Operator's Manual

Patient SafetyNet[™] Supplemental Alarm System Series 5.0.0.0





These operating instructions provide the necessary information for proper operation of Patient SafetyNet. There may be information provided in this manual that is not relevant for your system. If you encounter any serious incident with product, please notify the competent authority in your country and the manufacturer.

Note: Cleared Use Only: The device and related accessories are cleared by the Food and Drug Administration (FDA) and are CE Marked for noninvasive patient monitoring and may not be used for any processes, procedures, experiments, or any other use for which the device is not intended or cleared by the applicable regulatory authorities, or in any manner inconsistent with the directions for use or labeling.

Notice: Purchase or possession of this device does not carry any express or implied license to use with replacement parts which would, alone or in combination with this device, fall within the scope of one of the relating patents.

CAUTION: Federal (USA) law restricts this device to sale by or on the order of a physician. See instructions for use for full prescribing information, including indications, contraindications, warnings and precautions.

For professional use. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.

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About this Manual

This manual explains how to configure and use the Patient SafetyNet[™]. Important safety information relating to general use of the Patient SafetyNet appears in this manual. Read and follow any warnings, cautions, and notes presented throughout this manual. The following are explanations of warnings, cautions, and notes.

A warning is given when actions may result in a serious outcome (for example, injury, serious adverse effect, death) to the patient or user. The following is an example of a warning:

Warning: This is a sample of a warning statement.

A caution is given when any special care is to be exercised by the patient or user to avoid injury to the patient, damage to this device, or damage to other property. The following is an example of a caution:

Caution: This is a sample of a caution statement.

A note is given when additional general information is applicable. The following is an example of a note:

Note: This is a sample of a note.

Product Description, Features, and Intended Use

Product Description

Patient SafetyNet[™] is a supplemental remote monitoring and clinician notification system and is part of the Hospital Automation[™] portfolio. It provides a secondary display of Masimo SET® pulse oximetry, rainbow® SET pulse CO-Oximetry and acoustic respiration rate monitors. Patient SafetyNet enables clinicians to view and monitor patient physiological conditions when used in hospitals or hospital-type environments.

Patient SafetyNet may consist of the following components and/or features:

- Patient SafetyNet Appliance/Switch/UPS
 - Support for up to 500 devices per appliance.
 - Support for up to 80 pagers per appliance.
- Patient SafetyNet View Station/Replica
 - Support for up to 100 Patient SafetyNet View Stations or Replica devices per appliance.
- Bedside wireless radio(s) or serial-to-ethernet converter(s).
- Ability to communicate over a 802.11 (2.4 & 5 GHz) wireless or hard wired network.
- Internet Protocol (IP) device notification support.
- Iris® Connectivity
- Multiple User Interface (UI) Options:
 - Patient Centric
 - Device Centric
- MyView feature support.
- Connectivity gateway options.
- Audio/Video Communication with bedside devices

Regulatory Notice

The following features are NOT AVAILABLE.

Feature	NOT AVAILABLE in U.S.A. and territories relying on FDA market clearance
SpO ₂	
SpfO ₂	Х
PR	
Pi	
PVi	
SpHb	
SpCO	
SpOC	
SpMet	
RRa	
RRp	
ORi	Х

Intended Use

The Patient SafetyNet (PSN) is intended to be used as a supplemental alarm system communicating with multiple patient monitoring devices. The PSN provides secondary display of physiological monitoring parameters. It enables the viewing and monitoring of patient physiological conditions. The PSN is used in hospitals or hospital-type environments.

Safety Information, Warnings and Cautions

CAUTION: Patient SafetyNet is to be operated by, or under the supervision of, qualified personnel only. The manual, accessories, directions for use, all precautionary information, and specifications should be read before use. Refer to the separate Operator's Manuals for connected devices and instruments for additional safety information, warnings, and cautions.

Safety Warnings and Cautions

WARNING: Do not to place the Patient SafetyNet View Station where it may be accessible by patients.

WARNING: Do not use Patient SafetyNet if it appears or is suspected to be damaged.

WARNING: Do not place accessories in any position that might cause it to fall on the patient.

WARNING: Explosion hazard: Do not use Patient SafetyNet or accessories in the presence of flammable anesthetics or other flammable substance in combination with air, oxygen-enriched environments, or nitrous oxide.

WARNING: To protect against injury, follow the directions below:

- Avoid placing the device or accessories on surfaces with visible liquid spills.
- Do not soak or immerse the device in liquids.
- Use cleaning solutions only as instructed in this operator's manual

WARNING: Do not use the Patient SafetyNet System during or near magnetic resonance imaging (MRI).

Performance Warnings and Cautions

WARNING: The Patient SafetyNet System is a supplemental alarm notification system and should not be used as the primary source for patient and system alarms. The standalone device's audible and visual alarms, used in conjunction with clinical signs and symptoms, are the primary sources for determining that an alarm condition exists.

WARNING: Do not place containers with liquids on or near the Patient SafetyNet System. Liquids spilled on the Patient SafetyNet System may cause it to perform inaccurately or fail.

WARNING: To indicate proper system operation, keep the Patient SafetyNet user interface open at all times.

CAUTION: The Patient SafetyNet System is intended to operate across the facility's network. Unanticipated failure or alteration of network components (including but not limited to: disconnection or malfunctioning of a networking device/switch/router/ethernet cable) may result in loss of supplemental notification by the Patient SafetyNet System. Altering or making changes to the Hospital Network should be done with proper knowledge.

CAUTION: The Quality of Service (QoS) of connectivity to the Point of Care (POC) Devices may be affected by:

- Network Failure
- Increased number of connected devices on the Network
- Modifications to the Network
- Presence of devices provided with radio transmitters
- Improper network configuration on POC
- Signal Priorities of the Network
- Latency

CAUTION: Network performance may be affected by changes in the network including the addition of additional network devices.

CAUTION: Use redundant network connections to ensure reliable network connectivity to the Patient SafetyNet Appliance.

CAUTION: Utilize a back-up AC power source to minimize the interruption of service due to the loss of power. Complete loss of power may result in the corruption and loss of data.

CAUTION: To prevent tampering with the Patient SafetyNet Appliance it should be located in a secure location.

CAUTION: Carefully route power supply cord to minimize the accidental disconnection.

CAUTION: Patient SafetyNet requires a dedicated Personal Computer (PC). This is necessary so that other applications do not interfere with the Patient SafetyNet View Station.

CAUTION: Do not place Patient SafetyNet on electrical equipment that may affect the device, preventing it from working properly.

CAUTION: Do not leave headphones, or any other apparatus plugged into the Patient SafetyNet Central View Station unattended, as they may affect the ability to detect audible notifications.

CAUTION: To ensure proper system operation, always verify successful connection between Point of Care devices and the Patient SafetyNet System.

Note: Patient SafetyNet data is maintained after a proper system shut down. The time of shut down is not recorded in the system logs.

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Note: Successful connection between Patient SafetyNet and a standalone device via Root's Iris port requires:

- The standalone device is correctly configured to output data.
- The standalone device is connected to Root via an authorized and approved Iris Adapter
- The standalone device is the correct make, model, and software version for the attached Iris Adapter.
- Root is connected to Patient SafetyNet and displays successful Iris connection to the standalone device.

Note: Verify that at least one Patient SafetyNet View Station user interface is displaying the correct time to indicate Patient SafetyNet Appliance is functioning properly.

Performance Warnings and Cautions for Notification Modes Clinician Paging/Notification Mode

WARNING: The Patient SafetyNet Clinician Paging System is a supplemental alarm notification system. Due to the potential issues with RF transmission and reception, there is no guarantee that each page will be received at the pager. Use the Point of Care (POC) device as the primary alarm system.

WARNING: The effective range (distance between the bedside radio and the pager or the paging transmitter and the pager) is affected by interfering objects such as walls, floors and other devices that emit radio frequency waves.

CAUTION: When using the Patient SafetyNet Clinician Notification System carefully plan the notification protocol to maximize the utility of the system.

Note: All Point of Care devices are automatically assigned to the default supervisory pager until they are admitted to the system.

Note: Users must login to the Patient SafetyNet System in order to change any of the device settings or to make any assignment changes.

Note: Verify that at least one user interface is visible to indicate server is functioning properly.

Connection to External Notification Systems Mode

WARNING: When using an external notification system, Patient SafetyNet is only responsible for the sending of notifications to the external notification system. Once a notification has been sent to the external notification system by Patient SafetyNet, per Masimo's network specifications, any failure to receive and transmit that notification will be a result of an error caused by the external notification system.

CAUTION: When using an external notification system it is strongly recommended that a test notification may be sent before actively monitoring patients to verify the external notification system is working properly.

CAUTION: Additional test notifications should be performed when any changes or modifications have been made to the external notification system.

Note: The use of HL7 external notification requires that Patient SafetyNet must be in Central Surveillance Mode.

Note: When using HL7 external notification, Patient SafetyNet sends all Point of Care device alarms to the external notification system without applying any alarm filters and/or delays previously configured on Patient SafetyNet.

Note: When using HL7 external notification, Patient SafetyNet may not operate in any manner indicated in the Clinician Notification sections of this manual. For information on notifications please consult your system administrator.

Central Surveillance Mode

WARNING: When in Central Surveillance Mode, Patient SafetyNet will no longer provide supplemental alarms to notification devices.

WARNING: To indicate proper system operation, the Patient SafetyNet user interface should be open at all times and not closed.

WARNING: In Central Surveillance Mode, alarms are only communicated through the Patient SafetyNet user interface and therefore it requires at all times that at least two user interfaces are actively being used or that a trained clinician is monitoring the Patient SafetyNet View. If one of the user interfaces is disconnected from the server, the other user interface will show audible and visual alarm status on the screen.

Cleaning and Service Warnings and Cautions

WARNING: Do not adjust, repair, open, disassemble, or physically modify the Patient SafetyNet System. Injury to personnel or equipment damage could occur. Return Patient SafetyNet for servicing.

WARNING: If the Patient SafetyNet System fails any part of the setup procedures or leakage spot check, remove the device from operation until qualified service personnel have corrected the situation.

WARNING: Do not autoclave, pressure sterilize, or gas sterilize Patient SafetyNet.

WARNING: Use cleaning solutions only as instructed in the operator's manual.

Note: Modifications to the Patient SafetyNet System's settings, and those of any components connected thereto, should be made by qualified personnel only.

Note: Patient SafetyNet installation must be completed by Masimo or an authorized service department.

Compliance Warnings and Cautions

WARNING: Do not attempt to repair or modify any part of the Patient SafetyNet system doing so may void the warranty or the authorization to use the device or devices.

WARNING: Disposal of product - Comply with local laws in the disposal of the device and/or its accessories.

WARNING: When using devices with wireless features outside the United States, consideration should be taken to local government frequency allocations and technical parameters to minimize the possibility of interference to/from other wireless devices.

WARNING: In accordance with international telecommunication requirements, the frequency band of 2.4 GHz and 5.15 to 5.25 GHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Chapter 1: Technology Overview

The Patient SafetyNet operating instructions are intended to provide the necessary information for proper operation of the Patient SafetyNet Supplemental Alarm Notification System.

General knowledge and an understanding of the features and functions of the Patient SafetyNet Supplemental Alarm Notification System are a prerequisite for proper use.

Do not operate the Patient SafetyNet Supplemental Alarm Notification System without completely reading and understanding these instructions.

The Patient SafetyNet System is a supplemental alarm notification system and should not be used as the primary source for patient and system alarms. The standalone device's audible and visual alarms, used in conjunction with clinical signs and symptoms, are the primary sources for determining that an alarm condition exists.

The following instructions assume that the Patient SafetyNet System is installed and ready for use.

SafetyNet Modes of Operation

Patient SafetyNet can function in two distinct modes of operation, either Clinician Paging/Notification Mode or Central Surveillance Mode.

The following table shows a feature comparison for each mode of operation.

Feature	Clinician Paging/Notification Mode	Central Surveillance Mode	Section
Add/Remove/Modify Alarm Profiles	 	~	Alarm Profile Configuration on page 76
Add/Remove/Modify Domain	 	~	Domains on page 71
Add/Remove/Modify Device	 	~	Instruments on page 75
Assign Instruments	 	~	Assign Instruments on page 46
Audio Acoustic Playback	 	~	Acoustic Audio Playback on page 46
Change Alarm Limits	✓	~	Adjusting Alarm Limits on page 46
Change Patient/Device View	 	~	About the Patient/Device Button on page 23
Detail View Information	 	~	SafetyNet Modes of Operation on page 13
Edit Patient Information	✓	~	Edit Patient Information on page 44
Icon View	 	~	Main Screen Information - Device Icon View on page 29
Iris	 	~	Chapter 6: Iris on page 65
MyView Instrument	 	~	Chapter 7: MyView on page 67
Numeric View	 	 	Patient Window - Numeric View on page 27

Feature	Clinician Paging/Notification Mode	Central Surveillance Mode	Section
Patient Admission	~	~	Admit on page 39
Patient Discharge	~	 	Discharge on page 44
Suspend Alarms	~	~	Suspending Alarms on page 44
User Management	~	~	User on page 89
View Trend	~	~	Trend Window on page 36
View Waveform	~	~	Live Waveforms and Historical Waveform Review on page 38
Add/Remove/Modify Pager	~	×	Pager Setup and Operation on page 95
Change Domain	~	×	Domains on page 71
Escalation Policy	~	×	Notification and Escalation Protocol on page 18
Login	~	×	Login on page 21
MyView UI	~	×	Chapter 7: MyView on page 67
Notification Device Assignment	~	×	Assign Respondents on page 43
Reverse Video	×	~	Re-Escalation and Audible Alarms on page 19
Audio/Video Communication	 	 	Audio/Video Communication on page 47

Compatible Masimo Bedside Point of Care Devices

- Radical[®] Pulse Oximeter
- Radical-7[®] Pulse CO-Oximeter[®]
- Rad-87[®] Pulse CO-Oximeter[®]
- Rad-8[®] Pulse Oximeter
- Rad-97[®] Pulse CO-Oximeter[®]
- Radius-7[®] Pulse CO-Oximeter[®]
- Root®
- S Masimo Corporation

Chapter 2: System Components

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- 1. The device is connected to the Point-of-Care (POC) Device via a DB9 serial (male-male) Null Modem Cable. In some cases, devices may have built-in communication technologies.
- 2. Depending on the network configuration, the POC Device communicates through a wireless access point(s), or hard wired to a switch.
- 3. The Wireless Access Point(s) transmit data through a network switch to the Patient SafetyNet Appliance. The Access Point(s) connect to the network switch via standard network cable.
- 4. The Patient SafetyNet Appliance is capable of communicating with the Wireless Access Points across the network.

IP Phones or other Notification Devices

- The Patient SafetyNet View Station is capable of communicating with the Patient SafetyNet Appliance across the network. The Patient SafetyNet View Station allows clinicians access to the Patient SafetyNet Appliance for Admission, Discharge, and Notification Device assignments.
- 6. The Paging Transmitter is capable of communicating with the Patient SafetyNet Appliance across the network.
- 7. IP phones or other notification devices can communicate through a wireless access point(s) with the Patient SafetyNet Appliance across the network.

4

POC Device

For Central Surveillance Mode



Item	Description	ltem	Description
1	Patient SafetyNet Appliance	3	802.11 Wi-Fi Access Point
2	Patient SafetyNet View Station	4	POC Device

- 1. The device is connected to the POC Device via a DB9 serial (male-male) Null Modem Cable. In some cases, devices may have built-in communication technologies.
- 2. Depending on the network configuration, the POC Device communicates through a wireless access point(s), or hard wired to a switch.
- 3. The Wireless Access Point(s) transmit data through a network switch to the Patient SafetyNet Appliance. The Access Point(s) connect to the network switch via standard network cable.
- 4. The Patient SafetyNet Appliance is capable of communicating with the Wireless Access Points across the network.
- The Patient SafetyNet View Station is capable of communicating with the Patient SafetyNet Appliance across the network. The Patient SafetyNet View Station allows clinicians access to the Patient SafetyNet Appliance for Admission, Discharge, and Notification Device assignments.

Chapter 3: SafetyNet Operation Mode

Clinician Paging/Notification Mode

The Patient SafetyNet Clinician Paging/Notification Mode may consist of the following components and/or features:

- Patient SafetyNet Appliance/Switch/UPS
 - Support for up to 500 Point of Care (PoC) devices per Patient SafetyNet Appliance.
- Patient SafetyNet View Station/Replica
 - Support for up to 100 Patient SafetyNet View Stations or Replica devices per appliance.
- Paging Transmitter
 - Support for up to 80 Pagers per Patient SafetyNet Appliance.
- Support for IP Notification Devices
- Bedside wireless radio(s), Serial-to-Ethernet converter(s), or RJ45
- 802.11 (2.4 & 5 GHz) wireless or hard wired network

The image below is an example of the Patient SafetyNet Device Centric Clinician Paging/Notification Mode user interface. For information about the details of the Main Screen, see **Understanding the System Main Screen** on page 21.

Note: SpfO₂ currently not available in the U.S.A. and territories relying on FDA market clearance.



By using the Patient SafetyNet Clinician Paging/Notification Mode, users can define clinical assignments to notification devices. The system is designed to deliver the Alarm/Alert information from the device to the clinician worn Pager, IP devices, or mobile devices in approximately ten (10) seconds under normal load conditions. All alarms are set at the Point of Care Device. Be sure to verify the correct settings for alarms prior to using the device. Consult the Point of Care device operator's manual for setting alarms.

The system can accommodate up to 50 Patient SafetyNet View Stations and up to 500 PoC devices.

The Patient SafetyNet Clinician Paging/Notification Mode allows for up to 80 Pagers to be configured per Patient SafetyNet Appliance. Configuration of the Pagers is done at the time of installation by Masimo or a qualified service department. Do not exceed 80 Pagers per system; consult the Patient SafetyNet Installation Guide for information regarding the placement of the Paging Transmitter and range of the Pagers.

The Masimo Patient SafetyNet System can be connected to an external notification system. See the *Appendix* on page 107.

Notification and Escalation Protocol

Patient SafetyNet Clinician Paging/Notification Mode contains a Notification Escalation protocol which allows for configurable time intervals for *Initial*, *Escalation*, and *Re-Escalation* notifications on a device-by-device basis. All notifications display the escalation level when communicated to the respondent device. Primary and secondary respondents are assigned to respondent devices during the Patient Admit process. When a patient is not admitted to the system, all notifications go to the configured Supervisor respondent device, configured at the time of installation.



Level 1: Initial

When an Alarm/Alert condition is met, an *Initial* notification is sent to the Primary Respondent device(s) assigned to the Point of Care device at the time of patient admission to the Patient SafetyNet system. The notification displays the user configured patient label, the reason for the notification (example: SpO₂ Low), and the applicable clinical values. Additionally, the status *Initial* is displayed.

Level 2: Escalation

When the configured Escalation time interval has elapsed, notifications are sent to the Primary and Secondary respondent device(s) assigned to the Point of Care device. The notification displays the user configured patient label, the reason for the notification (example: SpO₂ Low) and updated clinical values. Additionally, the status *Escalation* is displayed.

Level 3: Re-Escalation

When the configured Re-Escalation time interval has elapsed, notifications are sent to the Primary, Secondary and Supervisory respondent device(s) assigned to the Point of Care device. The notification displays the user configured patient label, the reason for the notification (example: SpO₂ Low) and updated clinical values. Additionally, the status *Re-Escalation* is displayed.

Note: All Point of Care devices are automatically assigned to the default supervisory respondent device until they are admitted to the system.

Central Surveillance Mode

The Patient SafetyNet Central Surveillance Mode may consist of the following components and/or features:

- Patient SafetyNet Appliance/Switch/UPS
 - Support for up to 500 Point of Care (PoC) devices per Patient SafetyNet Appliance
- Patient SafetyNet View Station/Replica
 - Support for up to 100 Patient SafetyNet View Stations or Replica devices per appliance.
- Bedside wireless radio(s), Serial-to-Ethernet converter(s), or wired RJ45
- 802.11 (2.4 & 5 GHz) wireless or hard wired network

The image below is an example of the Patient SafetyNet Patient Centric Central Surveillance Mode user interface. For information about the details of the Main Screen, see **Understanding the System Main Screen** on page 21.

Note: SpfO₂ currently not available in the U.S.A. and territories relying on FDA market clearance.

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ADrev	v25836	62	-	AJones78451	70	20	DEdward78951	70		HTran80301	20	70		JHoward56498	100	77
	97 %SpO2	D3 PR bpm	5 PVi	98 %SpO2	PR bpm	30 _{PVi}	98 %SpO2	/3 PR bpm	33 PVi	%5	9 8 pO ₂ 1	/U PR bpm	33 PVi	87 %SpO₂	I UZ PR	37 PVi
JSam2	5325			LHand47398			MAllen79461			MChan45326				MHill74698		PSI Low
	98 %\$pOz	64 PR bpm	30 PVi	98 %\$pO2	74 PR bpm	32 PVi	98 %\$pO2	73 PR bpm	33 PVi	%5	98 p02	74 PR bpm	32 PVi	97 %\$pO2	63 PR bpm	5 PVi
MWal	ter74854			PStanley4512			PWhite45454			RLong20310				SSmith52836		
	98 %\$pOz	70 PR bpm	33 PVi	97 %\$p02	78 PR bpm	24 PVi	98 %SpO2	74 PR bpm	31 PV/	%5	98 _P O ₂	70 PR bpm	33 PVi	94 %\$p02	50 PR bpm	20 PVI
9010		Not Ai	dmitted	9011		Not Admitted	9012	Devic	Disconnected	9016		Device Discon	nected			
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	*	*				%SpO ₂	%SpfO ₂	PR	RR	SpHb	PVi	Pi	%SpM	et %SpCO	SpOC	MMM
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•	-		****	())) ()		- 15										Events
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		.	0				01/07		01/02			01/09		4.10.1	01/10	

The Patient SafetyNet View Station is capable of communicating with the Patient SafetyNet Appliance across the network; this Patient SafetyNet View Station allows access to the Patient SafetyNet Appliance by skilled clinicians for Admission, Discharge and Audible Alarms Notification.

The Patient SafetyNet Central Surveillance System is designed for medical facilities that operate using a central "war room" where someone is physically stationed at a Patient SafetyNet View at all times to manually alert the appropriate clinical staff for medical response when the system alarms.

The system can accommodate up to 50 Patient SafetyNet View Stations and up to 500 PoC devices.

When a point of care device is connected, but not entered into the user interface and an Alarm/Alert condition persists through the user defined re-escalation period, the point of care device Serial Number and Alarm/Alert condition will be present in the System Status bar.

Re-Escalation and Audible Alarms

The following is the Escalation protocol for Patient SafetyNet while in Central Surveillance mode.

Re-Escalation

When the configured *Re-Escalation* time interval has elapsed, the *Patient Window* border will remain red, and the background of the *Patient Window* will change to white, this is known as reverse video.



Device Disconnection

In the event that the Point of Care device becomes disconnected from Patient SafetyNet Supplemental Alarm System while in Central Surveillance mode, an alarm will sound at the Central Station. The parameter values for the Point of Care device will appear as dashes. In order to silence the alarm, press the



Login

To log into the system

- 1. On the Navigation bar, select the Login icon
- 2. Enter the user name and password.

Note: If LDAP is enabled on the system, login using your network login credentials and select a domain. Domains are assigned to the credentials by the network administrator. Contact your network administrator for any domain or network credential support.

Vser Login				X		
User Name: Password:						
Domain:	default domain 🗸 🗸					
	ОК	Cancel				

- 3. Select a Domain from the drop-down menu.
- 4. Select OK.

After a successful Login, the icons on the Navigation bar will become active based upon the user's assigned privileges. The devices in the selected Domain will be displayed on the Main Screen.

Note: Users must login to the Patient SafetyNet System in order to change any of the device settings or to make any assignment changes.

To log out of the system

See *Logout* on page 51.

Understanding the System Main Screen

During initial configuration, the Patient SafetyNet System Main Screen may be configured to display up to 40 patients or Point of Care devices. Additionally, the Main Screen may be configured to display real-time *Device* numeric data or *Device* icons.

About the System Status Bar

System Status Bar

The System Status bar provides system status notifications and lists the current domain. Both Numeric Views and Icon Views display the System Status Bar.

⊘ Mas	Patient SafetyNet			default domai	
	i		2	3]
The t	able below describe	s the areas of the System Status Bar.			
ltem	Description				
1	Right click to see S	oftware Version and Viewing Mode.			
2	Displays system lev Down: Paging Cons	vel warnings and generate audible tones. sole Link Down; communication failed; Al	. These include the following: Key Lock A Nert Reporter Link Down; and Link to All	uthentication Failu Devices/AP/Network	re, System Down; Server Down

3 Displays the available domain(s) when the application is opened. The devices and notification devices for the domain and sub-domains are shown in the user interface. Single or multiple domains can be selected depending on configuration. See **Domain Selection** on page 22.

Domain Selection

Single Domain

Select a domain from the Available Domains window drop-down menu, then select the Close button.

Multiple Domains

When multiple domain selection is enabled, multiple domains can be selected to view patient data. To select multiple domains, press and hold CTRL and select from the domains listed in the Available Domains window, then select the **Close** button.

About the Navigation Bar

The following are two primary types of viewing options through which the user can access additional screens and system options. The same Navigation Bar displays in both views.

Patient Numeric View

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Adeline			Berenice			egedg			Frederik			gergseg		
95	70	21	98	65	21	98	73	31	94	72	24	98	71	24
%SpO₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi
Gino			Gregg			Jamison			Keegan			Keira		
97	76	21	96	70	18	97	78	18	97	72	2	95	70	21
%SpO ₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi
Leila			Madelynn			Marguerite			Maximillia			Nathanael		
96	68	21	98	73	21	97	83	18	98	79	26	98	66	26
%SpO ₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi
Presley			Rafael			Remington			Stefan			Vanessa		
98	74	11	95	70	24	95	72	24	96	72	24	97	75	14
%SpO ₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi
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Patient Icon View

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Adeline	Berenice	egedg	Frederik	gergseg
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Gino	Gregg	Jamison	Keegan	Keira
5) €2				
Leila	Madelynn	Marguerite	Maximillia	Nathanael
			SD SD SD SD SD SD SD SD SD SD SD SD SD S	
Presley	Rafael	Remington	Stefan	Vanessa
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The Navigation bar contains various buttons that provide access to different functions in the system. Note that the buttons and their functions are determined by the viewing mode and user rights that are assigned at the time of setup.

The table below describes the buttons.

Button	Description
۶	Login - Login to the Patient SafetyNet System (displays when not logged in). See <i>Login</i> on page 21.
	Logout - Logout of the Patient SafetyNet System (displays when logged in). See <i>Logout</i> on page 51.
\$	Configuration - Access to the Configuration options. These include configuring domains, devices, Alarm Profiles, pagers, paging settings, Gateways Settings, location, system policy. See Configuration on page 71.
**	Users - Access to the User Management options. This includes the ability to add, modify and remove users and user roles. See User Management on page 89.
	Assignments - Access to the Assignments options. This includes the ability to assign monitoring devices to respondents. See <i>Modifying Assignments</i> on page 45.
<u>23.</u>	Viewer - The Viewer button toggles between the Patient Numeric and Patient Icon views of the Main Screen. See <i>Switching Between Numeric View and Device Icon View</i> on page 24.
÷	Admit* - The Admit button starts the admit patient wizard. See <i>Admit</i> on page 39.
L	Patient/Device* - The Patient/Device button toggles between patient-centric and device-centric views of the Main Screen. See Switching Between Numeric View and Device Icon View on page 24.

* Displays on the navigation bar only when Patient SafetyNet is in Patient Centric Mode.

About the Patient/Device Button

The Patient/Device Button allows the user to switch between displaying patients who have been admitted to the system, or Patient Centric view, and devices on the system's domain, or Device Centric view.

Note: Devices on the system that do not have a patient admitted to them will still appear in Patient Centric view.

Switching Between Numeric View and Device Icon View

The following are the primary viewing options for the Main Screen.

Device Centric Mode

To toggle between the Numeric View and Icon View, select the Viewer button.

Numeric View

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96	76	36	98	76	35	9 4	73	35	95	76	35	96	73	35
%5pO ₂	PR bpm	PVi	%5pO ₂	PR bpm	PVi	%5pO ₂	PR bpm	PVi	%5pO ₂	PR bpm	PVi	%5pO2	PR bpm	PVi
Janison			Kergan			Keira			Leila			Madalynn		
95	77	35	96	77	35	92	77	35	95	77	35	97	77	34
%5pO ₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi
Marguerite			Maximillia			Nathanael			Presley			Rafael		
91	70	34	94	75	34	95	77	35	89	70	34	95	72	34
%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%5pO ₂	PR bpm	PVi	%5pO ₂	PR bpm	PVi
Remington			Stefan			Sydney			Vanessa			Zola		
90	78	35	96	68	36	96	71	33	95	68	34	90	78	32
%5pO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%5pO2	PR bpm	PVi	%5pO ₂	PR bpm	PVi
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					Logout	Configuration	Users Assignmen	fa .					lewer	

Icon View



Patient Centric Mode

Patient Numeric/Icon View

To toggle between the Patient Numeric View and Patient Icon View, select the Viewer and Patient/Device buttons.

Patient Numeric View

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Adeline			Berenice		•	rederik			Gine			Gregg				
96	76	36	98	76	35	94	73	35	95	76	35	96	73	35		
%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%5pO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi		
Janison			Keegan			Ceira			Leila			Madelynn				
95	77	35	96	77	35	92	77	35	95	77	35	97	77	34		
%5pO ₂	PR bpm	PVi	%5pO₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%5pO ₂	PR bpm	PVi		
Marguerite			Maximillia			fathanael			Presley			Rafael				
91	70	34	94	75	34	95	77	35	89	70	34	95	72	34		
%SpO₂	PR bpm	PVi	%5pO₂	PR bpm	PVi	%5pO₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%5pO ₂	PR bpm	PVi		
Renington			Stefan		5	lydney			Vanessa			Zola				
90	78	35	96	68	36	96	71	33	95	68	34	90	78	32		
%5pO₂	PR bpm	PVi	%5pO ₂	PR bpm	PVi	%5pO2	PR bpm	PVi	%SpO₂	PR bpm	PVi	%5pO2	PR bpm	PVi	123	
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Patient Icon View

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Adeline	Berenice	egedg	Frederik	gergseg	
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Gino	Gregg SpCO Low	Jamison	Keegan	Keira	
Leila	Madelynn	Marguerite	Maximillia	Nathanael	
Presley	Rafael	Remington	Stefan	Vanessa	
					<u>23.</u>
	Loov	Configuration Evers Admit Assignments		A Patentityvice 10:31:50 _{AM}	

Device Numeric/Device Icon View

To toggle between the Device Numeric View and Device Icon View, select the **Viewer** and **Patient/Device** buttons.

Device Numeric View

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\$300		1	9001			9002			9003			3004				
91	74	24	96	71	24	98	72	24	95	70	21	94	71	4		
%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi		
1005			9006			9007			9008			9009				
93	74	24	93	71	26	92	71	26	96	73	24	95	83	15		
%SpO ₂	PR bpm	PVi	%5pO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO₂	PR bpm	PVi		
8010			9011			5012			9013			3014				
97	72	21	98	71	24	98	72	24	98	73	9	92	73	26		
%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%SpO₂	PR bpm	PVi		
015			9016			5017			9018			9019				
98	73	24	92	71	26	98	72	10	96	70	26	98	73	33		2/
%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO₂	PR bpm	PVi	%5pO₂	PR bpm	PVi	7123	/E
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• Device Icon View

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9000	9001	9002	9003	9004	
9005	9006	9007	9008	9009	
9010	9011	9012	9013	9014	
9015	9016	9017	9018	9019	
					• <u>/</u> 23.
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Patient Window - Numeric View

The user can view the details of a particular patient from the Numeric View or Detail View of the Main Screen. After successful admission to the system and sensor attachment to the patient, and there are no Alarm/Alert conditions, the cell's border color changes to green. In the example below, from the Numeric View of the Main Screen, one Patient Window is highlighted on the Numeric View screen. The Patient Windows on the screen can be rearranged. See *Rearrange Patient Windows* on page 31.

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AUrew25836 94 %SpO2	50 PR bpm	21 _{PVi}	Alone:78451 98 %5pO ₂	58 PR bpm	7 _{PVi}	98 %5pO2	74 PR bpm	7 PVi	98 %5pO ₂	58 PR bpm	7 _{PVi}	97 %5pO ₂	75 PR bpm	34 ™
98 %5pO2	77 PR bpm	7 PVi	LH3nd47338 98 %5pO ₂	89 PR bpm	7 PVi	MAIlen73461 98 %SpO2	88 PR bpm	7 PVi	MCheer43325 98 %5pO ₂	89 PR bpm	7 _{PVi}	94 %5pO ₂	50 PR bpm	21 _{PVi}
MWalter74854 98 %5pO2	57 PR bpm	7 PVi	PStanlay4512 93 %SpO ₂	71 PR bpm	28 _{PVi}	90001245454 98 %5pO2	89 PR bpm	7 PVi	RLong20310 98 %SpO ₂	62 PR bpm	7 PVi	55mith52836 97 %5pO ₂	50 PR bpm	5 _{PVi}
5010 98 %5pO2	84 PR bpm	Not Admitted 7 PVi	98 %5pO2	73 PR bpm	vot Admitted 7 PVi	Radi¥71SA	Device I	Disconnected	Root	Device C	lisconnected			
					A	۰	*					L.	2:	15:41 _{PM}

When a user selects a Patient Window, the system displays the Patient Window in Detail View. More information about Detail View, see **Detail View Screens** on page 32.

€Masimo Patie	nt SafetyN	let										d	efault don	nain 💌
ADrew25836 97	51	5	AJones78451 93	92	39	DEdward78951 93	84	38	HTran80301 92	89	39	JHoward56498 87	102	37
%SpO ₂	PR bpm	PVi	%SpO2	PR bpm	PVi	%SpO ₂	PR bpm	PVi	%SpO ₂	PR bpm	PV	%SpO ₂	PR	PV
JSam25325 93	91	39	LHand47398 93	91	39	MAllen79461 93	94	39	MChan45326	92	39	MINI 74000	ostic	e o nevimenco
74 SPU2	PK opm	PVI	765pO2	РК орт	PVI	PM/siteAEAEA	РК Орт	PVI	763pO2	PK Dpm	PVI	SEmishE3826		
92 %SpO2	91 PR bpm	39 PV/	95 %\$pO ₂	65 PR bpm	36	94 %SpO ₂	88 PR bpm	39 PVI	94 %5pO2	89 PR bpm	39 PVI	93 %SpO2	50 PR bpm	25 PV
9010	Not Adı	nitted	9011		Not Admitted	9012	Device	Disconnected						
92 %SpO2	90 PR bpm	39 ⊮vi	93 %\$pO2	84 PR bpm	38 PVi									
JHoward56	498 Howard, Joł	n Roc	ım: 222a 9014											MONITOR
					%SpO ₂	%SpfO ₂	PR	RR	SpHb	PVi Pi	%SpN	Aet %SpCO	SpOC	ww
87 ^{-/,}	102 "#	1	1 ^{**} 16.	9‴,	Jan 10,2019 3 	:22:18 PM				Hour 💬	_		neL	10,2019 4:22:18 PM
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%SpC0 %	SpOC mWI				→ ⁻⁷⁵									
V VY	\sim	\sim	$\sqrt{\gamma}$	\mathcal{N}	-60									
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Note: SpfO₂ currently not available in the U.S.A. and territories relying on FDA market clearance.

Waveforms

Optional pleth and acoustic waveforms can be enabled and viewed in the patient window when 10, 20 or 25 Patient Numeric Windows are set to display on the view station.

Patient Numeric Window Details (Pulse Ox)

The following lists the elements of a Point of Care (POC) device Patient Window in Patient Numeric View.



* When enabled, waveforms are only visible when 30 or less Patient Numeric Windows are set to display on the view station.

Standby

When a compatible device in standby, the Patient Window displays Standby Mode in the upper right

Patient Window Border



The border color of the Patient Window display one of several colors:

- Green: Successful admission and connection with device.
- Yellow: Successful connection to the device. This would include statuses, notifications, modifiers, notification devices not assigned to patient, or patients that have not been successfully admitted to the system.
- Red: Device alarming (shown in the example).
- Gray: Disconnected device.

If the system triggers an alarm, the border of the Patient Window turns red (Device Numeric View is shown in the example). Also, the alarming parameter and numeric values turn red. A message appears on the top right corner of the window that conveys the nature of the alarm (PVi High in this example).

Audible Alarm Duration



When an audible alarm sounds for the patient, the Patient Window timer displays the length (in seconds) that the alarm continuously sounds. After the timer reaches 59:59, the timer then displays >1 Hr until the alarm is silenced or is no longer present.

- An alarm can be silenced from Patient SafetyNet or directly at the device. When silenced, the timer resets to zero.
- When the alarm is silenced or is no longer present, then sounds again, the timer resets and starts counting again from zero.
- If, while one alarm is sounding, another alarm sounds, and then the initial alarm is no longer present, the timer continues to counts until any and all audible alarms are either silenced or no longer present.

Main Screen Information - Device Icon View

The user can view the details of a particular patient. After successful admission to the system and sensor attachment to the patient, if there are no Alarm/Alert conditions, the display screen of the icon and cell's border changes to green. In the example below, from the Device View of the Main Screen, one Patient Window is highlighted. The Patient Windows on the screen can be rearranged. See *Rearrange Patient Windows* on page 31.



When a user selects a Patient Window, the system displays the Patient Window in Detail View. Note that the device icons do not display when in Detail View. More information about Detail View, see **Detail View Screens** on page 32.

MASMO Patient SafetyNet										de	fault dor	main 🔽
ADrew25836	AJones78451			DEdward 78951			HTran8	0301		JHowardS6498		
JSam25325	LHand47398			MAllen79461			MChan4	15326		PSI Low		
MWalter74854	PStanley4512			PWhite45454			RLong2	0310		55	5mith52836	
9010 Not Admitted	9011 Not Admitted		Device	9012 e Disconnec	ted	C	901 Device Disco	5 nnected				
JHoward56498 Howard, John Ros	om: 222a 9014											MONITOR
87 ^{-/,} 102 ^{16,4} 99 ^{-/,4} 7 ^{-/,5} 2.2 5500,5 -/,4 1 ^{-/,4} 1 ^{-/,5} 1 ^{-/,4} 1 ^{-/,4} 1 ^{-/,4} 1 ^{-/,5} 1 ^{-/,4} 1 ^{-/,4} 1 ^{-/,4} 1 ^{-/,5} 1 ^{-/,4} 1 ^{-/,4} 1 ⁻	1 ^{31/} 16.9 ^{1//} ; sen to the set 1 ⁻¹ 1 ^{'/-} N State(S)	% SpO2 Jan 10,2013 -135 -120 -105 -120 -105 -120 -105 -105 -105 -105 -105 -105 -105 -105 -105 -10 15 1 1	22:18 PM	PR	RR Josef M J J Johnson	SpHb	PV1 1Hour ③		%SpMet	%SpCO	5pOC 35**	
Axsignments Edit	Discharge											

Note: SpfO₂ currently not available in the U.S.A. and territories relying on FDA market clearance.

Waveforms

Optional pleth and acoustic waveforms can be enabled and viewed in the patient window when 10, 20 or 25 *Patient Device Windows* are set to display on the view station.

Patient Device Window Details

The following lists the elements of a Point of Care device Patient Window in Device View. Device icons do not display when in Detail View.



- 1. Label
- 2. Device Icon
- 3. Window border color

Standby

When a compatible device in standby, the Patient Window displays Standby Mode in the upper right

Patient Device Window Border



The border color of the Patient Windows display one of several colors:

- Green: Successful admission and connection with device.
- Yellow: Successful connection to the device. This would include statuses, notifications, modifiers, notification devices not assigned to patient, or patients that have not been successfully admitted to the system.
- Red: Device alarming (shown in the example).
- Gray: Disconnected device

If the system triggers an alarm, the border of the Patient Window turns red. Also, the image of the device turns red. A message appears in the window that conveys the nature of the alarm (PVi High is shown in this example). Device icons do not display when in Detail View, only the label, window border and message.

Audible Alarm Duration



When an audible alarm sounds for the patient, the Patient Window timer displays the length (in seconds) that the alarm continuously sounds. After the timer reaches 59:59, the timer then displays >1 Hr until the alarm is silenced or is no longer present.

- An alarm can be silenced from Patient SafetyNet or directly at the device. When silenced, the timer resets to zero.
- When the alarm is silenced or is no longer present, then sounds again, the timer resets and starts counting again from zero.
- If, while one alarm is sounding, another alarm sounds, and then the initial alarm is no longer present, the timer continues to counts until any and all audible alarms are either silenced or no longer present.

Centroid View

Patient Numeric Window Details

The following lists the elements of a numeric Patient Window with Centroid Arc (Patient Position) configured.



- 1. Label
- 2. Turn Due Countdown
- 3. Patient Current Position
- 4. Monitoring Mode and Time in Position Color Chart
- 5. Current Position Timer
- 6. Head of Bed Angle

Patient Device Window Details

The following lists the elements of a Point of Care (POC) device Patient Window with Centroid Arc (Patient Position) configured.



1. Label

- 2. Turn Due Countdown
- 3. Patient Current Position
- 4. Monitoring Mode and Time in Position Color Chart
- 5. Point of Care (POC) Device

Rearrange Patient Windows

Patient Windows can be moved (dragged and dropped) to new locations within the screen to arrange in a desired order. **Note:** Patient Windows **CANNOT** be rearranged in when in *Detail View*.

Note: Changes made are domain specific. Patient Windows rearranged in one domain do not apply to other domains. See **Domains** on page 71. To move a Patient Window to another location on the screen, perform the following steps:

1. Select and hold on the Patient Window to be moved. The window background changes color as shown.

D\$mith1098			PJones2569		
94	50	20	98	68	24
%SpO₂	PR	PVi	%5pO2	PR	PVi

2. While holding, drag the selected Patient Window to the Patient Window where it is to be placed after. The background of the Patient Window where it is to be placed changes color as shown.



3. Release the selected Patient Window to place in its new location.

PJones2569			DSmith 1098		
97	72	28	93	50	25
%SpO ₂	PR	PVi	% SpO ₂	PR	PVi

Detail View Screens

The Detail View screen is enabled after selecting a patient or device from the Main Screen. This view displays all of the installed parameters and up to two (2) waveforms from the bedside device, the Trend Window panel provides the ability to Suspend Alarms, Change Alarm Limits, Manage Assignments, and Discharge. Additional fields can be added to the detail screen as well. See **Modify System Settings** on page 86.

Device Centric Mode



Item	Description
1	Parameter Well
2	Trend Window
3	Device Tab
A	

Masimo Corporation

Patient Centric Mode

97 %SpO2	63 PR bpm	5 PVi	ones78451 98 % Sp O ₂	70 PR bpm	30 _{PVi}	DEdward 78951 98 % Sp O ₂	73 PR bpm	33 ₽Vi	HTran80301 98 %SpO2	70 PR bpm	33 PVi	ward56498 87 %SpO2	102 PR	3
am25325 98 %SpO2	64 PR bpm	30 ₽Vi	and47398 98 % Sp O ₂	74 PR bpm	32 ⊮vi	MAllen 79461 98 % \$pO2	73 PR bpm	33 ₽Vi	MChan45326 98 %SpO ₂	74 PR bpm	32 ₽Vi	11174698 97 % SpO ₂	63 PR bpm	P\$I Low
Walter74854 98 %SpO ₂	70 PR bpm	33 PVi	tanley4512 97 %SpO ₂	78 PR bpm	24 PVi	PWhite45454 98 % SpO ₂	74 PR bpm	31 ⊮vi	RLong20310 98 %SpO ₂	70 PR bpm	33 PVi	nith52836 94 % SpO2	50 PR bpm	2
910 98 %\$pO2	Not Adm 73 PR bpm	1itted 90 33 PVi	11 98 %SpO2	74 PR bpm	t Admitted 32 PVi	9012	Device Di	sconnected	9016	Device Disc	onnected			
JHoward5	3498 Howard, Joh	n Room:	222a 9014										ROOT	VENTILATO
Discharge	Edit Assig	mments Ar	sign Instruments	Video	%SpO ₂	%SpfO ₂	PR	RR	SpHb PVi	Pi	%SpMet	%SpCO	SpOC	WWW
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Item	Description
1	Parameter Well
2	Trend Window
3	Device Tab

Detail View Screen Buttons

The buttons displayed on the Detail View screen allow functions to be access directly, while viewing patient data.

Button	Description
÷	Admit [*] , ** - The Admit button starts the admit patient wizard. See <i>Admit</i> on page 39.
•0	Discharge*, ** - Discharge patient from system. See <i>Discharge</i> on page 44.
×	Edit* - Edit admitted patient's information. See <i>Edit Patient Information</i> on page 44.
	Assignments*, ** - Manage the patients' notification Assignments. See <i>Modifying Assignments</i> on page 45.
	Suspend - Suspend an active alarm on the PoC Device. See Suspending Alarms on page 44.

Button	Description
40	Alarm Limits - Change Alarm Limits. See Adjusting Alarm Limits on page 46.
	Acoustic - Listen to patient's breath (RRa parameter is required on the Point of Care device). See Acoustic Audio Playback on page 46.
	Assign Instruments [*] , *** - Add or Remove a point of care device to the admitted patient. See Assign Instruments on page 46.
	Video*** - Initiates audio/video communication with a compatible device. See <i>Audio/Video Communication</i> on page 47.

* Disabled when in Patient Centric Mode - Device View.

** Disabled when in Spot Check Mode.

*** Displays in the Detail View only when Patient SafetyNet is in Patient Centric Mode.

Parameter Well

Some devices connected to Patient SafetyNet have the ability to display more parameters than can display in the *Parameter Well*. When these additional parameters are recognized by Patient SafetyNet, the ability to view them through scrolling. Alarm and alert messages display at the top of the *Parameter Well* Window. See *Suspending Alarms* on page 44 for additional information.

A scroll bar appears on the side of the Parameter Well, allowing up/down scrolling to view all available parameters.

Note: With Centroid connected, the *Turn Due Countdown* displays at the top of this window.



Additional Device Information

When a Masimo compatible pump is connected to the patient and Patient SafetyNet, the following information may also display in the parameter well:

- Medication name.
- Rack location of the pump (in descending order).
- Column location of the pump.
PulseOx/Centroid Tabs

PulseOx - Selecting this tab displays waveforms similar to Live Waveforms and Historical Waveform Review on page 38.



Centroid - Selecting this tab displays patient position monitoring information.



Trend Window

Patient SafetyNet displays up to 96 hours of trended information for each monitored parameter. The trends will provide live updates as the data is being collected when an interval is selected. By using the mouse, or touching the screen on a touch screen monitor, users can select specific areas of the trend to focus in on. To exit an area of focus, select a new time interval from drop down menu.

Note: The Trend Graph updates automatically every 2 minutes.

View Trend

1. Select the desired patient or point of care device from the *Main Screen*.

Note: By default, all trend information will be displayed.

- 2. Click on the desired parameter in the *Parameter Options* area above the *Trend Window*.
- 3. The parameter trend appears in the *Trend Window* of the *Detail View*. **Note:** When a device is disconnected, the trend continues to display.



View Additional Parameters

Some devices connected to Patient SafetyNet have the ability to display more parameters than can display in the *Trend Window*. When these additional parameters are recognized by Patient SafetyNet, the ability to view them through swiping enables automatically. Swipe left or right on the parameters at the top of the *Trend Window* to view all available parameters. Select the desired parameters to view within the *Trend Window*.



View Trend Details

By placing the mouse, or touching within the *Trend Window* (when using a touch screen monitor), detailed trend information appears in a pop-up box (Pulse-Ox shown).

%SpO ₂	92.0
%SpfO ₂	99.0
PR	91.0
RRa	8.0
SpHb	13.2
%SpCO	1.0
- %SpMet	1.0
PVi	35.0
Pi	0.72
SpOC	1.0

Change Trend Interval

Trend information can be viewed at intervals of 10 or 30 minutes, 1, 6, 24 or 96 hours.

To change the interval, select the current interval (displayed at the top of the *Trend Window*, below the parameters) and select the desired interval from the available options.



Device Tab

The device tab icon corresponds to the device(s) currently assigned to the patient (assigned during the admit process). See *Admit* on page 39. The color of the device tab icon displays the device status and changes color with any active alarms (Root shown in the example below).



In Patient Centric Mode, multiple devices can be assigned to a single patient and are shown on separate tabs.



Live Waveforms and Historical Waveform Review

In addition to viewing live waveforms in the Patient Window (see **Patient Window - Numeric View** on page 27 and **Main Screen Information - Device Icon View** on page 29) and Parameter Well (see **Parameter Well** on page 34), a detailed view of live waveforms can be displayed in the Trend Window by selecting the waveform tab. Live waveforms available include Pleth, SIQ, Capnography, and acoustic RRa (when option is installed on device). Up to 96 hours of collected waveforms are available to view.



Video Window

Calls can be placed between the Patient SafetyNet View Station and a Masimo device equipped with audio/video communication functionality. During the call, the Video Window appears in the *Detail View* of Patient SafetyNet between the *Parameter Well* and the *Trend Window*.

Note: Audio/video communication is ONLY available when Patient SafetyNet is in Patient Centric Mode and a Masimo device equipped with audio/video communication functionality is connected. For complete information on Video Conferencing, see *Audio/Video Communication* on page 47.



Vital Signs Check Mode

When a device is in Vital Signs Check mode, the *Main Screen* indicates that the device is currently in Vital Signs Check Mode. Refer to the Operator's Manual for the Masimo POC device for information on Vital Signs Check mode.



When in Vital Signs Check mode, Patient SafetyNet does not allow admitting of patients or assignments to be added (the Admit and Assignment options are disabled).



Monitoring Patients

Admit

When admitting patients to the Patient SafetyNet System, users enter patient information, as well as set, and approve alarms, assign instrument(s) and assign respondent devices to provide notifications to clinicians.

Note: The Patient SafetyNet System supports patient admission from other Masimo devices connected to the system, such as the Root device (please see the **Operator's Manual for Root** for more information). Patient admission from devices is a configurable feature and the system administrator can enable this feature from the Patient SafetyNet View Station.

Patient information may be entered manually or imported from a connected Electronic Medical Record (EMR) System (when this feature is available).

Import Patient Information from an EMR

- 1. Select on the bottom of the *Main* View screen.
- 2. Select Import
- 3. Select name of patient from the imported list or begin typing the name of the patient in the *Search* field. A list of patients with that name will appear.
- 4. Select the patient, and then select *Apply*.
- 5. The label will be automatically created. If necessary the user can modify the label.
- Click the Next button and go to Assign Instrument(s) to a Patient.
 Note: For more information refer to HL7 Interface (Inbound) on page 69.

Enter Patient Information Manually

- 1. Select the Admit icon
 - In Device Centric Mode, the Admit icon is at the bottom of the device *Detail View* screen.
 - In Patient Centric Mode, the Admit icon is at the bottom of the *Main View* screen.
- 2. Select the *Label* field and enter a label.

Note: The label is a required field to admit a patient.



- 3. Press the *Tab* key or select in the *First* field and enter the first name.
- 4. Press the Tab key or select in the Last field and enter the last name.
- 5. Press the *Tab* key or select in the *M.I.* field and enter the middle initial.
- 6. Press the *Tab* key or select in the *Room Number* field and enter the room number.
- 7. Press the Tab key or select in the Date of Birth field and select the date of birth.
- 8. Press the *Tab* key or select in the *Medical Record Number* field and enter the medical record number.
- 9. Press the *Tab* key or select in the *Patient Identifier* field and enter the patient identifier.
- 10. If in Patient Centric Mode, click the "Next" button.

Assign Instrument(s) to a Patient (Patient Centric Mode ONLY)

Note: In Device Centric Mode, the patient is admitted to the device and this option is not available. In Patient Centric Mode, up to 6 devices can be assigned to a single patient.

- 1. Once the Patient Information has been entered (or imported from EMR), click Next to proceed to the Instrument Selection screen.
- 2. Select from the list of available instruments (devices) by clicking the device image.

Note: When selected, the device displays a green border around the image.

Note: Additional devices (up to 6 total) can be assigned after admitting the patient. See Assign Instruments on page 46.

Note: 3rd party devices connected through Root Iris ports will not show in the device selection.

Note: When selecting Root device, all devices connected to the Patient SafetyNet system through Root Iris ports will be automatically assigned to the patient.



3. Click the "Next" button.

Assign Alarm Profile/Limits to a Patient

1. Adjust the high and low limits as needed by manually entering the desired values, or select a pre-configured alarm profile. See *Alarm Profiles* on page 42.

‡ 🔔 Alarm	Value
Adult (default)	~
ORi Low	
SpO₂ High	
SpO₂ Low	88
PR High	140
PR Low	50
Pi High	
Pi Low	0.3
SpCO High	10
SpCO Low	
SpMet High	3
SpMet Low	
SpHb High	17
SpHb Low	7
PVi High	40
PVi Low	5
SpOC High	25
A	pprove

- 2. Click the "Approve" button when finished.
- 3. If in Patient Centric Mode, click the "Next" button.

Assign a Respondent to a Patient

From list of available respondents, select and assign at least 1 primary respondent to the patient.

Note: A secondary respondent can be set as a mandatory requirement when admitting. See Assignments on page 43.

I					-x
	Manage Assignments				÷ 🌲
	S Assignme	nts			
	default domain				-
	Prima	ry		Secondary	/
	default supervise Respondent7	or	default s Respon	supervisor dent7	
	Respondent3		Respon	dent3	
	Respondent1		Respon	dent1	
	Respondent5		Respon	dent5	
	Respondent2 Respondent4		Respon	dent2 dent4	
	· ·				
		Back	Next	Admit	Cancel

Finalizing the Admit Procedure

Upon completion of the previous steps, click the Admit button to admit the patient, and complete the Admit process.

After successful admission to Patient SafetyNet and sensor attachment to the patient:

- In the Numeric View, the cell's border color will change to green, if there are no Alarm/Alert conditions. See **Patient Window Numeric View** on page 27.
- In the Device Icon View, the display screen of the icon and cell's border will change to green, if there are no Alarm/Alert conditions. See *Main Screen Information Device Icon View* on page 29.

Alarm Profiles

An alarm profile is a pre-configured set of alarm limits for all parameters that can be applied to a point of care device in lieu of manually setting limits for each individual parameter. An alarm profile can be used to ensure that a pre-determined set of alarm limits are applied to the device. Up to eleven (11) profiles can be configured for each domain - three (3) default and eight (8) custom. Alarm profiles are identified by both a name and a color. An alarm profile can either be applied to the device during the process of admitting a patient, or any other time a device is connected to Patient SafetyNet.

Set and Approve Alarms

- 1. Alarm values appear from the settings in the device. To adjust Alarm Limits, select in the value column for the desired parameter and type a new value.
- 2. If Alarm profiles are pre-configured, then select the desired alarm profile using the pull-down selector at the top of the alarm panel.
- Select the Approve button to confirm the existing alarm settings or any changes that have been made. Once the Approve button is selected, it
 will become deactivated. If alarm settings are changed after the Approve button has been selected, the button will again become active and
 you will be required to approve the new alarm settings before completing the Admit process.

Note: For additional information about alarms, see *Alarm Profile Configuration* on page 76.

Assignments

Note: The Assignments section can only be used in Clinician Paging/Notification Mode.

Changing Assignments

The Patient SafetyNet System is able to assign Primary and Secondary Respondent devices to patients. For information regarding the Alarm Escalation Protocol, see **Notification and Escalation Protocol** on page 18. A respondent is a user that is notified of alarms or alerts thought one of the following methods:

- Pager
- IP phone
- Mobile device

Upon initial connection to the Patient SafetyNet System, patients are automatically assigned a Supervisory Respondent. The Supervisory Respondents devices are configured at the time of installation. Primary and Secondary Respondent assignments are made during the patient Admit process. Changes to Assignments may be made to a specific patient or by accessing the list of patients assigned to a specific respondent.

For a specific patient, to make changes to Respondent Device Assignments:

- 1. Go to the *Detail View* screen for a patient.
- 2. Select the Assignments icon to see the assigned respondents. The Primary respondent assigned to a patient are highlighted in the *Primary Respondent* list. The Secondary respondent assigned to a patient are highlighted in the Secondary Respondent list.
- 3. Highlight or remove the highlight for the desired Primary and Secondary Respondent and click the Assign icon 🖾 to apply the changes.

Assign Respondents

Primary and Secondary Respondent assignments are made during the patient Admit process. See *Admit* on page 39. To assign additional respondent devices to a patient, not assigned during the Admit process, perform the following:

1. From the patient *Detail View*, select the *Assignments* icon





- 3. Click the Assign icon is to apply the respondents.
- 4. Click the back arrow to exit.

Note: The respondent list may be further filtered by selecting a Domain in the drop-down list.

Note: To remove an assignment, select the highlighted respondent a second time to de-select (un-highlight) and unassign.

Remove Assignments

To remove an assignment from a Respondent from either list, click the highlighted Respondent to de-select

Note: To further filter the respondent device list:

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- 1. Click on a lower level domain in the list located above the primary or secondary list.
- 2. Remove the highlight (de-select) the desired Primary or Secondary Respondent.
- 3. Click the Assign icon 🖾 to apply the changes.
- 4. Click the back arrow.

Suspending Alarms

When an Alarm Limit is exceeded, or a non-clinical alarm triggers on the point of care device, the border status for the patient or device turns red and

when in patient detail view, the Alarm icon displays 🦊

When the alarm is suspended on either the point of care device or Patient SafetyNet, icon displays on the detail view to indicate the alarm is temporarily silenced. The suspend time is based upon the Alarm Silence setting on the device. Refer to the Operator's Manual for the device to set the Alarm Silence duration. Notifications to Pagers will not be sent while an alarm is suspended, the notification will stop and the alarm state will reset.

To suspend an alarm condition:

- 1. Click the alarming patient or device from any of the Main Screens.
- 2. Click the *Suspend* icon to temporarily silence active patient alarms.

Discharge

When it is no longer necessary to monitor the patient, a discharge procedure must be performed to remove the patient from the Respondent Assignment and the instrument (device). The device Detail View of the Patient Name and Room Number is cleared, and the default Alarm Profile assigned to the domain the device is in, is sent to the device.

To discharge a patient

- 1. Select a patient from the Main Screen.
- 2. Select the *Discharge* icon
- 3. Select Yes to confirm the discharge of the patient from the Instrument.

Edit Patient Information

All information for an admitted patient, with the exception of the patient label, can be modified.

- 1. To edit the patients information, select the desired patient from the Main Screen.
- 2. From the patient *Detail View*, select the *Edit* icon
- 3. Make the desired changes.
- 4. Select OK to save changes and close the window.

Modifying Assignments

Make changes to Assignments by accessing the list of patients assigned to a Device

- 1. From the Navigation bar, select the Assignments icon
- 2. Select the respondent device from the *Respondent* list. The Primary patients assigned to the Respondent are highlighted in the *Primary Patient Assignments* list. Secondary patients assigned are highlighted in the *Secondary Patient Assignments* list.

Respondent/Domain	
Re default domain Floor 1 Floor 2 nurse1 default supervisor	rspondent
Primary Patient Assignments Domain: default domain • ADrew25836 Andrew Drew • AJones78451 Adam Jones • DEdward78951 Dirk Edward • DThomas23454 Dave Thomas • HTran80301 Hang Tran • JHoward56498 John Howard JSam25325 John Sam LHandf7398 Larry Hand • MAllen79461 Michael Allen • Mchan45326 Michelle Chan • MHWalter74854 Mark Walter •	Secondary Patient Assignments Domain: default domain • ADrew/25836 Andrew Drew AJones78451 Adam Jones DEdward/8951 Dirk Edward DThomas23454 Dave Thomas HTran80301 Hang Tran JBam25325 John Nam LHand47398 Lary Hand MAllen79461 Michael Allen MHII/1698 Mark Walter

- 3. To assign a patient to the Respondent as a Primary, select to highlight the patient(s) from the Primary Patient Assignments list.
- 4. To assign a patient to the Respondent as a Secondary, select to highlight the patient(s) from the Secondary Patient Assignments list.
- 5. To remove an Assignment from either list, select the highlighted Respondent(s) to de-select.
- 6. Click the *Assign* icon icon to apply the changes.
- 7. Select Close.

Adjusting Alarm Limits

Set or confirm the Alarm Limits each time the device is used. The Alarm Limits can be set on either the device or the Patient SafetyNet System. To adjust the Alarm Limits in the device, refer to the Operator's Manual for the device.

To adjust the Alarm Limits in the Patient SafetyNet System

- 1. Select the desired device or patient from any of the Main Screens.
- 2. From the patient *Detail View*, select the *Alarm Limits* icon
- 3. To adjust the Alarm Limits, click in the value column for the desired parameter and type in a new value.
- 4. If Alarm profiles are pre-configured, then select the desired alarm profile using the pull-down selector at the top of the alarm panel. See *Alarm Profiles* on page 42.

Alarm Limits	NC.		x
‡🔔 Alarr		Value	
Adult (defau	lt)		-
ORi Low			_
SpO₂ High			
SpO ₂ Low		88	
PR High		140	
PR Low		50	
Pi High			
Pi Low		0.3	-
SpCO High		10	
SpCO Low			
SpMet High		3	
SpMet Low			
SpHb High		17	
SpHb Low		7	
PVi High		40	
PVi Low		5	
SpOC High		25	
		40	
	Apply	Close	

5. Click Apply to set the new Alarm Limits/Alarm Profile.

Acoustic Audio Playback

Acoustic Audio Playback allows the user, from the Patient SafetyNet View Station, to listen to the breath sounds of a patients being monitored with Masimo Acoustic Respiratory Rate (RRa) sensors.

To suspend the Acoustic Audio Playback playback, select the Acoustic icon 4. When Acoustic Audio Playback is suspended, the Acoustic icon changes to Red

Assign Instruments

* This options only applies when in Patient Centric Mode.

When in Patient Centric Mode, after admitting a patient, additional instruments can be assigned to or removed from the patient.

Note: When in Device Centric Mode, only one device can be assigned to the patient.

- 1. Select the desired patient from the Main Screen.
- 2. From the patient *Detail View*, select the *Assign Instruments* icon
- 3. From the *Instrument Selection* screen:

- Select the instrument(s) to assign to the patient.
- Deselect the instrument(s) to remove from the patient.
- 4. Select Next.
- 5. Select the Alarm Profile and adjust the alarm limits as needed.
- 6. When complete, select *Approve* to approve the *Alarm Limits*.
- 7. Select *Apply* to save the changes.
- 8. If instruments such as a pump or ventilator are added, new tabs appear in the patient *Detail View*. Select the tab to view information for that instrument.



Audio/Video Communication

Audio/video communication is ONLY available when Patient SafetyNet is in Patient Centric Mode. See Detail View Screens on page 32.

Two-way audio/video communication is ONLY available when a POC device connected to Patient SafetyNet is equipped with audio/video capabilities. For the Patient SafetyNet view station to communicate with a device, the video conference icon must be present for the device. For operation of the device audio/video communication, refer to the POC device Operator's Manual.



A call can be placed from either the Patient SafetyNet View Station or a POC device. When a call is accepted on either, the Video Window appears in the Detail View of Patient SafetyNet. Video is also displayed on the POC device. Two-way communication is then possible via the cameras and microphones on both the View Station and the POC device.



Controls

Patient SafetyNet View Station controls related to video conferencing are as follows:

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Control	Description						
	Press/select the Video button*:						
	Place a call to a device.Accept a call from a device when in Detail View.						
	Press/select the green Call icon to:						
	Accept a call from a device.						
	Press/select the red Call icon to:						
	• End a call with a device.						

* The Video button is located on the Detail View screen ONLY for devices with Audio/Video Conferencing capabilities.

During the call, the Video Window on the view station can be minimized or expanded by selecting the arrow at the right of the Video Window.



Initiate Call from Patient SafetyNet



Calls from Patient SafetyNet are initiated from the Patient SafetyNet View Station by selecting the Video button while in **Detail View Screens** on page 32.

- 1. Select the POC device to open the *Detail View*.
- 2. Select the *Video* button to initiate a call with the device.

3. The Video Window opens between the parameter numeric and trend displays and indicates a call is currently being placed.



4. When the call is received and accepted by the POC device, the video window displays the POC device and Patient SafetyNet View Station video feeds in separate areas within the video window. Audio and video communication is now possible between the POC device and the Patient SafetyNet View Station.

Note: During the call, the Video button turns blue.



- If the call is rejected by the device, *Video feed terminated...* displays in the *Video Window*. Select the red Call icon to close the *Video Window*.
- 5. When the call is completed, select the red Call icon to end the call and close the *Video Window*.

Receive Call from Device

1. When a call is made from a POC device to Patient SafetyNet, the Patient SafetyNet View Station(s) display a green Call icon on the POC device screen.



2. Press/select the green Call icon. The device detail view and *Video Window* appear with the video feeds from the device and Patient SafetyNet View Station. Audio and video communication is now possible between the device and the Patient SafetyNet View Station.

Note: If in Detail View when a call comes in, the Video Button can also be selected to accept the call.

Note: A call CANNOT be rejected by the Patient SafetyNet View Station.



3. When the call is completed, press/select the red Call icon to end the call and close the *Video Window*.

Device Standby

The Patient SafetyNet System supports the Standby feature for the Masimo point of care (PoC) device. When Root is in Standby mode, Patient SafetyNet will display Standby as a status message located near the top of the Patient Window in Main View and in the Parameter Well in Detail View. In Standby mode, the Masimo point of care device will stop transmitting parameter data, waveform data, clinical alarms, and non-clinical alarms to the Patient SafetyNet System. The only alarm that will be passed is the Low Battery alarm from Root.



Logout

When assignments, adjustments or changes to the Patient SafetyNet System are complete, users are required to Logout. The user must Logout of the Patient SafetyNet System to prevent unauthorized access to the system. When logged out of the system, the user interface is not active. All notifications continue to be sent to the assigned respondent devices.

To Logout



2. Select **Yes** to confirm.

Chapter 5: Reports

The following chapter describes the various types of reports that are available in Patient SafetyNet. This chapter also provides use cases for each report. The following are the top-level reports and descriptions of individual sections contained within those reports.

- System Report
- Patient Report.
- Patient Trend Analysis Report.
- Data Export Report on page 61
- Notification Summary Report on page 62
- **Patient Summary Report** on page 63

The Patient SafetyNet System provides the ability to generate reports from any computer that has access to the same network as the Patient SafetyNet Appliance with a user account that has privileges to generate the reports using a web browser.

Note: The URL used to access Patient SafetyNet Reports is system specific and configured upon installation. Please contact your local system administrator for more information.

Events versus Notifications

Event: The Patient SafetyNet System records an event when a physiological parameter exceeds the configured alarm threshold or a non-physiological alarm is triggered on the device.

Notification: The Patient SafetyNet System records a notification when an event exceeds the configured device alarm delay in addition to the Patient SafetyNet System initial alarm delay.

Note: Patient SafetyNet System can record events without audible alarms ever being generated. This would be caused by a parameter exceeding the alarm threshold for a time shorter than the configured device alarm delay. An example would be an SpO_2 low or sensor off alarm delay.

System Report

The System Report encapsulates system data for up to 30 days for a specified time range within the previous year.

Note: The Patient SafetyNet system discards the oldest recorded data as the system reaches storage capacity.

Use Cases

- Provides the user the ability to understand alarm distribution across the care area.
- Provides the user the ability to compare different alarm protocols
- Provides the user the ability to understand clinician response to alarms by looking at the percentage of non-clinical alarms escalating through the Patient SafetyNet Escalation Protocol.
- Provides the user the ability to compare various clinical units to each other when multiple domains are configured.

Generate Report

- 1. From the Report Type drop-down list, select system report.
- 2. From the Domain drop-down list, select the desired domain.
- 3. Select **Start Date** and **End Date**.
- 4. Click the boxes for desired report types.
- 5. Click the boxes for desired report categories.
- 6. Select Generate Report.

Header Information

The following is an example of the *Header Information* section.

Hospital Title

Hospital Address

	Top Level Domain	Report Date
Parent Domain Report Start Date	Parent Domain	Report Start Date

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Domain	Report End Date
Number of Instruments (Avg)	Report First Event Time
Utilization	Report Last Event Time
# of Active Instruments	Total Monitoring Time
Active Instrument Utilization	

The following table defines the terms used in the Header Information section.

Terms	Description
Top Level Domain	Name of facility where the Patient SafetyNet System is located (configured during installation)
Parent Domain	The highest level domain of the Patient SafetyNet System (configured during installation)
Domain	A subset of the parent domain (configured during installation)
Number of Instruments (Avg)	The average number of instruments connected to the Patient SafetyNet System for the selected time frame
Report First Event Time	The date and time of the first event for the selected time frame
Report Last Event Time	The date and time of the last event for the selected time frame
Total Monitoring Time	The total time monitored during the selected time frame
Report Date	The date and time that the report was generated
Report Start Date	The start of the time frame selected before the report was generated
Report End Date	The end of the time frame selected before the report was generated
Monitoring Time	The summation of all of the active instrument monitoring time since system installation
Utilization	Monitoring Time divided by the number of connected instruments divided by the selected time frame
# of Active Instruments	The number of instruments connected to the Patient SafetyNet System
Active Instrument Utilization	Monitoring Time divided by the number of connected instruments actively monitoring divided by the selected time frame

Event Reports

The following is an example of the *Clinical Events Report*.

1.1 Event Report: Clinical Event

Туре	Count	% [Count]	Total Duration (sec)	% [Duration]	Max Duration (sec)
[of Clinical Event]					

The following is an example of the *Non-Clinical Events Report*.

1.2 Event Report: Non-Clinical Event

Туре	Count	% [Count]	Total Duration (sec)	% [Duration]	Max Duration (sec)
[of Non-Clinical Event]					

The following is an example of the Modifiers Event Report.

1.3 Event Report: Modifiers Event

Туре	Count	% [Count]	Total Duration (sec)	% [Duration]	Max Duration (sec)
[of Modifiers Event]					

The following table defines the terms used in the Clinical Events, the Non-Clinical Events, and the Modifiers Event reports.

Terms	Description
Type [of Clinical Event]	An event is recorded when a physiological parameter exceeds the configured alarm threshold. See Clinical Events.
Type [of Non-Clinical Event]	An event that triggers an audible alarm but is not related to physiological parameters. See Non-Clinical Events on page 108.
Type [of Modifiers Event]	Environmental states that affect monitored parameters, but do no generate alarms by themselves. See Modifiers on page 110.
Count	The number of times that one of the above events or modifiers occurred for the selected time frame
% [Count]	The percentage of occurrence of a type of event or modifier for the selected time frame

Terms	Description
Total Duration (sec)	The total number of seconds for all events or modifiers of a particular type for a selected time frame
% [Time Duration]	The percentage of one type of an event or modifier compared to the combined total duration of all other events or modifiers within the same report category of the System Report
Max Duration (sec)	The duration of the longest event or modifier of a particular type

Event Duration Report

The following is an example of the *Clinical Event Duration Report*.

2.1 Event Duration Report: Clinical Event

Type [of Clinical Event]	2 - 15 (sec)	16 - 30 (sec)	31 -60 (sec)	61 - 180 (sec)	3 - 4 (min)	4 - 5 (min)	>5 min
--------------------------	--------------	---------------	--------------	----------------	-------------	-------------	--------

The following is an example of the Non-Clinical Event Duration Report.

2.2 Event Duration Report: Non-Clinical Event

$\begin{bmatrix} Type \\ [of Non-Clinical Event] \end{bmatrix} 2 - 15 (sec) \begin{vmatrix} 16 - 30 (sec) \\ 16 - 30 (sec) \end{vmatrix} 31 - 60 (sec) \begin{vmatrix} 61 - 180 (sec) \\ 3 - 4 (min) \end{vmatrix} 4 - 5 (min) \end{vmatrix} > 5 m$	Type [of Non-Clinical Event]	2 - 15 (sec)	16 - 30 (sec)	31 -60 (sec)	61 - 180 (sec)	3 - 4 (min)	4 - 5 (min)	>5 min
---	---------------------------------	--------------	---------------	--------------	----------------	-------------	-------------	--------

The following is an example of the *Modifiers Event Duration Report*.

2.3 Event Duration Report: Modifiers Event

Туре	2 - 15 (sec)	16 - 30 (sec)	31 -60 (sec)	61 - 180 (sec)	3 - 4 (min)	4 - 5 (min)	>5 min
[of Modifiers Event]							

The following table defines the terms used in the Clinical Events, the Non-Clinical Events, and the Modifiers Event reports.

Terms	Description
Type [of Clinical Event]	An event is recorded when a physiological parameter exceeds the configured alarm threshold. See Clinical Events.
Type [of Non-Clinical Event]	An event that triggers an audible alarm but is not related to physiological parameters. See Non-Clinical Events on page 108.
Type [of Modifiers Event]	Environmental states that affect monitored parameters, but do no generate alarms by themselves. See <i>Modifiers</i> on page 110.

Notification Report

Note that only events that become notifications appear in this section.

The following is an example of the *Clinical Notification Report*.

3.1 Notification Report: Clinical Event

Туре	Initial (#)	Initial (%)	Escalation (#)	Escalation (%)	Reescalation (#)	Reescalation (%)
[of Clinical Notification]						

The following is an example of the Non-Clinical Notification Report.

3.2 Notification Report: Non-Clinical Event

Type [of Non- Clinical Notification]	Initial (#)	Initial (%)	Escalation (#)	Escalation (%)	Reescalation (#)	Reescalation (%)
[or non onnear nonnearon]						

The following table defines the terms used in the Clinical Notification and Non-Clinical Notification reports.

Terms	Description
Type [of Clinical Notification]	A notification is recorded when a physiological parameter exceeds the configured alarm threshold for a time frame longer than the configured instrument alarm delay
Type [of Non-Clinical Notification]	A notification that triggers an audible alarm but is not related to physiological parameters
Initial (#)	The total number of one type of notification that occurred in a selected time frame
Initial (%)	The percentage of one type of notification that occurred in a selected time frame
Escalation (#)	The total number of one type of notification that escalated in a selected time frame
Escalation (%)	The percentage of one type of notification that escalated in a selected time frame
Reescalation (#)	The total number of one type of notification that reescalated in a selected time frame

Terms	Description
Reescalation (%)	The percentage of one type of notification that reescalated in a selected time frame

Patient Report

The Patient Report encapsulates patient data for up to 30 days for a specified time range within the previous year.

Note: The Patient SafetyNet system discards the oldest recorded data as the system reaches storage capacity.

Use Cases

- Provides the user detailed event and notification information.
- Provides the user the ability to determine how patient events turned into notifications.
- Provides the user the ability to see which notification devices were alerted.

Generate Report

- 1. From the Report Type drop-down list, select patient report.
- 2. From the Domain drop-down list, select the desired domain.
- 3. Select **Start Date** and **End Date**.
- 4. Select desired patient in the **Patient List**.
- 5. Click the boxes for desired report types.
- 6. Click the boxes for desired report categories.
- 7. Select organize report by event type or time.
- 8. Select Generate Report.

Note: See *Reports Glossary* on page 107 for detailed information and terminology.

Header Information

The following is an example of the *Header Information* section.

Hospital Title

Hospital Address

Top Level Domain	Report Date
Parent Domain	Report Start Date
Domain	Report End Date
Patient Name	Report First Event Time
Instrument Label - Serial Number - Type	Report Last Event Time
Room Number	Total Monitoring Time
Admit Time	

The following table defines the terms used in the Header Information section.

Terms	Description
Top Level Domain	Name of facility where the Patient SafetyNet System is located (configured during installation)
Domain	A subset of the parent domain (configured during installation)
Patient Name	Name given to the patient during the admission process
Instrument Label - Serial Number - Type	The instrument's label, serial number, and type of instrument
Room Number	Room number assigned to patient

Terms	Description
Admit Time	The time that patient was admitted
Report First Event Time	The date and time of the first event for the selected time frame
Report Last Event Time	The date and time of the last event for the selected time frame
Total Monitoring Time	The total time monitored during the selected time frame
Report Date	The date and time that the report was generated
Report Start Date	The start of the time frame selected before the report was generated
Report End Date	The end of the time frame selected before the report was generated

Patient Information Report

The following is an example of the Patient Information Report.

Patient Information Report:

Patient Name
Instrument Label - Serial Number - Type
Room Number
Admit Time
Discharge Time
Admit Duration
Total Number of Events

The following table defines the terms used in the Patient Information Report.

Terms	Description
Patient Name	Name given to the patient during the admission process
Instrument Label	Name given to the instrument (configured during installation)
Instrument Serial Number	The serial number of the instrument that is connected to the patient
Туре	The instrument type associated with the patient
Room Number	Room number given to the patient during the admission process
Admit Time	The date and time that the patient was admitted to the system
Admit Duration	The elapsed time between Admit Date and Discharge Date
Total Number of Events	The total number of events.

Events Report

The following is an example of the *Clinical Events Report*.

1.1 Events Report: Clinical Event

Event Start Value Stop Value Duration (sec) Start Time Stop Time Instrument Label

The following is an example of the Non-Clinical Events Report.

1.2 Events Report: Non-Clinical Event

Event Duration (sec) Start Time Stop Time Instrument Label

The following is an example of the Modifier Events Report.

1.3 Events Report: Modifiers Event

Event Duration (sec) Start Time Stop Time Instrument Label

The following table defines the terms used in the *Clinical Events*, the *Non-Clinical Events*, and the *Modifiers Event* reports.

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Terms	Description
Event	See Reports Glossary on page 107.
Start Value	The value of the parameter at the start of an event
Stop Value	The value of the parameter at the end of the event
Event Duration (sec)	The time in seconds between the Start Value and the Stop Value
Start Time	The time and date that the conditions for a type of event were met
Stop Time	The time and date that the conditions for a type of event were no longer met
Instrument Label	The Instrument ID that was entered when the instrument was first added to the SafetyNet System.

Notification Report

Note that only events that become notifications appear in this section. See *Events versus Notifications* on page 53.

The following is an example of the *Clinical Notification Report*.

2.1 Notification Report: Clinical Event

Type of Event | Notified Value | Time | Notification ID | Instrument Label

The following is an example of the Non-Clinical Notification Report.

2.2 Notification Report: Non-Clinical Event

Type of Event Time Notification ID Instrument Label

The following is an example of the Modifiers Notification Report.

2.3 Notification Report: Modifiers Event

Type of Event Time Notification ID Instrument Label

The following table defines the terms used in the Clinical Notification, the Non-Clinical Notification, and the Modifiers Notification reports.

Terms	Description
Type of Event [Clinical]	A notification is recorded when a physiological parameter exceeds the configured alarm threshold for a time frame longer than the configured instrument alarm delay in addition to the configured Patient SafetyNet notification delay
Type of Event [Non-Clinical]	A notification that triggers an audible alarm but is not related to physiological parameters
Type of Event [Modifiers]	See <i>Modifiers</i> on page 110.
Notified Value	The value of the triggering parameter when the notification was sent
Time	The date and time that the notification was sent
Notification ID	The Cap Code of the pager, badge, or phone to which the notification was sent
Instrument Label	The Instrument ID that was entered when the instrument was first added to the SafetyNet system.

User Interaction Report

The following is an example of the Alarm Silence User Interaction Report.

1. User Interaction Report: Alarm Silence

Event	Duration (sec)	Start Time	Stop Time	Instrument Label	
-------	----------------	------------	-----------	------------------	--

The following is an example of the Respond Instrument User Interaction Report.

2. User Interaction Report: Respondent Instrument Assignment

Start Time Stop Time Notification ID Respondent Name Role

The following table defines the terms used in the Alarm Silence User Interaction and Respondent Instrument User Interaction reports.

Terms	Description
Event	The instances when the alarm was silenced at the bedside instrument or using the Patient SafetyNet user interface
Duration (sec)	The duration in seconds that the alarm was silenced
Start Time [Alarm Silence]	The time and date that the alarm silence began
Stop Time [Alarm Silence]	The time and date that the alarm silence ended
Start Time [Respondent Instrument Assignment]	The time and date that the Respondent Instrument was assigned to the patient
Stop Time [Respondent Instrument Assignment]	The time and date that the Respondent Instrument was unassigned to the patient
Instrument Label	The Instrument ID that was entered when the instrument was first added to the SafetyNet system
Notification ID	The Cap Code of the pager, badge, or phone to which the notification was sent
Respondent Name	The name given to pager, badge, or phone when it was added to the system (configured during installation)
Role	Whether the recipient of the notification was the primary, secondary, or supervisory

Patient Trend Analysis Report

The Patient Trend Analysis Report encapsulates patient data for up to five days for a specified time range within the previous 30 days.

Note: The Patient SafetyNet system discards the oldest recorded data as the system reaches storage capacity.

Use Cases

- Provides the user the ability to view patient clinical trends over a selected time frame
- Provides the user the ability to view overnight clinical information for patients who may be at risk of excessive oxygen desaturations

Generate Report

- 1. From the Report Type drop-down list, select patient trend analysis report.
- 2. From the Domain drop-down list, select the desired domain.
- 3. Select desired patient in the **Patient List**.
- 4. Select **Start Date** and **End Date**.
- 5. Click the boxes for desired parameters and desired trend characteristics.
- 6. Select a device from the device list.
- 7. Select Generate Report.

Header Information

The following is an example of the *Header Information* section.

Hospital Title

Hospital Address

Top Level Domain	Report Date
Parent Domain	Report Start Date
Domain	Report End Date
Patient Name	Admit Date
Instrument Name	Discharge Date
Report ID	Admit Duration

The following table defines the terms used in the *Header Information* section.

Terms	Description
Top Level Domain	The name of facility where the Patient SafetyNet System is located (configured during installation)

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Terms	Description
Domain	The domain where the patient is located in the system
Patient Name	The name given to the patient during the admission process
Instrument Name	The name given to the instrument (configured during installation)
Report ID	The sequential number of times for which the report was generated
Admit Date	The date and time that the patient was admitted to the system
Discharge Date	The date and time that the patient was discharged from the system
Admit Duration	The elapsed time between the Admit Date and the Discharge Date
Report Date	The date and time that the report was generated
Report Start Date	The start of the time frame selected before the report was generated
Report End Date	The end of the time frame selected before the report was generated

Histograms

High and Low thresholds for SpO₂, Respiratory Rate, and Pulse Rate can be adjusted in the Patient Trend Analysis Report.



Total time, longest duration, and number of events below or above a threshold can be set as an output for the report.



Histogram Images provide the duration the patient was monitored at a certain value as a percentage of total time monitored.

The Histogram section can display a five-day window of SpO₂, RRa, and BPM data for up to the previous 30 days.

Trends

The *Trends* section can display a five-day window of SpO_2 , RRa, and BPM data for up to the previous 30 days. The following is an example of the *Trends* section.



Data Export Report

The Data Export Report encapsulates system data for up to the previous 30 days.

Note: The Patient SafetyNet system discards the oldest recorded data as the system reaches storage capacity.

Use Cases

- Provides the user the ability to extract the raw second by second data for each parameter and instrument for a patient.
- Provides the user the ability to create unique trends from raw data.

Generate Report

- 1. From the Report Type drop-down list, select data export report.
- 2. From the Domain drop-down list, select the desired domain.
- 3. Select **Start Date** and **End Date**.
- 4. Select Apply
- 5. Select desired patient in the **Patient List**.
- Masimo Corporation

- 6. Select desired instrument in the Instrument List.
- 7. Select Generate Report.
- 8. Save .csv file in the desired location.

Notification Summary Report

The *Notification Summary Report* encapsulates system data for up to 30 days for a specified time range within the previous year. **Note:** The Patient SafetyNet system discards the oldest recorded data as the system reaches storage capacity.

Use Cases

- Provides the user detailed notification information.
- Provides the user the ability to determine how many notifications were sent to specific instruments.

Generate Report

- 1. From the Report Type drop-down list, select notification summary report.
- 2. From the Domain drop-down list, select the desired domain.
- 3. Select **Start Date** and **End Date**.
- 4. Select Generate Report.

Header Information: Notification Summary Report

The following is an example of the *Header Information* section.

Hospital Title

Hospital Address

Top Level Domain	Report Start Date
Parent Domain	Report End Date
Domain	Report Date

The following table defines the terms used in the Header Information section.

Terms	Description
Top Level Domain	The name of facility where the Patient SafetyNet System is located (configured during installation)
Domain	The domain where the patient is located in the system
Parent Domain	The parent domain where the patient is located in the system
Admit Date	The date and time that the patient was admitted to the system
Report Start Date	Start date and time selected for the report
Report End Date	End date and time selected for the report
Report Date	The date and time that the report was generated

Respondent Instrument List

The following is an example of the *Clinical Events Report*.

Respondent Instrument List

Label Cap Code Number of Clinical Notifications Number of Non Clinical Notifications

The following table defines the terms used in the Respondent Instrument List.

Terms	Description
Label	Label given to notification device
Cap Code	Cap Code for the notification device
Number of Clinical Notifications	Number of Clinical Notifications in selected time frame
Number of Non Clinical Notifications	Number of Non Clinical Notifications in selected time frame

Patient Summary Report

The System Report encapsulates system data for up to 30 days for a specified time range within the previous year.

Note: The Patient SafetyNet system discards the oldest recorded data as the system reaches storage capacity.

Use Cases

- Provides the user detailed event and notification information.
- Provides the user the ability to determine how patient events turned into notifications.
- Provides the user the ability to see which notification devices were alerted.
- Provides the user with specific patient monitoring statistics.
- Provides the user the ability to determine what percentage of time the patient was being monitored.
- Provides the user the ability to determine how many events led to notifications..0

Generate Report

- 1. From the Report Type drop-down list, select patient summary report.
- 2. From the Domain drop-down list, select the desired domain.
- 3. Select **Start Date** and **End Date**.
- 4. Select desired parameters from the Parameter List.
- 5. Select Generate Report.
- 6. Select the desired patient from the **Patient List**.
- 7. Select Generate Report.

Header Information: Patient Summary Report

The following is an example of the Header Information section.

Hospital Title

Hospital Address

Top Level Domain	Report Start Date
Parent Domain	Report End Date
Domain	Report Date

The following table defines the terms used in the Header Information section.

Terms	Description
Top Level Domain	The name of facility where the Patient SafetyNet System is located (configured during installation)
Domain	The domain where the patient is located in the system
Parent Domain	The parent domain where the patient is located in the system
Admit Date	The date and time that the patient was admitted to the system

Terms	Description
Report Start Date	Start date and time selected for the report
Report End Date	End date and time selected for the report
Report Date	The date and time that the report was generated

Patient Information Report

The following is an example of the *Patient Information Report*.

Patient Information Report:

Patient Name
Instrument Name
Admit Date
Discharge Date
Admit Duration

The following table defines the terms used in the Patient Information Report.

Terms	Description
Patient Name	Name given to the patient during the admission process
Instrument Name	The name of the instrument that is connected to the patient
Admit Date	The date and time that the patient was admitted to the system
Discharge Date	The date and time that the patient was discharged to the system
Admit Duration	The elapsed time between Admit Date and Discharge Date

Patient Event List

The following is an example of the *Clinical Events Report*.

Patient Notification List

Label Cap Code Start Time Stop Time Role Number of Clinical Notifications Number of Non Clinical Notifications

The following table defines the terms used in the *Patient Notification List*.

Terms	Description
Label	Label given to notification device
Cap Code	Cap Code for the notification device
Start Time	The time and date that the conditions for a type of event were met
Stop Time	The time and date that the conditions for a type of event were no longer met
Role	Whether the recipient of the notification was the primary, secondary, or supervisory
Number of Clinical Notifications	Number of Clinical Notifications in selected time frame
Number of Non Clinical Notifications	Number of Non Clinical Notifications in selected time frame

Chapter 6: Iris

Iris allows a variety of standalone devices to connect to the Patient SafetyNet System. When standalone devices are connected to the Patient SafetyNet System via the Iris port of Root, patient data and alarms can be passed through Root to Patient SafetyNet which can send the data to the patient's electronic health records.

Below is an example of one scenario in which standalone device can be connected to Root.



ltem	Description	ltem	Description	ltem	Description
1	Third Party Device*	4	Patient SafetyNet Appliance	7	Notifications
2	Root	5	Patient SafetyNet View Station	8	Device icons
3	Wireless 802.11 or wired connection	6	Connectivity to electronic heath record and central monitoring stations	9	Iris icon

* Through Iris, Root is designed to provide built-in integration to multiple standalone devices including IV pumps, ventilators, beds, and other patient monitors.

Connecting a Standalone Device

In order to connect a standalone device to Patient SafetyNet via Root and Iris please ensure you have the correct *Iris Adapter* for the make and model of the standalone device you wish to connect.

- 1. Ensure the standalone device is configured to output data. For more information on how to configure the standalone device to output data consult that standalone device's manual(s).
- 2. Connect the proprietary end of the Iris Adapter to the standalone device.
- 3. Connect the RJ-45 end of the Iris Adapter to any of the 4 compatible Iris Connectivity Ports on Root using an Ethernet cable.

For more information on ensuring proper connection of standalone device to Root consult the Root Operator's Manual and the Iris Adapter Directions For Use.

Viewing Standalone Device Information

To view data from a standalone device on Patient SafetyNet select the appropriate *Patient Window* from the *Main View* screen. In *Detail View* you will see multiple tabs corresponding to the various devices associated with the patient. Select the tab of the appropriate standalone device and that device's data will populate the *Trend Window*. Available parameters from the standalone device will populate the *Parameter Options* bar above the trend window, as well as, the *Parameter Well* to the left of the trend window. The standalone devices trend information in the *Trend Window* can be adjusted and viewed in a similar fashion to that of a connected Masimo pulse oximeter, for more information on the *Trend Window* see **Trend Window** on page 36.

Successful connection between Patient SafetyNet and a standalone device will be indicated when the standalone device tab turns Green, Yellow or Red and trended information from the standalone device can be seen in the *Trend Window* in *Detail View*. See *Detail View Screens* on page 32. Gray tab color indicates improper connection to standalone devices and will display a status message that indicates improper connection.



Chapter 7: MyView

MyView allows clinicians to configure a preferred viewing profile in the Patient SafetyNet system. This MyView profile is then associated with a Masimo MyView Presence Tag, or other eligible Bluetooth device. When a device with MyView that is connected to Patient SafetyNet senses the presence of the Bluetooth enabled device, the device will then alter its display to conform to the MyView profile associated with the Bluetooth device. Devices with MyView can display any available parameters and up to 1 trend or waveform.

Compatible MyView devices:

- 1. Radical-7 Touchscreen
- 2. Root
- 3. Patient SafetyNet View Station.

Add MyView Profiles

- 1. Select the *Users* icon **a** on the *Navigation* bar.
- 2. Select **Add** from the MyView Profiles section.



3. Enter the name of the MyView profile and select *OK* to create the new profile.



Modify MyView Profiles

- 1. Select the Users icon an the Navigation bar.
- 2. Select the MyView profile you wish to edit from the list of the available profiles in the MyView Profiles section of the Manage Users window.
- 3. Select Modify.
- 4. To add parameters to the MyView profiles select the Parameters folder from the Profile Properties section in the MyView Profile Properties window.

5. Select the parameters to be associated with the MyView profile. Selecting a parameter highlights the parameter name, to de-select a parameter select the highlighted area a second time.

MyView Profile Properties	
MyView Profile	
MyView2	
Profile Properties	
 POC Parameters Trend/Waveforms 	SpO2 PR Ra SpHb PVi SpCO SpCO Pi SpCO Pi SFCO SpCO Pi Ser PSI EMGT ART SEFL EtCO; RR FICO; FICO; PI
	OK

- 6. To add a trend or waveform to the MyView profile, select the Trend/Waveforms folder from the Profile Properties section.
- 7. Select 1 trend to be associated with the MyView profile. Selecting a trend highlights the trend name. To de-select a trend select the highlighted area a second time, or select another trend option.
- 8. When finished editing the MyView profile select *OK* to save the changes.

Remove My View Profiles

- 1. Select the Users icon an the Navigation bar.
- 2. From the *MyView Profiles* list, highlight the desired MyView Profile and select the *Remove* button.
- 3. Confirm you wish to remove the MyView Profile by selecting Yes in the pop-up window.

Chapter 8: Interfaces

Masimo offers a variety of connectivity options enabling the transmission of patient data to and from hospital systems, devices and notification gateways. By implementing one of the connectivity options, a device can transmit patient vital signs to these systems and devices at defined time intervals. For example, the system can be an electronic medical record (EMR), and a device can be an Anesthesia machine.

HL7 Interface (Inbound)

The Patient SafetyNet HL7 Interface supports inbound communication of patient ADT using HL7 messaging on a configured socket. The HL7 ADT message allows Patient SafetyNet to receive patient ADT information and make the information available to clinicians in order to admit a patient to the Patient SafetyNet system. The Patient SafetyNet admission process is an internal process to associate a connected Instrument to a patient.

Deploying Patient SafetyNet HL7 ADT interface will facilitate the following:

- Facilitate Patient Admission: Clinicians can use the patient information provided by the interface to admit patient to Patient SafetyNet system see *ADT Patient Information Import* on page 69.
- Facilitate Vital Signs Reporting: Using patient information provided by the interface will facilitate vital signs reporting (outbound messages) to the EMR. Patient SafetyNet system will use patient information (e.g. Master Record Number) to report patient vital signs to the EMR and send alarms to the hospital alarm management system.

ADT Patient Information Import

To provide more insight into the Patient SafetyNet admission process and how Patient ADT information will be used, a step-by-step outline of the Patient SafetyNet admission process is shown below.

Select Admit Patient from the Main View

Next, the user presses the Patient Admit Button to access the admission interface as shown below:

The user can access the list of patients in the appropriate units as received from the HL7 ADT message feed by pressing the Import button.



Select a patient and press Apply.

Patient Information					
Search:					
Last Name	First Name	Room Number	MRN	Account	
Patient	One	1638	3547005	21145	
Patient	Two	0002	1056983	24271	
Patient	Three	1864	1614174	51638	
Patient	Four	4351	6365998	72777	
Patient	Five	1145	3431864	97849	
1					
	Apply		Cancel		

Patient information will be automatically populated.

Note: Fields are configurable and will vary. Optional fields include but are not limited to First Name, Last Name, Master Record Number (MRN), Room Number, Account, etc.

HL7 Interface (Outbound)

The Patient SafetyNet HL7 Interface supports outbound communication of patient vitals using HL7 messaging on a configured socket. Once the patient is associated to a point of care device, the Patient SafetyNet HL7 interface will start sending the patient vitals to the hospital EMR system.

Notification Interface

An advantage of Masimo connectivity options is the remote delivery and receipt of clinical and non-clinical alarm events that may occur during patient monitoring that is communicated through a notification gateway. Notification gateways can then deliver the alarm data to clinician notification devices such as pagers, IP Notification devices, or mobile devices. TAP, Cisco, and HL7 are examples of notification gateways.

ТΑР

Patient SafetyNet supports the transmission of notification messages in TAP version 1.6 or 1.8.

Cisco

Patient SafetyNet supports the transmission of notification messages to Cisco Call Manager version 7 or later.

Note: Cisco Notification is not supported for Patient SafetyNet software revision V55xx.

HL7

Patient SafetyNet supports the transmission of alarm messages in HL7 version 2.X. When this option is configured, Patient SafetyNet will send all alarms to the hospital alarm management system.
Chapter 9: System Administration

Configuration

Use the Configuration function to manage the Domains and Devices for the system. Select the *Configuration* icon icon on the *Navigation* bar to open the *Configuration Window*. Select the different tabs at the top of the *Configuration Window* to access settings. The Domains tab is displayed by default when the *Configuration Window* is opened.

۰	Configura	tion							×
	Domains	Locations	Instruments	Alarm Profiles	Pagers	Notification	n Settings	Gateways	Syst 4 >
			A	dd/Remo	ve D	omain			
	- x 🏢	default	domain						
	1 1	Floor	1						
	1	Floor	2						
							ſ	_	
						Add	Remove		lodify
Į									
					ose				

Domains

Domains provide the functionality to organize devices into groups. Once Domains are created, devices are then assigned to a Domain. Based on the Domain selection, Patient SafetyNet will display specific devices assigned to that Domain. This is useful when Clinicians wish to focus specifically on the devices in their care area.

When new Users are created, the System Administrator determines which Domains the User has the ability to view in working with the Patient SafetyNet System.

Add Domain

- 1. Select the *Configuration* icon on the *Navigation* bar.
- 2. Select the Domain tab.

- 3. Under Add/Remove Domain, select on an existing Domain that you wish to have the new Domain fall under.
- 4. Select Add.

Configuration						
Domains Locations Instruments Alarm Profiles Pagers Notification Settings Gateways Syst						
Add/Remove Domain						
🛛 🗊 default domain						
Add Domain						
Domain						
Parent Node: default domain						
Domain Name:						
OK Cancel						
Add Remove Modify						
Close						

- 5. The Parent Node automatically displays the selection from Step #3. To change, make a selection from the drop down list.
- 6. In the text field, enter the *Domain Name*.
- 7. Select *OK* and the new domain is added.

Modify Domain

- 1. Select the *Configuration* icon on the *Navigation* bar.
- 2. Select the Domain tab.
- 3. From within the Domain tree, select an existing Domain and Select *Modify*.
- 4. Edit the Parent Node and/or Domain Name.
- 5. Select *OK* to save the changes.

Remove Domain

Note: When a domain has additional domains listed below it, those will be removed also.

Note: Domains cannot be removed if devices are assigned. All devices must be removed before a domain can be removed.

- 1. Select the *Configuration* icon on the *Navigation* bar.
- 2. Select the Domain tab.
- 3. Under *Add/Remove Domain*, highlight the desired domain and select *Remove*.
- 4. Confirm the domain removal by selecting Yes in the pop-up window.

Locations

Location can be used to define a point of care device physical location. The device and its physical location can be used by the HL7 interface when the device is without an actual patient association. See *HL7 Interface (Inbound)* on page 69.

Add Location

- 1. Select the *Configuration* icon on the *Navigation* bar.
- 2. Select the *Locations* tab.
- 3. Select a domain and select the *Add*.
- 4. Enter desired fields and select OK.

Add Location				×
		Loca	ation	
Facility:	One			
Building:	Two			
Floor:				
PointOfCare:				
Room:				
Bed:				
		ок	Cancel	

Note: Creating a location is optional.

Note: Only PointOfCare and Room fields are required if a location is created.

Note: Locations cannot have the same PointOfCare, Room, or Bed, the location needs to have a unique identifier(s).

Field	Definition	
Facility*	Highest level physical designation of an institution, medical center or enterprise.	
Building*	Building where the person is located.	
Floor	Floor where the patient is located.	
PointOfCare	Where patient care is administered. It is related Person Location Type (e.g., nursing unit or department or clinic).	
Room	The patient's room.	
Bed	Patient's bed.	

* This field is determined during Patient SafetyNet installation and is not user configurable.

To Add Location to an *Instrument*.

Note: Assigning a location to an instrument is optional.

Note: To assign a location to an instrument a location must be added from the *Locations* tab.

- 1. Select the *Instruments* tab.
- 2. Select a domain then select the *Add*.
- 3. Enter the Instrument ID and Serial Number.
- 4. Select a location from the Location drop down menu.

5. Select *OK* to add the instrument with a location.

Instrument Information				
Instrument Information				
Instrument ID:	9000			
Serial Number:	9000			
Domain:	default domain 🚽			
Location:	3, PSN7, 1216, a 🚽			
	<none></none>			
	3, PSN7, 1216, a			
	3, PSN7, 1216, b			
OF	Cancel			

Modify Location

To Modify Location from Locations Tab

- 1. Select the *Configuration* icon on the *Navigation* bar.
- 2. Select the *Locations* tab.
- 3. Select an existing location from the list at the bottom of the window and select *Modify*.



4. Enter desired fields.

*	Add Location		
ľ		Location	
	Facility:	One	ł
	Building:	Two	
	Floor:	3	
	PointOfCare:	PSN7	
	Room:	1216	
	Bed:	b	
		OK Cancel	

1.

5. Select *OK* to save the modified location.

Note: Only PointOfCare and Room fields are required.

Note: Locations cannot have the same *PointOfCare, Room, or Bed.*

To Modify Location of an Instrument.

Note: Assigning a location to an instrument is optional.

- Select the *Configuration* icon on the *Navigation* bar.
- 2. Select the *Instruments* tab.
- 3. Select an instrument and select *Modify*.
- 4. Select a location from the Location drop down menu. None can be selected to remove location from instrument.



5. Select *OK* to save the changes.

Remove Location

Note: A location cannot be removed if it is assigned to an instrument.

- 1. Select the *Configuration* icon on the *Navigation* bar.
- 2. Select the *Locations* tab.
- 3. Under *Locations*, highlight the desired location and select *Remove*.
- 4. Confirm the location removal by selecting Yes in the pop-up window.

Instruments

Add Instrument

Note: The instrument ID only allows the entry of English characters and numbers.

- 1. Select the *Configuration* icon on the *Navigation* bar.
- 2. Select the *Instruments* tab.
- 3. Under Instruments, select the Domain for the instrument. A Domain supports a maximum of 40 instruments.

- 4. Select the *Add* button.
- 5. Enter the Instrument ID and Serial Number.

Instrument Information	
Instrume	ent Information
Instrument ID:	
Serial Number:	
Domain:	default domain 🕞
Location:	
OK	Cancel

- 6. Confirm the Domain selection. To change, make a selection from the drop down list.
- Select a location from the Location drop down menu.
 Note: Assigning a location to an instrument is optional.
 Note: To assign a location to an instrument a location must be added from the *Locations* tab.
- 8. Select *OK* and the instrument is added.

Modify Instrument

- 1. Select the *Configuration* icon on the *Navigation* bar.
- 2. Select the Instruments tab.
- 3. Select an existing instrument to modify from the Instrument list.
- 4. Select the *Modify* button.



- 5. Edit the instrument ID or serial number.
- 6. Confirm the Domain and Location selections. To change, make a selection from the drop down list.
- 7. Select *OK* to save the changes.

Remove Instrument

Note: Instruments cannot be removed if a patient is assigned to it.

- 1. Select on the *Navigation* bar.
- 2. Select the Instruments tab.
- 3. Under *Instruments*, highlight the desired profile and select *Remove*.
- 4. Confirm the instrument removal by selecting *Yes* in the pop-up window.
- Masimo Corporation

Alarm Profile Configuration

Profiles Overview

An alarm profile is a pre-configured set of alarm limits for all parameters that can be applied to a device in lieu of manually setting limits for each individual parameter. An Alarm Profile can be used to ensure that a pre-determined set of alarm limits are applied to the device. Multiple profiles can be configured for each domain. Alarm Profiles are identified by both a name and a color. An Alarm Profile can either be applied to the device during the process of admitting a patient, or any other time a device is connected to Patient SafetyNet.

The Patient SafetyNet contains three pre-determined alarm profiles located within **each** domain, which lets the user customize different settings for different patient populations.

- Adult (default)
- Pediatric
- Neonatal



These alarm profiles are shipped with the Patient SafetyNet system. These alarm profiles match the default profiles shipped with the Masimo point of care device. For complete information pertaining to these alarm profiles, including limits and settings, refer to the Operator's Manual for the device.

When a new domain is created, the three (3) pre-determined alarm profiles automatically appear. The parameter settings for these pre-determined profiles are copied from the pre-determined profiles in the root domain. Adult is the default profile for all domains.

Up to eight (8) additional custom alarm profiles can be created. See Creating an Alarm Profile on page 78.

Note: The three (3) pre-determined alarm profiles cannot be removed, only the custom profiles can be removed.

View Profile

- 1. To view an existing profile, select the *Configuration* icon 🙆 on the *Navigation* bar.
- 2. Select the *Alarm Profiles* tab.
- 3. Select the desired profile and select View.

4. The selected profile values will be displayed, but cannot be modified.

Alarm Profiles						
Profile Information						
Profile Name	Neonatal					
Profile Color	Purple 🔹					
Domain:	Floor 1					
Domain default 🔳						
Setting	Value					
SpO₂ High	99					
SpO ₂ Low	88 🛛					
SpfO₂ High	99					
SpfO₂ Low	88					
PR High	180					
PR Low	100					
Pi High						
Pi Low	0.3					
SpCO High	10					
SpCO Low						
SpMet Hiah	3					
ОК	Cancel					

Creating an Alarm Profile

When creating a new profile, the settings from that domain's default profile are used by default, and can be modified as needed.

- 1. Select the *Configuration* icon on the *Navigation* bar.
- 2. On the Configuration screen, select on the Alarm Profiles tab. Adult is the default profile for all domains.
- 3. To create a new profile for the top level domain:
 - Select the domain to place the new profile within.
 - Select the Add button.
- 4. Select Yes to create the default alarm profile. Enter the following:
 - Enter a Profile Name.
 - Select a Profile color.
 - Select a Domain.
 - If this is to be the default domain, select the Domain Default box.
 - Select OK.

۰	Alarm Profiles						
1	Profile Information						
	Profile Name	Custom 1					
	Profile Color	Amber			-		
	Domain:	Flo	or 2		•		
	Domain default 🔳						
		Ж	Cancel				

Note: The profile name must be unique.

Note: Each profile color can only be assigned to one profile.

5. The new profile will be displayed under the domain.



- 6. To set the alarm setting values for the new profile. select the profile and click the *Modify* button.
- 7. Enter the Alarm Setting Values for every field.

Alarm Profiles						
Profile Information						
Profile Name	Custom 1					
Profile Color	Amber -					
Domain:	Floor 2 -					
Domain default 🔳						
Setting	Value					
SpO₂ High						
SpO ₂ Low	88					
SpfO₂ High						
SpfO₂ Low	88					
PR High	140					
PR Low	50					
Pi High						
Pi Low	0.3					
SpCO High	10					
SpCO Low						
SpMet High	3					
ОК	Cancel					

- 8. If this is to be the default profile for this domain, insure the *Domain default* box is checked. Every field under *Value* must be entered, even if it is not applicable to the monitor being used.
- 9. Once all values are entered, select *OK* and the new profile is added.

Change Default Profile

Note: *Adult* is the default profile for all domains.

Note: When a patient is discharged, the profile defaults back to *Adult* for the next patient.

- 1. Select the *Configuration* icon on the *Navigation* bar.
- 2. On the Configuration screen, select on the *Alarm Profiles* tab.
- 3. Highlight the desired profile and select *Modify*.
- 4. If this is to be the default profile, insure the *Domain default* box is checked.



- 5. Select *OK* to change the default profile.
- 6. The new default profile will be indicated on the Alarm Profiles screen.



Modify Profile

- 1. Select the *Configuration* icon on the *Navigation* bar.
- 2. On the Configuration screen, select on the *Alarm Profiles* tab.

3. Highlight the desired profile and select *Modify*.

Alarm Profiles						
Profile Information						
Profile Name	Custom 1					
Profile Color	Amber -					
Domain:	Floor 2 -					
Domain default 🔳						
Setting	Value					
SpO₂ High						
SpO₂ Low	88					
SpfO₂ High						
SpfO ₂ Low	88					
PR High	140					
PR Low	50					
Pi High						
Pi Low	0.3					
SpCO High	10					
SpCO Low						
SpMet Hiah	3					
ОК	Cancel					

- 4. From this screen, change the *Alarm Setting Values* as necessary.
- 5. If this is to be the default profile for this domain, insure the *Domain default* box is checked. Note that every field under *Value* must be entered, even if it is not applicable to the monitor being used.
- 6. Select *OK* to save the changes.

Remove Profile

Note: The three (3) pre-determined alarm profiles cannot be removed.

- 1. To delete a custom profile, select the *Configuration* icon on the *Navigation* bar.
- 2. On the Configuration screen, select on the *Alarm Profiles* tab.
- 3. Under *Alarm Profiles*, highlight the desired profile and select *Remove*.
- 4. Confirm you wish to remove the profile by selecting *Yes* in the pop-up window.

Pagers Add Pagers

- 1. Select the *Configuration* icon on the Navigation bar.
- 2. Select the *Pagers* tab.

3. Under Pager list, select the Domain for the Pager.



- 4. Select the Add button.
- 5. Insert the Pager Name and Cap Code.

Add Pager					
Pager	Information				
Pager Name:					
Cap Code:					
Domain:	default domain 🚽				
Supervisory	-				
Gateway:	TAP -				
Pager Username					
Password					
Confirm Password					
ОК	Cancel				

- 6. Confirm the Domain selection. To change, make a selection from the drop down list.
- 7. If this is a supervisor pager, select the *Supervisory* box.
- 8. Confirm the Gateway selection. To change, make a selection from the drop down list.
- 9. Enter the Pager Username, Password and Password again to confirm.
- 10. Select *OK* and the pager is added.

Modify Pagers

- 1. Select the *Configuration* icon on the Navigation bar.
- 2. Select the *Pagers* tab.
- 3. Under Pager list, select the Pager.

4. Select the *Modify* button.

Modify Pager	×				
Pager Information					
Pager Name:	default supervisor				
Cap Code:	1001				
Domain:	default domain 🔹 🗸				
Supervisory	2				
Gateway:	TAP •				
Pager Username					
Password					
Confirm Password					
OK	Cancel				

- 5. Edit the Pager Name or Cap Code.
- 6. Confirm the *Domain* selection. To change, make a selection from the drop down list.
- 7. Change any other information as required.
- 8. Select *OK* to save the changes.

Test Pagers

- 1. Select the *Configuration* icon on the *Navigation* bar.
- 2. Select the *Pagers* tab.
- 3. Under *Pager List*, select the Pager.
- 4. Select the **Test Page** button.
- 5. Enter a Paging Interval.



- 6. Select **Start**. A test page will be sent to the Pager.
- 7. Once the test is complete, select **Stop** to end the test.
- 8. Select **Close** to return to the Pager Configuration Window.

Remove Pagers

A pager can **ONLY** be removed if it is not assigned to a patient or a device.

- 1. Select the *Configuration* icon on the Navigation bar.
- 2. Select the *Pagers* tab.
- 3. Under Pager list, highlight the desired Pager and select *Remove*.
- 4. Confirm the pager removal by selecting *Yes* in the pop-up window.
- 5. If there no more Pagers to remove, select *Close* to return to Detail View.

Notification Settings Modify Notification Settings

- 1. Select the *Configuration* icon on the Navigation bar.
- 2. Select the *Notification Settings* tab.
- 3. Under *Instrument*, select an available instrument.

Instrument								
9013 (PStanley4512 Paul Stanley)								
🗊 9014 (JHoward56498 John Howard)								
9015	(SSmith52836	Sc	ott S	mith)			-	
Alarms	Status		Aları	m Interval		Value		
SpO₂ High	enabled	^	Initia	al (sec)	0		<u>^</u>	
SpO₂ Low	enabled		Initia	al Modifi	15		=	
SpfO₂ High	enabled		Esc	alation (1			
SpfO₂ Low	enabled	-	Rep	eat Esc	5		-	
Alerts	Status		Alert	Interval		Value		
All Mute	enabled	^	Initia	al (sec)	5		<u>^</u>	
No Sensor	enabled		Esc	alation (1		=	
Replace Se	enabled		Rep	eat Esc	5			
Interference	enabled	-	Auto	o-discon	15		-	
	Enable All	Disab	le All	Apply				
				,				

- 4. Click in the *Status* column and Enable or Disable the Alarm parameters and Alert messages.
 - To **ENABLE ALL** alarm parameters and alert messages, select *Enable All*, then select *Apply* to apply the changes.
 - To DISABLE ALL alarm parameters and alert messages, select Disable All, then select Apply to apply the changes.
- 5. Click in the Alarm/Alert Interval Value column and set the Escalation Intervals values for the Alarms and Alerts based on hospital protocols.

Alarms	Status		Alarm Interval		Value	
SpO₂ High	enabled	<u>^</u>	Initial (sec)	0		<u>^</u>
SpO₂ Low	enabled		Initial Modifi	15		=
SpfO₂ High	enabled		Escalation (1		
SpfO₂ Low	enabled	-	Repeat Esc	5		-
Alerts	Status		Alert Interval		Value	
(CO2)No Bre	enabled	<u>^</u>	Initial (sec)	5		<u>^</u>
No Sensor	enabled		Escalation (1		=
Replace Se	enabled		Repeat Esc	5		
Interference	enabled	-	Auto-discon	15		-
	Enable All	Disab	le All Apply			

6. Select the *Apply* button to save the changes.

Testing the Clinician Paging/Notification System

Note: It is critical to test the Clinician Notification System after any modifications to configuration, or software upgrades have occurred.

To verify the system is operating properly

1. Assign a Primary Respondent device to an installed instrument with connection to the Patient SafetyNet System.

- 2. Generate an alarm condition on the instrument.
- 3. Confirm that a notification is received on the Respondent device.

Gateways Add Gateway

- 1. Select the *Configuration* icon on the Navigation bar.
- 2. Select the Gateways tab.
- 3. Select the Add button.
- 4. Insert the Gateway Name, IP Address, Port, Username, Password, and the Password again to confirm.

Add Gateway		X
Gat	teway Information	
Gateway Name:		
IP Address:		
Port:		
Username		
Password		
Confirm Passwo	brd	
Gateway type	Please Select -	
	OK Cancel	

- 5. Confirm the current Gateway Type or select a Gateway Type from the drop-down list.
- 6. Select OK. and the gateway is added.

Modify Gateway

- 1. Select the *Configuration* icon on the Navigation bar.
- 2. Select the *Gateways* tab, highlight a desired gateway and select the *Modify* button.
- 3. Change the Gateway Name, IP Address, Port, Username, or Password.
- 4. Select a different Gateway Type from the drop down list.
- 5. Select *OK* to save the changes.

Remove Gateway

- 1. Select the *Configuration* icon on the Navigation bar.
- 2. Select the Gateway tab.
- 3. Under the Gateway list, highlight the desired Gateway and select *Remove*.
- 4. Confirm you wish to remove the Gateway by selecting Yes in the pop-up window.

System Settings Modify System Settings

- 1. Select the *Configuration* icon on the Navigation bar.
- 2. Select the *System Settings* tab.
- 3. The information fields displayed and/or required for patient admission can be customized. Scroll left or right to view all available settings.

	tem Settings		NC 111	
Field	Data Type	Length	VISIDIE	
	alphanumeric	12	~	
First	alphanumeric	30	V	
Last	alphanumeric	30	V	
M.I.	alphanumeric	1	V	
Room	alphanumeric	10	V	=
Date Of Birth	date	10	V	
Medical Record Number	alphanumeric	10	V	
Patient Identifier	alphanumeric	10	V	
CustomField1	alphanumeri 🗸	10		
CustomField2	alphanumeri -	10		
CustomField3	alnhanumeri 🗸	10		-
•			+	
			Modify	

4. Check and uncheck the desired fields to be visible, present during patient admission, and/or required (mandatory) for patient admission.

System Settings							
Туре	Length	Visible	Required	Show on Detail Viev			
numeric	12	\checkmark	~		I		
numeric	30				I		
numeric	30				I		
numeric	1				I		
numeric	10						
	10				I		
numeric	10	V			I		
numeric	10				I		
numeri -	10			[^{17]}	I		
numeri -	10						
numeri 🗸	10		m		-		
*				•			
				Modify	1		
					1		

5. Patient SafetyNet provides three (3) custom fields that can be modified by the user. The *CustomField* label itself can be changed by selecting the text and typing in a new field label.

CustomField1 CustomField2 CustomField3	alphanumeri - alphanumeri - alphanumeri -	10 10 10		4
< [Þ	
			Modify	

6. The *Data Type* can be selected as either alphanumeric or numeric. *Length* can be used to define how many characters the *Field* is limited to between 1 and 30 characters.

CustomField1 CustomField2 CustomField3	alphanumeri - alphanumeric numeric	10 10 10		
•			F	
			Modify	

Note: For example, this field could be used to add a telephone number (Phone). This adds a field for the telephone number at the bottom of the patient admit screen.

Palleni luenimer.	JHOWZZZa
Phone	9495551212

7. By selecting the *Show on Detail View* checkbox, this information will display in the detail view on the main screen.



8. When done, select *Modify* to save the changes.

System Policy User Authentication Policy

- 1. Select the *Configuration* icon on the Navigation bar.
- 2. Select the System Policy tab.

	Alarm Profiles Pagers Notification Settings Gateways System Settings System Policy							
	Authentication Policy: Authentication Timeout: Enable EMR Push: Enable Admit/Discharge:	Name+ Disable	Pin	• • (s)				
	Patient Prompt Mode Admit	Enable	Show 0	Dismiss 5				
	Discharge Same Patient Confirm		0	5				
Timeout units are in seconds * Authentication Timeout/Dismiss have a minimum of 5 seconds								
	Close							

- 3. The system administrator can configure the authentication level required for users to admit patients from applicable bedside devices (for more information see the Root Operator's Manual). The following settings can be modified:
 - Authentication Policy determines the level of credentials required for a user to access action on the device such as the patient admit and discharge feature from applicable bedside devices:
 - None: The device will not ask the user to authenticate.
 - Pin: The device will prompt the user to enter a PIN number to authenticate.
 - Name+Pin: The device will prompt the user to enter a username and PIN number to authenticate.
 - Name+Password: The device will prompt the user to enter a username and password to authenticate.
 - Authentication Timeout is a configured time that the system administrator can set to allow a user's authentication to remain valid, without interaction, before requiring the user to input their credentials again.:
 - Disable: The user will only need to authenticate (enter their credentials) once and the admit and discharge menu on the applicable device will remain open.
 - **N** seconds: The length of time a user's authentication remains valid, where **n** is the number of seconds. After the specified number of seconds has elapsed the admit and discharge menu will close requiring the user to input their credentials again.
 - Enable EMR Push, if checked, allows for the EMR Push feature to be enabled and the icon to be displayed on the bottom of the applicable bedside devices Main screen.
 - Enable Admit/Discharge, if checked, allows for the Admit/Discharge feature to be enabled and the icon to be displayed on the bottom of the applicable bedside devices Main screen.
 - Patient Prompt Mode allows the administrator to configure messages which will display on applicable devices. All three messages can be
 enabled by checking the applicable check box or disabled by not checking. The Show input field specifies the number of seconds a device
 will wait before displaying a particular prompt message. The Dismiss input field specifies the number of seconds a device will display a
 particular prompt message before removing the prompt. The prompt messages are as follows:
 - Admit Message: This message will display when the device enters an active monitoring state and there is no patient admitted to the device currently. The message will display after the configured time specified in the Show input field, it will disappear after the configured time specified in the Dismiss input field.

- Discharge Message: This message will display when the device exits an active monitoring state and there is a patient admitted to the device currently. The message will display after the configured time specified in the Show input field, it will disappear after the configured time specified in the Dismiss input field.
- Same Patient Confirm Message: This message will display when the device exits an active monitoring state and there is a patient admitted to the device currently and the device then enters an active monitoring state. The message will display after the configured time specified in the Show input field, it will disappear after the configured time specified in the Dismiss input field.
- 4. When done, select *Modify* to save the changes.

User Management

User

Add User

Note: On systems with LDAP enabled, the on-site network administrator creates users and assigns domains the user can access. The user is also added to a group and is given a Group ID by the network administrator, that is used when adding or modifying roles for the user. Only the *Remove* function of the *Users* menu is available for LDAP enabled systems.

- 1. Select the *Users* icon ⁴⁴ on the *Navigation* bar.
- 2. Select the *Add User* button.

Manage Users	×
Users	
administrator centralstation	Add User
defsupervisor	Modify
	Remove
Roles	
administrator central station	Add
respondent supervisory respondent	Modify
	Remove
MyView Profiles	
<noprofile></noprofile>	Add
	Modify
	Remove
Close	

3. Input the User Name, Password, and Pin (optional) into the text field. Confirm the Password and Pin (optional).

😃 Add User	— X —
User Name Password Password Confirm Pin Pin Confirm	
User	Role
	•
Responden Respondent Label Primary Domain	t Information
User	Profile
	•
Ba Hardware Address	dge
Domain	Allowed
Vefault do	main
ОК	Cancel

- 4. Assign a User Role if applicable from the drop down box.
- Assign a Respondent Information if applicable.
 Note: Respondent information can only be added to a user if the users role has respondent privileges.
- 6. Assign a User Profile if applicable from the drop down box.
- 7. Assign a Badge Hardware Address if applicable.
- 8. Select the domains the user can have access to.
- 9. Select *OK* and the new user is added.



Modify User

- 1. Select the Users icon an the Navigation bar.
- Select the User from the Users list.
 Note: When a user is selected, the defined role for the user is highlighted in the Role section.
- 3. Select the *Modify* button.
- Make changes to the Role, Profile, Respondent Information, Password, Pin, Badge Hardware Address, and/or assigned Domains.
 Note: On LDAP enabled systems, neither the *Role nor Password* cannot be changed, as they are assigned by the on-site network administrator.
- 5. Select *OK* to save the changes.

LDAP Disabled	LDAP Enabled
Modify User	Modify User
User nurse1 Role	User nurse1 Role
Respondent Information Respondent Label nurse1 Primary Domain default domain	Respondent Information Respondent Label <u>nurse1</u> Primary Domain <u>default domain</u>
<pre>Profile </pre>	Profile <noprofile></noprofile>
Change Password Change Password Change Pin	Change Pin Change Pin Badge
Change Pin	Hardware Address
Badge Hardware Address	Domain Allowed default domain
Domain Allowed	OK Cancel
OK Cancel	

Remove User

- 1. Select the Users icon ⁴⁸ on the Navigation bar.
- 2. From the *Users* list, highlight the desired user and select the *Remove* button.
- 3. Confirm you wish to remove the User by selecting Yes in the pop-up window.

Role

Add Role

The Patient SafetyNet System allows for the configuration of User Roles. Each Role created is assigned User *Privileges* that determine what functions the user may perform within the Patient SafetyNet System. Defining a Role is only required if the Role does not exist in the list.

- 1. Select the Users icon an the Navigation bar.
- 2. Under Roles, select *Add* to access the Role Properties window.



3. Input the Role name.

Note: The roll name must be less than 12 characters and only letters can be used.



- 4. Select OK.
- 5. Once a new Role has been created, the Privileges must be added under Modify Role.

Modify Role

CAUTION: If a role is modified, it affects all users associated with that modified role. A new role may be considered depending on the desired purpose of the role modifications.

- 1. Select the Users icon ⁴⁴ on the Navigation bar.
- 2. Select the *Role* from the Role list.
- 3. Select the *Modify* button.

Role	
nurse	
r	
Privile	ges
Available Privileges	Assigned Privileges
Generate Reports Admit Patients Change System Configuration Discharge Patients Edit POC Profiles Generate Data Export Generate Patient Reports Generate Patient Reports Manage Patient Display Manage Patient Display Manage Users Modify Device Alarm Limits Push EMR data through HL7 Gateway Respondent Silence Device Alarms Supervisory Respondent View POC Profiles	< Cancel

Note: On systems with LDAP enabled, the LDAP Group Identifier is displayed below the Role field.

Role	
Nurse	
LDAP Group Identifier:	10003

4. Privileges can be assigned or removed for the role. See Assign Privileges on page 93 or Remove Privileges on page 94.

Assign Privileges

- 1. Select the Role from the Roles list.
- 2. Select the *Modify* button.
- 3. Highlight the desired Privilege within the *Available Privileges* list.

Note: To select multiple items, hold the Ctrl key while selecting the items.

😃 Rol	e Properties	_	
Rol	e		
nurs	e		
r		Privileges	7
	Available Privileges		Assigned Privileges
Gen Adn Cha Discs Edit Gen Gen Mar Mar Mar Mar Mos Pusl Ress Siler Sup Viev	erate Reports it Patients nge System Configuration harge Patients POC Profiles erate Data Export erate Patient Reports erate Patient Summary Report hage Display hage Pager Assignments hage Patient Display hage Users Diffy Device Alarm Limits n EMR data through HL7 Gateway bondent nec Device Alarms ervisory Respondent v POC Profiles	>>> < < <	
	OK	Cancel	

- 4. Select the single right arrow button to assign the selected Privileges to the Role. To assign all available Privileges, select the double right arrow button.
- 5. Select OK to close the Role Properties.

Remove Privileges

- 1. Select the Role from the Roles list.
- 2. Select the *Modify* button
- Highlight the desired Privilege within the Assigned Privileges list.
 Note: To select multiple items, hold the Ctrl key while selecting the items.

Role Properties			
Role			
nurse			
r	Privile	ges	٦
Available Privileges			Assigned Privileges
Generate Reports Change System Configuration Discharge Patients		>	Admit Patients Generate Data Export Manage Pager Assignments
Edit POC Profiles		>>	Manage Users
Generate Patient Reports Generate Patient Summary Report Manage Display		<	Silence Device Alarms
Manage Patient Display Modify Device Alarm Limits Push EMR data through HL7 Gateway		<<	
Supervisory Respondent View POC Profiles			
<u>c</u>			
	ОК	Cancel	

- 4. Select the single left arrow hutton to remove the Privilege from the Role. To remove all the Assigned Privileges, select the double left arrow button
- 5. Select OK to set and close the Role Properties.

Remove Role

- 1. Select the Users icon en the Navigation bar.
- 2. Verify that no current Users are assigned to this Role.
- 3. From the *Roles* list, highlight the desired role and select the *Remove* button.
- 4. Confirm you wish to remove the Role by selecting Yes in the pop-up window.

Pager Setup and Operation

The Pager is worn by the clinician to provide notification of Alarm or Alert events from the device connected to the Patient SafetyNet System. Users must be fully trained on the features and operation of the Pager to ensure they can receive, read and properly respond to Alarm and Alert pages. For functions not listed in this manual, please refer to the pager manufacturer's manual.

Pager Setup

The Pager is configured to work on the same frequency with the Paging Transmitter. These settings are configured by Masimo personnel at the factory prior to shipment.

Battery Information

This Pager is designed to operate on one AA size alkaline battery (Do not use any other battery type other than AA alkaline). If the Pager main menu screen displays, "The Battery Level is low," replace the battery as described below. The correct time and any stored Messages will remain intact for up to one minute after removing the battery.

Note: Be sure to follow local regulations in regards to battery disposal.

Battery Installation and Removal



- Place the Pager face down or in the palm of your hand.
- Unlock the battery door lock by sliding it to the unlocked position.
- Push the battery door and slide it out as shown.
- Place a new battery into the battery compartment.
- Ensure that the battery polarity is correct as indicated by the housing.

To close, slide the battery door back into position and lock it.

Button Definition



1	Backward Button	navigate back
2	Forward Button	navigate forward
3	Up Button	navigate up
4	Down Button	navigate down/hold to quick access vibrate mode
5	Read/On Button	read messages/ hold to turn Pager on
6	Function Button	access the function menus

Pager On

Press and hold — for 2 seconds to turn on the Pager.

Pager Off

- Press [•] button once from the Main Menu screen to go to the Function Menu screen, then
- Press 🕨 button 5 times to select TURN OFF function.
- Press button, *TURN OFF* is displayed.
- Press button again to confirm turning your Pager off, or 🗢 button to cancel.

Backlight

- Press and hold \P for 2 seconds to turn ON the backlight manually.
- Press and hold for 2 seconds to turn OFF the backlight manually

Note: The pager should not be turned off while assigned to a device. Turning the pager off will result in missed pages to that pager.

Main Pager Menu Screen



1	Status Icon Display
2	Out of Range Indicator
3	Battery Level Indicator
4	Saved Folder
5	Unread Info Slot Counter
6	Info Folder
7	Unread Messages
8	Inbox Folder
9	Time and Date

The Pager returns to the Standby screen after the time-out period. Time, date and battery level indicators are displayed in the Standby screen. Press any button to return to the Main Menu Screen.

Receiving a Page

- When a page is received, it will be accompanied by a beep tone (and/or vibration) from the Pager. Press the button to acknowledge the page.
- The Pager has the ability to keep 40 pages on the Pager. When the number of pages has exceeded 40, the oldest read pages will be overwritten followed by the oldest unread pages.
- The information on the Pager will display the Patient Label, Alarm/Alert with Alarm Modifier (if present), applicable clinical value and Alarm Level.

Note: The pager supports English characters only. IF non-English characters were entered for the Patient Label when the patient was admitted, the device ID will be displayed on the pager.

Deleting a Page

From the main menu, with the Inbox selected, do the following



Low Battery Alert

When the battery is on low power, the Pager will emit an Alert every hour during the day (8 am to 8 pm).

Out of Range Alert

The Out of Range indicates that the Pager is not communicating with the Paging Transmitter. When this occurs, the **T** symbol appears on the Pager screen.

Patient SafetyNet Pages

Alarm Parameter	Alert Parameter	Parameter Modifiers
Rainbow Channel		
 SpO₂ High SpO₂ Low SpfO₂ Low* SpfO₂ Low* PR High PR Low SpHb High SpHb Low SpCO Low SpMet High SpMet Low PVI High PVI Low Pi High Pi Low RRa High RRA Low RRP High RRP Low SpOC Low ORI Low* Desat Index Pi Delta Respiratory Pause Low Battery 	 No Sensor Defective Sensor / Replace Sensor Interference Sensor Off Ambient Light Unrecognized Sensor Check Sensor Incompatible Sensor No Cable Connected Incompatible Cable Unrecognized Cable Replace Cable / Defective Cable Emitter Temp Out of Range Sensor Current Limit Exceeded No Adhesive Invalid Adhesive Defective Adhesive Replace Reusable No Acoustic Sensor Connected Defective Acoustic Sensor Acoustic Sensor Off Patient Bad Acoustic Sensor Incompatible Acoustic Cable Unrecognized Acoustic Sensor Incompatible Acoustic Cable No Acoustic Cable Connected Defective Adoustic Sensor No Acoustic Cable Connected Defective Acoustic Sensor Incompatible Acoustic Cable Unrecognized Acoustic Cable Unrecognized Acoustic Cable No Acoustic Cable No Resp Detected No AC Adhesive 	 Low Signal IQ Low Perfusion Low PR SIQ SpHb Low Confidence SpCO Low Confidence Low Pi SIQ Low PVi SIQ Low SpOC SIQ Low RR Confidence Low RR Signal Strength Patient Interference Background Interference
Cannography Channel	Delective AC Adhesive	
EtCO ₂ High EtCO ₂ Low FiCO ₂ High FiCO ₂ Low EtCO ₂ RR High EtCO ₂ RR Low	 Sensor Error Sampling Line Clogged No Breath Detected No Sampling Line Replace O₂ Sensor O₂ Port Failure EtCO₂ Accuracy Error FiCO₂ Accuracy Error O₂ Calibration Required Temperature Out of Range Ambient Pressure Out of Range Zeroing Required Agent ID Unreliable Multiple Agents Detected Capnography Disconnected 	

Alarm Parameter Alert Parameter		Parameter Modifiers	
SedLine Channel			
 PSI High PSI Low Suppression Ratio High Suppression Ratio Low 	 No Sensor Sensor Off Incompatible Sensor No Cable Sensor Life Expired Defective Sensor Incompatible Cable Cable Life Expired Defective Cable No Tape Incompatible Tape Defective Tape Tape Life Expired Impedance Value Indeterminate High Impedance Detected Gel Bridging Detected Improper Sensor Connection Patient Wait Replace Sensor – 24 Hr 		
Centroid Channel	I		
	 Centroid Disconnected Centroid Low Battery Centroid Standby Centroid Sensor Off Fall Detected Upright Detected Walking Detected Restricted Left Body Angle Violated Restricted Right Body Angle Violated Restricted Right Body Angle Violated Turn Due 		
System			
 Low Battery All Mute System Down Key Lock Auth Failure 			

* Parameter currently not available in the U.S.A. and territories relying on FDA market clearance.

Mobile Device Setup and Operation

The mobile device with the Masimo Replica application installed is worn by the clinician to provide parameter viewing and notification of Alarm or Alert events from the connected Patient SafetyNet System. Users must be fully trained on the features and operation of the Masimo Replica application to ensure they can receive, read and properly respond to Alarm and Alert pages. Please refer to **Operator's Manual for Replica** for complete operating instructions.

Chapter 10: Specifications

Note: Use only components and accessories approved by Masimo. The use of non-approved parts may produce unreliable system operation.

Touchscreen Clinician Assignment Station

Item	Description
CPU	Intel Core™ i-series Processor
Memory	8 GB
Storage	1 TB
Operating System	Windows 10 Professional
Audio	High Definition Audio
Speakers	Built-in
AC Power	100 – 240 V, 50/60 Hz
Screen Size	23.8 inches
LAN	10/100/1000 BaseT network interface
WLAN	802.11 a/b/g/n/ac
Bluetooth	Bluetooth v4.0 or higher
Physical Dimensions (H x W x D)	21.2 x 18.4 x 7.1 in (53.96 x 46.77 x 18.02 cm) (w/stand)
Weight	19.21 lbs (8.73 kg)
Video card (configuration dependent)	Intel HD Graphics

Patient SafetyNet Appliance

Item	Description
CPU	Quad-Core Intel Xeon 2.0 GHz
Memory	4 GB RAM
Storage	1 TB RAID 1 storage array
Management	Remote access capable
Operating System	Linux
LAN	Redundant Gigabit 10/100/1000 BaseT Ethernet NICs
AC Power:	Redundant power supplies (100 to 127 VAC, 200 to 240VAC, 50/60 Hz)
Operating Temperature	10°C to 35°C (50°F to 95°F)
Storage Temperature	-30°C to 60°C (-22°F to 140°F)
Operating Humidity	10% to 90% Relative Humidity
Storage Humidity	5% to 95% Relative Humidity
Physical Dimensions (H x W x D)	1.70 x 17.11 x 15.05 in (4.32 x 43.46 x 38.22 cm)
Weight (approximate range):	15.09 to 19.14 lb (6.9 to 8.7 kg)

Patient SafetyNet Virtual Machine

Host Device		
CPU	Minimum Quad-Core, 1.8 GHz	
Memory	Minimum 8 GB RAM	
Storage	Minimum 512 GB HDD storage array	

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Host Device	
Input/Output Connection	USB (for virtual port)

Supported Hypervisors	Version
VMware	V5.x
VMware	V6.x
KVM	RHEL7

Bedside Radio

Item	Description
Radio Standards	IEEE 802.11a/b/g TX Max Radiated EIRP FCC Part 15
Frequency Characteristics of Modulation	DSSS, OFDM
Encryption	WEP, TKIP, and AES
Authentication	Pre-Shared Key (PSK), EAP (TTLS, PEAP, and TLS); Mutual Authentication and Anonymous Outer Identity supported
Support Data Rates	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54, and MCS Rates 0-7
AC Power	110 to 240 VAC, 50/60 Hz
Temperature, Operating	32°F to 104°F (0°C to 40°C)
Dimensions (L x W x H)	6.5 x 3.3 x 1.2 in (16.5 x 8.5 x 3.0 cm)

Paging Transmitter

Item	Description
Frequency	UHF 440 to 470 MHz
Radio Standards (RF Type)	POCSAG Protocol FCC Part 15
Network Connection	Ethernet (RJ-45)
Frequency Characteristics of Modulation	FSK
Transmit Power	0.5, 2, and 5W
Data Throughput	512 to 1900 Baud
Data Integrity:	Messages digitally encoded with checksum
AC Power	110 to 240 VAC, 50/60 Hz
Temperature, Operating	32°F to 122°F (0°C to 50°C)
Dimensions (L x W x H)	10 x 8 x 2.7 in (255 x 230 x 70 mm)
Weight:	1.5 lbs (0.7 kg)

Pager

Item	Description
Display Type	LCD
Display Information	Origin & type of alarm, SpO_2 and $Pulse$ Rate, Level of alarm
Battery Power	One AA Alkaline Battery
Alarm Feature:	Tone and vibrate

Item	Description
Maximum Pagers/System	40
Dimensions (L x W x H)	3.2 x 2.1 x .75 in (80 x 54 x 19 mm)
Weight (with battery)	2.3 oz (65 g)

Mobile Device

Item	Specification
Operating System	Android 5.0 (Lollipop) or above

Supported Languages

Language			
Chinese	Finnish	Italian	Polish
Danish	French	Japanese	Spanish
Dutch	German	Norwegian	Swedish
English			

Compliance

Safety Standards Compliance
IEC 60601-1 3rd ed, Am 1
IEC 60601-1-2
IEC 60601-1-8
FCC Part 15

Troubleshooting

Issue	Resolution
Patient SafetyNet View: Hardware Authentication Failure	 The Patient SafetyNet USB Security Key is not inserted into the Patient SafetyNet Appliance Confirm the Patient SafetyNet USB Security Key is inserted into the Patient SafetyNet Appliance Contact Masimo Technical Services
Patient SafetyNet View: System Down	 Time allowed for Patient SafetyNet to run <i>without</i> the Patient SafetyNet Security Key has expired Confirm the Patient SafetyNet USB Security Key is inserted into the Patient SafetyNet Appliance Contact Masimo Technical Services
Patient SafetyNet View: Server Link Down	 Loss of communication to the Patient SafetyNet Appliance Confirm Appliance has power, booted up and is working properly Confirm connection to the network switch Confirm network switch has power and is working properly Confirm Ethernet cables are connected and working properly Contact BioMed Contact Masimo Technical Services
Patient SafetyNet View: Paging Link Down (Clinician Paging System)	 Connection is lost to the Paging Transmitter Confirm the Paging Transmitter has power and is working properly Ensure that the paging transmitter is connected to network switch Confirm network switch has power and is working properly Confirm Ethernet cables are connected and working properly Contact BioMed Contact Masimo Technical Services

Issue	Resolution
Patient SafetyNet View: Link to All Devices / AP / Network Down	No devices connected to system Confirm that there is at least one connected bedside device Confirm the Access Point(s) have power and functioning properly Confirm Access Point connection to the network switch Confirm network switch has power and is working properly Confirm Ethernet cables are connected and working properly Confirm power connected to wireless radios Contact BioMed
Patient SafetyNet Pager: <i>No Comm</i> message (Clinician Paging System)	 Bedside device has lost communication with the Patient SafetyNet System. The No Comm page will include a label to identify a bedside device. Confirm the bedside device has power and is functioning properly Confirm Radical Handheld is properly connected to Docking Station (If applicable) Confirm that there is power to the Bedside Radio and it is working properly Confirm that the serial cable from the bedside device to the bedside radio is securely connected Confirm Access Point(s) connection to the network switch Confirm network switch has power and is working properly Confirm Ethernet cables are connected and working properly Contact BioMed Contact Masimo Technical Services
Pager: Y symbol displays (Clinician Paging System)	 Pager is out of range from the Paging Transmitter or loss of communication to Patient SafetyNet Appliance Move back into range of the Paging Transmitter Confirm Appliance has power, booted up and is working properly Confirm the Paging Transmitter has power and is working properly Ensure that the paging transmitter is connected to network switch Confirm network switch has power and is working properly Confirm Ethernet cables are connected and working properly Contact BioMed Contact Masimo Technical Services
Patient SafetyNet Pager - displayed (Clinician Paging System) MyView Presence Tag	 The battery in the Patient SafetyNet Pager is low Replace the battery Note: Battery must be replaced within a 60 seconds. After 60 seconds, all the information on the Patient SafetyNet Pager will be deleted. For troubleshooting information, refer to the Masimo Presence Tag Directions For Use.

For technical information and assistance, contact Masimo Technical Services at 800-326-4890.

Routine Maintenance

For all Patient SafetyNet components, refer to the product manufacturer's instructions for cleaning.

Service and Repair

Repair Policy

Masimo or an authorized Service Department must perform warranty repair and service. Do not use malfunctioning equipment. Have the device repaired.

Clean contaminated and/or dirty equipment before returning, follow the procedure described in the product manufacturer's instructions for cleaning. Make sure the equipment is fully dry before packing.

To return the device for service, refer to Return Procedure on page 105.

Return Procedure

Clean contaminated/dirty equipment before returning, follow the product manufacturer's instructions for cleaning. Make sure the equipment is fully dry before packing. Call Masimo at 800-326-4890 and ask for Technical Support. Ask for an RMA number. Package the equipment securely, in the original shipping container if possible, and enclose or include the following information and items:

- A letter describing in detail any difficulties experienced with the Patient SafetyNet. Include the RMA number in the letter.
- Warranty information, a copy of the invoice or other applicable documentation must be included.
- Purchase order number to cover repair if the Patient SafetyNet is not under warranty, or for tracking purposes if it is.
- Ship-to and bill-to information.
- Person (name, telephone/Telex/fax number, and country) to contact for any questions about the repairs.
- A certificate stating the Patient SafetyNet has been decontaminated for bloodborne pathogens.
- Return the Patient SafetyNet to the shipping address listed in the Contacting Masimo section below.

Contacting Masimo

Masimo Corporation 52 Discovery Irvine, California 92618 Tel:+1 949 297 7000

Fax:+1 949 297 7001

Limited Warranty

Masimo warrants to the original end-user purchaser the Masimo-branded hardware product (Patient SafetyNet[™]) and any software media contained in the original packaging against defects in material and workmanship when used in accordance with Masimo's user manuals, technical specifications, and other Masimo published guidelines for a period of 12 months and any batteries for six (6) months from the original date the Product was obtained by the end-user purchaser.

Masimo's sole obligation under this warranty is the repair or replacement, at its option, of any defective Product or software media that is covered under the warranty.

To request a replacement under warranty, Purchaser must contact Masimo and obtain a returned goods authorization number so that Masimo can track the Product. If Masimo determines that a Product must be replaced under warranty, it will be replaced and the cost of shipment covered. All other shipping costs must be paid by purchaser.

Exclusions

The warranty does not apply to any non-Masimo branded product or any software, even if packaged with the Product, or any Product that was: (a) not new or in its original packaging when supplied to purchaser; (b) modified without Masimo's written permission; (c) supplies, devices, or systems external to the Product; (d) disassembled, reassembled, or repaired by anyone other than a person authorized by Masimo; (e) used with other products, like new sensors, reprocessed sensors, or other accessories, not intended by Masimo to be used with the Product; (f) not used or maintained as provided in the operator's manual or as otherwise provided in its labeling; (g) reprocessed, reconditioned, or recycled; and (h) damaged by accident, abuse, misuse, liquid contact, fire, earthquake or other external cause.

No warranty applies to any Product provided to Purchaser for which Masimo, or its authorized distributor, is not paid; and these Products are provided AS-IS without warranty.

Limitation of Warranty

Except as otherwise required by law or altered by the purchase agreement, the above warranty is the exclusive warranty that applies to the Product and software media, and Masimo does not make any other promises, conditions, or warranties regarding the Product. No other warranty applies, express or implied, including without limitation, any implied warranty of merchantability, fitness for a particular purpose, satisfactory quality, or as to the use of reasonable skill and care. See the licensing terms for the terms and conditions that apply to and Software accompanying the Product. Additionally, Masimo will not be liable for any incidental, indirect, special, or consequential loss, damage, or expense arising from the use or loss of use of any Products or Software. In no event shall Masimo's liability arising from any Product or Software (under contract, warranty, tort, strict liability, or otherwise) exceed the amount paid by purchaser for the Product or Software. The above limitations do not preclude any liability that cannot legally be disclaimed by contract.

Sales & End-User License Agreement

This document is a legal agreement between you ("purchaser") and Masimo Corporation ("Masimo") for the purchase of this Product ("Product") and a license in the included or embedded Software ("Software") except as otherwise expressly agreed in a separate contract for the acquisition of this Product, the following terms are the entire agreement between the parties regarding your purchase of this Product. If you do not agree to the terms of this agreement, promptly return the entire Product, including all accessories, in their original packages, with your sales receipt to Masimo for a full refund.

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Appendix

Patient SafetyNet Connection to External Notification Systems

Customers may elect to deploy their own End-User Notification Solution in conjunction with Patient SafetyNet. In this configuration an End-User notification solution (*Notification System*) would include a Notification Gateway and a Notification device. The term *Notification Gateway* means a user-provided communication interface, such as a paging transmitter, that receives Patient SafetyNet alarms and alerts notification messages (collectively, *Notification[s]*) and delivers them to Notification devices; and *Notification device(s)* means an instrument, such as a pager, that delivers the Notification to the End-User clinician. *End-User* means the hospital or other facilities where Patient SafetyNet is installed.

Warning: Under these circumstances, Patient SafetyNet is responsible for sending Alarm/Notifications to the End-User Notification System. Once a Notification has been appropriately sent by Patient SafetyNet, per Masimo's network specifications, to the Customer's Notification System, the Customer is responsible for, and Masimo cannot be held liable for, any failure of Customer's Notification System to receive and transmit that Notification to the End-User.

In this configuration, Masimo recommends the following:

- The End-User should perform a risk analysis prior to installation, before actively monitoring patients. Additional risk analysis should be performed when any changes or modifications have been made to the End-User Notification System.
- Perform testing of the End-User Notification System. The following table lists the minimum recommended tests to be performed.

	Tasks	Actions	Results
1	Verify communication between the Patient SafetyNet Appliance and Notification Gateway.	Ping the following instruments the Notification Gateway from the Appliance.	Ping Statistics Notification Gateway:
2	 Profile End-User Notification System traffic and identify peak notification times. Assess performance and verify that Notifications are received by all Notification devices in all areas where clinicians will be within the patient care area during peak notification times. 	Send a Test Page to all Notification devices in all Care Areas during peak notification times.	Notification device(s) Results <location>: Peak Time:</location>
3	Verify that all information from Masimo Notifications are received.	 Admit a test patient to a Masimo instrument in the Patient SafetyNet System. In the label field, enter <i>Test</i>. Approve the alarms. Under Assignments select the applicable notification device to receive the test notifications and select <i>Admit</i>. Generate alarms from the connected instrument. Confirm Notification device received Label, Notification type, Notification value and Escalation in full. 	Notification device(s) Results
4	Verify Notification messages from Masimo Patient SafetyNet are at a higher priority than general notifications.	Confirm configuration in Notification System	
5	Verify Notification device indicates when it is unable to receive notifications from the Notification System (i.e. Out of Range, Interference, Defective, etc.)	Provide documentation related to the Notification device	
6	Verify Notification System has the ability to store and retransmit Notifications that it was unable to send	Provide documentation related to Notification System	
7	Verify the Notification device has a battery indicator	Provide documentation related to Notification device	
8	Verify the Notification device has a low battery notification	Provide documentation related to Notification device	
ç	Verify that the Notification device cannot be turned off with a single key press.	Provide documentation related to Notification device	

Reports Glossary Clinical Events

Alarm Parameter	Notification	Definition
SpO ₂ High	SpO ₂ HIGH	SpO ₂ parameter exceeds high threshold
SpO ₂ Low	SpO ₂ LOW	SpO ₂ parameter exceeds low threshold
SpfO ₂ High*	SpfO ₂ HIGH	SpfO ₂ parameter exceeds high threshold
SpfO2 Low* SpfO2 LOW SpfO2 parameter exceeds low threshold		
PR High	PR HIGH	Pulse rate parameter exceeds high threshold

Alarm Parameter	Notification	Definition
PR Low	PR LOW	Pulse rate parameter exceeds low threshold
RRa High	RRA HIGH	Acoustic respiration rate parameter exceeds high threshold
RRa Low	RRA LOW	Acoustic respiration rate parameter exceeds low threshold
RRp High	RRP HIGH	RRp parameter exceeds high threshold
RRp Low	RRP LOW	RRp parameter exceeds low threshold
EtCO ₂ RR High	EtCO ₂ RR HIGH	EtCO ₂ RR parameter exceeds high threshold
EtCO ₂ RR Low	EtCO ₂ RR LOW	EtCO ₂ RR parameter exceeds low threshold
EtCO ₂ High	EtCO ₂ HIGH	EtCO ₂ parameter exceeds high threshold
EtCO ₂ Low	EtCO ₂ LOW	EtCO ₂ parameter exceeds low threshold
SpHb High	SPHB HIGH	SpHb parameter exceeds high threshold
SpHb Low	SPHB LOW	SpHb parameter exceeds low threshold
SpCO High	SPCO HIGH	SpCO parameter exceeds high threshold
SpCO Low	SPCO LOW	SpCO parameter exceeds low threshold
SpMet High	SPMET HIGH	SpMet parameter exceeds high threshold
SpMet Low	SPMET LOW	SpMet parameter exceeds low threshold
FiCO ₂ High	FiCO ₂ HIGH	FiCO ₂ parameter exceeds high threshold
FiCO ₂ Low	FiCO ₂ LOW	FiCO ₂ parameter exceeds low threshold
PVi High	PVi HIGH	PVi parameter exceeds high threshold
PVi Low	PVi LOW	PVi parameter exceeds low threshold
Pi High	Pi HIGH	Pi parameter exceeds high threshold
Pi Low	Pi LOW	Pi parameter exceeds low threshold
SpOC High	SPOC HIGH	SpOC parameter exceeds high threshold
SpOC Low	SPOC LOW	SpOC parameter exceeds low threshold
PSI High	PSI HIGH	PSI parameter exceeds high threshold
PSI Low	PSI LOW	PSI parameter exceeds low threshold
ORi High*	ORi High	ORi parameter exceeds high threshold
ORi Low*	ORi LOW	ORi parameter exceeds low threshold
Desaturation Index	DESAT INDEX	When Desaturation Index alarm is triggered based on user defined values, see Radical-7 Operator's Manual for more information.
Pi Delta	Pi DELTA	When Pi Delta alarm is triggered based on user defined values, see Radical-7 Operator's Manual for more information.
Respiratory Pause	RESP PAUSE	Acoustic sensor has detected a respiratory pause. See sensor Directions For Use.
Low Battery	INST BATT LOW	Instrument battery is low

Note: Displayed alarm parameters may depend on the monitoring bedside device.

* Parameter currently not available in the U.S.A. and territories relying on FDA market clearance.

Non-Clinical Events

Alert Parameter	Notification	Definition
No Breath Detected	NO BREATH DETECTED	No breath detected. See capnography module Operator's Manual
All Mute	ALL MUTE	Instrument is in an All Mute state.
No Sensor	NO SENSOR	No sensor detected as being attached to the patient cable.
Defective Sensor	DEFECTIVE SENSOR / REPLACE SENSOR	Sensor appears to be defective.
Interference	INTERFERENCE	Ambient light interference is detected by sensor.
Sensor Off	SENSOR OFF	The sensor is off the patient.
Unrecognized Sensor	UNRECOGNIZED SENSOR	Instrument does not recognize sensor.

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Alert Parameter	Notification	Definition
Incompatible Sensor	INCOMPATIBLE SENSOR	An Incompatible sensor has been detected
Check Sensor	CHECK SENSOR	Check the sensor placement to ensure that emitter and detector are in alignment.
No Cable Connected	NO CABLE CONNECTED	Cable is disconnected from the instrument.
Incompatible Cable	INCOMPATIBLE CABLE	Instrument is incompatible with cable.
Unrecognized Cable	UNRECOGNIZED CABLE	Instrument does not recognize cable.
Defective Cable	DEFECTIVE CABLE / REPLACE CABLE	Cable is defective.
Emitter Temp Out of Range	EMITTER TEMP OUT OF RANGE	The sensor emitter temperature is out of range of operation.
Sensor Current Limit Exceeded	SENSOR CURRENT LIMIT EXCEEDED	The sensor has exceeded the current limit.
No Adhesive	NO ADHESIVE	Adhesive on sensor has not been detected
Incompatible Adhesive	INCOMPATIBLE ADHESIVE	An incompatible adhesive on sensor has been detected
Invalid Adhesive	INVALID ADHESIVE	Instrument detects invalid adhesive.
Defective Adhesive	DEFECTIVE ADHESIVE	The adhesive is defective.
No Acoustic Sensor Connected	NO AC SENSOR	Instrument does not detect acoustic sensor connected.
Defective Acoustic Sensor	DEFECTIVE AC SENSOR	The acoustic sensor is defective.
Acoustic Sensor Off Patient	AC SENSOR OFF	The acoustic sensor is disconnected from the patient.
Bad Acoustic Sensor Placement	BAD AC SENSOR PLACEMENT	The acoustic sensor is incorrectly placed.
Unrecognized Acoustic Sensor	UNRECOGNIZED AC SENSOR	Instrument does not recognize the acoustic sensor.
Incompatible Acoustic Sensor	INCOMPATIBLE AC SENSOR	The acoustic sensor is incompatible with the instrument.
No Acoustic Cable Connected	NO AC CABLE CONNECTED	There is not acoustic cable connected.
Incompatible Acoustic Cable	INCOMPATIBLE AC CABLE	The acoustic cable is incompatible with the instrument.
Unrecognized Acoustic Cable	UNRECOGNIZED AC CABLE	Instrument does not recognize acoustic cable.
Defective Acoustic Cable	DEFECTIVE AC CABLE	The acoustic cable is defective.
No AC Adhesive	NO AC ADHESIVE	Acoustic sensor adhesive has not been detected
Incompatible AC Adhesive	INCOMPATIBLE AC ADHESIVE	Incompatible acoustic sensor adhesive has been detected
Defective AC Adhesive	DEFECTIVE AC ADHESIVE	A defective acoustic sensor adhesive has been detected
(CO ₂) Sensor Error	SENSOR ERROR	Capnography module sensor error. See capnography module Operator's Manual
(CO ₂) Sampling Line Clogged	(CO ₂) SAMPLING LINE CLOGGED	Sampling line is clogged. See Nomoline Directions For Use
(CO ₂) Replace O ₂ Sensor	(CO ₂) REPLACE O ₂ SENSOR	Replace capnography module O_2 sensor. See capnography module Operator's Manual
(CO ₂) Calibration Required	(CO ₂) CALIBRATION REQ	Capnography module requires calibration. See capnography module Operator's Manual
(CO ₂) Temp Out Of Range	(CO ₂) TEMP OUT OF RANGE	Capnography module temperature is out of range. See capnography module Operator's Manual
(CO ₂) Pressure Out Of Range	(CO ₂) PRESSURE OUT OF RANGE	Capnography module pressure is out of range. See Capnography module Operator's Manual
(CO ₂) Zeroing Required	(CO ₂) ZEROING REQUIRED	Capnography module requires zeroing. See capnography module Operator's Manual
(CO ₂) No Sampling Line	(CO ₂) NO SAMPLING LINE	No sampling line detected. See Nomoline Directions For Use
(CO ₂) O ₂ Port Failure	(CO ₂) O ₂ PORT FAILURE	Capnography module port has failed. See capnography module and Root Operator's manual
Agent Id Unreliable	(CO ₂) AGENT ID UNRELIABLE	Agent id unreliable, See capnography module Operator's Manual
Multiple Agents Detected	(CO ₂) MULTIPLE AGENTS DETECTED	Multiple agents detected, See capnography module Operator's Manual
Capnography Disconnected	CAPNOGRAPHY DISCONNECTED	Capnography module is disconnected. See capnography module Operator's Manual
EMG No Cable	(EMG) NO CABLE	No SedLine cable detected. See SedLine Operator's Manual
EMG Incompatible Cable	(EMG) INCOMPATIBLE CABLE	Cable attached to SedLine module is incompatible. See SedLine Operator's Manual
EMG Cable Life Expired	(EMG) CABLE LIFE EXPIRED	SedLine cable has expired. See SedLine Operator's Manual
EMG Defective Cable	(EMG) DEFECTIVE CABLE	SedLine cable is defective. See SedLine Operator's Manual
EMG No Sensor	(EMG) NO SENSOR	No SedLine sensor detected. See SedLine Operator's Manual
EMG Incompatible Sensor	(EMG) INCOMPATIBLE SENSOR	Sensor attached to SedLine cable is incompatible. See SedLine Operator's Manual
EMG Sensor Life Expired	(EMG) SENSOR LIFE EXPIRED	SedLine sensor has expired. See SedLine Operator's Manual

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Alert Parameter	Notification	Definition
EMG Defective Sensor	(EMG) DEFECTIVE SENSOR	Sedline sensor is defective. See SedLine Operator's Manual
EMG Sensor Off	(EMG) SENSOR OFF	SedLine sensor is off patient. See SedLine Operator's Manual
EMG No Tape	(EMG) NO TAPE	No SedLine sensor adhesive detected. See SedLine Operator's Manual
EMG Incompatible Tape	(EMG) INCOMPATIBLE TAPE	Sedline sensor adhesive is incompatible. See SedLine Operator's Manual
EMG Defective Tape	(EMG) DEFECTIVE TAPE	SedLine sensor adhesive is defective. See SedLine Operator's Manual
EMG Tape Life Expired	(EMG) TAPE LIFE EXPIRED	SedLine sensor adhesive has expired. See SedLine Operator's Manual
EMG High Impedance	(EMG) HIGH IMPEDANCE	High impedance detected. See SedLine Operator's Manual
EMG Impedance Value Indeterminate	(EMG) BAD IMPEDANCE	Impedance Value Indeterminate. See SedLine Operator's Manual
EMG Gel Bridging	(EMG) GEL BRIDGING	Problem with Gel Bridging. See SedLine Operator's Manual
Improper Sensor Connection	(EMG) IMPROPER SENSOR CONN	Improper SedLine sensor connected. See SedLine Operator's Manual
Sedline Disconnected	SEDLINE DISCONNECTED	SedLine module disconnected. See SedLine and Root Operator's Manual
Centroid Disconnected	CENTROID DISCONNECTED	Centroid sensor is disconnected
Centroid Low Battery	CENTROID LOW BATTERY	Centroid sensor battery is low
Centroid Standby	CENTROID STANDBY	Centroid sensor is in standby mode
Centroid Sensor Off	CENTROID SENSOR OFF	Centroid sensor is off the patient
Fall Detected	FALL DETECTED	Patient fall detected
Upright Detected	UPRIGHT DETECTED	Patient standing detected
Walking Detected	WALKING DETECTED	Patient walking detected
Restricted Left Body Angle Violated	RESTRICTED LEFT BODY ANGLE VIOLATED	Left position is restricted and patient moved to left position
Restricted Supine Body Angle Violated	RESTRICTED SUPINE BODY ANGLE VIOLATED	Supine position is restricted and patient moved to supine position
Restricted Right Body Angle Violated	RESTRICTED RIGHT BODY ANGLE VIOLATED	Right position is restricted and patient moved to right position
Turn Due	TURN DUE	Patient position duration exceeded position duration value

Modifiers

Modifier Parameter	Notification	Definition
Patient Interference	PAT INTERFERENCE	Acoustic sensor detects interference from the patient.
Background Interference	BACKGROUND INTERFERENCE	Acoustic sensor detects interference from the room.
Low SIQ	SIQ LOW	Instrument detects low SIQ at sensor site.
Low Perfusion	LOW PERF	Instrument detects low perfusion at sensor site.
Low PR SIQ	LOW PR SIQ	Instrument detects low pulse rate SIQ at sensor site.
Low EtCO ₂ SIQ	LOW EtCO ₂ SIQ	Instrument detects low EtCO ₂ SIQ at sensor site.
Low RR Confidence	LOW RR SIQ	Instrument detects low confidence of respiration rate at sensor site.
Low RR Signal Strength	LOW RR SIG STR	Instrument detects weak signal of respiration rate at sensor site.
SpHb Low Confidence	LOW SPHB SIQ	Instrument detects low confidence of SpHb at sensor site.
SpCO Low Confidence	LOW CO SIQ	Instrument detects low confidence of SpCO at sensor site.
SpMet Low Confidence	LOW MET SIQ	Instrument detects low confidence of SpMet at sensor site.
Low FiCO ₂ SIQ	LOW FiCO ₂ SIQ	Instrument detects low FiCO $_2$ SIQ at sensor site.
Low PVi SIQ	LOW PVi SIQ	Instrument detects low Pleth Variability Index SIQ at sensor site.
Low Pi SIQ	LOW Pi SIQ	Instrument detects low Perfusion Index SIQ at sensor site.
Low SpOC SIQ	LOW SPOC SIQ	Instrument detects low SpOC SIQ at sensor site.
Low PSI SIQ	LOW PSI SIQ	Instrument detects low PSI SIQ at sensor site.

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