FAQ - Communication/protocol/ports overview

Valid for:	N610	N670	N870	N870E	Embedded Integrator	Virtual Integrator

Introduction

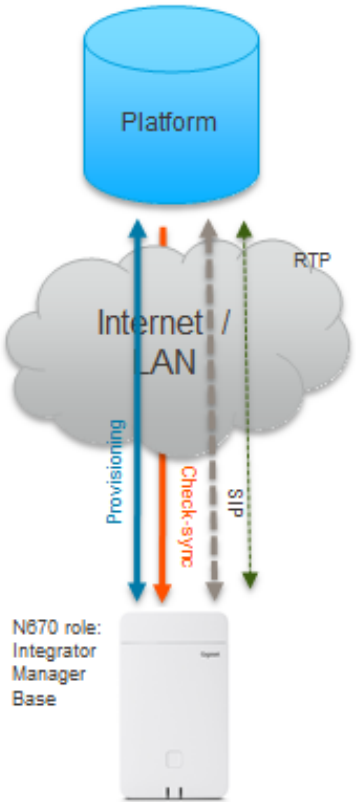
In this wiki article we will describe how the DECT system communicate, via which protocol / port number.

Protocol	Integrator	DECT Manager	DECT Base	Direction	Port Number - Default	Optional	Description
DHCP	Yes	Yes	Yes	Out	67, 68		
DNS	Yes	Yes	Yes	Out	53		
HTTP	Yes	Yes	Yes	In/Out (DM) - Out (Base)	80		Web-Interface (HTTP is disabled since 2.33.1): Integrator / DECT manager / DECT base Provisioning: Integrator Phone-books XML / Central / XSI: DECT manager Firmware update: Integrator / DECT manager / DECT base xHTML: DECT manager Communication between Integrator / DM / Base
HTTPS	Yes	Yes	Yes	Out	443		
SIP	Yes	Yes	No	In/Out	UDP/TCP 5060, TLS 5061	Can be changed	
SIP Listen Ports	No	Yes	No	In	UDP/TCP/TLS 5060 /5061	Random 5060-6000	
LDAP	No	Yes	No	Out	389	Can be changed	
RTP/ SRTP	No	No	Yes	In/Out	UDP 5004 to 29002		240 ports per 1 BS from V2.28.0 60 (satellites) * 20 (Media Instances) * 2 (RTP streams) * 6(ports) = 14.400 RTP ports 100 (satellites) * 20 (Media Instances) * 2 (RTP streams) * 6 (ports) = 24.000 RTP ports
NTP	Yes	No	No	Out	UDP 123 / TCP 37		
Syslog	Yes	Yes	Yes	Out	TCP/UDP/TLS 514	Can be changed	
SNMP	Yes	Yes	No	In/Out	UDP 161, 162; TCP 161, 162	Can be changed	SNMP statistics
DECT discovery	No	Yes	Yes	In/Out	UDP 4711 / 4712		Communication between DECT Base and DM
SSH	Yes	Yes	Yes	In/Out	TCP 22		Communication between Integrator / DM / Base
PTPv2	No	Yes	Yes	In/Out	UDP 319, 320		LAN synchronisation
uaCSTA	No	Yes	No	In/Out	UDP / TCP / TLS 5060		
MQTT	Yes	Yes	No	In (Int) - Out (DM)	TCP 8883		Communication Integrator / DECT Manager
MQTT	Yes	No	No	In	TCP 8884		Alarming/messaging application server
MQTT	Yes	No	No	In/Out	TCP 8885		Alarming/messaging application server
MQTT	Yes	No	No	In/Out	TCP 8886		Alarming/messaging application server
	No	Yes	Yes	In (DM) - Out (Base)	TCP 811		Cluster synchronization
HTTP/XML	Yes	Yes	No	In (Int) - Out (DM)	TCP 8000		Central Phone Book service
SFTP backup	Yes	No	No	Out	SSH 22		Automatic backup

System setup

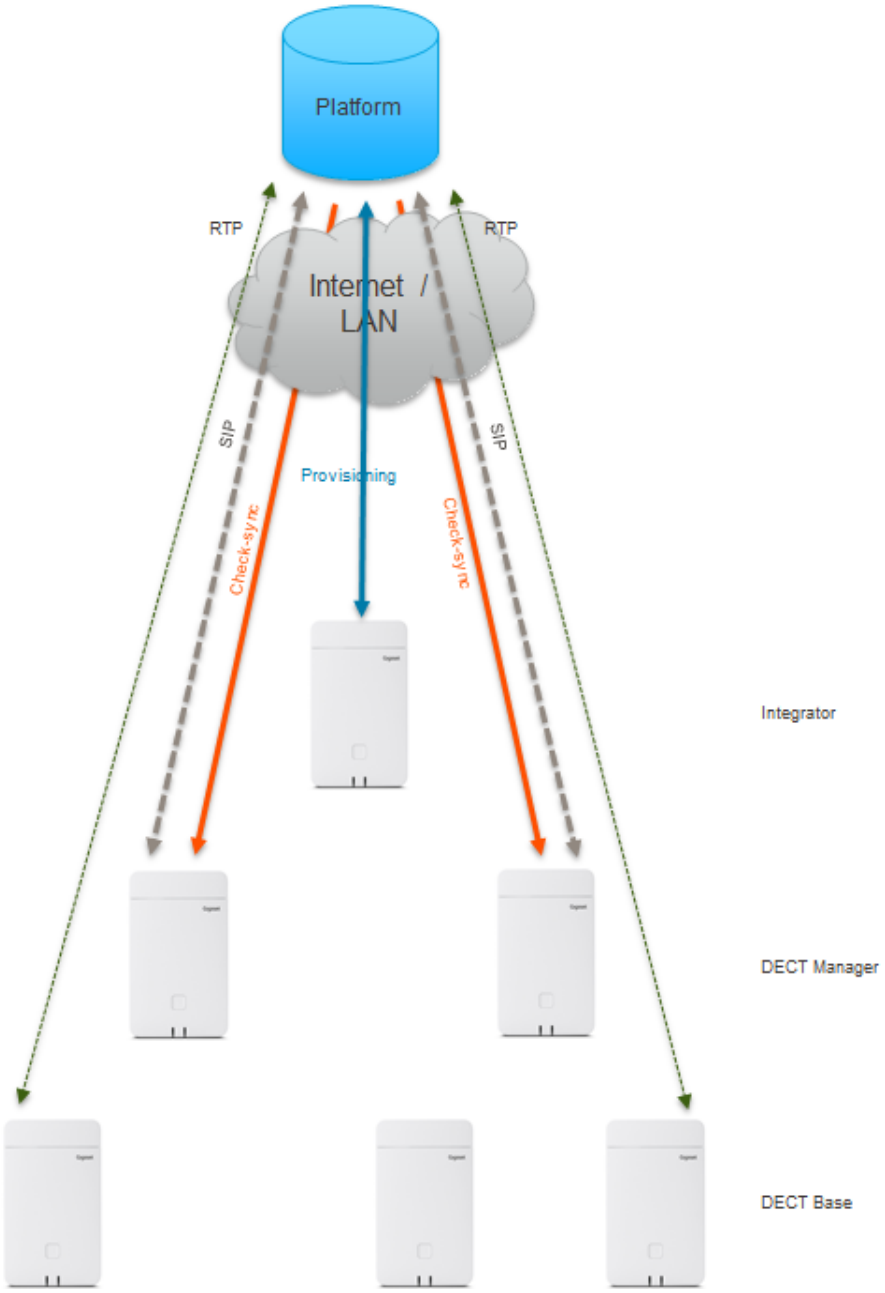
Dependent on the system setup, the communication flow towards the outside is done by one or multiple devices.

System setup one device handles all services. N670 or N870 with no extra base

Role	Picture	Protocol
Platform		Provides all services for the phone
Network		Transport layer between the device and platform
Integrator DECT manager DECT Base		• SIP • RTP/SRTP • Auto-provisioning HTTP/HTTPS • LDAP Phonebook • xHTML HTTP/HTTPS • Central/XSI/XML phonebook HTTP/HTTPS

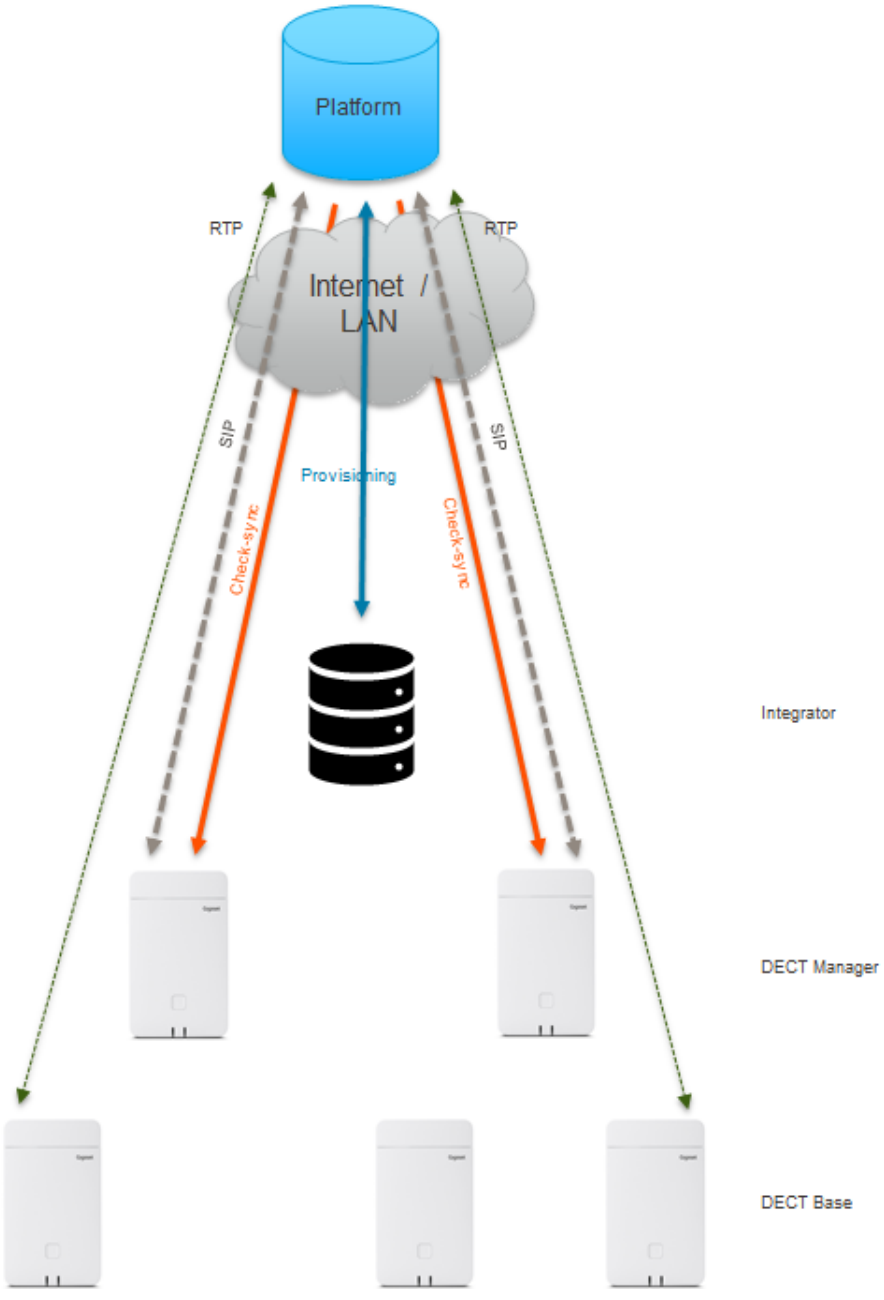
N870 in role Integrator only

Role	Picture	Protocol		
Platform		Provides all services for the phone		
Network		Transport layer between the device and platform		

N870 in role Integrator only		• Auto-provisioning HTTP/HTTPS/SIP	**IP address:** IP address N870 **User-Agent:** Gigaset N870 IP PRO/83.V2.26.0+build.fafc63f; 589EC6123456; Handset=500	

DECT manager		• SIP (S) • LDAP Phone book • xHTML HTTP /HTTPS • Central/XSI /XML phone book HTTP /HTTPS	**IP address:** IP address DMA or IP address DMB **User-Agent:** Gigaset N870 IP DMA PRO/83.V2.26.0+build.fafc63f;589EC6111111 Gigaset N870 IP DMB PRO/83.V2.26.0+build.fafc63f;589EC6222222	Some platforms do not like to receive different user-agents and put the N870 on the blacklist. It is possible to communicate with the outside world using the same user-agent. See this wiki article how this can be done. FAQ - Integrator one user agent In this example the MAC address of the Embedded Integrator is used.
DECT Base		• RTP /SRTP	**IP address:** IP address DECT base where the call has been started.	

Virtual Integrator

Role	Picture	Protocol		
Platform		Provides all services for the phone		
Network		Transport layer between the device and platform		
Virtual Integrator		• Auto-provisioning HTTP /HTTPS	**IP address:** IP address N870 **User-Agent:** Gigaset N870 VI PRO /83.V2.26.0+build.fafc63f; 589EC6111111; Handset =100	In the User-agent the MAC address of the MASTER DM is used.

DECT manager		• SIP (S) • LDAP Phonebook • xHTML HTTP /HTTPS • Centrral/XSI /XML phonebook HTTP /HTTPS	**IP address:** IP address DMA or IP address DMB **User-Agent:** Gigaset N870 IP DMA PRO/83.V2.26.0+build.fafc63f;589EC6111111 Gigaset N870 IP DMB PRO/83.V2.26.0+build.fafc63f;589EC6222222	Some platforms do not like to receive different user-agents and put the N870 on the blacklist. It is possible to communicate with the outside world using the same user-agent. See this wiki article how this can be done. FAQ - Integrator one user agent In this example the MAC address of the Master DM is used.
DECT Base		• RTP /SRTP	**IP address:** IP address DECT base where the call has been started.	