Integration Solutions with Responder® 4000

Simply put, the Responder 5 Network Adaptor Module enables Responder 4000 calls to be routed via Responder IV to Responder 5. Once Responder 4000 calls are routed to Responder 5, a true Responder nurse call network provides consolidated call notification, enterprise reporting capabilities, and a single point of integration for wireless devices and other information systems.

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Communication Flow

Patient calls originating from the Responder 4000 nurse call system are routed via the Responder 4000 X-Bus Adapter Module (XBA) and Responder IV Group Control Module (GCM) to Responder 5 through the Responder 5 Network Adapter Module (NAM). Once this communication path is established, the Responder 5 annunciation devices such as the VoIP Nurse Console, VoIP Staff Terminal, PC Console, wireless telephones and pocket pagers receive calls from Responder 4000, as if they had been placed from Responder 5 stations.

The same software interface can be used across the hospital on both Responder 4000 and Responder 5 beds, providing a consistent user interface. Assigning staff members to Responder 4000 rooms is accomplished with the Responder 5 Staff Assignments software module. Since staff assignments are accomplished in one place for both systems, a single telephony and/or pocket page interface is utilized. Through the Responder 5 Reports Manager module, reports are available for Responder 4000 call activity as well as for Responder 5.

In hospitals where Code calls are triaged from a centralized location, a Responder 5 VoIP Console and/or Staff Terminal receives all the calls from Responder 4000 and Responder 5, giving the operator the ability to communicate with the room. All the Code calls for the entire facility are also displayed on the Responder 5 PC Console if desired.

![Rauland Responder logo]

Responder® 4000 Integration to Responder 5 System Architecture

Responder 4000 (R4K) architecture is comprised of Network Interface Modules (NIM) and associated corridor lights, bed stations and consoles. The Responder 4000 X-Bus Adapter (XBA) is designed to integrate the Responder 4000 to the Responder IV nurse call system. The Responder IV system is controlled by Group Control Modules (GCM). In order to integrate a Responder 4000 to a Responder 5 (R5), you must connect an XBA to a GCM (with an associated power supply) first, before you can install a Responder 5 Network Adapter Module (NAM).

Refer to Figure 1:

- The Responder 4000 XBA bridges the Responder 4000 to the Responder IV network and the Responder 5 NAM bridges the Responder IV to the Responder 5. Thus, Responder 4000 is integrated to Responder 5

- R4K calls are processed by the XBA and the NAM and sent through to the R5 architecture

- R5 consoles receive calls from and communicate with R4K rooms

- R4K calls are routed through R5 to SIP wireless phones

- The R5 software suite allows users to interact with R4K rooms for display, staff assignments, and reporting.

Figure 1
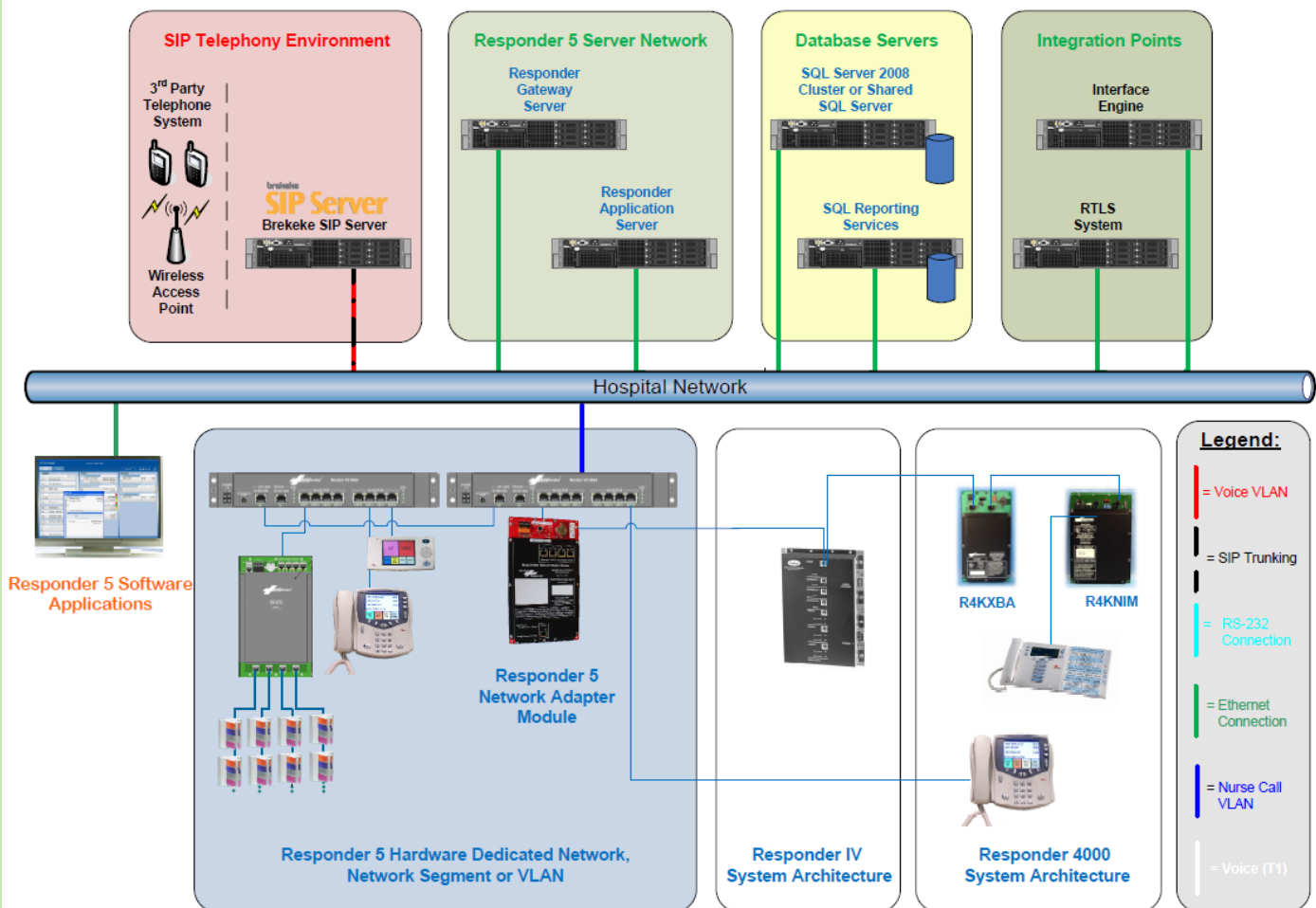
Integrated Solutions with Responder 4000

VoIP Nurse Console

When using a Responder 5 VoIP Nurse Console to cover Responder 4000 rooms or to replace a Responder 4000 console, it is capable of:

- Simultaneously displaying both Responder 4000 and Responder 5 calls
- Answering Responder 4000 calls and establishing an audio connection to the room
- Supporting centralized operations including centralized Code Blue processing
- Setting a Service Requirements on Responder 4000 rooms
- Reviewing Responder 4000 rooms in which a staff member is manually registered
- Upgrading a Responder 4000 call to a higher level call

PC Console

PC Console

A Responder 5 PC Console display can be used with Responder 4000 to:

- Display beds and calls from Responder 4000 and Responder 5 in the List View and Census View – including patient information when integrated with the ADT system.
- Display and Set a Service Requirement on Responder 4000 rooms
- Collaborate with an associated Responder 5 VoIP Console

Staff Assignments / My Profile

The Responder 5 Staff Assignment software is used to assign staff to cover and receive calls from Responder 4000 and Responder 5 beds. Staff members can be scheduled up to 7 days in advance. Through the Responder 5 My Profile, staff members can easily sign on to the Responder 4000 rooms and input the wireless phone and / or pocket pager. Responder 4000 calls can be routed to the wireless phones and / or pagers via Responder 5. Staff can now go on break when covering Responder 4000 beds as well as Responder 5 beds.

Telephony Integration

Wireless Phones

When using Staff Assignments / My Profile, the Responder 4000 calls are routed through Responder 5. If SIP wireless phones are integrated, then the staff member will be able to instantly connect to the room of the calling patient with a simple press of a button. The staff member can also set a service requirement from the phone. A single connection to the facility's telephone system will serve both the Responder 4000 and Responder 5.

Pocket Page Integration

When using Staff Assignments / My Profile, the Responder 4000 calls are routed through Responder 5 to a single pocket page system. A single connection to the facility's pocket paging system will serve both the Responder 4000 and Responder 5.

ADT Integration

With the Responder 5 HL7 for ADT Interface in place between the hospital's ADT system and Responder 5, the patient information displays on the Responder 4000 beds when viewed on the Responder 5 PC Console, Staff Assignments, and My Profile only. Patient information will not be available on any existing Responder 4000 annunciate devices. A single connection to the facility's Patient Information System will serve both the Responder 4000 and Responder 5.

Reports Manager

The Responder 5 Reports Manager module will produce reports that span both Responder 4000 and Responder 5 beds. Reports covering both systems can be combined into a single report. Note that some reports covering Responder 4000 beds may provide more limited information than those covering Responder 5 beds. All data is stored in Microsoft SQL databases for secure data storage, retrieval and data mining.

Pocket Pager

Management Reports