JACQUES
Future Proof Communications

Welcome.
Please press 5
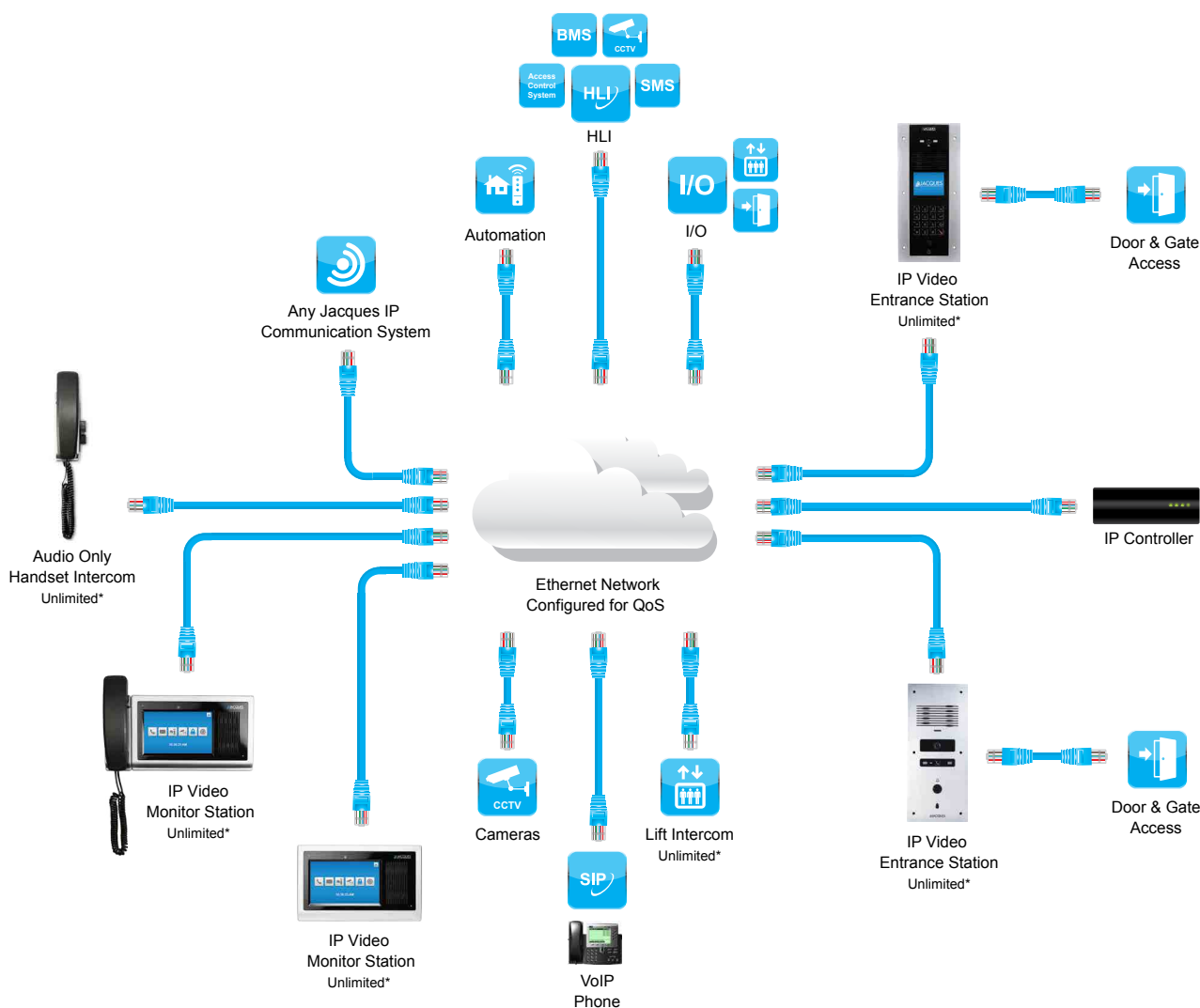followed by the unit number
and then press 🔔

IP

Jacques Technologies Pty Ltd
IP Video Intercom System

IP VIDEO INTERCOM SYSTEM

Jacques IP video intercom system exudes style and is feature packed. The stylish intercom stations with camera allow for video calling to entrance and monitor stations within our integrated IP communications system. This allows for swift system expansion and flexibility to satisfy every client, every time.

As with all Jacques IP communication systems, our video intercom system fully integrates to numerous third party systems including CCTV, building & security management, home automation, telephony and access control systems. This ensures a Jacques IP video intercom system transcends client expectations as it seamlessly and stylishly integrates within a large number of applications including commercial, residential, health, public safety and transport.

VIDEO INTERCOM SYSTEM DIAGRAM

BMS
CCTV
Access Control System
HLI
SMS
HLI
Automation
I/O
I/O
IP Video Entrance Station
Unlimited*
Door & Gate Access
Any Jacques IP Communication System
Audio Only Handset Intercom
Unlimited*
IP Controller
IP Video Monitor Station
Unlimited*
Ethernet Network Configured for QoS
Cameras
CCTV
Lift Intercom
Unlimited*
IP Video Entrance Station
Unlimited*
Door & Gate Access
IP Video Monitor Station
Unlimited*
SIP
VoIP Phone

*Virtually unlimited. Dependent on server configuration and network bandwidth.

SYSTEM FEATURES

TEXT MESSAGE
Receive text messages from building manager/concierge/control room to video monitor stations.

SIP GATEWAY
SIP gateway between the IP video intercom system and SIP enabled systems/devices, e.g. IP telephony systems including Avaya and Cisco.

RELAY MODULES
Configurable relay modules exist on intercom stations to activate external equipment. Control doors, boom gates, lights or signal CCTV camera presets.

THIRD PARTY INTEGRATION
Fully supported third party integration via High Level Interface (HLI) to systems such as CCTV camera, access control, lift control, building and security management systems.

TRUE IP DIGITAL TECHNOLOGY
Jacques systems are based on Ethernet network standards and TCP/IP protocols, which use commercially available network equipment and infrastructure.

MISSED CALLER IMAGE SNAPSHOT
Receive image snapshot of caller to video monitor station if call from entrance station is unanswered.

CCTV CAMERA STREAMS
Third party IP CCTV camera streams can be selected and viewed on demand and in real time via the video monitor station.

ACTIVITY AND EVENTS
Call activity and system events recorded to an event log database for call accounting, incident reports or fault diagnosis.

FLEXIBLE SYSTEM TOPOLOGY
Rule based call permissions are configurable for all intercom stations including priority queuing of all calls. Highly flexible intercom system topology enables the system to be structured as a mix of hierarchical and peer to peer call permissions.

EXPANDABLE SYSTEM ARCHITECTURE
All Jacques IP communication systems allow for virtually an unlimited* number of intercom stations to be connected in a fully integrated system.

*Dependent on server configuration and network bandwidth

Build your Video Intercom System following these simple steps

IP VIDEO INTERCOM SYSTEM

Begin with an Ethernet Network configured for QoS.

1

CONTROLLER PACKAGE

Choose a controller package which can manage your system size and offer the functionality you require.

TCH-2MX | JSC-5L

2

MASTER STATION

Choose your master station. They can make and receive intercom calls and make public address announcements.

VMS-750 | PCC-650MX

3

PA FUNCTIONALITY

Choose your Public Adddress components to acheive the required functionality.

UAI-3B1 | Amplifiers | Speakers

4

INTERCOM TERMINALS

Add intercom terminals. They call pre-defined master stations and can initiate relays within your system.

VES-75K | VES-741

5

ACCESSORIES

Choose your accessories. They provide additional functionality to your system.

Backboxes & Rainhoods

+

OPTIONAL EXTRAS

Customisation of Graphical Adddress Interfaces (GUI)
and/or
Integration with CCTV & Access Control Systems

1

CONTROLLERS & SOFTWARE

SYSTEM CONTROLLER MEDIUM
TCH-2MXH | 51660

- IP controller, up to 80 endpoints
- Available to administer most Jacques system software modules & interfaces
- Facilitates almost all core functions of the Jacques IP Communication System
- Supports high definition audio
- Fanless and low power consumption
- SATA hard drive

SYSTEM CONTROLLER LARGE
JSC-5L | 51814

- IP controller, large, includes JCCP server software for intercom devices to make and receive calls, more than 80 endpoints supported
- Supports high definition audio
- SATA hard drive
- Segregated air-flow design for optimal unit cooling

SOFTWARE

Software modules* manage key functionality of the system and can provide additional functionality. Choose software packages to achieve system functionality requirements.

DAR

Echo cancellation for full duplex communication

Interface call audio to third party recording devices (digital, SIP or analogue)

Stream background music/entertainment through intercom devices & PA speakers

SIP GATEWAY

Intermediate interface allowing for integration of Jacques system with compatible SIP systems & devices

Implements RFC 3261-Core Session Initiation Protocol to transfer, convert & filter communication

Support for bridge calling allowing a Jacques device to dial multiple SIP devices however only allowing one to answer and perform a call

EVENT CONTROLLER

Provides simplified interfaces for the integration of external systems & products

Feature highly configurable rules to match system events, simultaneous event triggers, alarms & offline events

Standard handling of CCTV function

JAS

Facilitate pre-recorded PA announcements, tones & warning alarms across a Jacques IP PA system

Allows for the uploading of audio files for broadcast

Built timetables of announcements, bells & tones for broadcast at allocated times to select or all PA zones

Apply schedules to days, weeks or months according to a sites broadcast requirements

* Selection of software modules displayed in this brochure. Visit jacques.com.au for a complete list of software

2

MASTER STATIONS

PC MASTER STATION
PCC-650WIN | 51791, PCC-650WTS | 51857

- Complete intercom call handling functions
- Complete public address functionality
  - Make live and pre-recorded announcements
  - Broadcast tones, bells & alarms
  - Visual display of PA zones (unlimited number of zones depending on controller)
  - Selection and playback of recorded announcements
  - Send text messages to video monitor stations
- Diagnostics and reporting
  - Alarm notifications including device state
- Touchscreen compatible interface
- Map, grid and database views
- Upload multiple site maps to suit application/site
- Customisable layout/functions

VIDEO MONITOR STATION
VMS-750 | 51336, VMS-750H | 51432

- Receive text messages from building manager/concierge
- Missed caller image snapshot available when call is unanswered
- View CCTV footage
- Duress calling to predetermined recipient
- Privacy enable/disable to mute calling
- Relay control to let caller through a door or gate
- Intercommunication between devices
- Power saving mode when not in use

Building communication solutions with Jacques Video Intercom Systems

MONITOR STATION VMS-750 (OPTIONAL JHS-1)

PRODUCT CODE 51336, 51432

FEATURES

Text message facility from concierge/building manager*

Caller snapshot image taken, and made visible on monitor station, when call is unanswered from entrance station

View CCTV footage on monitor station*

Duress calling to concierge/control room/building manager*

Privacy enable/disable feature to mute calling

Intercommunication between devices*

Easy to use, 7" intuitive touchscreen interface

Power saving mode while unit not in use

Call forwarding

Remote mode

OPTIONS

Ergonomic handset - black only (JHS-1)

Customisable GUI

SPECIFICATIONS

Screen	7" TFT colour LCD, 16:9 aspect ratio Active area: 152 mm x 91 mm Resolution 800 x 480, 18-bit RGB LED backlight (white) Contrast ratio: 400 Brightness: 300 cd/m² Viewing angle: 120° V, 140° H
Speaker	2 x 8 Ω 2 W
Speaker Amplifier	50 Hz – 7 kHz (output circuit frequency response -3 dB), 2.5 W
Max. Acoustic Output	88 dBSPL @ 1 m, 0 dBFS 1 kHz (non-clipped) sine wave signal
Microphone	Electret condenser, omnidirectional, sensitivity -56 dB 50 Hz – 7 kHz (input circuit frequency response ±3 dB mic)
Audio Streaming Bandwidth	256 kb/s both ways
Control Buttons	Unlimited* soft buttons, fully customisable GUI control
Auxiliary Functions	Relay contacts (1 x NO/NC), light sensor, privacy mode
Power Input	IEEE 802.3af Power over Ethernet (PoE) Auxiliary power input: (12 - 32) V d.c.
Power Consumption	10 W max. (2.5 W standby)
Operating Temperature	(0 - 50) °C
Operating Humidity	(20 - 90) % relative humidity (non-condensing)
Cabling	LAN: 4 pair UTP CAT-5/6, multi-strand, 24 AWG, max. 100 m Power: Figure 8, 0.75 mm² conductors
Dimensions (WxHxD)	280 mm x 172 mm x 33 mm (VMS-750) 340 mm x 172 mm x 64 mm (incl. JHS-1)
Weight	1.2 kg (VMS-750) 1.5 kg (incl. JHS-1)
Material	Plated zinc, acrylic, ABS, zinc plated steel chassis
Finishes	Satin chrome surround, black acrylic screen bezel
Environment	Indoor use only
Mounting Options	Wall mount kit (WMK-1) (included), surface mount backbox (SWE-13/SWE-14), desk mount kit (DMS-1/DMS-2)
Fixings	Clips to mounting options and retained with 1 x M3 CSK screw

*Dependent on server configuration and network bandwidth

VMS-750

VMS-750 JHS-1

VES-75K

VES-741

VES-742

ENTRANCE STATION VES-75K/VES-741/VES-742

PRODUCT CODE 51335, 51423, 51468

FEATURES

Attractive slimline design
Wide angle camera
Two configurable relays that can control lights, gate/door access etc.
Insect resistant microphone/speaker

VES-75K	VES-741	VES-742
3.5" LCD screen	316 type stainless steel construction	316 type stainless steel construction
Backlit keypad	Weather resistant, with optional rain cover	Weather resistant, with optional rain cover
Relay enabled by entering a PIN code	Call one master/monitor station	Call two master/ monitor stations

SPECIFICATIONS

Screen (VES-75K only)	3.5" TFT colour LCD, 4:3 aspect ratio Active area: 70 mm x 53 mm Resolution: 320 x 240, 24-bit RGB LED backlight (white) Contrast ratio: 400 Brightness: 350 cd/m² Viewing angle: 120° H, 115° V
Camera	Type: 1/3" CCD image sensor, LED illumination Resolution: 520 TVL Sensitivity: 0.1 lux Functions: AES, AGC, BLC, AWB, Lens: f = 2.5 mm, f 2.0 Viewing angle: 75° V, 105° H
Speaker	1 x 4 Ω 3 W (VES-75K) 1 x 4 Ω 1 W (VES-741)
Speaker Amplifier	50 Hz – 7 kHz (output circuit frequency response -3 dB), 2.5 W
Max. Acoustic Output	88 dBSPL @ 1 m, 0 dBFS 1 kHz (non-clipped) sine wave signal
Microphone	Electret condenser, omnidirectional, sensitivity -56 dB 50 Hz – 7 kHz (input circuit frequency response ±3 dB mic)
Audio Streaming Bandwidth	256 kb/s both ways
Control Buttons	4 x 4 cap-sense, backlit, touch keypad (VES-75K) 1 x piezo switch, black, 19 mm (VES-741) 2 x piezo switch, black, 19mm (VES-742)
Auxiliary Functions	Relay contacts (2 x NO/NC), power saving modes, light sensor
Power Input	IEEE 802.3af Power over Ethernet (PoE) Auxiliary power input: (12 - 32) V d.c.
Power Consumption	12 W max. (2.0 W standby) (VES-75K) 8.5 W max. (2.0 W standby) (VES-741)
Operating Temperature	(0 - 50) °C
Operating Humidity	(20 - 90) % relative humidity (non-condensing)
Cabling	LAN: 4 pair UTP CAT-5/6, multi-strand, 24 AWG, max. 100 m Power: Figure 8, 0.75 mm² conductors
Dimensions (WxHxD)	160 mm x 360 mm x 45 mm (VES-75K) 130 mm x 290 mm x 45 mm (VES-741)
Weight	1.9 kg (VES-75K) 1.6 kg (VES-741)
Material	Acrylic and satin chrome plated zinc (VES-75K) 316 stainless steel (3 mm) (VES-741)
Finishes	Bead blasted, electro-polished (VES-741)
Environment	Indoor and outdoor use
Vandal Resistant	Yes (VES-741 only)
Mounting Options	Flush mount backbox (FWE-15), surface mount backbox (SWE-12/SWE-9SS), rainhood (SRH-2)
Fixings	6 x M3 CSK screws (VES-75K) (included with purchase of backbox) 6 x M4 security torx screws (VES-741) (included with purchase of backbox)

5

ACCESSORIES

FLUSH MOUNT BACKBOX FWE-1
PRODUCT CODE 60701

SPECIFICATIONS

Suitable For	VSL/VDL/VMI/VES-x4x series
Dimensions (WxHxD)	110 mm x 270 mm x 80 mm
Weight	1 kg
Material	Zincanneal steel
Finishes	Zinc plated and passivated
Environment	Indoor use only
Intercom Mounting Holes	10 x M4 threaded holes
Intercom Fixings	10 x M4 security torx screws (included with purchase of backbox)
Cable Entry	2 x 25 mm Ø holes centred top and bottom

FWE-1

SURFACE MOUNT BACKBOX SWE-9SS
PRODUCT CODE 60708

SPECIFICATIONS

Suitable For	VDL/VES /VMI/VSL-x4x series
Dimensions (WxHxD)	130 mm x 290 mm x 79 mm
Weight	1.2 kg
Material	316 stainless steel
Finishes	Linish
Environment	Indoor and outdoor
Intercom Mounting Holes	10 x M4 threaded hole
Intercom Fixings	10 x M4 security torx screws (included with purchase of backbox)
Cable Entry	3 x 25 mm Ø holes centred top, centre and bottom of rear

SWE-9SS

SURFACE MOUNT BACKBOX SWE-12
PRODUCT CODE 51445

SPECIFICATIONS

Suitable For	VES-75K
Dimensions (WxHxD)	170 mm x 372 mm x 50 mm
Weight	1.4 kg
Material	Zincanneal steel
Finishes	Powder coated, matte, dark grey
Environment	Indoor and outdoor
Intercom Mounting Holes	6 x M3 threaded holes
Intercom Fixings	6 x M3 CSK stainless steel hex (included with purchase of backbox)
Cable Entry	Drill or cut at installation

SWE-12

SURFACE MOUNT BACKBOX SWE-13/SWE-14
PRODUCT CODE 60716, 60717

SPECIFICATIONS

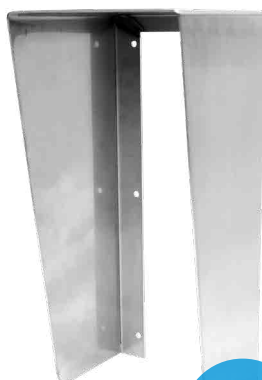|	
Suitable For	VMS-750 (SWE-13) VMS-750 with JHS-1 (SWE-14)
Dimensions (WxHxD)	274 mm x 165 mm x 35 mm (excluding VMS-750 mounting tabs) (SWE-13) 334 mm x 165 mm x 35 mm (excluding VMS-750 mounting tabs) (SWE-14)
Weight	0.6 kg (SWE-13) 0.7 kg (SWE-14)
Material	Zincanneal steel
Finishes	Powder coated, matte, dark grey
Environment	Indoor use only
Intercom Mounting Holes	1 x M3 threaded hole
Intercom Fixings	1 x M3 CSK black machine screw (included with purchase of backbox)
Cable Entry	214 mm x 115 mm cut out (SWE-13) 273 mm x 115 mm cut out(SWE-14)

DESK MOUNT KIT DMS-1/DMS-2
PRODUCT CODE 51400, 51461

SPECIFICATIONS

Suitable For	VMS-750 (DMS-1) VMS-750 with JHS-1 (DMS-2)
Dimensions (WxHxD)	267 mm x 156 mm x 88 mm (DMS-1) 327 mm x 156 mm x 88 mm (DMS-2)
Weight	0.4 kg (DMS-1) 0.5 kg (DMS-2)
Material	Electro gal
Finishes	Powder coated satin black
Environment	Indoor use only
Intercom Mounting Holes	1 x M3 threaded hole
Intercom Fixings	1 x M3 CSK black machine screw (included with purchase of kit)
Cable Entry	100 mm x 88 mm cut out

RAINHOOD SRH-2
PRODUCT CODE 51190

SPECIFICATIONS

Suitable For	VES-741/VSL-x4xW+ series
Dimensions (WxHxD)	138 mm x 296 mm x 135 mm
Weight	1.7 kg
Material	316 stainless steel
Finishes	Linish
Environment	Outdoor
Intercom Mounting Holes	6 x M4 threaded hole
Intercom Fixings	6 x M4 security torx screws (included with purchase of backbox)

SYSTEM SPECIFICATIONS

SYSTEM CAPACITY

Intercom Stations	Unlimited*
Master Stations	Unlimited*
Stored Announcements	Unlimited*
Call Queue Size	Unlimited*
Groups	Unlimited*
Simultaneous Conversations	Unlimited*
Audio Communication Between any endpoint	Yes +
Auxiliary Channels	16 (typically up to 4 live captured sources)

AUDIO CHARACTERISTICS

Frequency Response	200 Hz - 7 kHz ± 3 dB
Transmission Format	Real-Time Transport Protocol (RTP) Streaming
Digital Audio Format - Voice	A-law compressed PCM 16 kHz sampling rate
Audio Streaming Bandwidth	128 kb/s one way, 256 kb/s full duplex
Acoustic Echo Cancellation	Yes

VIDEO CHARACTERISTICS

Multi-Standard Video Codec	MPEG-4 part 2, simple profile; H.264 baseline profile; H.263 part 3
Video Streaming Bandwidth	500 kb/s - 6 Mb/s

CALL HANDLING

Call Topologies	Intercom/hierarchical/peer/public address/zoned
Call Priorities	256 priority levels
Call Features (Basic)	Auto-answer, hold, forward, diversion, directory, group call, caller-ID, bridged call appearance
Call Features (Specialised)	Isolate nuisance callers, covert monitor, dynamic group call, stored announcements, master call, remote mode, priority queuing, selective answer of call waiting

NETWORK

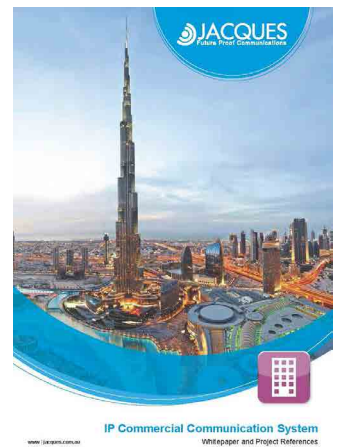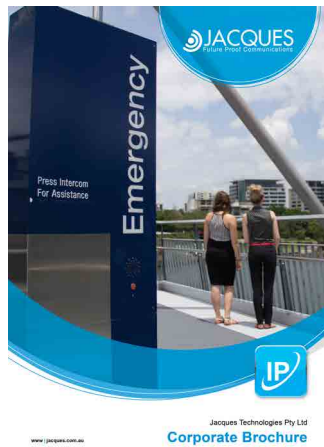|	
Addressing	TCP/IP IPV4, static or dynamic (DHCP)
Interface Media	IEEE 802.3 10/100 Mb/s Ethernet
Standards	IEEE802.1P LAN Layer 2 prioritisation
	IEEE802.1Q Virtual LAN
	RTP - Real-Time Transport Protocol (RFC3550/3551)
	TOS - IPV4 Type of Service (RFC791)
	DTMF - RTP payload for DTMF digits (RFC2833)
	Multicast - IP Multicasting (RFC1112)
	Diffserv - Differentiated Services (RFC2474/2475)
	NTP - Network Time Protocol (RFC1305)
	IGMPv2 - Internet Group Management Protocol v2 (RFC2236)
	DHCP - Dynamic Host Configuration Protocol (RFC1531)

CABLING

Power Input/Ethernet	4 pair UTP CAT-5/5e/6, multi-strand, 24 AWG - max. 100m

Dependent on server configuration and network bandwidth

+Dependent on system configuration and permissions granted*

ADDITIONAL RESOURCES

2017 PRODUCT CATALOGUE

Jacques Technologies Pty Ltd
Corporate Brochure

IP Public Safety Communication System
Whitepaper and Project References

IP Commercial Communication System
Whitepaper and Project References

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Future Proof Communications

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