



Responder® 5

Application and Design Guide



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Responder® 5

Application and Design Guide



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- KI-2331 Responder 5 Staff Assignment User Guide
- KI-2239 Responder 5 Staff Terminal User Guide
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- KI-2251 Responder 5 Reports Manager User Guide

Application and Design Guides

- Responder 5 Active Directory Integration
- Responder 5 Staff Terminal Application and Design Guide
- Responder 5 Location (RTLS) Application and Design Guide
- Responder 5 Pillow Speaker and Interactive TV Application and Design Guide
- ResponderSync Application and Design Guide
- Responder 5 RNC (Responder Network Concentrator) Application and Design Guide
- Responder 5 with Telephony Interface Application and Design Guide
- Responder IV Integration with Responder 5
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Application Notes (IT)

- Responder 5 Integration to ADT Systems (HAN0053)
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Responder 5 to Ascom i62 / i75 (HTN0010)

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Installation Manuals

KI-2234 Responder 5 System Design Guide

KI-2241 Responder 5 Applications Installation Guide

KI-2246 Responder 5 ADT Interface Installation

KI-2253 Responder 5 Location Interface Installation

Responder 5 Autoquote

Responder 5 Power Calculation Worksheet

Responder® 5 Pieces and Parts

Head End Equipment

351000/351001 – Branch Regional Controller 	
	The Branch Regional Controller (BRC) is an Ethernet device that is the data, audio, and configuration hub for 4 L-Net connections. Each of the 4 L-Net ports on a BRC can support up to 24 Corridor Lights / Domeless Controllers for a total of 96 Corridor Lights / Domeless Controllers per BRC. Each BRC can control up to 80 Staff Terminals (up to 16 will display calls) and up to 16 VoIP Nurse Consoles. Up to 96 BRCs can be networked together. Note: 351001 Branch Regional Controller V2 requires configuration software T14 SP4 or later.
351002 – Network Adapter Module 	
	The Network Adapter Module (NAM) is an Ethernet device that provides the interface between the Responder IV and the Responder 5 nurse call systems. The module allows for calls placed on the Responder IV system to annunciate and to be answered on the Responder 5 system. The Responder 5 Application Software and Integrations can be used with Responder IV with the NAM in place. Please refer to the <i>Responder IV Integration with Responder 5 Application and Design Guide</i> and the <i>Responder 4000 Integration with Responder 5 Application and Design Guide</i> for more details.
351010 – Responder Network Concentrator 	
	The Responder Network Concentrator (RNC) is an Ethernet device that enables Branch Regional Controllers and Network Adapter Modules to talk to each other across multiple subnets on the hospital's network. Please refer to the <i>Responder Network Concentrator Application and Design Guide</i> for more details on how and when to use them in a Responder 5 network.

Responder® 5 Pieces and Parts

Head End Equipment (cont.)

351003 – Power Supply With Battery Backup		
	The Power Supply provides 36.0V DC power for local Responder 5 components including consoles, staff terminals, patient stations, corridor lights, Branch Regional Controllers, and Responder Ethernet switches. A built in battery backup will support a fully loaded Responder 5 system for up to 4 minutes (when fully charged) in the event of an AC power failure (during the transition to the facility's emergency backup generators). Please refer to the Responder 5 Power Calculation worksheet for proper power distribution.	
351004 – Ethernet Switch – 8 Port - POE		
	The 8 Port Ethernet Switch provides network connectivity to 8 10/100 ports and 2 gigabit uplink trunk ports for the Responder 5 system. It is 802.3af compliant with Power over Ethernet (PoE) available on all eight 10/100 Ethernet ports for powering Nurse Consoles, Staff Terminals, and Fiber Optic Adapters. Power for the 8 port Ethernet switch with PoE output requires a dedicated Power Supply with Battery Backup. Rack mount ears are available - Rack Mount Kit for Switch.	
351006 – Fiber Optic Adapter/Converter		
	The Fiber Optic Media Converter allows the Ethernet connection of the Branch Regional Controllers and Responder 5 Switches to be connected via multi-mode fiber optic cable. Power can be supplied to the Media Converter from the front panel 2 pin 36V jack or over the copper CAT5 cable from Power over Ethernet (PoE). The Fiber Adapters extend an Ethernet connection from 1000 to 1500 feet.	

Responder® 5 Pieces and Parts

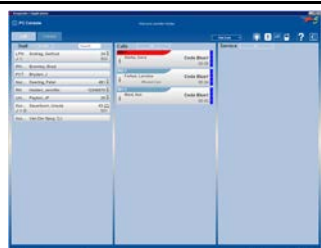
Software and Integrations

355000 – R5Ware Firmware, Diagnostics Software 	
	The R5Ware Firmware, Diagnostics software contains the Firmware and Configuration software for configuring the Responder 5 hardware and the Responder Gateway Software (RGS) to install on the Responder Gateway Server as well as Diagnostic software for monitoring and troubleshooting the installation. The RGS is the communication interface between the Responder 5 nurse call system and other Responder servers.
355001 - Interface—Pocket Page—25 Beds 	
	The Pocket Page Interface provides integration with standard pocket page transmitters and wireless device messaging applications. The Pocket Paging Interface is a software application that runs on a computer or Responder Gateway Server (RGS) and serves as the interface to a pocket paging encoder, transmitter or PC used for wireless telephony messaging. The Pocket Paging Interface supports TAP 1.8 protocol standard. The Pocket Page Interface provides licenses in increments of 25 Responder nurse call beds created. This module (along with PC Console and Staff Assignment) is needed when staff are using pocket pagers or non-SIP phones; whether using the Responder 5 Staff Assignment or any third party staff assignment programs.
355002 – Interface—Telephone - 25 Beds 	
	The Telephone Interface provides communication from the Responder 5 nurse call system to wireless and/or wired phones. The facility chooses the brand or brands of wireless/wired phones to use. The Telephony Interface module is a software application that runs on the Responder Gateway Server to provide a true SIP telephony integration. With this interface, calls placed from the Responder 5 nurse call system can be routed to their designated caregiver's phone with the patient call displaying the nurse call information on the phone. The Telephone Interface provides licenses in increments of 25 Responder nurse call beds created. This module (along with PC Console and Staff Assignment) is needed when staff are using SIP phones; whether using the Responder 5 Staff Assignment or third party staff assignment programs.

Responder® 5 Pieces and Parts

Software and Integrations (cont.)

366102 – PC Console (Responder 5 Apps) - 25 Beds



The PC Console is a fully integrated application that displays all nurse call activities on a networked workstation (PC). The application is implemented as a client server model and is executed by clicking a short cut on the desktop(s). The communication protocol between the client and the server is strictly TCP/IP on a facility's LAN/WAN. These workstations are non-dedicated, non-Rauland supplied computer that can co-host any other facility supported software.

The PC Console— 25 Beds provides licenses in increments of 25 Responder nurse call beds created.

This module is needed whenever the system goes beyond a 'lights and tones nurse call'. For example if a hospital wants to implement wireless phones, location devices, electronic whiteboards, staff assignment (Responder or third party) or reporting capabilities are utilized in a facility.

366104 – Staff Assignment Client -25 Beds

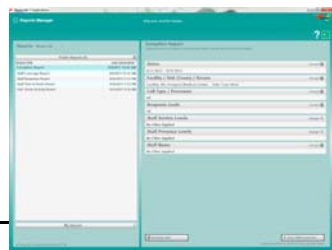


The Staff Assignment Client is a software application that allows staff members to pre-assign caregivers to be responsible for certain patient or room needs. These needs can be ranged from needing assistance to the bath, a patient fall, or a spill in the room and can be assigned to the appropriate staff or team member(s).

The Staff Assignment Client -25 Beds provides licenses in increments of 25 Responder nurse call beds created.

This module (along with PC Console) would be needed when staff members wish to receive nurse call notification on wireless alert devices. This module would also be necessary when using third part staff assignment for wireless devices.

366200 – Reports Manager—25 Beds



The Reports Manager is an application that allows users to run meaningful reports from the MS SQL 2012 or 2014 database. The reports allow granular access (specific reports, specific units) to be granted based on the user's role.

The Reports Manager 25 Beds provides licenses in increments of 25 Responder nurse call beds created.

This module (along with PC Console) would be needed when staff would like management reports of the nurse call data.

Responder® 5 Pieces and Parts

Software and Integrations (cont.)

366402 – Interface HL7 (ADT) - 25 Beds	
	The Interface HL7 (ADT) allows integration with the facility's Health Information System, specifically the ADT (Admission, Discharge and Transfer) components. Patient information will be displayed on the PC Console screens in the census and list view of calls. Patient information shall also be displayed in the Staff Assignment, My Profile and Reports Manager modules. The Interface HL7 (ADT) 25 Beds provides licenses in increments of 25 Responder nurse call beds created. This module (along with PC Console) would be needed when staff would like to see patient information on the Responder 5 Census View or other Responder 5 applications.
366401 – Location (RTLS) Interface—25 Beds	
	The Location (RTLS) Interface is a vendor neutral integration that shares staff location information back and forth between the Responder 5 system and the location system. This integration allows facilities to capitalize on the technology that brings additional benefits to the nurse call. The tracking of staff members brings efficiencies to the nurse call workflow. The Location Interface controls what staff member can automatically close a nurse call event, room request or a patient care reminder. The Location (RTLS) Interface 25 Beds provides licenses in increments of 25 Responder nurse call beds created. This module (along with PC Console) would be needed when staff are using RTLS badges to location staff.
366404—All Touch EMR	- 25 Beds
	Responder All Touch® is an optional software interface that allows for Third Party Systems to start Events in the Responder 5 System via Standard HL7 messages. This interface reduces duplicate data entry, improves communication and streamlines workflows by allowing third-party systems communicating through standard messaging protocols to light Corridor lights, Color SWOOPs and place calls to Responder 5 users throughout the hospital. The All Touch EMR Interface 25 Beds provides licenses in increments of 25 Responder nurse call beds created with Staff Terminals This module (along with PC Console and ADT Interface) would be needed .

Responder® 5 Pieces and Parts

Consoles and Staff Terminals

351200/351205– Nurse Console



The VoIP Nurse Console has a color LCD screen and is used to communicate with patients and staff from the console base to the speaker-equipped audio stations, via full-duplex audio and initiate system functions via 24 programmable action buttons. A Console Receptacle is included with the console along with the console base. Up to 16 consoles can be associated with 1 Branch Regional Controller.

351300 – Staff Terminal



The VoIP Staff Terminal is a dynamic device that functions as a patient or procedure room communications tool while providing staff with “soft” touch-points to initiate an instantaneous workflow process. Additionally this terminal may be used as a functional nurse call console or duplex intercom station. Up to 80 VoIP Staff Terminals (up to 16 of which can display calls) can be associated with 1 Branch Regional Controller.

Responder® 5 Pieces and Parts

Corridor Lights / Domeless Controllers

352000 – Corridor Light - 4 Position	
	The Corridor Light can support up to 16 call-in stations; with a maximum of 3 audio stations. Each corridor light has 2 audio ports and 1 non-audio port. An M-Net divider needs to be added to support the third audio station. Unique RGB LEDs provide high-visibility annunciation of patient calls. The colors, patterns and flash rates of the LEDs are fully programmable. The colors included are: White, Red, Orange, Yellow, Green, Blue, and Pink.
352020/352021 – Domeless Corridor Controller	
	The Domeless Room Controller can support up to 16 call-in stations; with a maximum of 3 audio stations. Each domeless controller has 2 audio ports and 1 non-audio port. An M-Net divider needs to be added to support the third audio station. The Domeless Controller can also be installed in areas where additional room stations are needed such as in a ward environment or where a corridor light is not needed. The Domeless Controller mounts onto a variety of single and dual gang back-boxes.
352004 – Mini Corridor Light	
	The Mini Corridor Light is typically located within a multi-bed room and is used to provide remote, visual indication of calls originating from a specific bed or station. The Mini Corridor light is an M-Net device that has to connect to a Corridor Light or Domeless Controller and can be daisy chained like other non-audio room devices. It can be configured to display calls from a specific bed or station.
350004 – L-Net Hub Adapter	
	The L-Net Hub Adapter is a module that allows for an L-Net run on the Responder 5 to be split for areas such as hallway intersections or corner areas. The L-Net Hub Adapter is powered from the L-Net power conductors in the CAT5/6 cable. Each L-Net Hub Adapter reduces the 3000 ft maximum length of a single L-Net run by 420 ft. There is a maximum number of 3 L-Net Hub Adapters per L-Net port on a BRC.

Responder[®] 5 Pieces and Parts

Room Devices — Audio

353000 – Single Patient Station	
	The Single Patient Station allows both patients and staff to place different call-ins, depending on their requirements. The patient station interfaces with entertainment handsets / pillow speakers and specialty feature beds (when used with the Feature Bed Control Module) to initiate calls, control entertainment, control lighting, and provide nurse call audio and entertainment audio through the respective speakers. The Single Patient Station has have built-in electronics for connection to Analog or Digital TVs as well as lighting controls (low voltage lighting control not included). Counts as 1 bed for Responder 5 Software and Integrations licensing.
353010 – Dual Patient Station	
	The Dual Patient Station allows both patients and staff to place different call-ins, depending on their requirements. The patient station interfaces with entertainment handsets / pillow speakers and specialty feature beds (when used with the Feature Bed Control Modules) to initiate calls, control entertainment, control lighting, and provide nurse call audio and entertainment audio through the respective speakers. The two beds share Nurse Call activity but with separate TV and lighting control through pillow speakers. The Dual Patient Station has have built-in electronics for connection to Analog or Digital TVs as well as lighting controls (low voltage lighting control not included) for each patient. Counts as 2 beds for Responder 5 Software and Integrations licensing.
353001 – Enhanced Single Bed Station	
	The Enhanced Single Patient Station is a single bed station with the added capability of placing two additional calls. The station also allows both patients and staff to place different call-ins, depending on their requirements. The patient station interfaces with entertainment handsets / pillow speakers and specialty beds (when used with the Feature Bed Control Module) to initiate calls, control entertainment, control lighting, and provide nurse call audio and entertainment audio through the respective speakers. The Enhanced Single Patient Station has have built-in electronics for connection to Analog or Digital TVs as well as lighting controls (low voltage lighting control not included). Counts as 1 bed for Responder 5 Software and Integrations licensing.

Responder[®] 5 Pieces and Parts

Room Devices — Audio (cont.)

353101 – Staff Station 	The Staff Station typically located in a room or on a floor where staff members may be working. The station may also be used in patient areas such as day rooms or visitor's lounges or wherever call-in and two-way audio communication is desired. The station can also interface with a remote DIN station and lighting controls. The station provides a call-in pushbutton in the audio-visual system. The staff or patients communicate through the stations built-in speaker/microphone. Does not typically count as a bed for Responder 5 Software and Integrations licensing.
353100 – Duty Station 	The Duty Station is typically located in a utility room or an area where staff members may be working and need notification of active calls within their area. In an audio-visual system, the station also provides a call-in pushbutton, which allows for two-way audio communication. The 4 LED indicators provide visual indication of calls by mimicking the corridor light. Each LED can light one of seven colors. The station also provides audible indication of calls. The Duty Station must be the only audio station associated with a corridor light or domeless controller. Does not count as a bed for Responder 5 Software and Integrations licensing.
354000 – Pull Cord Station with Audio 	The Pull Cord station with Audio is an emergency pull cord station that provides the ability to place a unique call-in priority from a single station by pulling on its plastic cord. In addition, a call can be placed from the push button on the station that can be customized to a unique call-in priority to function as a routine call or an emergency call. The Pull Cord station with Audio also contains a speaker and microphone, so that caregivers can speak directly with the patient in the bathroom if desired. Refer to the chart on page 51 for licensing. This station may count as a bed depending on where it is used.

Responder® 5 Pieces and Parts

Room Devices — Non-Audio

354001 – Pull Cord Station	
 The image shows a white rectangular pull cord station. It has a red circular button in the center with a white pull cord attached. Above the button is a small green indicator light. The station is designed to be water-resistant and is typically mounted in bathrooms.	The Pull Cord station is an emergency pull cord station that provides the ability to place a unique call-in priority from a single station by pulling on its plastic cord. The Pull-cord station is typically located in bathrooms near the toilet and in the shower. Unit may utilize remote Cancel button(s) for ease of nurse call cancel when pull cord is mounted in an inaccessible location (e.g. ceiling). To make the station water-resistant, the station perimeter is caulked on three sides with sealant. It also has water diversion channels that open along the bottom of the station for drainage and a bio-seal over the Cancel button. The Pull-cord station is connected to its associated corridor light or domeless room controller and is continually supervised.
354002 – Pull Cord Station with Call Button	
 The image shows a white rectangular pull cord station with a call button. It has a red circular button in the center with a white pull cord attached. Above the button are two small indicator lights, one green and one yellow. The station is designed to be water-resistant and is typically mounted in bathrooms.	The Pull Cord station with Call Button is an emergency pull cord station that provides the ability to place a unique call-in priority from a single station by pulling on its plastic cord. In addition, a call can be placed from the push button on the station that can be customized to a unique call-in priority to function as a routine call or an emergency call. Unit may utilize remote Cancel button(s) for ease of nurse call cancel when pull cord is mounted in an inaccessible location (e.g. ceiling). To make the station water-resistant, the station perimeter is caulked on three sides with sealant. It also has water diversion channels that open along the bottom of the station for drainage and a bio-seal over the Cancel button. The Pull-cord station is connected to its associated corridor light or domeless room controller and is continually supervised.
354010 – Cancel Station	
 The image shows a white rectangular cancel station. It has a large green circular button in the center with a white cancel symbol. The station is designed to be water-resistant and is typically mounted near the door of a patient room.	The Cancel Station can be programmed to cancel some or all call priorities placed from a room. The Cancel Station is used in situations where the cancel button on the patient station or button station is too difficult to reach. It is normally located by the door just inside the patient room. The Cancel Station is connected to its associated corridor light or domeless room controller and is continually supervised.

Responder® 5 Pieces and Parts

Room Devices — Non-Audio (cont.)

354015 – Staff Assist / Code Station	
 The Staff Assist / Code Station is a white rectangular device with a green cancel button at the top, a red 'STAFF ASSIST' button in the middle, and a blue 'CODE' button at the bottom. It has a small red indicator light at the top.	The Staff Assist / Code Station is an emergency dual pushbutton station that has the ability to place 2 unique call priorities from a single station. The station provides outputs for elapsed timer(s) (the associated timer must support either a momentary or latched contact closure input). The Staff Assist / Code buttons are back-lit for easier location in dark room. The Staff Assist / Code Station is connected to its associated corridor light or domeless room controller and is continually supervised.
354011 – Code Station	
 The Code Station is a white rectangular device with a green cancel button at the top and a large blue 'CODE' button in the middle. It has a small red indicator light at the top.	The Code Station is a call pushbutton station providing the ability to place a code call. Pressing the cancel button cancels the call. This station provides an output for an elapsed timer supporting a momentary or latched contact closure output. The Code Blue button is back-lit for easier location in dark room. Using special buttons, the stations can be customized for unique call-ins such as “Code Pink”. The Code Station is connected to its associated corridor light or domeless room controller and is continually supervised.
354012 – Staff Assist Station	
 The Staff Assist Station is a white rectangular device with a green cancel button at the top and a large red 'STAFF ASSIST' button in the middle. It has a small red indicator light at the top.	The Staff Assist Station is a call pushbutton station providing the ability to place a staff call. Pressing the cancel button cancels the call. This station provides an output for an elapsed timer supporting a momentary or latched contact closure output. The Staff Assist button is back-lit for easier location in dark room. The Staff Assist station is connected to its associated corridor light or domeless room controller and is continually supervised.

Responder[®] 5 Pieces and Parts

Room Devices — Non-Audio (cont.)

354016 – Bed Status Station 	The Bed Status Station provides 4 distinct call-in priorities: “Transport”, “Cleaning Needed”, “Cleaning in Progress” and “Bed Ready”. Cancellation of each button can be initiated by pressing the button again; pressing the Cancel button or the next button in sequence (pressing “Cleaning in Progress” can cancel “Cleaning Needed”). The buttons are back-lit for easier location in dark room. Custom labeled/colored buttons allows the station to be used for many different purposes—including staff registration. The Bed Status Station is connected to its associated corridor light or domeless room controller and is continually supervised.
354017 – Staff Registration Station 	The Staff Registration Station provides the ability for staff to manually register into each patient room or staff location. The default configuration provides three (3) levels of staff and one (1) call-in button. By pressing the staff registration button on the Staff Registration Station the associated corridor light(s) will light to indicate that a staff member is in the room. The buttons are back-lit for easier location in dark room. Custom labeled/colored buttons allows the station to be used for many different purposes—including call-ins. The Staff Registration Station is connected to its associated corridor light or domeless room controller and is continually supervised.
354018 – 2 Jack Station 	The 2-Jack Station provides the ability to place two unique call priorities from a single station. The 2-Jack Station allows an alarm from patient monitoring equipment to light corridor lights, tone and display at a console, as well as directly alert caregivers carrying wireless devices. Each ¼” isolated jack is supervised, so if a piece of equipment is unplugged a call will be placed. The 2-jack Station is also supervised for data and / or power faults and each jack is optically isolated from the alarming device.

Responder® 5 Pieces and Parts

Room Devices — Non-Audio (cont.)

350005 – M-Net Divider Module 	The M-Net Divider Module is a module that allows multiple audio and non-audio stations to share a corridor light or domeless room controller. Each corridor light and domeless controller has a connection for two (2) audio stations and one (1) non-audio station. In the cases where additional stations need to be wired to the corridor light instead of to the patient station or other button stations, the M-Net Divider Module can support three (3) call-in stations, up to two (2) of which can have audio capability.
353200 – Remote Audio Station 	The Remote Audio Station features a 3" speaker for increased audio output where extra nurse call tone output is needed. The call tones are configured by coverage. The night tone button allows users to easy toggle the audio level. The cancel button allows for local muting of the tone at the station. The Remote Audio Station must be the only audio station associated with a corridor light or domeless controller.
353201 – Remote Audio Output Module 	The Remote Audio Output Module is designed to provide either an isolated output to a page amplifier or an isolated input to trigger a call from a room. The isolated output contact will connect to a page amplifier driving an overhead paging system. This module is made to fit inside the Domeless Controller case.

Responder® 5 Pieces and Parts

Room Devices — Non-Audio (cont.)

354100 – Input Module – 2 Point 	
	The Responder Input Module - 2 point is designed to interface external latching alarm dry contacts to annunciate through the Responder 5 system. One Input Module - 2 point would be associated with a single fire alarm or door alarm (Auxiliary) contact. The contact can be supervised and annunciated upon failure at the nurse console.
354101 – Solid State Output Module – High Current 	
	The Responder Solid Station Output Module – High Current is designed to allow the Responder 5 to activate external devices via a contact closure upon the initiation of a call. External devices could be incandescent bulbs on a high security door or a magnetic door latch, any device that requires a high voltage for activation. This module is used along with a Corridor Light or Domeless Controller.
354102 – Relay Output Module – Dry Contact 	
	The Responder Relay Output Module – Dry Contact is designed to allow the Responder 5 to activate external devices via a dry contact closure upon the initiation of a call. External devices could be an electronic lock or CCTV. This module is used along with a Corridor Light or Domeless Controller.
354103 – Solid State Output Module – Low Current 	
	The Responder Solid Station Output Module – Low Current is designed to allow the Responder 5 to activate external devices via a contact closure upon the initiation of a call. External devices could be a code blue timer or annunciate panel, any device that requires a low voltage for activation. This module is used along with a Corridor Light or Domeless Controller.

Responder[®] 5 Pieces and Parts

Accessories

Enhanced Pillow Speakers	
	The Enhanced series of Pillow Speaker models are designed specifically for use only with the Responder 5 nurse call system (9-pin DIN style) and hospital grade digital televisions. The Tilt/Release DIN receptacle allows for ease of disconnecting Pillow Speaker from the patient station. The pillow speakers combine in one compact unit: up to two (2) controls for room lighting, a speaker for listening to TV and nurse call audio, and a microphone for the patient to communicate to the nurse call system. All models include an easily identified Nurse Call button and three (3) additional nurse call buttons for the patient to indicate a need: “Water”, “Pain”, or ‘Toilet”. Models also include TV Control button, TV Volume (control thumbwheel or up/down buttons), TV Channel up/down, Closed Caption, and Mute buttons in addition to a numeric keypad, back and guide buttons. Refer to the Pillow Speakers & Interactive TV Application and Design Guide for additional information.
Standard Pillow Speakers	
	The Standard series of Pillow Speaker models are designed specifically for use only with the Responder 5 nurse call system (9-pin DIN style) and hospital grade digital televisions. The Tilt/Release DIN receptacle allows for ease of disconnecting Pillow Speaker from the patient station. The pillow speakers combine in one compact unit: up to two (2) controls for room lighting, a speaker for listening to TV and nurse call audio, and a microphone for the patient to communicate to the nurse call system. All models include an easily identified Nurse Call button and three (3) additional nurse call buttons for the patient to indicate a need: “Water”, “Pain”, or ‘Toilet”. Models also include TV Control button, TV Volume (control thumbwheel or up/down buttons), TV Channel up/down, Closed Caption, and Mute buttons. Refer to the Pillow Speakers & Interactive TV Application and Design Guide for additional information.
Basic Pillow Speakers	
	The Basic series of Pillow Speaker models are designed for use with the Responder 5 nurse call system (9-pin DIN style) and analog hospital grade televisions. The Tilt/Release DIN receptacle allows for ease of disconnecting Pillow Speaker from the patient station. The pillow speakers combine in one compact unit: up to two (2) controls for room lighting, a speaker for listening to TV and nurse call audio. All models include an easily identified Nurse Call button, TV control button and Volume Control. Refer to the Pillow Speakers & Interactive TV Application and Design Guide for additional information.

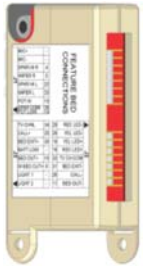
Responder® 5 Pieces and Parts

Accessories (cont.)

CC200 – Call Cord		
	The CC200 – Call Cord is a 10-foot call cord with 1/4" jack style connector.	
350100 – Call Cord w/Tilt-Release DIN		
	The Call Cord w/Tilt-Release DIN is a sealed call button with a 10-foot call cord and a 9-Pin DIN style connector.	
350300 – Remote Tilt/Release DIN Station		
	The Remote Tilt/Release DIN Station allows an additional Responder 5 Pillow Speaker or Call Cord (with the 9-pin DIN connector) device to be connected to a Single Patient station, Enhanced Single Patient station or Staff Station. It cannot be used with the Dual Patient Station. The Tilt/Release DIN receptacle allows for ease of disconnecting Pillow Speaker without damage to the station or pillow speaker.	
350301 – Remote Standard 8-pin DIN Station		
	The Remote Standard 8-pin DIN Station allows an additional 8-Pin DIN device to be connected to a Single Patient station or Enhanced Single Patient Station. This module is designed to be used in rooms where Legacy Responder Pillow Speakers, or non-Rauland Pillow Speakers are being used. The Remote Standard 8-pin DIN Station can only be used with the Single Patient Station, the Enhanced Single Patient Station, or Staff Station. It cannot be used with the Dual Patient Station.	
350008 – Clear Cover— Button Stations		
	The Clear Cover— Button Stations is a clear, plastic cover that can be added to a single or dual button station to prevent accidental pressing of the call buttons. The cover is attached to the station via a metal bracket. The cover has a lip at the bottom to easily allow staff to flip the cover up to access the buttons. The Cancel button is not covered to allow quick canceling of calls.	

Responder® 5 Pieces and Parts

Accessories (cont.)

	350022 – Clear Station Cover for Enhanced Patient Station The Clear Cover— Enhanced Patient Station is a clear, plastic cover that can be added to the Enhanced Patient Station to prevent accidental pressing of the additional call buttons. The cover is attached to the station via 2-sided tape. The cover has a lip at the bottom to easily allow staff to flip the cover up to access the buttons. A specially sized and shaped bio-seal comes with the cover. The Cancel button is not covered to allow quick canceling of calls.
	350023– Clear Button Cover for 4 Button Stations The Clear Cover— 4 button stations is a clear, plastic cover that can be added to the Bed Status Station or the Staff Registration Station to prevent accidental pressing of the call buttons. The cover is attached to the station via a metal bracket. The cover has a lip at the bottom to easily allow staff to flip the cover up to access the buttons. The Cancel button is not covered to allow quick canceling of calls.
	350302 – Feature Bed Control Module The Feature Bed Control Module provides the circuitry to interface a feature bed to a Responder 5 patient station. With this interface, all nurse call and entertainment functions are transferred to the bed, and the entertainment audio is muted at all speakers (station, pillow speaker(s), bed-rails) when nurse call audio is present. One Feature Bed Control Module is needed for every bed you wish to interface with, so 2 modules would be needed with the Dual Patient Station. The Feature Bed Control Module allows for additional features including intercom to the Console over the bed rails (when no pillow speaker is present). Please refer to the Responder 5 Room Integration Overview Tech Note (H0018TN) for detail information on audio behavior.
	NCBED5 – Feature Bed Receptacle— 37 Pin The NCBED5 Feature Bed Receptacle is a 37-Pin receptacle that interfaces the feature bed with side rails to the Responder 5 nurse call system along with the Feature Bed Control Module. The receptacle is mounted on a single gang stainless steel plate. The feature bed connects to the receptacle via a bed cable or via the Wireless Bed Units. The receptacle is then wired to the Responder 5 Feature Bed Control Module via three (3) pre-terminated 8-pin connectors for easy installation. The Feature Bed Control Module is then wired via a single Cat5/Cat6 cable to the Responder 5 patient station.

Responder® 5 Pieces and Parts

Accessories (cont.)

Bio-Seals	
Bio-Seals enhanced Infection Control. They are a hard coated, textured polyester clear film with Microban® antimicrobial protection. Bio-Seals are chemical, abrasion and scratch resistant. They protect against bacteria, mold and mildew growth while sealing the button from moisture making them easy to clean.	
350011	Designed for the small Cancel button that is on the Responder 5 audio and non-audio stations. Bio-seals come in packs of 10. 
350012	Designed for the small buttons on the Staff Assist / Code Station. One Bio-seal covers both buttons. Bio-seals come in packs of 10. 
350013	Designed for the large buttons on the Code Blue Station, Cancel Station, and the Staff Assist Station. One Bio-seal is need for each button. Bio-seals come in packs of 10. 
350014	Designed for the left side of the Duty Station and Staff Station to cover the call button. Bio-seals come in packs of 10. 
350015	Designed for the right side of the Enhanced Single Patient station to cover the Staff Assist and Code Button. One Bio-seal covers both buttons. Bio-seals come in packs of 10. 
350016	Designed for the Staff Terminal Bio-seals come in packs of 5. 

Responder® 5 Pieces and Parts

Connectors and Adapters

350018 – Responder 8-Pin SL Connector Pack (100 per pack)	
	Responder 8-Pin SL Connectors are used to connect all audio and non-audio stations to the M-Net cable using 4-pair Cat5/6 cable. Connectors are not provided with any station. The Responder 8-Pin SL Connectors come in packs of 100. 
350002 – L-Net Connector Module (25 per pack)	
	The L-Net Connector Modules are used to connect Corridor Lights and Domeless controllers to the L-Net cable. Connectors are not provided with Corridor Lights or Domeless devices. The L-Net Connector Modules come in packs of 25. 
350003 – L-Net Termination Resister (10 per pack)	
	L-Net Termination Resisters are used to indicate the end of an L-Net run. One termination resister needs to be plugged into the open L-Net connector of the last Corridor Light / Domeless Controller on every L-Net run. The L-Net Termination Resisters come in packs of 10. 

Responder[®] 5 System Layout

The heart of Responder 5 is the Branch Regional Controller (BRC). The BRC is the central control for all stations, consoles, and corridor lights in the system. In the Responder 5 system, the corridor lights and domeless controllers are the control devices. Therefore, each station must be associated with a corridor light or domeless controller.

NOTE: All cable is 4-pair, Category 5E / 6
Total length of L-Net cable per port is 3000 ft. cumulative.
Each BRC has 4 L-Net connections.

Responder 5 Network

UL 1069
Nurse Call
Devices



MS SQL

Reports

Application

Gateway

Servers



Responder® 5 Room Design

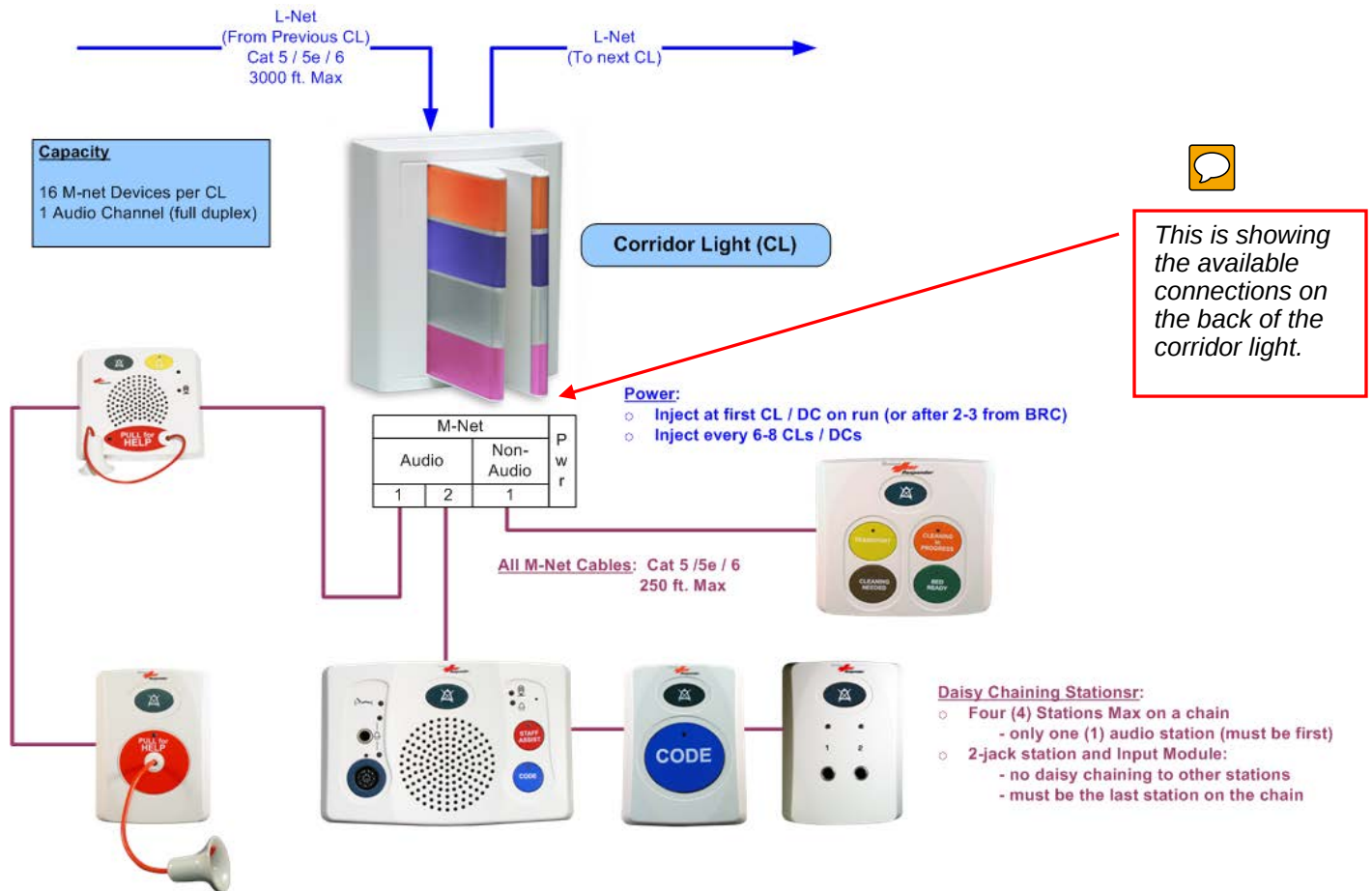
The Corridor Light and Domeless Controllers have three (3) M-Net connections for connecting stations. There are two (2) audio connections and one (1) non-audio connection. Audio stations can only connect to audio ports on the corridor lights / domeless room controllers. Non-audio stations can be chained off of an audio station or off of another non-audio station.

M-Net dividers allow the splitting of an audio or non-audio M-Net connection from the corridor light/domeless controller. Up to four (4) stations may be daisy chained on an M-Net connection. Only one (1) audio station may be on the chain, and it must be first in the chain. Each audio and non-audio station counts as one (1) in the four (4) station count in a daisy chain, but the 2-Jack station and the Input Module must be at the end of the chain.

The Remote DIN stations and the Feature Bed Control Modules do not count in the 4 station maximum in a station daisy chain. These connect to the audio stations via designated connectors. Remote DIN stations can only be used with the Single, Enhanced Single Patient stations or Staff Stations. Only one Remote DIN can be used per Single, Enhanced Single Patient station or Staff Station.

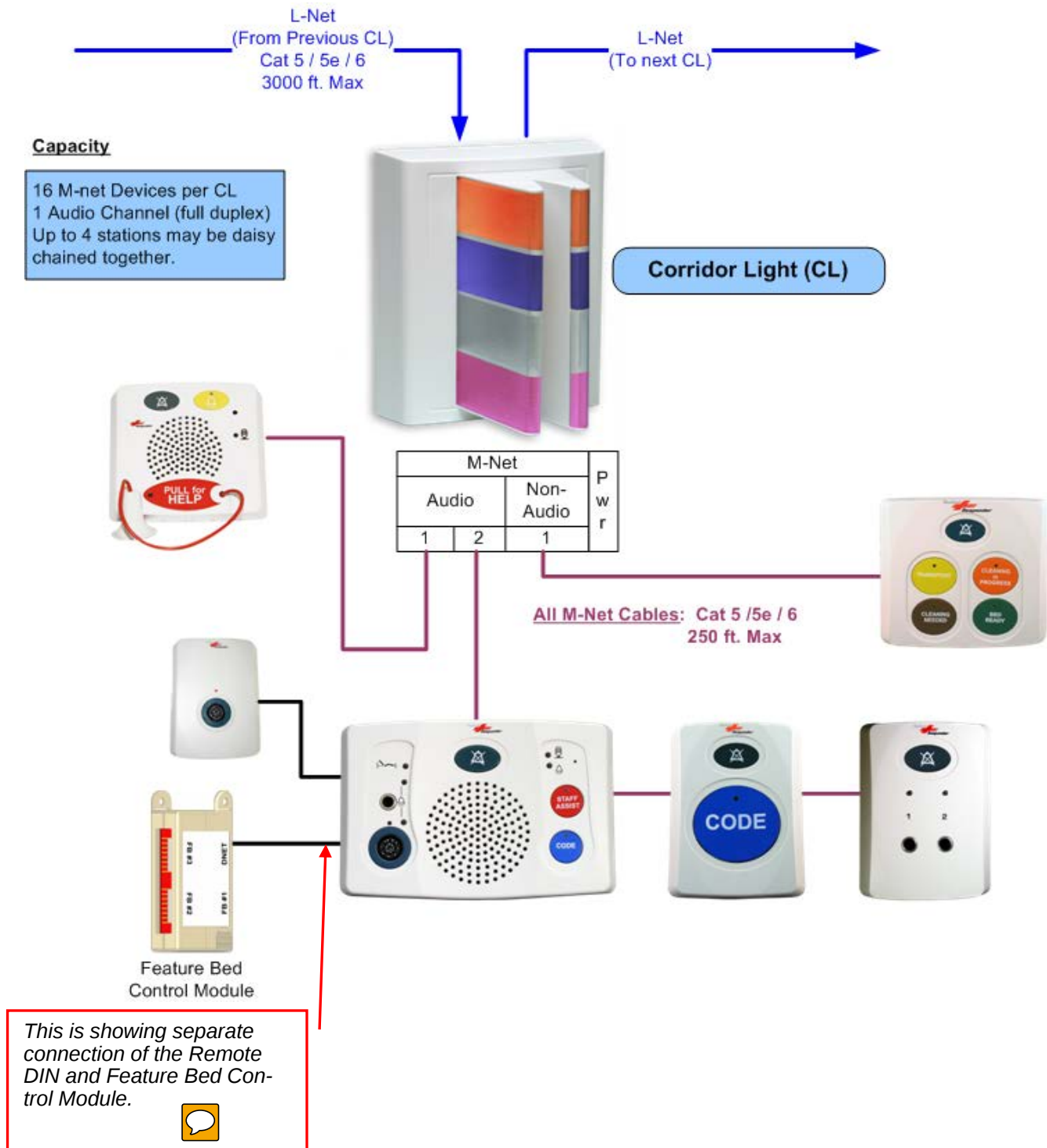
Following are some wiring examples showing the daisy chaining of stations as well as the use of M-Net dividers.

Responder® 5 Room Designs

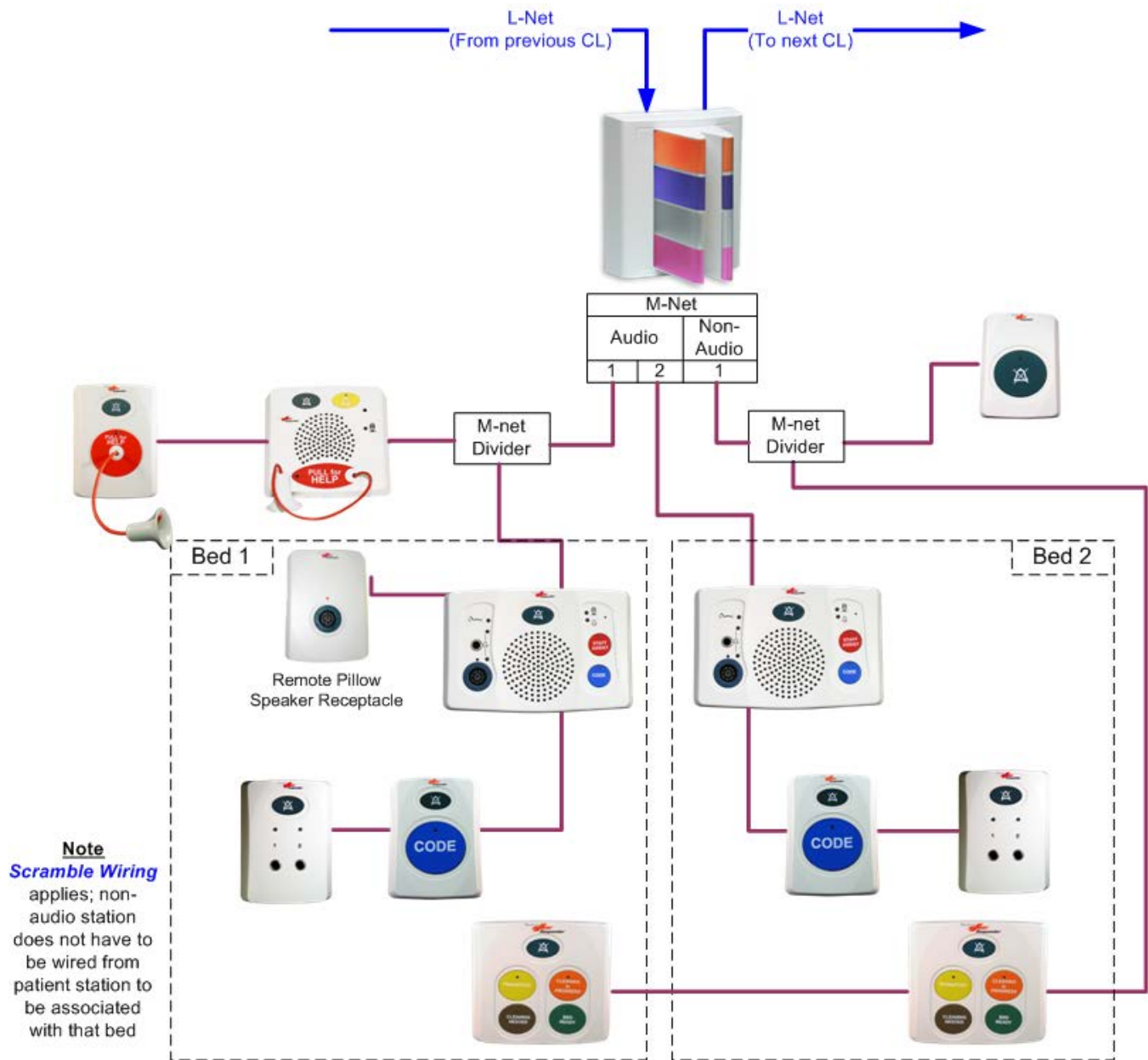


This example shows the Code Blue and 2 Jack station daisy chained off the Patient station. Also, see the pull cord station is chained off the Audio pull cord station.

Responder® 5 Room Designs



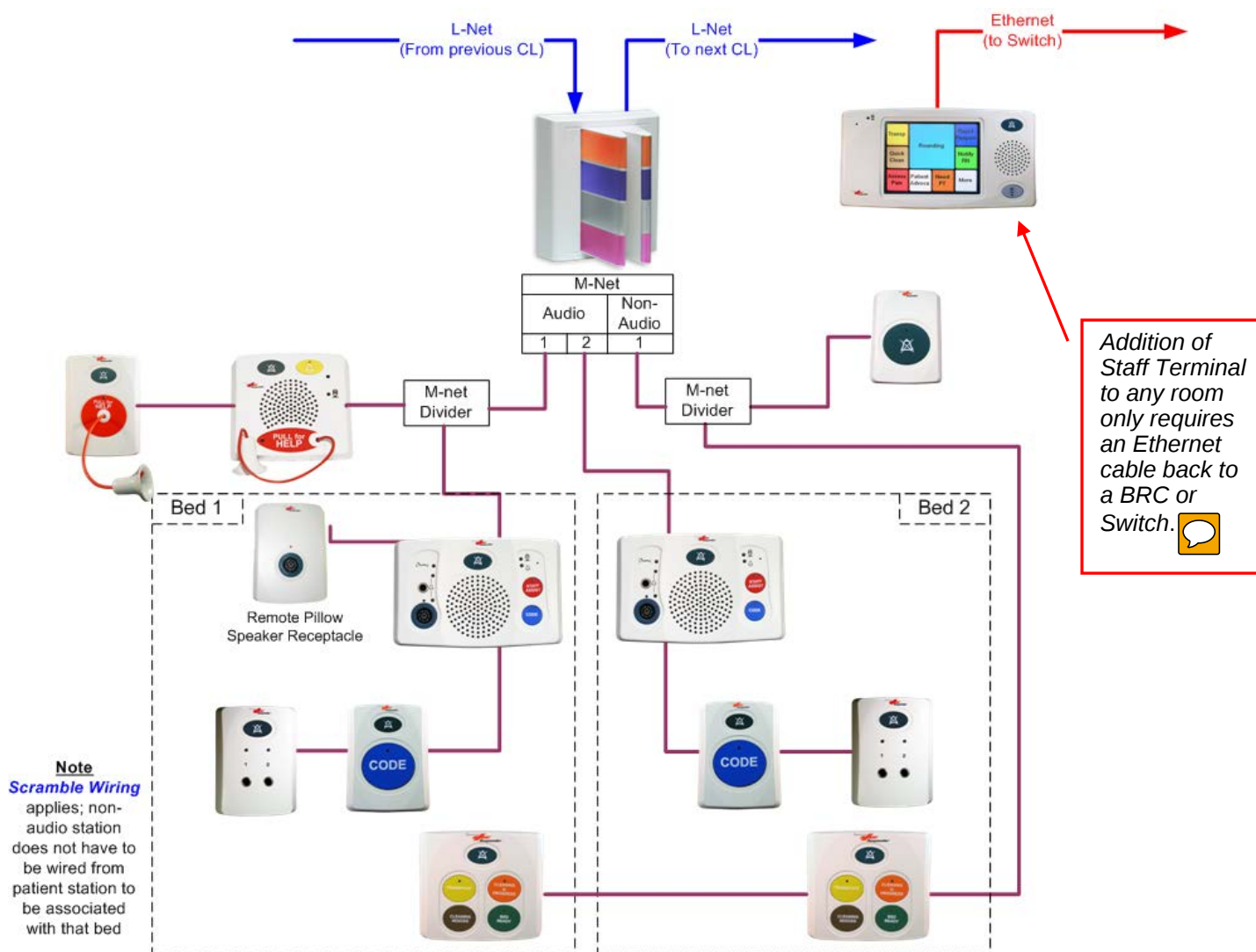
Responder® 5 Room Designs



Here we have an M-Net divider splitting the Audio 1 connection to allow two (2) audio stations to be connected to the corridor light. Each of those audio stations can have up to three (3) non-audio stations daisy chained from them. Only (1) M-Net divider can be used to add a maximum of (3) audio stations on a Corridor Light / Domeless Controller except for the Duty station which can be the only audio station on a Corridor Light / Domeless Controller. Also, an M-Net divider is splitting the Non-audio connection to allow two (2) different runs of non-audio stations. This allows the placement of those stations in different areas of the room. Again up to four (4) stations may be daisy chained on each of the M-Net connections with exceptions stated above. Up to 2 M-Net dividers can be daisy chained together. An M-Net divider can be connected on the Non-Audio M-Net out port of a Patient Station.

Responder[®] 5 Room Designs

Adding a Staff Terminal station to a patient room only requires an Ethernet connection back to the Responder 5 network (to a BRC or Responder 5 Switch) as shown below.

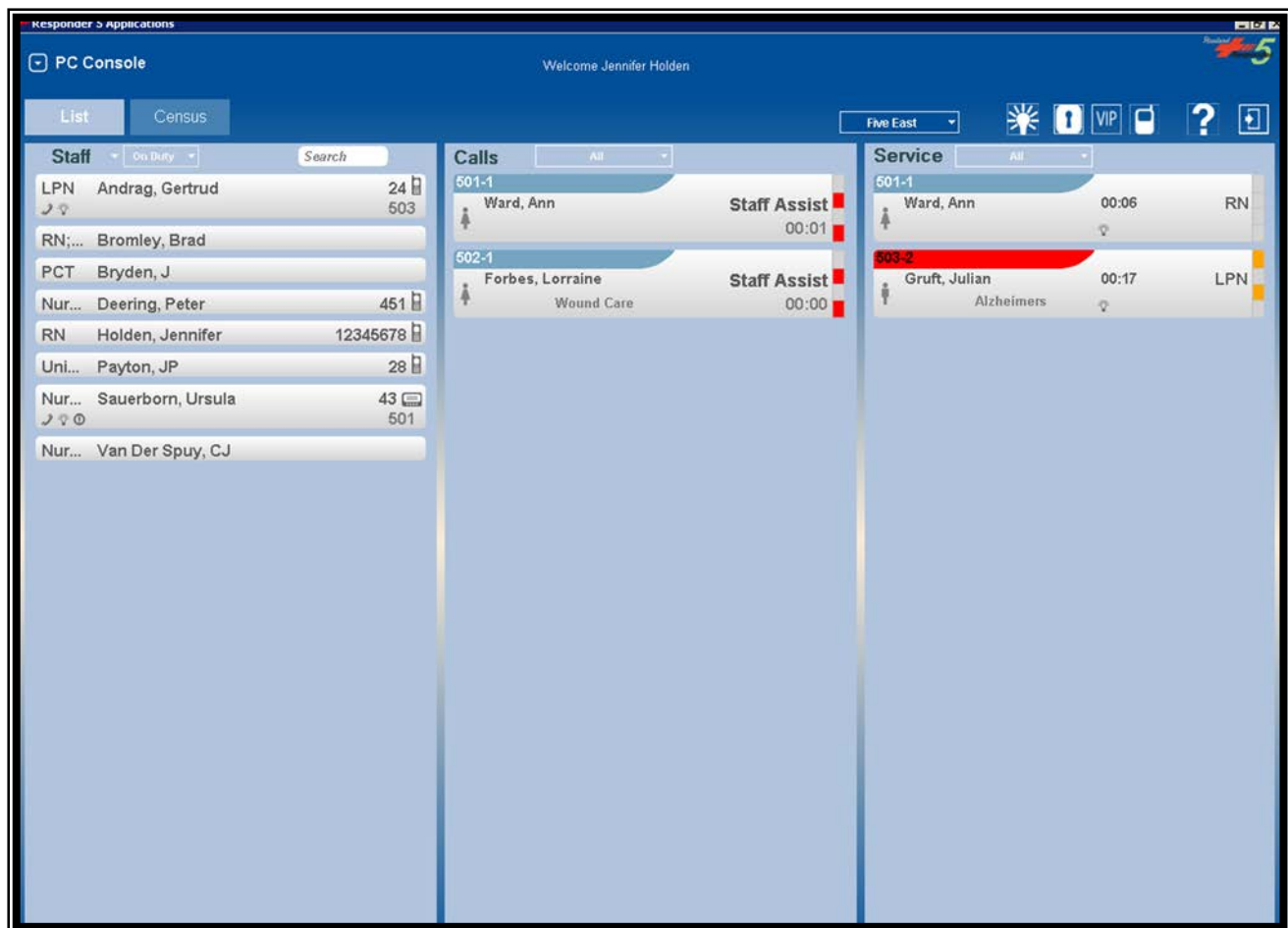


Responder[®] 5 Software

Responder 5 shows activity in a user-friendly application without sacrificing the reliability of a closed nurse call network. Information from many sources is integrated into staff directories, call lists and services giving staff the whole picture. Integration with patient information systems, staff/patient tracking system, wireless devices and nurse call hardware makes the staff's job easier and more efficient by seamlessly incorporating meaningful information from disparate systems. An intuitive screen design makes Responder 5 easy-to-use and easy-to-learn, facilitating higher user compliance.

PC Console (366102)—List View

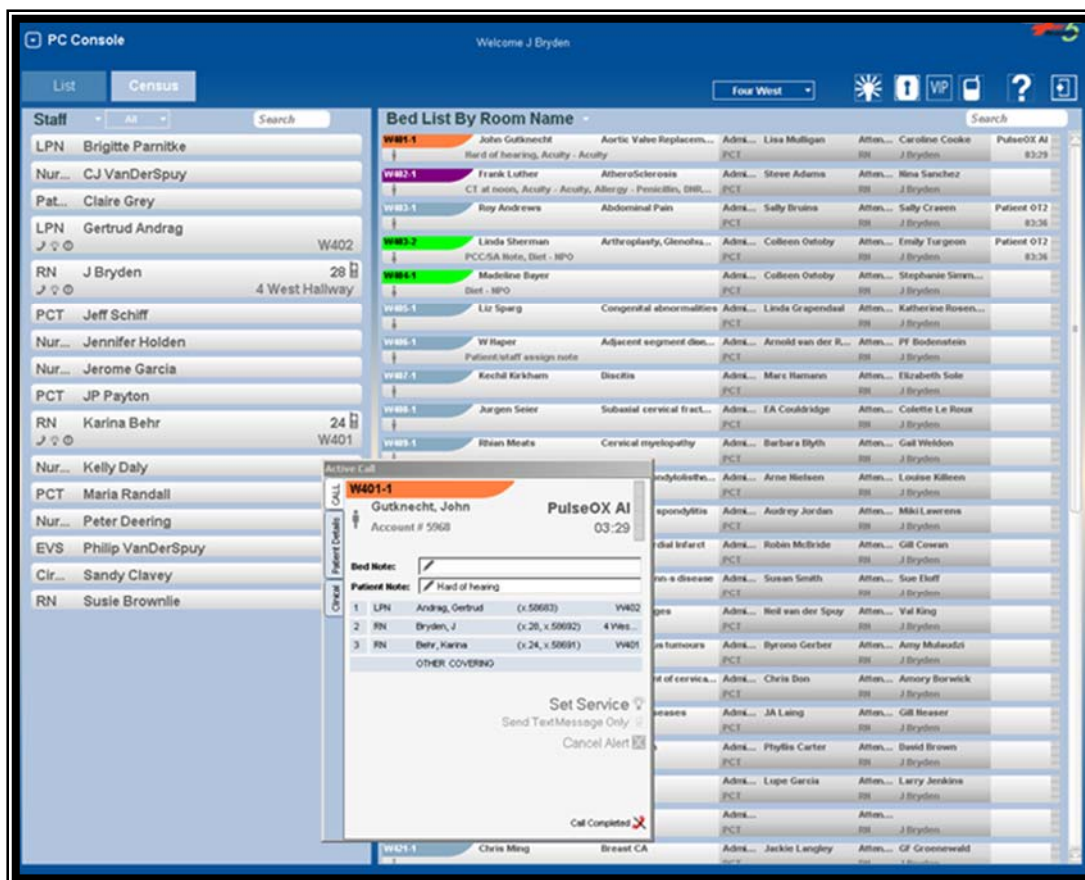
Two different displays are available: List View and Census View. List displays staff information (including name, credentials, wireless device(s) they are carrying and their location); active patient calls on the system which includes the room and bed, type of call, corridor light activity and patient information; and active service requests or reminders on the nurse call system.



Responder® 5 Software

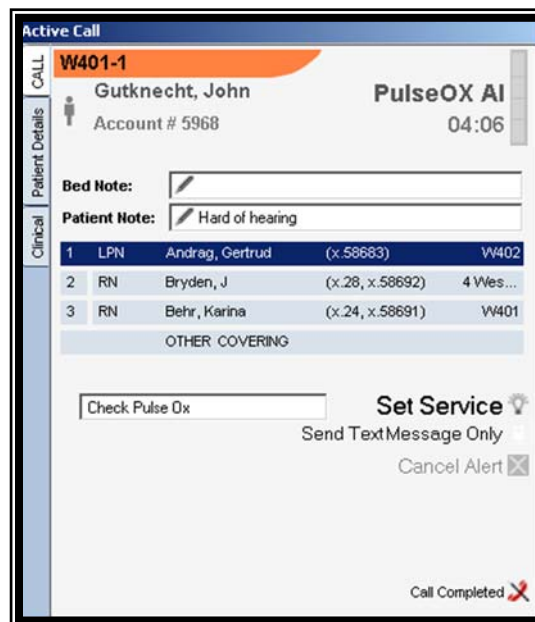
PC Console—Census View

Census displays beds and brings together patient information (including patient name, diagnosis, physicians, fall risk, and other patient conditions), assigned staff and physician information with the nurse call activity for a bed.



When a call is answered at an associated VoIP Console, an interactive popup window will appear providing additional patient/call information allowing the user to set services or send text message to caregivers from the computer. This interoperability between the nurse call system and the software makes Responder 5 a total solution for communication.

The PC Console is required for every Responder 5 that goes beyond 'lights and tones'. This is the core module that contains the logic for users, permissions, patients, displays and all integrations. Notice that this PC Console also shows the patient information due to the HL7 (ADT) Interface.

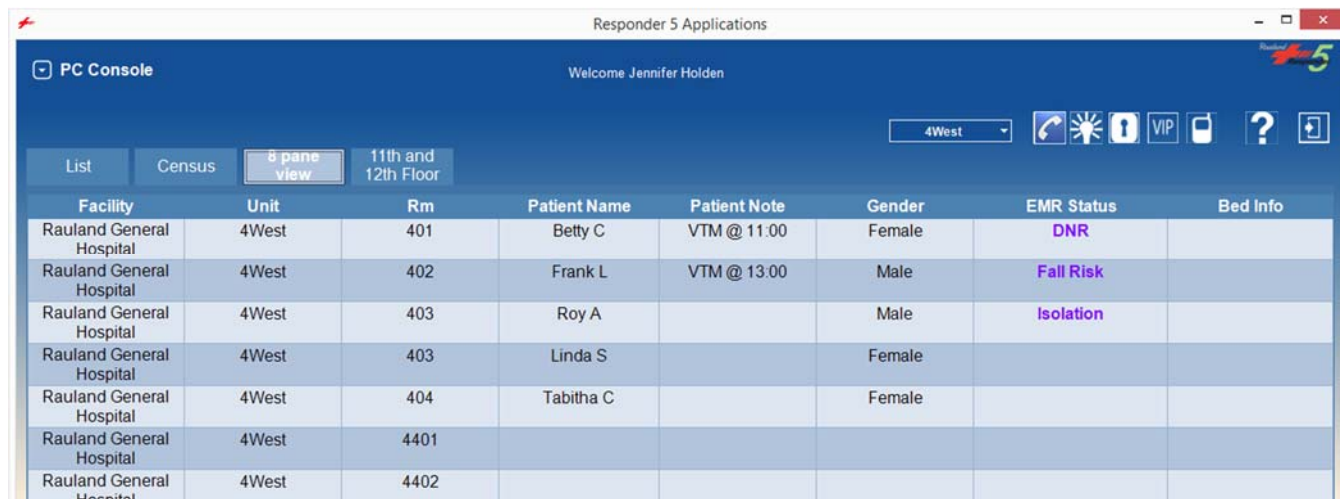


Responder® 5 Software

PC Console—Customized Whiteboards / Bed Lists

New flexibility is now available in the PCC to create different screen layouts that will fit the different department needs throughout the hospital. These customized whiteboards will show every room/bed in the unit displayed but can display patient or room attributes uniquely. New data fields that can be displayed include staff that is registered inside a patient room if the Real - Time Location Interface is in use. Else, staff that manually registers in a room, via a Responder button press, can show on the lists.

Options include a single list, two pane list and a three pane list:



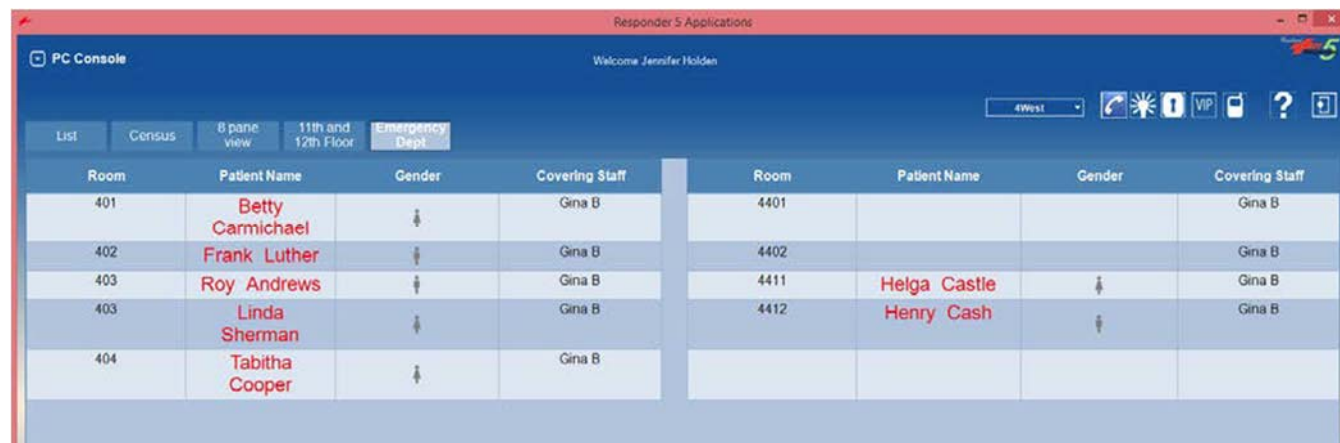
Responder 5 Applications

PC Console Welcome Jennifer Holden

4West

List Census 8 pane view 11th and 12th Floor

Facility	Unit	Rm	Patient Name	Patient Note	Gender	EMR Status	Bed Info
Rauland General Hospital	4West	401	Betty C	VTM @ 11:00	Female	DNR	
Rauland General Hospital	4West	402	Frank L	VTM @ 13:00	Male	Fall Risk	
Rauland General Hospital	4West	403	Roy A		Male	Isolation	
Rauland General Hospital	4West	403	Linda S		Female		
Rauland General Hospital	4West	404	Tabitha C		Female		
Rauland General Hospital	4West	4401					
Rauland General Hospital	4West	4402					



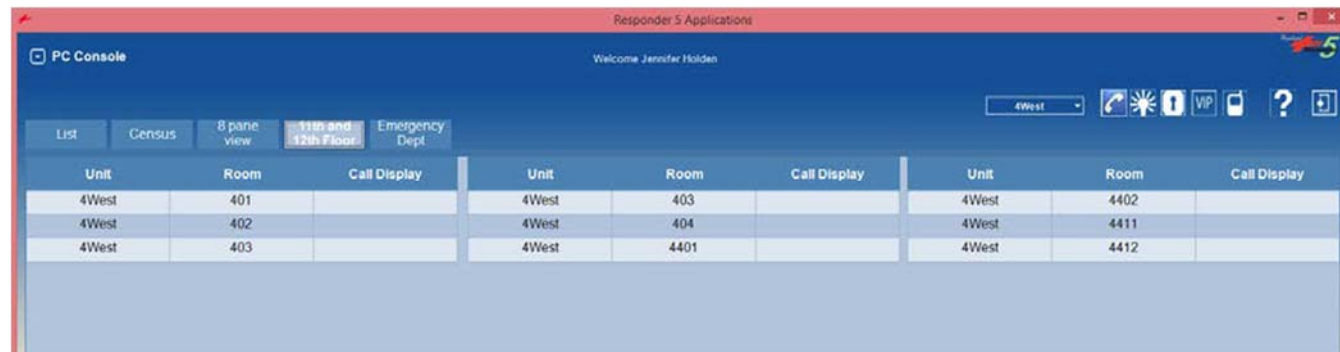
Responder 5 Applications

PC Console Welcome Jennifer Holden

4West

List Census 8 pane view 11th and 12th Floor Emergency Dept

Room	Patient Name	Gender	Covering Staff	Room	Patient Name	Gender	Covering Staff
401	Betty Carmichael	♀	Gina B	4401			Gina B
402	Frank Luther	♂	Gina B	4402			Gina B
403	Roy Andrews	♂	Gina B	4411	Helga Castle	♀	Gina B
403	Linda Sherman	♀	Gina B	4412	Henry Cash	♂	Gina B
404	Tabitha Cooper	♀	Gina B				



Responder 5 Applications

PC Console Welcome Jennifer Holden

4West

List Census 8 pane view 11th and 12th Floor Emergency Dept

Unit	Room	Call Display	Unit	Room	Call Display	Unit	Room	Call Display
4West	401		4West	403		4West	4402	
4West	402		4West	404		4West	4411	
4West	403		4West	4401		4West	4412	

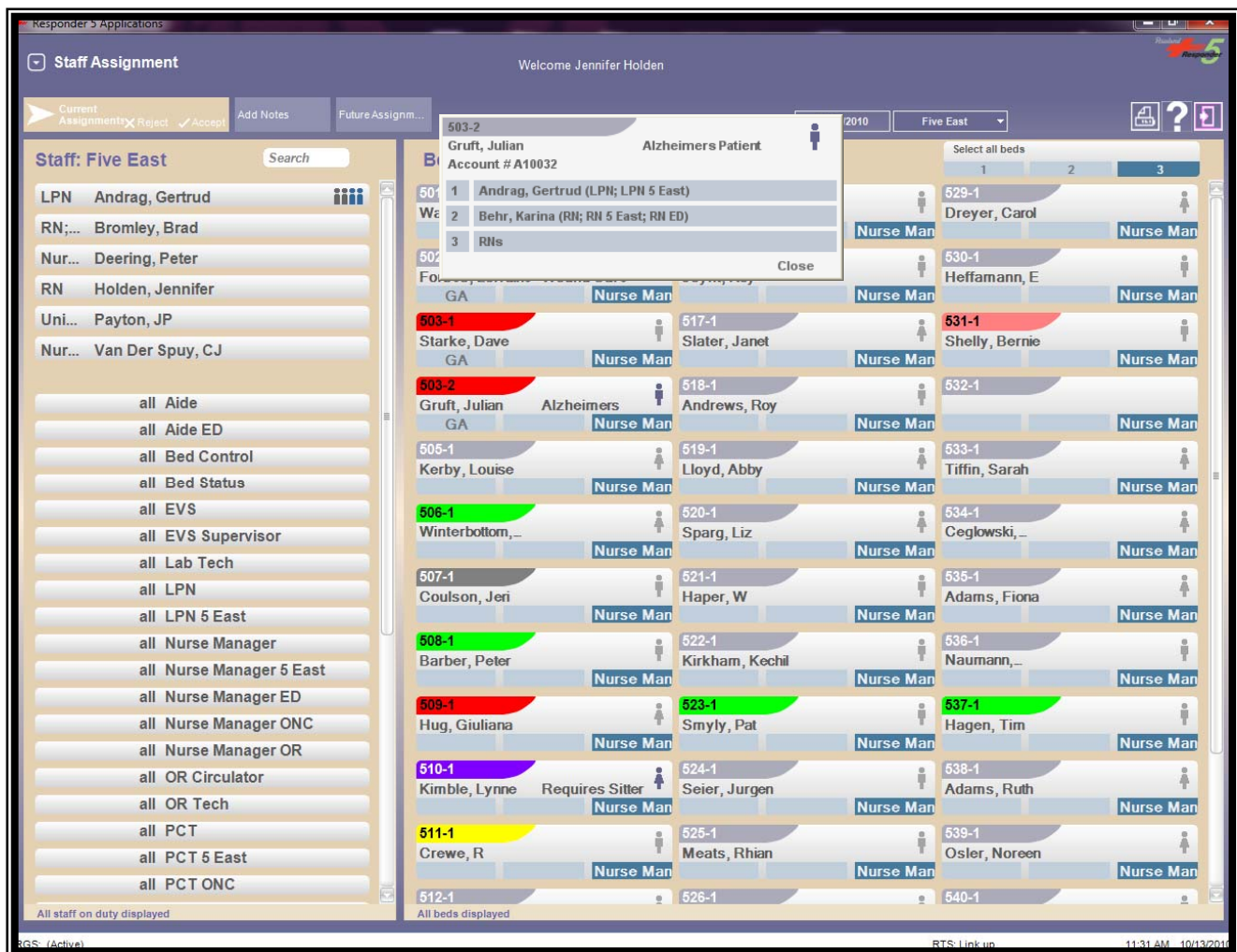
Responder® 5 Software

Staff Assignment (366104)— Current Assignments

Responder 5 simplifies everyday processes. Two different views are available: Current Assignments and Future Assignments. Current Assignments shows those staff members who have signed on duty today and their patient assignments. This view gives a real-time picture of a floor which is necessary for a Nurse Manager, Charge Nurse, and/or Unit Secretary to manage their unit as the day unfolds.

Throughout the shift, patients leave the hospital, patient needs may change, or there may be a last minute staffing change. All of these items directly affect how a unit will assign caregivers to patients. Changes made on this screen take effect immediately as soon as the 'Update' button is pressed.

The appearance of the unit will be unique to each facility and to each unit per the hospitals workflow. Beds are assigned to units and teams and have their own call routing logic. These attributes are assigned in the R5Ware Configuration software.



The screenshot displays the 'Staff Assignment' window in the Responder 5 software. The interface is divided into several sections:

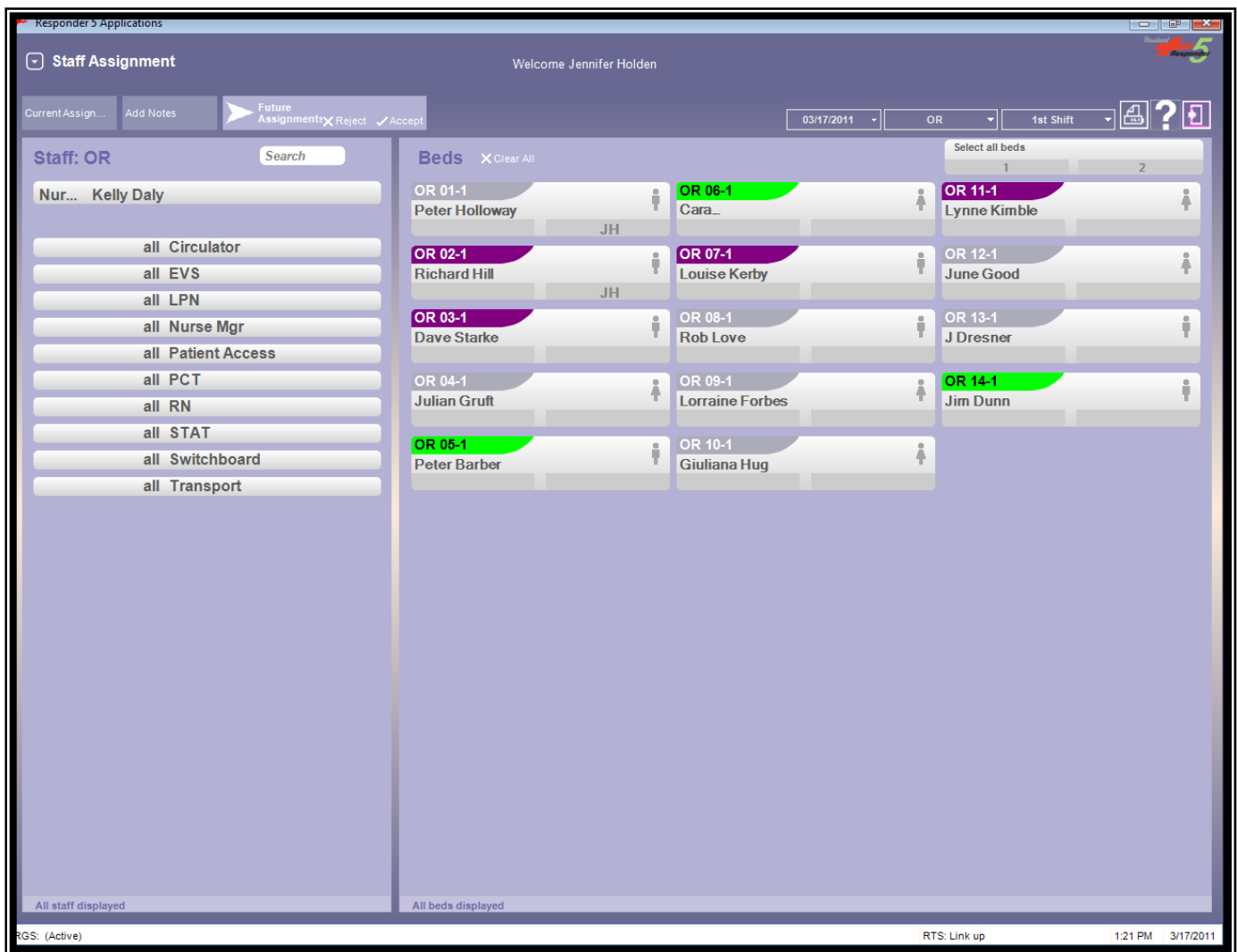
- Top Bar:** Includes a 'Welcome Jennifer Holden' message and a 'Five East' unit selector.
- Left Panel:** A list of staff members for 'Five East' with a search bar. The list includes:
 - LPN Andrag, Gertrud
 - RN;... Bromley, Brad
 - Nur... Deering, Peter
 - RN Holden, Jennifer
 - Uni... Payton, JP
 - Nur... Van Der Spuy, CJ
- Central Grid:** A grid showing patient assignments. A pop-up window for 'Gruft, Julian' (Alzheimer's Patient, Account # A10032) is open, showing details for three patients:
 - 1 Andrag, Gertrud (LPN; LPN 5 East)
 - 2 Behr, Karina (RN; RN 5 East; RN ED)
 - 3 RNs
- Right Panel:** A list of additional staff members, including 'Dreyer, Carol', 'Heffamann, E', 'Shelly, Bernie', 'Tiffin, Sarah', 'Ceglowski, ...', 'Adams, Fiona', 'Naumann, ...', 'Hagen, Tim', 'Adams, Ruth', and 'Osler, Noreen'.
- Bottom Bar:** Includes a status bar with 'All staff on duty displayed' and 'All beds displayed'.

Responder® 5 Software

Staff Assignment—Future Assignments

Future assignments can be made up to one week in advance, allowing for continuity of care longer term patients from day to day and caregiver to caregiver. The system's layout gives management a visual indicator of the workload for each staff member as patients are assigned to staff; so the nurse manager can continuously assess and level load for each caregiver. Having the same staff take care of the same patients is good practice in hospitals. Patients do better dealing with the same care team. Physicians do better having that consistency of communication throughout their patients stay. Staff do better understanding and anticipating patients needs.

Staff Assignment is required for every Responder 5 that wants to integrate to a pager or phone. This is the module that contains the logic for call routing to staff or phones.



Responder 5 Applications

Welcome Jennifer Holden

Staff Assignment

CurrentAssign... Add Notes Future Assignments X Reject ✓ Accept

03/17/2011 OR 1st Shift

Staff: OR Search

Nur... Kelly Daly

- all Circulator
- all EVS
- all LPN
- all Nurse Mgr
- all Patient Access
- all PCT
- all RN
- all STAT
- all Switchboard
- all Transport

Beds X Clear All

Select all beds	
1	2
OR 01-1 Peter Holloway JH	OR 06-1 Cara...
OR 02-1 Richard Hill JH	OR 07-1 Louise Kerby
OR 03-1 Dave Starke	OR 08-1 Rob Love
OR 04-1 Julian Gruft	OR 09-1 Lorraine Forbes
OR 05-1 Peter Barber	OR 10-1 Giuliana Hug
	OR 11-1 Lynne Kimble
	OR 12-1 June Good
	OR 13-1 J Dresner
	OR 14-1 Jim Dunn

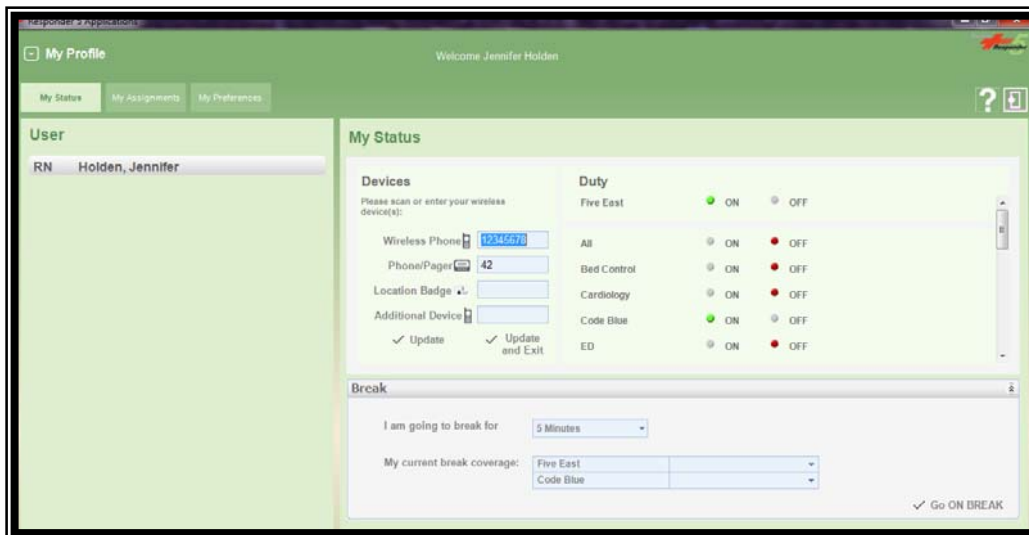
All staff displayed All beds displayed

RGS: (Active) RTS: Link up 1:21 PM 3/17/2011

Responder® 5 Software

My Profile

Responder 5 offers an intuitive interface for employees to sign on and off duty simply. By telling the system a staff member is on duty, they are now ready to receive calls, text messages or other communications. Once on duty, the caregiver will only receive calls or alerts that were intended for them. This solution allows automatic and direct communication between patients and caregivers as well as staff to staff.



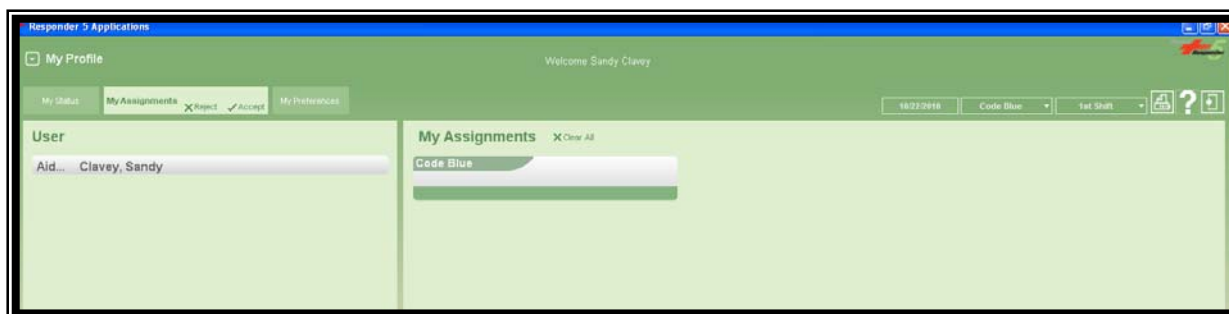
The screenshot shows the 'My Profile' interface for user Jennifer Holden. The interface is divided into two main sections: 'User' and 'My Status'. The 'User' section on the left shows the user's name 'RN Holden, Jennifer'. The 'My Status' section on the right is titled 'My Status' and contains two sub-sections: 'Devices' and 'Break'. The 'Devices' section has fields for 'Wireless Phone' (1234567), 'Phone/Pager' (42), 'Location Badge', and 'Additional Device', each with an 'Update' button. The 'Break' section has a dropdown for 'I am going to break for' (5 Minutes) and a table for 'My current break coverage:' with columns for 'Five East' and 'Code Blue'. A 'Go ON BREAK' button is at the bottom right.



Once on duty, staff can come back and tell the system that they are going on break. They choose the length of their break and which caregiver will be covering for their calls. Responder 5 will then forward the Responder 5 nurse call alerts to their co-worker. This allows them to take their phone with them off the floor so they can still receive other calls being routed to their phone like physicians and interdepartmental calls. Once the time has expired Responder 5 will automatically take the staff off break and the caregiver will again receive their patient's calls. This will be reflected in the Reports Manager module.

Staff members can also be assigned to a specialty team such as a Code team which could allow them to cover all beds in the facility for specific call types. This concept of a team simplifies the sign on process for staff that cover many or all beds in a hospital for just a certain type of event (i.e. Code Blue). This flexibility of being responsible for my patients along with being assigned to a specialty response team on the same day is very common and Responder 5 makes this a simple process.

My Profile is automatically included in the PC Console module and is not an additional charge.



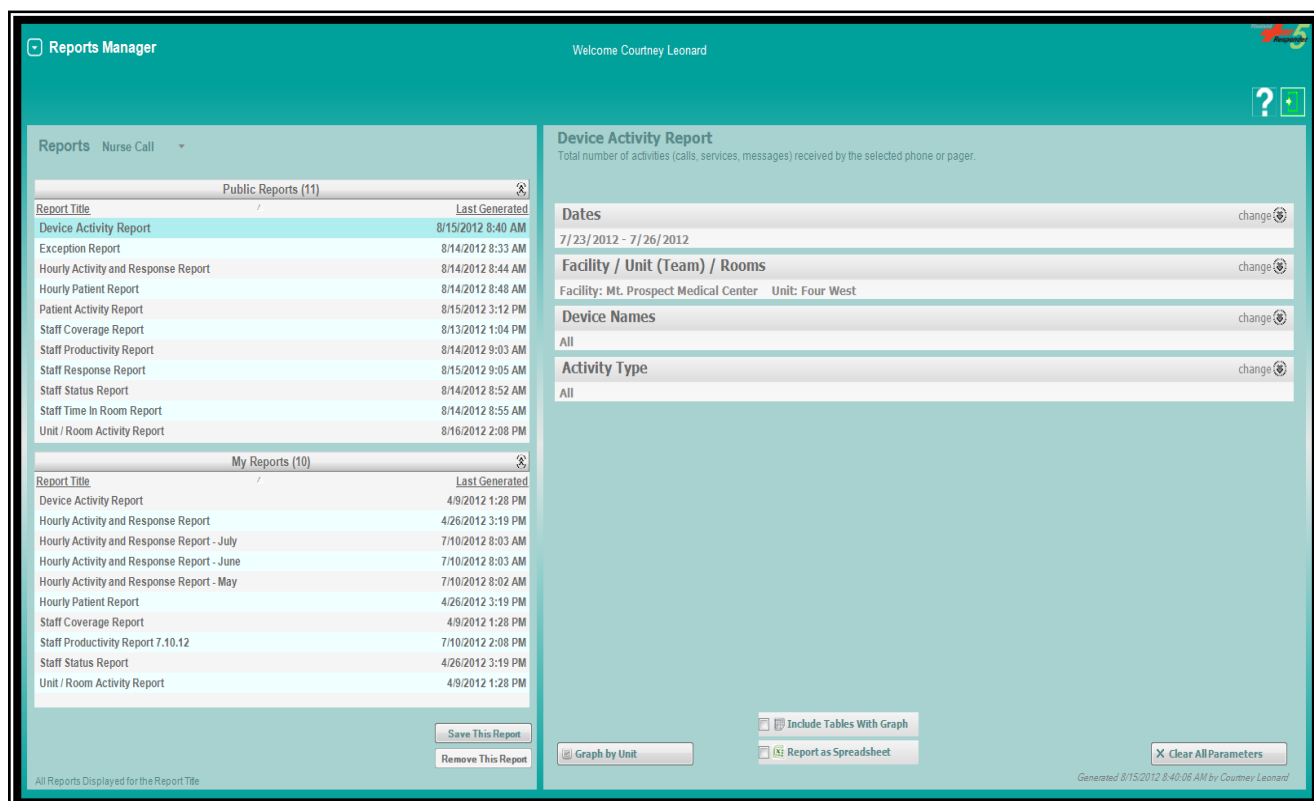
The screenshot shows the 'My Assignments' interface for user Sandy Clavey. The interface is divided into two main sections: 'User' and 'My Assignments'. The 'User' section on the left shows the user's name 'Aid... Clavey, Sandy'. The 'My Assignments' section on the right is titled 'My Assignments' and contains a table with columns for 'Code Blue' and 'Five East'. A 'Go ON BREAK' button is at the bottom right.

Responder[®] 5 Software

Reports Manager (366200)

The Reports Manager module generates numerous reports – exception reports, detail reports and staff coverage information – wrapped in a user-friendly interface. Responder 5's fully historical MS SQL database makes data easily available at any time and yet secure enough for your most stringent IT security policy.

Reports Manager is an optional module that also requires the PC Console to run.



Reports Manager Welcome Courtney Leonard

Reports Nurse Call

Public Reports (11)

Report Title	Last Generated
Device Activity Report	8/15/2012 8:40 AM
Exception Report	8/14/2012 8:33 AM
Hourly Activity and Response Report	8/14/2012 8:44 AM
Hourly Patient Report	8/14/2012 8:48 AM
Patient Activity Report	8/15/2012 3:12 PM
Staff Coverage Report	8/13/2012 1:04 PM
Staff Productivity Report	8/14/2012 9:03 AM
Staff Response Report	8/15/2012 9:05 AM
Staff Status Report	8/14/2012 8:52 AM
Staff Time In Room Report	8/14/2012 8:55 AM
Unit / Room Activity Report	8/16/2012 2:08 PM

My Reports (10)

Report Title	Last Generated
Device Activity Report	4/9/2012 1:28 PM
Hourly Activity and Response Report	4/26/2012 3:19 PM
Hourly Activity and Response Report - July	7/10/2012 8:03 AM
Hourly Activity and Response Report - June	7/10/2012 8:03 AM
Hourly Activity and Response Report - May	7/10/2012 8:02 AM
Hourly Patient Report	4/26/2012 3:19 PM
Staff Coverage Report	4/9/2012 1:28 PM
Staff Productivity Report 7.10.12	7/10/2012 2:08 PM
Staff Status Report	4/26/2012 3:19 PM
Unit / Room Activity Report	4/9/2012 1:28 PM

Device Activity Report
Total number of activities (calls, services, messages) received by the selected phone or pager.

Dates 7/23/2012 - 7/26/2012 [change](#)

Facility / Unit (Team) / Rooms [change](#)
Facility: Mt. Prospect Medical Center Unit: Four West

Device Names [change](#)
All

Activity Type [change](#)
All

[Save This Report](#) [Remove This Report](#) [Graph by Unit](#) [Include Tables With Graph](#) [Report as Spreadsheet](#) [Clear All Parameters](#)

All Reports Displayed for the Report Title

Generated 8/15/2012 8:40:08 AM by Courtney Leonard

Responder® 5 Software

Reports Manager—Easy to Use and Customize

The reporting package enables staff to run reports the way they want to run and store them. The My Reports feature allows the running and renaming of key reports to make it easy to retrieve each time. This library of reports allows users to compare one point in time to another.

Reports Manager allows users to view these reports in a simple pdf format. This makes it simple to read and to distribute to others. Additionally, staff can run reports right into Excel. This format allows a quick way to view the data of the report and manipulate it without involving a database report writer. For those sites that do extensive data mining, there is always the option of running reports against the reporting database outside of the Responder 5 Reports Manager application. This is great for expert users at hospitals that do data comparisons from one system to the next.

My Reports (10)								
Report Title					Last Generated			
Device Activity Report					4/9/2012 1:28 PM			
Hourly Activity and Response Report					4/26/2012 3:19 PM			
Hourly Activity and Response Report - July					7/10/2012 8:03 AM			
Hourly Activity and Response Report - June					7/10/2012 8:03 AM			
Hourly Activity and Response Report - May					7/10/2012 8:02 AM			
Hourly Patient Report					4/26/2012 3:19 PM			
Staff Coverage Report					4/9/2012 1:28 PM			
Staff Productivity Report 7.10.12					7/10/2012 2:08 PM			
Staff Status Report					4/26/2012 3:19 PM			
Unit / Room Activity Report					4/9/2012 1:28 PM			

	A	B	C	D	E	F	G	H	I
1	Patient Activity Report								
2									
3									
4	Facility	Patient	Acct	MRN	DOS	Admit Reason	Date	Unit/Team	Room
5	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
6	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
7	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
8	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
9	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
10	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
11	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
12	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
13	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
14	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
15	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
16	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
17	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
18	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
19	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1
20	Mt. Prospect Medical Center	Luther, Frank	825498131	A10102	4/23/2012 - 4/27/2012	Unknown	4/23/2012	4West	W402 - 1

Responder® 5 Software

Reports Manager—Hourly Rounding Initiatives

Using patient-based reports, you can confirm completion of expected activities with each patient – by hour of day, staff member and call type. You can also track all nurse call activity for each patient, spanning your rooms, beds and units.

5 Hourly Patient Report <i>For Patient: Gutknecht, John</i> <i>DOS: 4/27/2012</i> <i>Activity : All</i> (Patient Activity by hour of day) 		
Time Period	Activity / Event	Staff Name / Level
Midnight		
1:00 am		
2:00 am		
3:00 am		
4:00 am		
5:00 am		
6:00 am		
7:00 am	Round RN 2Hr Round RN 1Hr	Karina Behr (RN)
8:00 am	Reassess Pain 30min	
9:00 am		
10:00 am	Need RN	
11:00 am	Need RN EVS Request Need RN	Ursula Sauerborn (EVS)

9:00 am

Reassess Pain 30min

10:00 am

4:00 pm

Round PCT 1Hr

5:00 pm

Responder[®] 5 Software

Reports Manager—Exception Reports

These reports provides a detailed record of calls, services or staff time spent in room that were outside the desired goals. Managers can evaluate the events that took longer than they expected to answer a patient call/request. By entering their expected response times, this report will show a detailed account of what events did not meet their expectations and the details of that event. This is important for identifying areas of improvement within a unit.

5

Exception Report
(Shows events that are outside the desired parameters)
For 4/4/2011 - 6/2/2011 00:00 am - 11:59 pm
ML Prospect Medical Center - Four West

Call Type Exceptions

Go To Toilet - 1

Voice Response Time (VRT) greater than (>) 00:00:05 Staff Response Time (SRT) greater than (>) 00:00:10
0 events met VRT 0 events met SRT
1 events Did not meet VRT = 100% 0 events Did not meet SRT

Andrag, Gertrud - 1

VRT	Date Time	Unit Room Bed	Account	Activity	Time
00:00:09	05/03/2011 @ 11:16 am	Four West W402-1	825498131	Go to Toilet call placed	11:16 am
				Notified Andrag, Gertrud (ext. 24)	00:00:00
				Notified Console Four West NS	nn-nn-nn

5

Exception Report
(Shows events that are outside the desired parameters)
For 4/4/2011 - 6/2/2011 00:00 am - 11:59 pm
ML Prospect Medical Center - Four West

Staff Presence Exceptions

EVS - 4

No events met SRT e

LPN Request - 1

Andrag, Gertrud - 1

VRT	Date Time
00:00:09	05/03/2011

Printed by Jennifer Holden 6/2/2011 1:

Protected Health Information (PHI) is personal and sensitive info intended recipient, of the employee or the agent responsible for

5

Exception Report
(Shows events that are outside the desired parameters)
For 4/4/2011 - 6/2/2011 00:00 am - 11:59 pm
ML Prospect Medical Center - Four West

Staff Time In Room Outside of Entered Goals:
00:00:00 - 00:00:10

Time In Room	Date Time	Unit Room Bed	Account	Activity	Time
37 seconds	05/03/2011 @ 11:22 am	Four West W402-1	825498131	EVS Entered	11:22 am
				EVS Exited	00:00:37
12 seconds	05/03/2011 @ 11:41 am	Four West W402-1	825498131	EVS Entered	11:41 am
				EVS Exited	00:00:12

5

Exception Report
(Shows events that are outside the desired parameters)
For 4/4/2011 - 6/2/2011 00:00 am - 11:59 pm
ML Prospect Medical Center - Four West

Staff Time In Room Outside of Entered Goals:

PCT - 5

Staff Response Time (SRT) less than (<) 00:00:10 or greater than (>) 00:00:30
3 events met SRT
2 events Did not meet SRT = 40%

SRT	Date Time	Unit Room Bed	Account	Activity	Time
00:00:07	05/28/2011 @ 01:09 pm	Four West W403-1	878544	PCT service set by Andrag, Gertrud	01:09 pm
				Staff Arrived	00:00:07
00:00:04	05/03/2011 @ 12:54 pm	Four West W401-1	5968	Hand of Hearing call placed	12:54 pm
				Notified Console Four West NS	00:00:00
				Notified Andrag, Gertrud (ext. 24)	00:00:00
				Answered @ Console Four West NS	00:00:05
				PCT service set by	00:00:05
				Staff Arrived	00:00:09

RN - 24

Staff Response Time (SRT) less than (<) 00:00:10 or greater than (>) 00:00:30
12 events met SRT
12 events Did not meet SRT = 50%

SRT	Date Time	Unit Room Bed	Account	Activity	Time
00:00:54	04/28/2011 @ 12:30 pm	Four West W402-1	825498131	Staff Assist call placed	12:30 pm
				Notified Bryden, J (ext. 28)	00:00:00
				Notified Behr, Karina (ext. 518)	00:00:00

Printed by Jennifer Holden 6/2/2011 1:35:33 PM
Page 5 of 9


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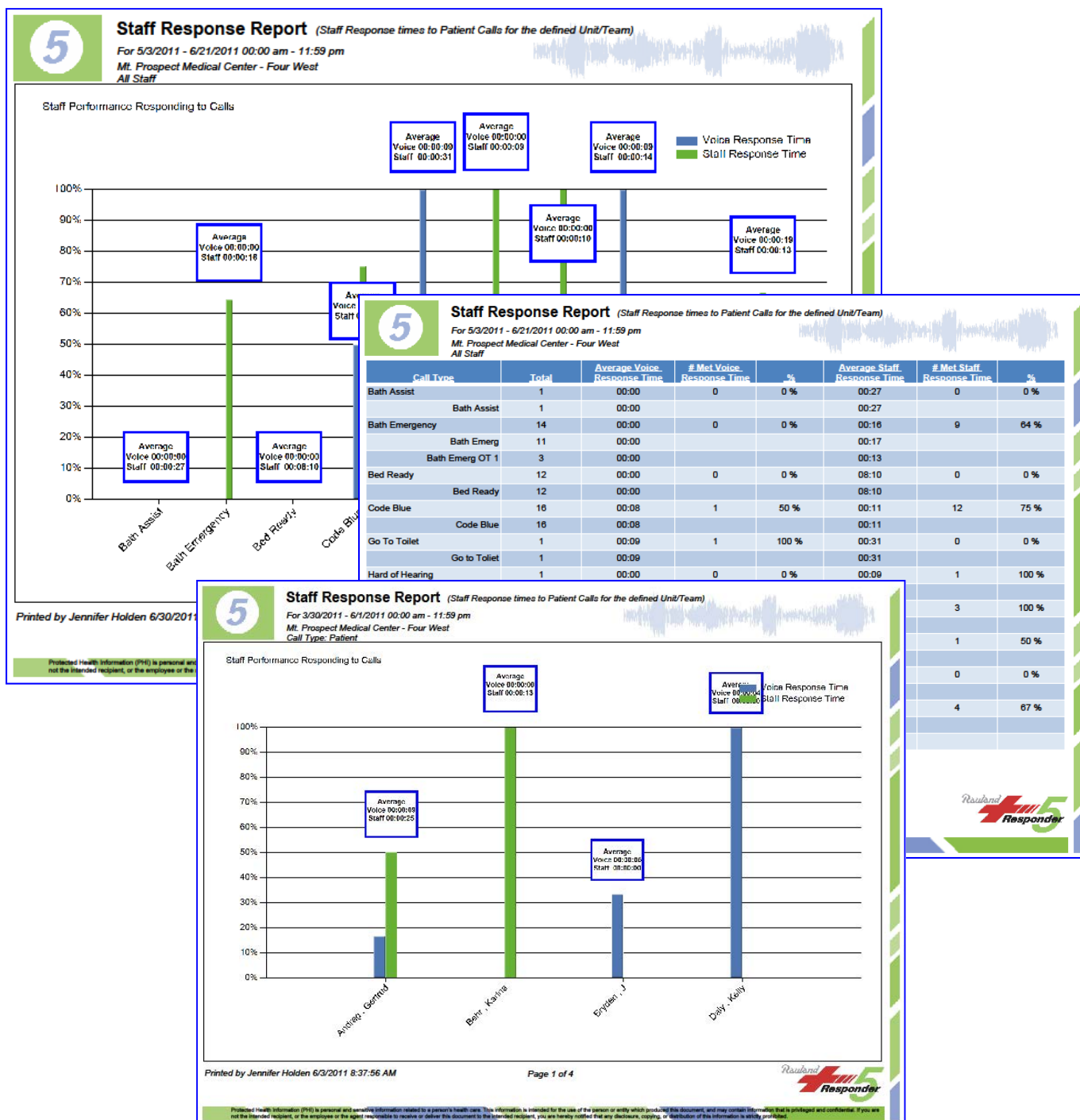
40

Responder[®] 5 Software

Reports Manager—Staff Response Reports



The Staff Response Report gives the amount of time it takes on average for a patient call to be answered or attended to in person. This report calculates this by call type either by average time or as a percentage of goal met. It can also calculate the response times to calls by individual staff members.



5

Staff Response Report (Staff Response times to Patient Calls for the defined Unit/Team)
For 3/30/2011 - 6/1/2011 00:00 am - 11:59 pm
Mt. Prospect Medical Center - Four West
Call Type: Patient

Staff Performance Responding to Calls

5

Staff Response Report (Staff Response times to Patient Calls for the defined Unit/Team)
For 3/30/2011 - 6/1/2011 00:00 am - 11:59 pm
Mt. Prospect Medical Center - Four West
Call Type: Patient

Responder® 5 Software

Compliance Trending

With unit-based reports, you can quickly note each unit's staffing level, who is on duty with what phone/badge, evaluate workloads and manage the unit staff. Unit reports can help improve performance by identifying events lying outside of the standard rule, highlighting peaks of activities by hour of day, troubleshooting specific events and viewing activity counts for various devices.



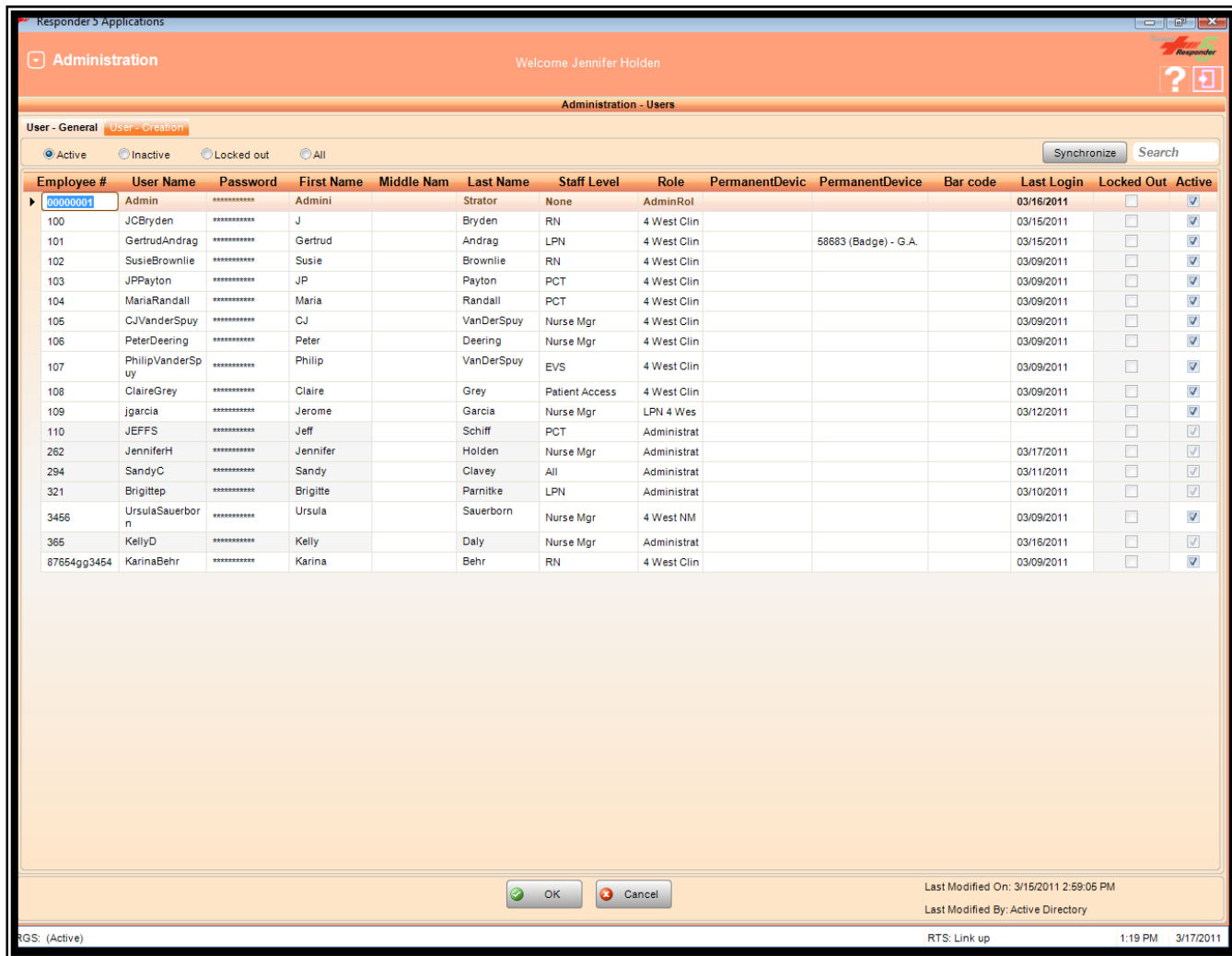
Responder® 5 Software

Administration

The Administration module is where all the software specific settings are built. This module has a series of submenus that a System Administrator must create and maintain throughout the life of the Responder 5 solution. These submenus include:

1. All Touch Interface
2. Application Setup
3. Devices
4. Facility Settings
5. Manage Locations
6. Role-Based Security
7. Text Messaging
8. Users
9. View Access Groups
10. Workstation Settings

Administration is an essential module that comes with the PC Console.



Responder 5 Applications

Administration

Welcome Jennifer Holden

Administration - Users

User - General User - Creation

Active Inactive Locked out All

Synchronize Search

Employee #	User Name	Password	First Name	Middle Nam	Last Name	Staff Level	Role	PermanentDevic	PermanentDevice	Bar code	Last Login	Locked Out	Active
00000001	Admin	*****	Admini		Strator	None	AdminRol				03/16/2011	☐	☒
100	JCBryden	*****	J		Bryden	RN	4 West Clin				03/15/2011	☐	☒
101	GertrudAndrag	*****	Gertrud		Andrag	LPN	4 West Clin		58683 (Badge) - G.A.		03/15/2011	☐	☒
102	SusieBrownlie	*****	Susie		Brownlie	RN	4 West Clin				03/09/2011	☐	☒
103	JPPayton	*****	JP		Payton	PCT	4 West Clin				03/09/2011	☐	☒
104	MariaRandall	*****	Maria		Randall	PCT	4 West Clin				03/09/2011	☐	☒
105	CJ/VanderSpuy	*****	CJ		VanDerSpuy	Nurse Mgr	4 West Clin				03/09/2011	☐	☒
106	PeterDeering	*****	Peter		Deering	Nurse Mgr	4 West Clin				03/09/2011	☐	☒
107	PhilipVanderSpuy	*****	Philip		VanDerSpuy	EVS	4 West Clin				03/09/2011	☐	☒
108	ClaireGrey	*****	Claire		Grey	Patient Access	4 West Clin				03/09/2011	☐	☒
109	Jgarcia	*****	Jerome		Garcia	Nurse Mgr	LPN 4 Wes				03/12/2011	☐	☒
110	JEFFS	*****	Jeff		Schiff	PCT	Administrat					☐	☒
262	JenniferH	*****	Jennifer		Holden	Nurse Mgr	Administrat				03/17/2011	☐	☒
294	SandyC	*****	Sandy		Clavey	All	Administrat				03/11/2011	☐	☒
321	BrigitteP	*****	Brigitte		Parnitke	LPN	Administrat				03/10/2011	☐	☒
3456	UrsulaSauerborn	*****	Ursula		Sauerborn	Nurse Mgr	4 West NM				03/09/2011	☐	☒
365	KellyD	*****	Kelly		Daly	Nurse Mgr	Administrat				03/16/2011	☐	☒
87654gg3454	KarinaBehr	*****	Karina		Behr	RN	4 West Clin				03/09/2011	☐	☒

OK Cancel

Last Modified On: 3/15/2011 2:59:05 PM
Last Modified By: Active Directory

RTS: Link up 1:19 PM 3/17/2011

Responder® 5 Integrations

Pocket Page Interface (355001)

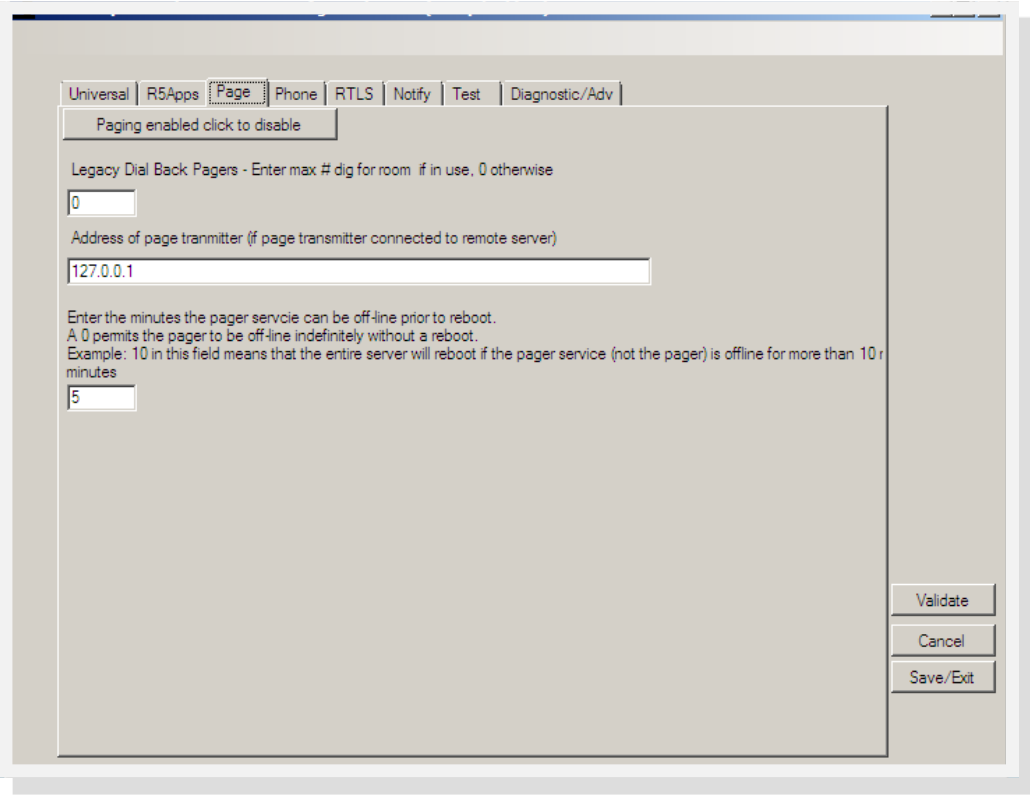
The Pocket Page Interface can also be thought of as the TAP out interface. This module is what sends the alerts out of the Responder 5 nurse call system out the serial port in TAP. This module is required anytime a hospital wants to integrate to pocket pagers.

This module is also required when a hospital wants to integrate to non-SIP phones. Non-SIP compatible phones require the alerts out of Responder 5 to come out TAP to a third party translation software (also referred to as middleware). These middleware providers will translate the TAP into whatever language the phone vendor needs it to be in. This is most commonly done with analog phones or older, non-SIP compliant handsets.

Lastly, this module is required if a hospital has non-SIP compliant handsets, but wishes to use 'toolbar texting' from Responder 5. This is a feature that allows users to send a free form text message from the PC Console directly to a staff member WITHOUT a call or service placed on the nurse call system. SIP compliant phones/PBX do not require Pocket Page Interface for 'toolbar texting' from Responder 5.

There are many intricacies to laying out a system with wireless phones. It is best to refer to the specific Application and Technical Note for the exact combination that a hospital has.

This interface is setup by your technician along with the hospitals Telecommunications Department. Be sure to inform the hospital that their assistance will be needed for completion of this task.



The screenshot shows a configuration window for the 'Page' module. The window has a title bar and a menu bar with options: Universal, R5Apps, Page, Phone, RTLS, Notify, Test, and Diagnostic/Adv. Below the menu bar, there is a status bar that says 'Paging enabled click to disable'. The main area contains several configuration fields: 'Legacy Dial Back Pagers - Enter max # dig for room if in use, 0 otherwise' with a value of '0'; 'Address of page transmitter (if page transmitter connected to remote server)' with a value of '127.0.0.1'; and 'Enter the minutes the pager service can be off-line prior to reboot. A 0 permits the pager to be off-line indefinitely without a reboot. Example: 10 in this field means that the entire server will reboot if the pager service (not the pager) is offline for more than 10 minutes' with a value of '5'. On the right side of the window, there are three buttons: 'Validate', 'Cancel', and 'Save/Exit'.

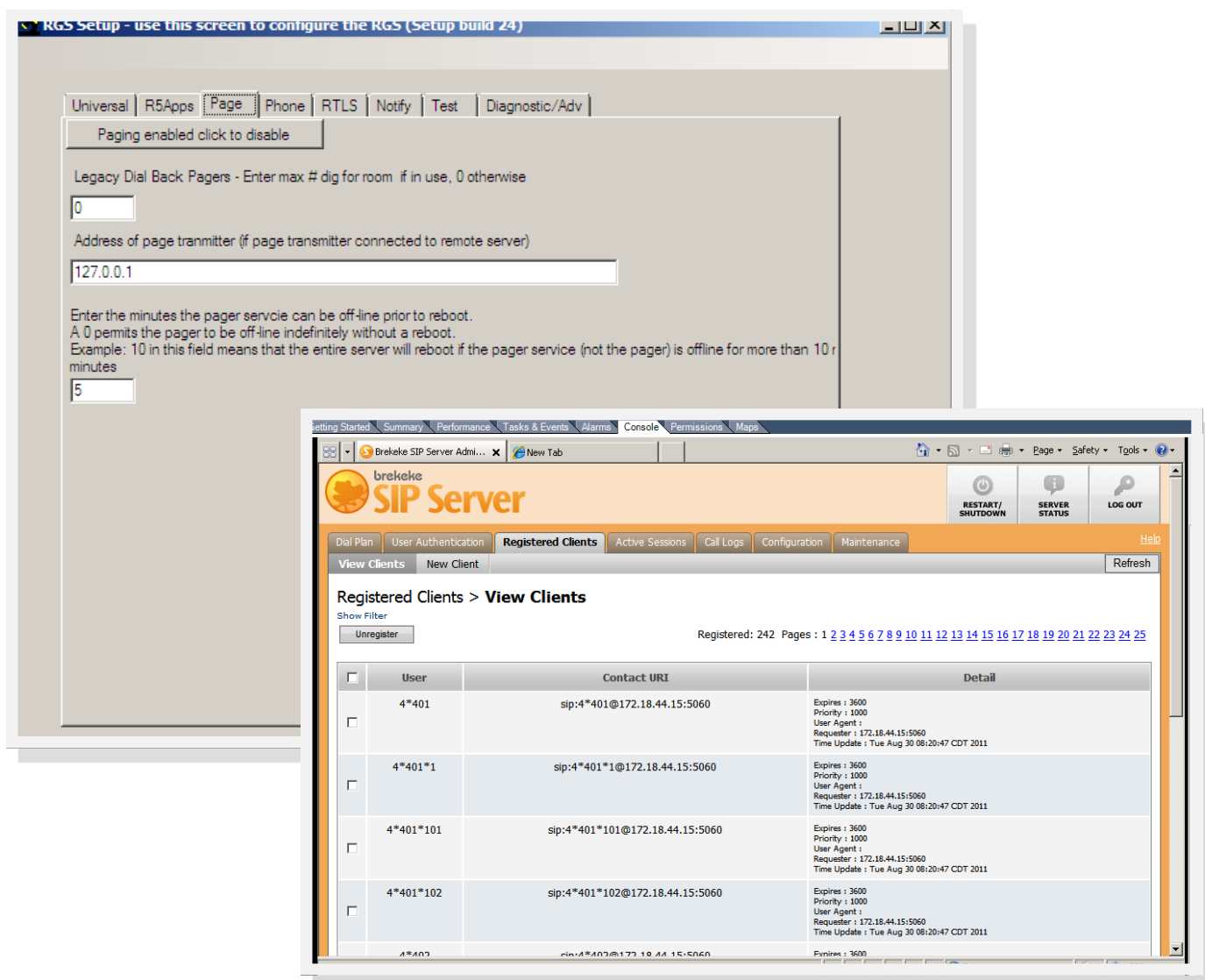
Responder[®] 5 Integrations

Telephone Interface (355002)

The Telephone Interface is required for every installation that is integrating to any wireless phone system. This interface is what allows not just the Direct Connect SIP alert out of the Responder 5 system, but also the audio path back when the call is answered for non-SIP (middleware) call-back. This interface is key to all audio communication to a Responder 5 component.

Also required to complete the integration to wireless phones is Brekeke SIP Server. This third party software handles the automatic registration of all Responder 5 audio end points and creates a single SIP trunk to the hospitals telephone system. This SIP Server is provided to the hospital by an authorized Rauland Distributor.

This interface is setup by your technician along with the hospitals Telecommunications Department. Be sure to inform the hospital that their assistance will be needed for completion of this task.



The image displays two overlapping screenshots. The background screenshot is the 'RGS Setup' window, titled 'RGS Setup - use this screen to configure the RGS (Setup build 24)'. It features a tabbed interface with 'Page' selected. The 'Page' tab contains a 'Paging enabled click to disable' button, a 'Legacy Dial Back Pagers' section with a text input field containing '0', an 'Address of page transmitter' field containing '127.0.0.1', and a 'minutes' field containing '5'. The foreground screenshot is the 'Brekeke SIP Server Admin' web interface. It shows a navigation bar with tabs like 'Dial Plan', 'User Authentication', 'Registered Clients', 'Active Sessions', 'Call Logs', 'Configuration', and 'Maintenance'. The 'Registered Clients' tab is active, displaying a table of registered clients. The table has columns for 'User', 'Contact URI', and 'Detail'. The 'Detail' column contains information such as 'Expires: 3600', 'Priority: 1000', 'User Agent', 'Requester', and 'Time Update'.

User	Contact URI	Detail
4*401	sip:4*401@172.18.44.15:5060	Expires: 3600 Priority: 1000 User Agent : Requester : 172.18.44.15:5060 Time Update : Tue Aug 30 08:20:47 CDT 2011
4*401*1	sip:4*401*1@172.18.44.15:5060	Expires: 3600 Priority: 1000 User Agent : Requester : 172.18.44.15:5060 Time Update : Tue Aug 30 08:20:47 CDT 2011
4*401*101	sip:4*401*101@172.18.44.15:5060	Expires: 3600 Priority: 1000 User Agent : Requester : 172.18.44.15:5060 Time Update : Tue Aug 30 08:20:47 CDT 2011
4*401*102	sip:4*401*102@172.18.44.15:5060	Expires: 3600 Priority: 1000 User Agent : Requester : 172.18.44.15:5060 Time Update : Tue Aug 30 08:20:47 CDT 2011

Responder® 5 Integrations

HL7 (ADT) Interface (366402)

The HL7 Interface is what brings patient information from the hospitals main registration system and displays it in the Responder 5 software modules. This brings in basic patient demographic data along with some key clinical information. This information displays in the PC Console, Staff Assignment, My Profile and Reports Manager modules.

Having this interface makes the nurse call system easier to use for staff and gives it more of a connection with the rest of the systems that they are using on a day-to-day basis. This interface is a one way (or listen only) interface. The system that feeds this, the hospital information / registration system, is the core system that provides patient information not just nurse call but all the clinical systems in the hospital. It is the 'master patient indexing system' and as such will always be the 'source of truth' for patient information.

This interface is configured by Rauland Tech Support at no additional charge. Be sure to specify to the hospital that Rauland will need remote access to the system to initially set up the communication between the hospitals registration system (or interface engine) and the Responder 5 Application Server.



HL7 for ADT Interface

Rauland Responder: admin

File Actions Style Service Help Admin

1. Select an action from the ...
- Action Menu
- Action List
- Action Buttons

START HERE: Select an action

ADT Link Event Test Summary Purge Events Summary

ADT Interface HOME SCREEN

Status

Refresh

ADT

Responder

ADT Message Counts

Previous Hour	This Hour	Previous Minute	This Minute

08/30/2011 09:24:27

Messages

Event	NC Bed	HL7 Bed	Patient Name	Patient ID	Account ID	Date Time

ADT Database is not found

Fix it ...

Responder® 5 Integrations

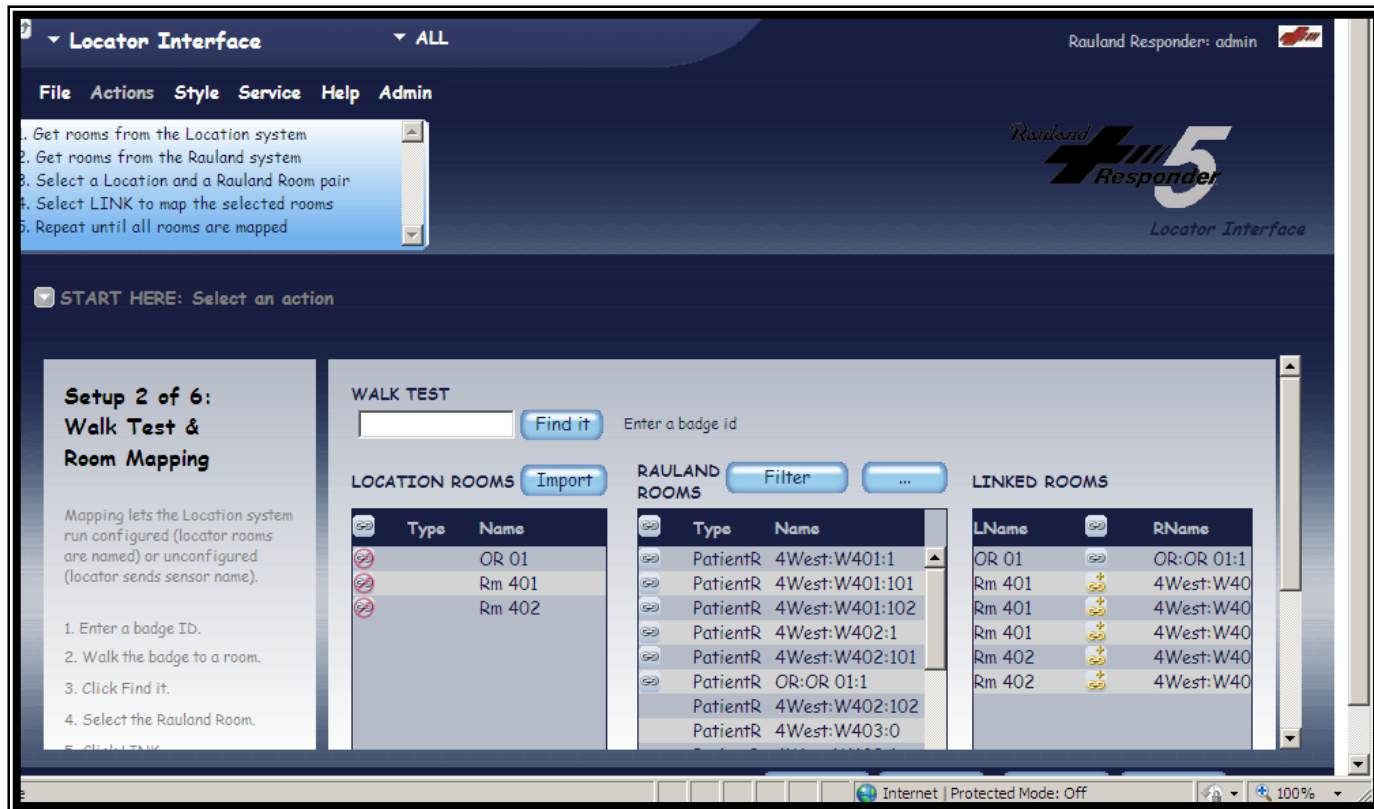
Location Interface (366401)

The Location Interface is what connects a staff tracking / locating system to the Responder 5 solution. There are a great many benefits to integrating the two systems, such as automatic call cancellation, hands free interaction with the nurse call system and more meaningful reports in Reports Manager.

Rauland does not manufacture a location system, allowing hospitals to choose a system that works best for their unique needs. This approach also allows hospitals to blend different locating systems if they so desire.

There is always a piece of software required from the Real-Time Locating System (RTLS) vendor to make this server to server connection possible. It is important to know what this is, the associated costs, and the setup logistics.

This interface is configured by Rauland Tech Support at no additional charge. Be sure to specify to the hospital that Rauland will need remote access to the system to initially set up the communication between the RTLS server and the Responder 5 Application Server. There are many intricacies to laying out a system with staff locating. It is best to refer to the specific Application and Technical Note for the exact combination that a hospital has chosen.



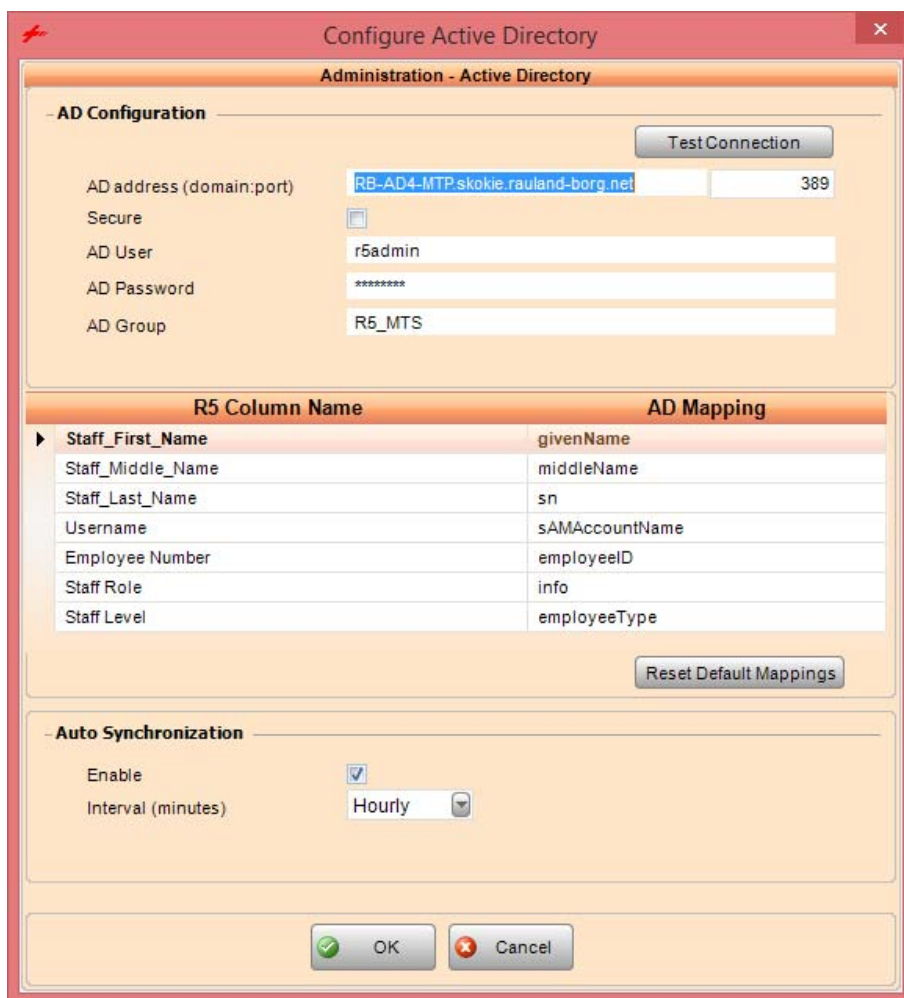
Responder® 5 Integrations

Active Directory Interface

The Active Directory Interface is included, at no additional charge, with the PC Console. This interface communicates with a hospital's Active Directory (AD) system importing staff information into the Responder 5 system. Hospitals often manage all their staff in AD and have that feed all other systems that need staff information (such as their payroll system, scheduling systems, and time and attendance systems). By having this interface feed staff into the Responder 5, it eliminates the ongoing maintenance of adding and inactivating staff in the nurse call system.

The hospital creates an AD group and places their staff in this group. You configure the Responder 5 Administration—Facility Settings screen to communicate to that server and group. Once complete the updates will happen automatically. There is still an element of staff maintenance to be done in the Responder 5. This includes giving staff Responder 5 specific roles and levels.

For further details on the setup of this interface, refer to the Responder 5 Active Directory Interface Application and Design Guide



R5 Column Name	AD Mapping
Staff_First_Name	givenName
Staff_Middle_Name	middleName
Staff_Last_Name	sn
Username	sAMAccountName
Employee Number	employeeID
Staff Role	info
Staff Level	employeeType

Responder[®] 5 Integrations

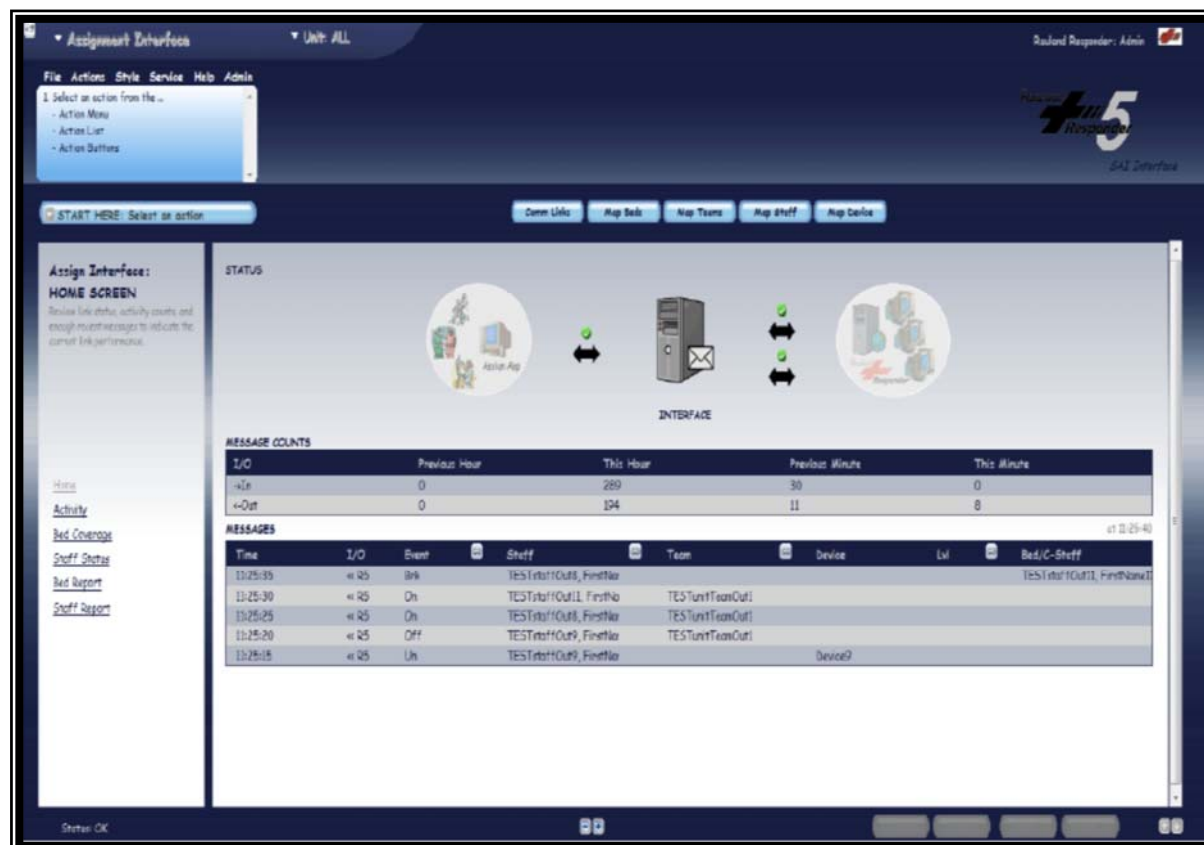
ResponderSync™ Interface

ResponderSync is an optional interface that enables the sharing of staff to patient room assignments. This sharing of information begins once the staff member signs on duty and ends when the staff member signs off duty. Pre-assignments are not shared, as not all systems have this concept, so the assignments are only shared once someone is on duty. When a staff member has pre-assignments and then come on duty in Responder 5, those assignments become current and are shared via this interface.

Staff status and updates are sent from Responder 5 and sent from the RAS to the listening system. The listening system will acknowledge the individual messages real-time. Responder 5 can publish these updates to up to five (5) different listening systems.

This interface is configured by Rauland Tech Support at no additional charge. Be sure to specify to the hospital that Rauland will need remote access to the system to initially set up the communication between the hospitals registration system (or interface engine) and the Responder 5 Application Server.

For further details on the setup of this interface, refer to the ResponderSync Application and Design Guide.



The screenshot displays the Responder 5 Assignment Interface. The top menu bar includes 'File', 'Actions', 'Style', 'Service', 'Help', and 'Admin'. The main window is titled 'Assignment Interface' and 'Unit: ALL'. The left sidebar contains a 'START HERE: Select an action' button and a list of actions: 'Action Menu', 'Action List', and 'Action Buttons'. The main content area is divided into two sections: 'Assign Interface: HOME SCREEN' and 'STATUS'. The 'HOME SCREEN' section includes a description of the interface and a list of links: 'Home', 'Activity', 'Bed Coverage', 'Staff Status', 'Bed Report', and 'Staff Report'. The 'STATUS' section features a diagram of the interface components and two tables: 'MESSAGE COUNTS' and 'MESSAGES'.

I/O	Previous Hour	This Hour	Previous Minute	This Minute
In	0	259	30	0
Out	0	104	11	8

Time	I/O	Event	Staff	Team	Device	Bed/C-Staff
11:25:35	In	Bk	TESTstaffOut1, FirstNa	TESTTeamOut1		TESTstaffOut1, FirstName1
11:25:30	In	On	TESTstaffOut1, FirstNa	TESTTeamOut1		
11:25:25	In	On	TESTstaffOut1, FirstNa	TESTTeamOut1		
11:25:20	In	Off	TESTstaffOut1, FirstNa	TESTTeamOut1		
11:25:15	In	Un	TESTstaffOut1, FirstNa	TESTTeamOut1	Device2	

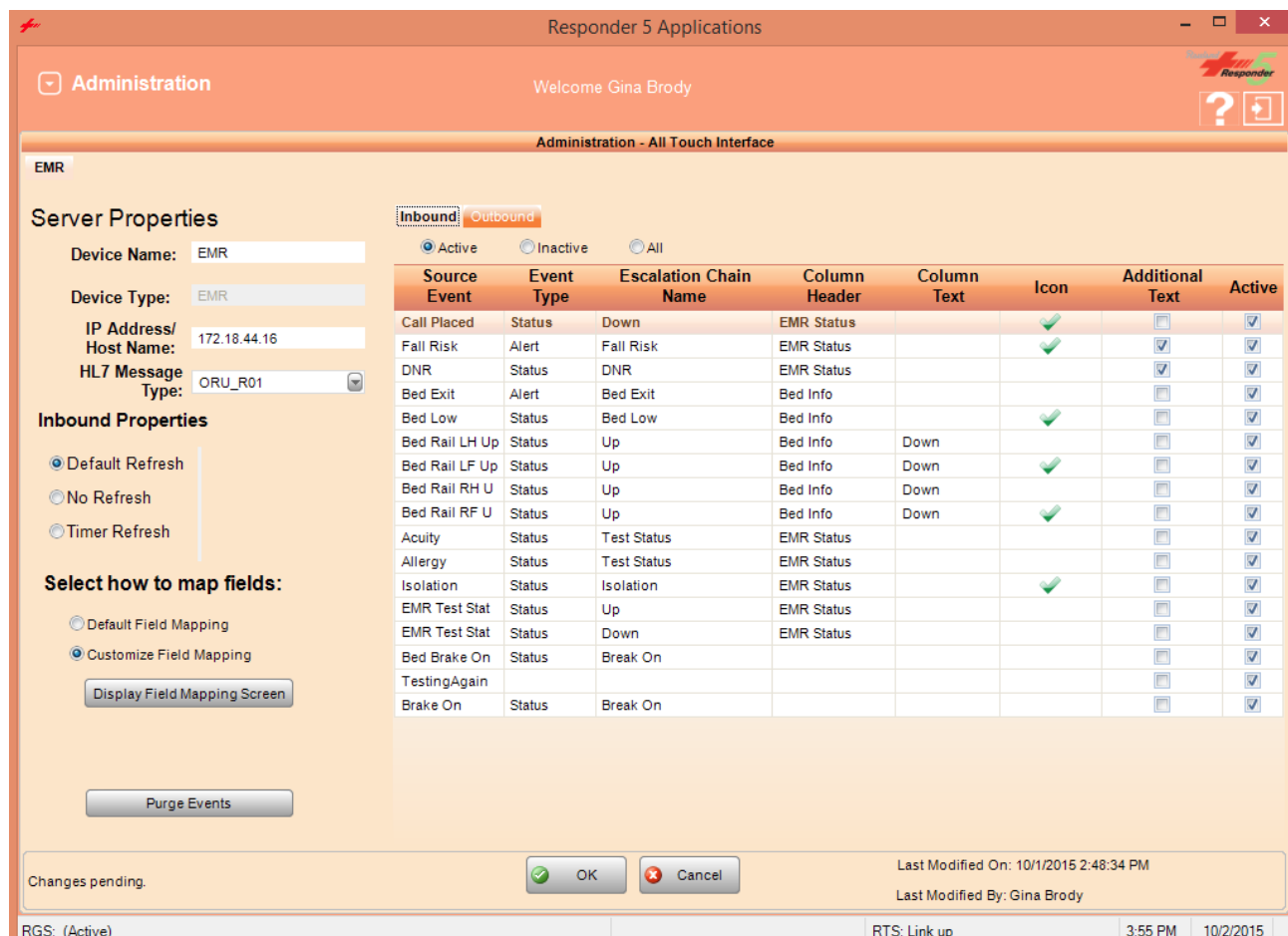
Responder® 5 Integrations

All Touch® for EMR Interface

All Touch is an optional interface that allows for third party systems to start Events in the Responder 5 System via standard HL7 messages. This interface reduces duplicate data entry, improves communication and streamlines workflows by allowing third-party systems to communicate through standard messaging protocols to light Corridor lights, Color SWOOPS™ and place calls to Responder 5 users throughout the hospital.

The All Touch for EMR interface provides a powerful link between Responder 5 and the Hospital EMR. Routine nursing documentation triggers Responder 5 events to light Corridor Lights, color SWOOPS™ and send messages to phones communicating key information at the point of care. Responder 5 Events can be sent outbound to the EMR to document specific events in the room, or to chart specific values for the individual patient in the EMR Flowsheet.

For further details on the setup of this interface, refer to the Responder 5 All Touch for EMR Application Note and the Responder 5 All Touch for EMR Tech Note.



Responder 5 Applications

Welcome Gina Brody

Administration - All Touch Interface

EMR

Server Properties

Device Name: EMR

Device Type: EMR

IP Address/ Host Name: 172.18.44.16

HL7 Message Type: ORU_R01

Inbound Properties

☒ Default Refresh

☐ No Refresh

☐ Timer Refresh

Select how to map fields:

☐ Default Field Mapping

☒ Customize Field Mapping

Display Field Mapping Screen

Purge Events

Changes pending.

OK Cancel

Last Modified On: 10/1/2015 2:48:34 PM

Last Modified By: Gina Brody

RGS: (Active)

RTS: Link up

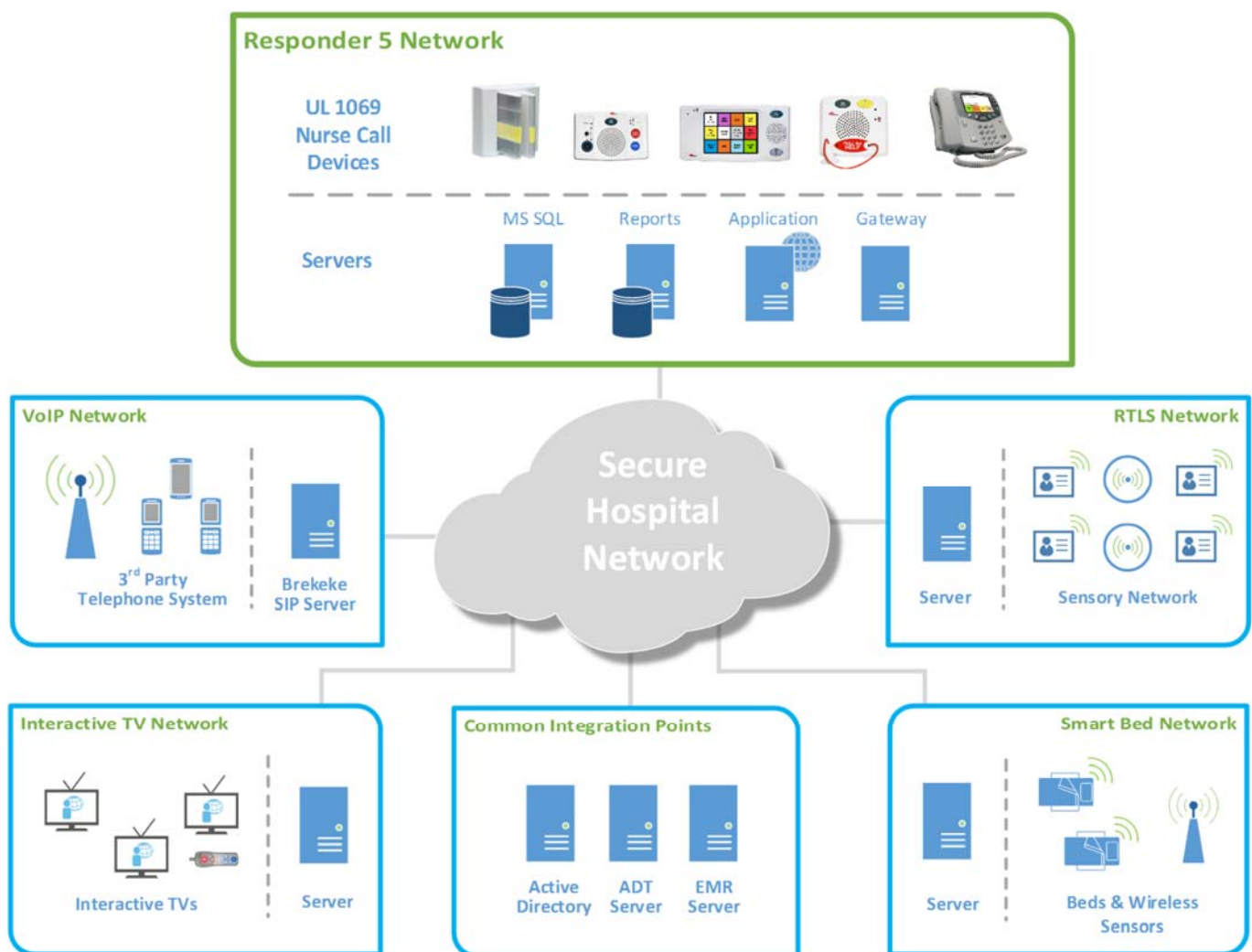
3:55 PM 10/2/2015

Source Event	Event Type	Escalation Chain Name	Column Header	Column Text	Icon	Additional Text	Active
Call Placed	Status	Down	EMR Status		✓		✓
Fall Risk	Alert	Fall Risk	EMR Status		✓	✓	✓
DNR	Status	DNR	EMR Status			✓	✓
Bed Exit	Alert	Bed Exit	Bed Info				✓
Bed Low	Status	Bed Low	Bed Info		✓		✓
Bed Rail LH Up	Status	Up	Bed Info	Down			✓
Bed Rail LF Up	Status	Up	Bed Info	Down	✓		✓
Bed Rail RH U	Status	Up	Bed Info	Down			✓
Bed Rail RF U	Status	Up	Bed Info	Down	✓		✓
Acuity	Status	Test Status	EMR Status				✓
Allergy	Status	Test Status	EMR Status				✓
Isolation	Status	Isolation	EMR Status		✓		✓
EMR Test Stat	Status	Up	EMR Status				✓
EMR Test Stat	Status	Down	EMR Status				✓
Bed Brake On	Status	Break On					✓
TestingAgain							✓
Brake On	Status	Break On					✓

Responder[®] 5 Network Design

The heart of Responder 5 is the nurse call system (green outline box below). From this core, all software and interfaces are possible outside of the nurse call network (blue outlined boxes below). All servers shown below, are hospital provided servers that must be on their network, in their datacenter, and managed by the hospitals Information Technology (IT) department.

Though you are not providing the servers needed to run the Responder 5 Software and Interface Modules, the hospital will look to you to tell them what they need to purchase. This, along with the server specifications found in the Responder 5 In Your Data Center Application Note provides this information.



These are standard Microsoft servers and databases that need to be routinely managed for optimal performance, monitored for storage, and maintained for general good health. These servers fall within a datacenters normal routine for backups and management. For specific jobs and 

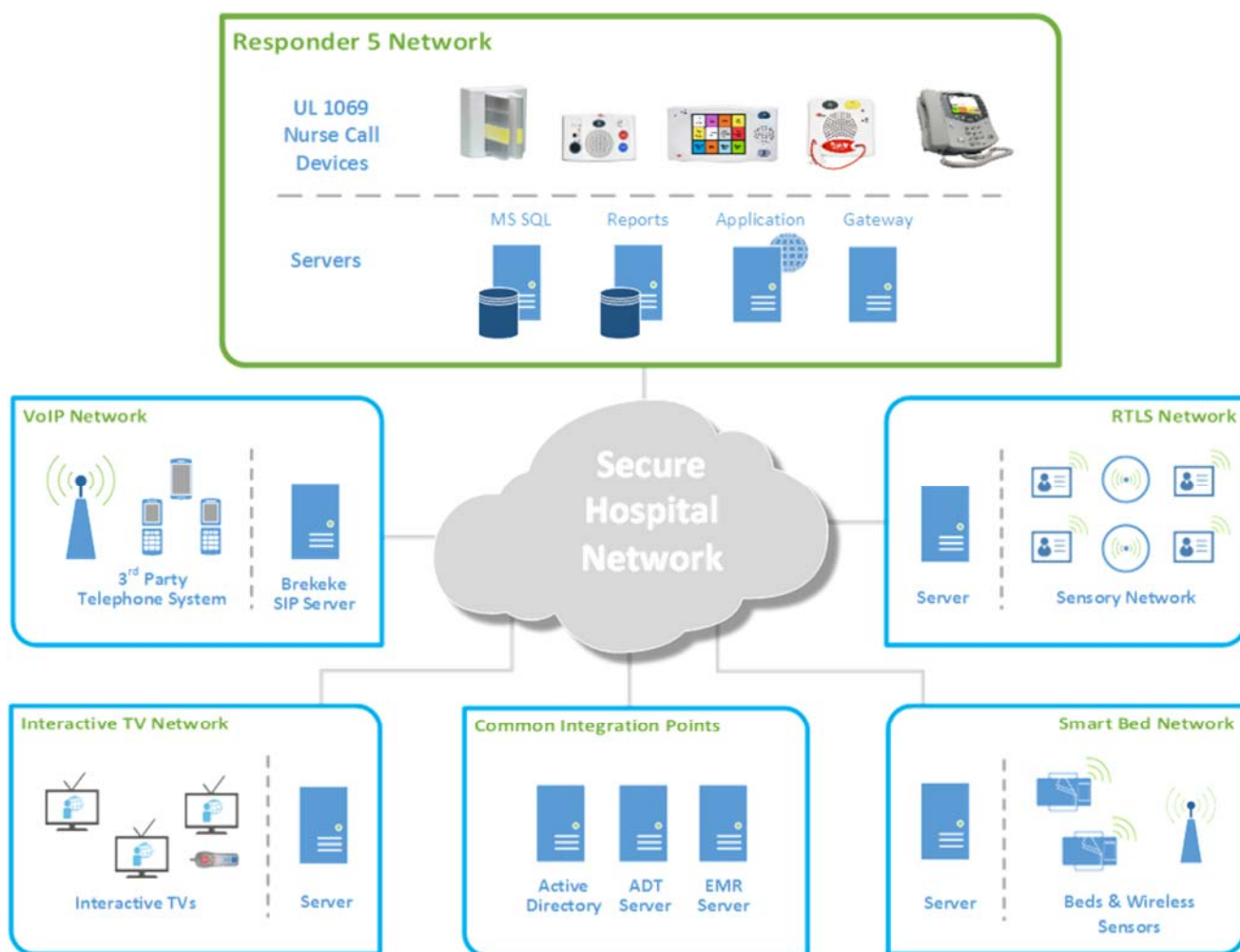
Responder[®] 5 Network Design

Typical Network Layout

The Responder 5 servers reside in the hospital's datacenter, on their network. These servers can be four independent servers, as shown below. If the hospital chooses to deploy four physical servers two of them will be for data purposes only (Report and Database Servers) and two will be for applications, communications and integrations (Gateway and Application Servers).

The interface from the Location System and ADT System are represented in the "Common Integration Points" box. These are hospital provided solutions that feed into the Responder 5 system. The interface to wireless phones is represented in the "VoIP Network" box. This can vary greatly depending on the system that the hospital has deployed. It is best to use Rauland Telephony Application Notes listed in the Reference documents list in the beginning of this document to further evaluate your hospital's phone needs.

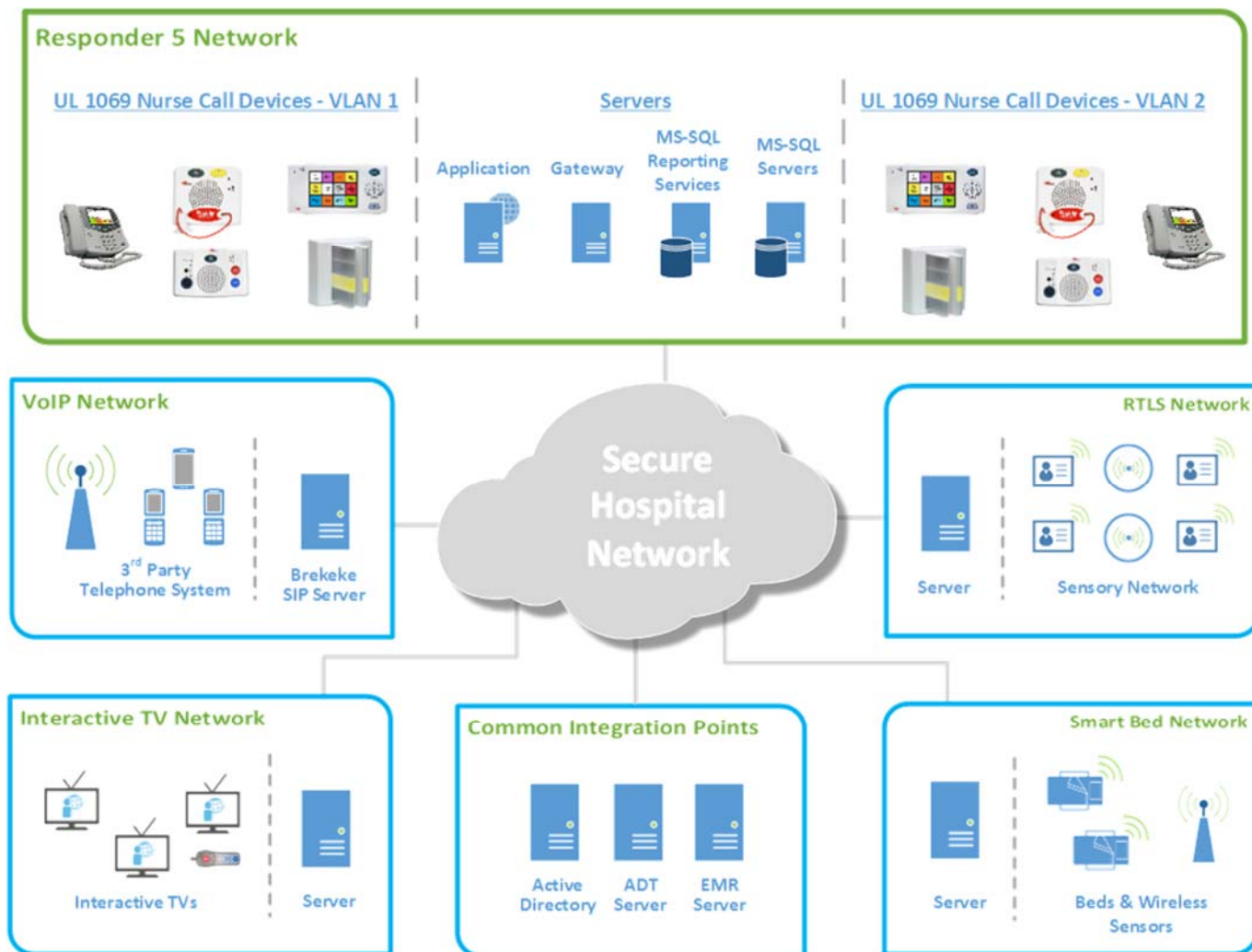
Lastly are the hospital provided computers/workstations located throughout their facility. Responder 5 is a shortcut on a computer's desktop that can be accessed by any Responder 5 authorized / built user.



Responder[®] 5 Network Design

Alternative Network Layout

Some hospitals may choose to deploy their Responder 5 nurse call network slightly differently than shown on the previous page. A hospital may choose to wire an entire floor of Responder 5 back to an electrical closet on the floor. That closet then is connected to the hospitals network. This is repeated from floor to floor. By not wiring each floor of nurse call together physically, it gives the hospital greater flexibility in wiring. This topology is shown in the figure above which

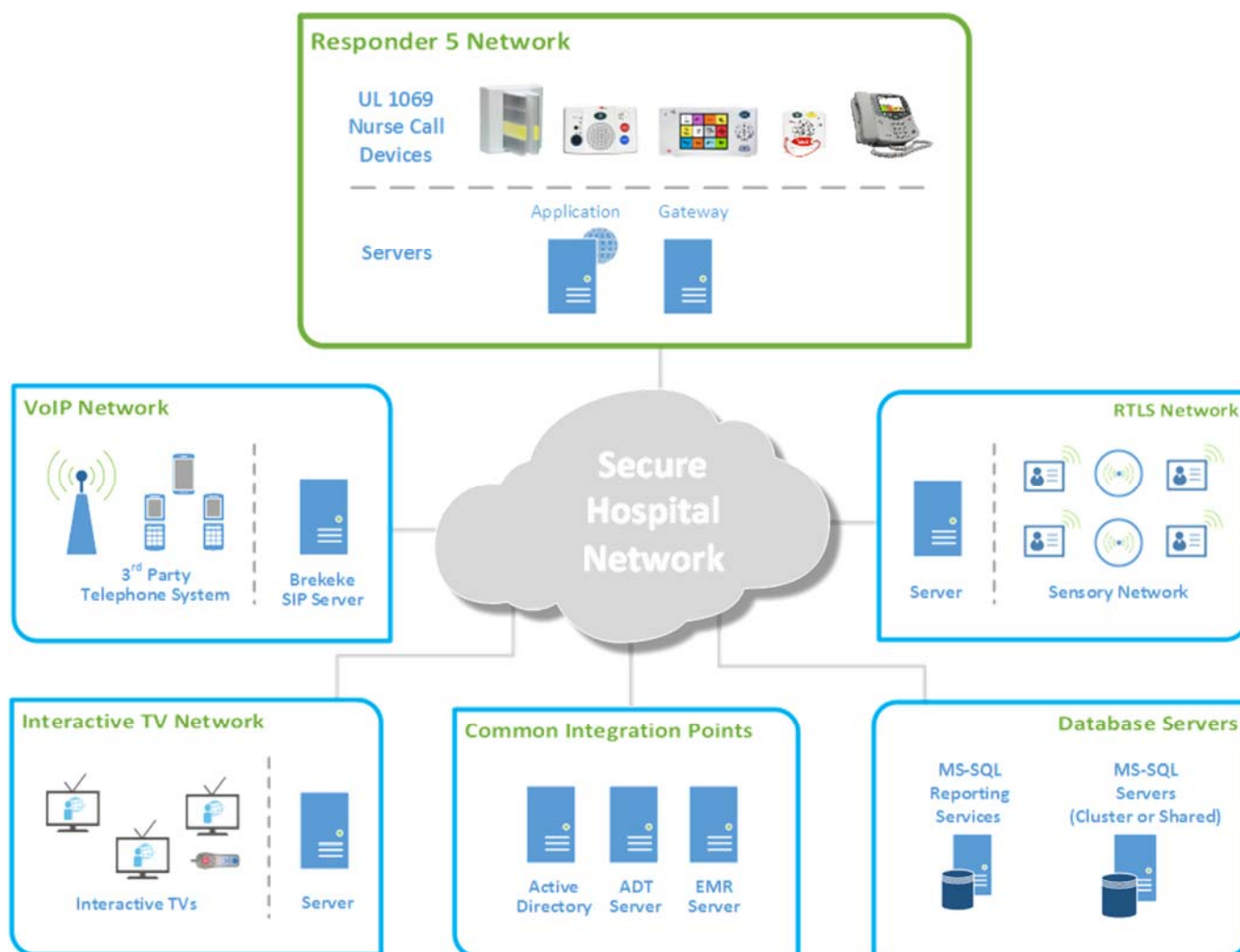


shows two nurse call VLANs. To accomplish this layout, Responder Network Concentrators (RNCs) are required. Refer to the *Responder Network Concentrator Application and Design Guide* for more details on how and when to deploy them in a Responder 5 Network.

Responder® 5 Network Design

SQL Clustered Network Layout

Another variable to a hospital's Responder 5 network is if they have a SQL clustered environment. If a hospital has a dedicated group of servers for the purpose of data storage only, this can eliminate the need for a stand alone Responder Database Server (RDS) and a Responder Report Server (RRS). Simply put, the Responder databases shall reside on the hospital's SQL clustered servers and store all the Responder data there. In this scenario, it is important to note that Responder 5 utilizes SQL Reporting Services to generate all reports. This is a service included with SQL at no additional charge to the hospital. This service will have to be installed to be able to generate reports in Report Manager.



Responder® 5 System Layout

Server Design

When deciding what Responder 5 servers are needed for a hospital, you must take into account what software or interface modules the hospital will be installing. For a core Responder 5 nurse call system, without any software or integrations, no servers are needed. The life safety portion of the system runs on its own highly available network.

Each server has its own unique responsibility in the Responder 5 network. The Responder Gateway Server (RGS) acts as the communications broker between the nurse call components and the hospital network. This server is key in every Responder 5 system that has any software or integration needs. There is only one instance where a hospital will require only one Responder server, the RGS, and that is if a hospital just wants to monitor the status of the nurse call components (online, offline, etc). Outside of this application, the RGS is always accompanied by a Responder Application Server (RAS) and a Responder Database Server (RDS).

The RAS is the point of connection for all users to sign into the Responder 5 Software modules. The RAS is also the point of connection for the Responder 5 Interfaces to bring in information. The RDS is the server that holds all data within MS SQL Databases. This server is the brains of the Responder 5 system holding all configuration files, call data, patient data and location data for example.

The Responder Reporting Server (RRS) is the server that holds all data for long term reporting purposes. This server gets all its information ported over to it from the RDS. By having this server separate from the rest of the system, it allows the amount of storage it can accommodate to be as large as a hospital deems necessary. The below table tells you what module is installed on which Responder server. Notice there is nothing installed on the RDS nor the RRS. These are strictly database servers that are needed for data storage.

	<i>RGS</i>	<i>RAS</i>	<i>RDS</i>	<i>RRS</i>
PC Console		X		
Staff Assignment		X		
My Profile		X		
Reports Manager		X		X
Administration		X		
Pocket Page Interface	X			
Telephone Interface	X			
HL7 Interface		X		
Location Interface		X		
ResponderSync Interface	X	X		
All Touch for EMR Interface		X		

Responder® 5 System Layout

Counting Software and Interface Module Beds



When deciding how many of each Responder 5 module is needed for a hospital, it is important to know what counts as a software bed. Generally speaking, a bed can be an inpatient bed to which a patient is assigned. There are additional types of beds that you may be quoting Responder 5 nurse call for such as surgical suites, emergency bays and outpatient treatment or exam rooms. These all count as a bed for the purposes of correctly licensing the appropriate number of software or interface beds.

A second part of correctly licensing a hospital is to determine what functionality the hospital will use on each bed. If a hospital is going to use the PC Console for all beds (a centralized code blue display for example) but is only going to map the HL7 Interface to inpatient beds, then you will have 2 different bed counts for each module. The PC Console shall be licensed for all beds whereas the HL7 Interface shall be for a subset of beds.

Room Device(s)	Number of Beds	Comments
Single or enhanced patient bed station	1	Do not count additional sub-stations
Dual bed station	2	Same as above
Stand alone staff terminal	1	If the staff terminal is programmed in “console mode”, do not count it as a bed.
Stand alone (one, two or four) button or 2-jack station	1	An exam or treatment room (i.e. OR, PACU, ED, Radiology)
Responder IV or 4000 beds	1	When Responder 5 software or interface is used with Responder IV or 4000 hardware through a Network Adaptor Module (NAM), count each of the Responder IV or 4000 beds as a Responder 5 bed. Use the Responder 5 rules for these beds.
Virtual rooms	1	Virtual beds are rooms/beds supported by the software but for which there is no hardware installed where a patient may be assigned. Please contact Marketing Sales Engineers for assistance with this application.
Domeless controller used for overhead paging	0	
Duty station	0	
Staff station	0	When not used by a patient
Stand alone bath station (audio or non-audio)	0	A public bathroom
Zone light	0	

Responder® 5 System Layout

Common Software Questions

When deciding what Responder 5 modules are needed for a hospital, it is important to know what functionality is the site looking for. The below table is meant to be used as a reference tool to decide what modules to include in a system design.

Hospital Just Wants To....									
	PC Console 366102	Staff Assign- ment 366104	Reports Manag- er 366200	Pocket Page INT 355001	Tele- phone INT 355002	ADT INT 366402	RTLS INT 366401	SYNC INT 366403	All Touch INT 366404
Run management reports	X		X						
Use pagers	X	X		X					
Use non-SIP phones (w/ toolbar texting)	X	X		X	X				
Use SIP phones (w/ toolbar texting)	X	X			X				
Use a third party staff assignment for paging only (aka middleware)	X	X		X					
Use a third party staff assignment for phones (aka middleware)	X	X		X	X				
Use Staff Assignment (w/pagers)	X	X		X					
Whiteboard with patient information	X					X			
Centralized code blue display	X								
Track staff only	X						X		
Share staff assignments	X	X						X	
System diagnostics on RGS only									
Show calls on a R5 VoIP console									
Show RIV calls on a R5 VoIP console									
Integrate with EMR	X					X			X