendar resource are nested under a hierarchy as below. This makes finding a resource easier if you know the building at a minimum.