

PHILIPS

University

IntelliSpace Connect

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V1.0

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Introduction

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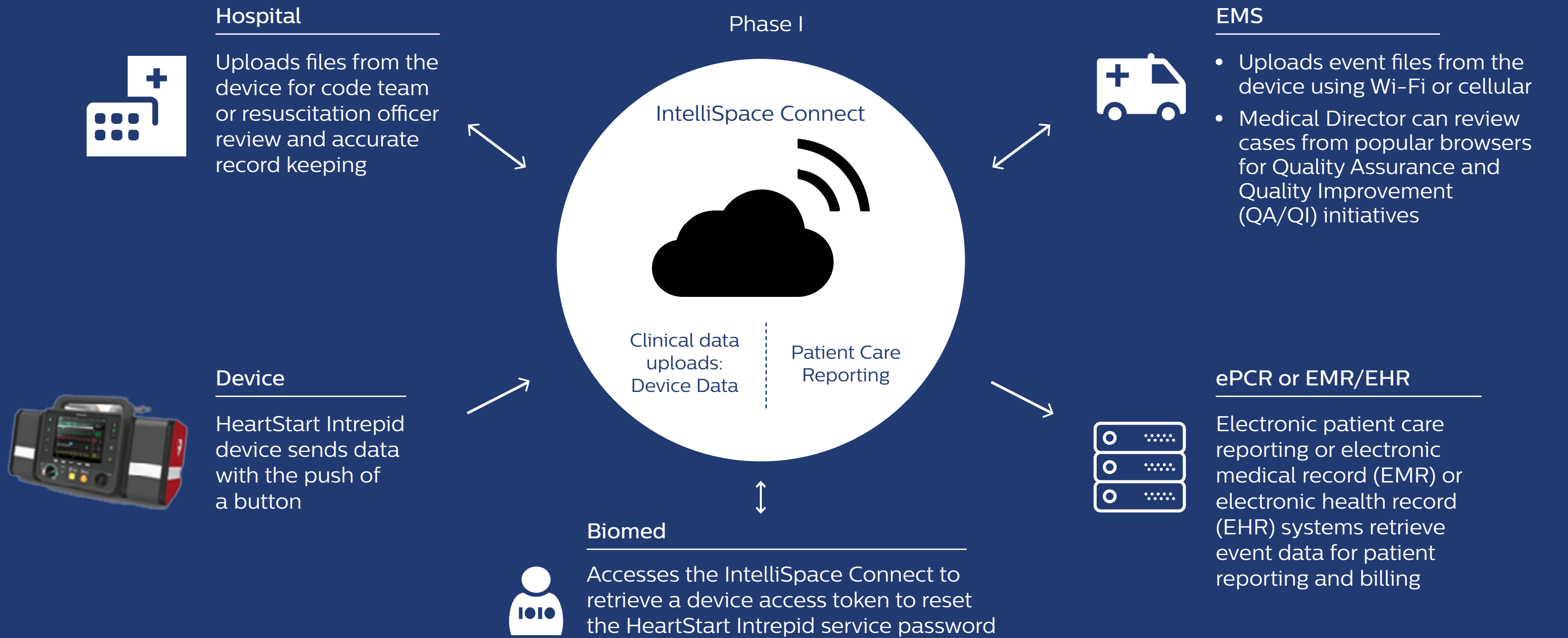
Security and
privacy and
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Conclusion

Click on “Contents” to
navigate back to this page.

IntelliSpace Connect: integrated data management solution

IntelliSpace Connect is the cloud data management solution connecting the HeartStart Intrepid device. The cloud enables customers to implement state-of-the-art solutions with little investment. With cloud Software as a Service (SAAS), there is no need to buy or maintain expensive servers, install software, or have additional investment in IT resources.

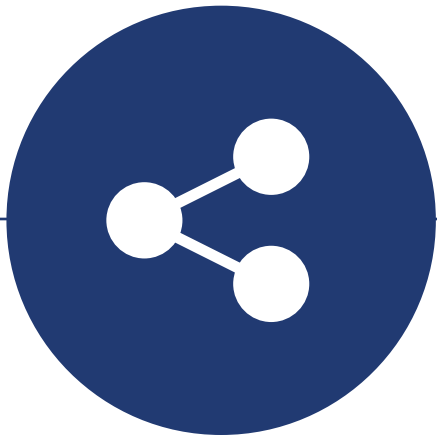


IntelliSpace Connect across the care continuum



Manage

- You can easily manage users and view devices with browser-based administration tools.
- As IntelliSpace Connect is cloud based, there is no need to purchase and maintain hardware or install software.
- The device access token adds a layer of security to the HeartStart Intrepid monitor/defibrillator. If a device service password is forgotten, a device access token can be securely retrieved from IntelliSpace Connect for the HeartStart Intrepid device service password reset function.



Connect

- You can securely send data from the HeartStart Intrepid to IntelliSpace Connect with the push of a button.
- IntelliSpace Connect seamlessly integrates with an ePCR or EMR/EHR through an API.



Review

- Browser-based post event review of cases enables QA/QI initiatives—Quality Assurance and Quality Improvement initiatives are undertaken to ensure protocols are followed and effective.
- Securely stored data is available for advanced analytics.
- Data can be accessed from popular browsers such as Microsoft IE or Google Chrome.



Report

- Through IntelliSpace Connect, you can generate preconfigured reports:
- Pre- and post-shock ECG
 - Vital trends
 - 12-lead
 - And more

IntelliSpace Connect applications

IntelliSpace Connect
platform

The IntelliSpace Connect platform has administration tools that facilitate easy management of users and connections as well as viewing devices and an audit log.

IntelliSpace Connect
Device Data

Patient Care
Reporting

IntelliSpace Connect platform administrator tools

Administration features facilitate easy management of users and connections, and viewing devices and audit log.

Click each tab to know more about these features.



IntelliSpace Connect platform administrator tools

Administration features facilitate easy management of users and connections, and viewing devices and audit log.

Click each tab to know more about these features.

Create accounts

The screenshot displays the IntelliSpace Connect Administration interface. The top navigation bar includes 'IntelliSpace Connect', 'Administration' (highlighted with an orange box), 'Help', and a user profile dropdown 'LastName, OpsChief.Jones'. Below the navigation bar, the 'Users' tab is selected and highlighted with an orange box. A table lists existing users with columns for 'Last Name', 'First Name', and 'User Name (email)'. The user 'OpsChief.Jones' is highlighted. To the right of the table, a '+ Add a new user' button is highlighted with an orange box. A modal form titled 'USER INFORMATION' is open, showing fields for 'First Name' (OpsChief.Jones), 'Last Name' (LastName), 'Default Application' (Administration), 'Language Preferences' (English (United States)), and 'Time Zone' ((UTC-05:00) Eastern Time (US & ...)). The modal also includes 'Cancel' and 'Save' buttons at the bottom.

Last Name	First Name	User Name (email)
LastName	EmsChiefSmith	EmsChiefSmithMajorMetro@example.com
LastName	MedDirDrMarcus	MedDirDrMarcusMajorMetro@example.com
LastName	OpsChief.Jones	OpsChief.JonesMajorMetro@example.com
LastName	TrainingCoGoodman	TrainingCoGoodmanMajorMetro@example.com

- You can easily create new accounts from any browser.
- Role-based management ensures privacy and security.

IntelliSpace Connect platform administrator tools

Administration features facilitate easy management of users and connections, and viewing devices and audit log.

Click each tab to know more about these features.

Manage devices

IntelliSpace Connect

Administration

Help

LastName, OpsChief Jones

Organizations

Users

Devices

Connections

Audits

Name	Serial Number	Model	Device Type	Software Revision
Mnx3	DD00000003	MRx		B.00.nnn
Mnx4	DD00000004	MRx		B.00.nnn
Mnx5	DD00000005	MRx		B.00.nnn
Mnx6	DD00000006	MRx		B.00.nnn
Mnx7	DD00000007	MRx		B.00.nnn
Mnx8	DD00000008	MRx		B.00.nnn
Mnx9	DD00000009	MRx		B.00.nnn
Rubicon11	US00556348	Rubicon		B.00.nnn
Rubicon12	US00318540	Rubicon		B.00.nnn
Rubicon13	US00534036	Rubicon		B.00.nnn
Rubicon14	US00101870	Rubicon		B.00.nnn
Rubicon15	US00211098	Rubicon		B.00.nnn
Rubicon16	US00211099	Rubicon		B.00.nnn

DEVICE INFORMATION

Major Metro EMS

Profile

Name

Mnx8

Manufacturer

Philips

Serial Number

DD00000008

Model Number

Device Type

MRx

Software Revision

B.00.nnn

Language

Please Choose

Cancel

Save

- You can easily see associated devices.
- You can add a friendly name for each device, such as ambulance number or hospital location.

IntelliSpace Connect platform administrator tools

Administration features facilitate easy management of users and connections, and viewing devices and audit log.

Click each tab to know more about these features.

Add EMR or ePCR connections

IntelliSpace Connect

Administration

Help

LastName, OpsChief.Jones

Organizations

Users

Devices

Connections

Audits

Destination

Contact Name

Contact Email

Created On

Status

Good Samaritan Community Hospital	LastName,AdminJoe	Admin.JoeGoodSamaritan@example.com	01-Jan-0001	Active
ePCR Vendor in Seattle	LastName,one	DmsgOneEpcr@example.com	01-Jan-0001	Active
Merci Hospital			06-Mar-2019	Pending

CONNECTION INFORMATION

Major Metro EMS => Good Samaritan Community Hospital

Profile

Contact Name

LastName,AdminJoe

Contact Email

Admin.JoeGoodSamaritan@example.com

Association Type

Inbound Alert Destination

Created On

01-Jan-0001

Status

Active

- You can add an ePCR or EMR connection from the dashboard.
- Records company must be set up in the system and agree to integration.

IntelliSpace Connect platform administrator tools

Administration features facilitate easy management of users and connections, and viewing devices and audit log.

Click each tab to know more about these features.

View audit logs

IntelliSpace Connect					Help ▾	LastName, OpsChiefJones ▾	
Administration ▾							
Organizations	Users	Devices	Connections	Audits			
Date	Type	Category	Action	User Name (email)			
06-Mar-2019 16...	Operations Mana...	Manage Organiz...	View Connection	OpsChief.JonesM...			
06-Mar-2019 16...	Operations Mana...	Manage Organiz...	Send Connection...	OpsChief.JonesM...			
06-Mar-2019 16...	Operations Mana...	Manage Organiz...	View Connection	OpsChief.JonesM...			
06-Mar-2019 16...	Operations Mana...	Manage Organiz...	Search Organizat...	OpsChief.JonesM...			
06-Mar-2019 16...	Operations Mana...	Manage Organiz...	Search Organizat...	OpsChief.JonesM...			
06-Mar-2019 16...	Operations Mana...	Manage Organiz...	Search Organizat...	OpsChief.JonesM...			
06-Mar-2019 16...	Operations Mana...	Manage Organiz...	Search Organizat...	OpsChief.JonesM...			
06-Mar-2019 16...	Operations Mana...	Manage Organiz...	Disconnect	OpsChief.JonesM...			
06-Mar-2019 16...	Operations Mana...	Manage Organiz...	View Connection	OpsChief.JonesM...			
06-Mar-2019 16...	Operations Mana...	Manage Device	Get Devices	OpsChief.JonesM...			
06-Mar-2019 16...	Operations Mana...	Manage User	Get Users	OpsChief.JonesM...			
06-Mar-2019 16...	Operations Mana...	Manage User	Remove User	OpsChief.JonesM...			

- Audit logs enable compliance to standards
- Usage details are captured for detailed record keeping

IntelliSpace Connect applications

IntelliSpace Connect
platform

IntelliSpace Connect
Device Data

Patient Care
Reporting

Data is securely sent from the HeartStart Intrepid device to IntelliSpace Connect seamlessly, making it available for ePCR or EMR/EHR integration and post-event review. This feature allows users to review the patient case data from monitor/defibrillators. Patient case data includes 12-lead ECG, vitals and event summaries.

Device data: dashboard

There is a dashboard to view cases uploaded from HeartStart Intrepid. You can easily review an event: 12-leads, vitals, or case summary. You can also generate preconfigured summary reports.

Click each button to know more about it.

IntelliSpace Connect

Device Data

Help

Activity

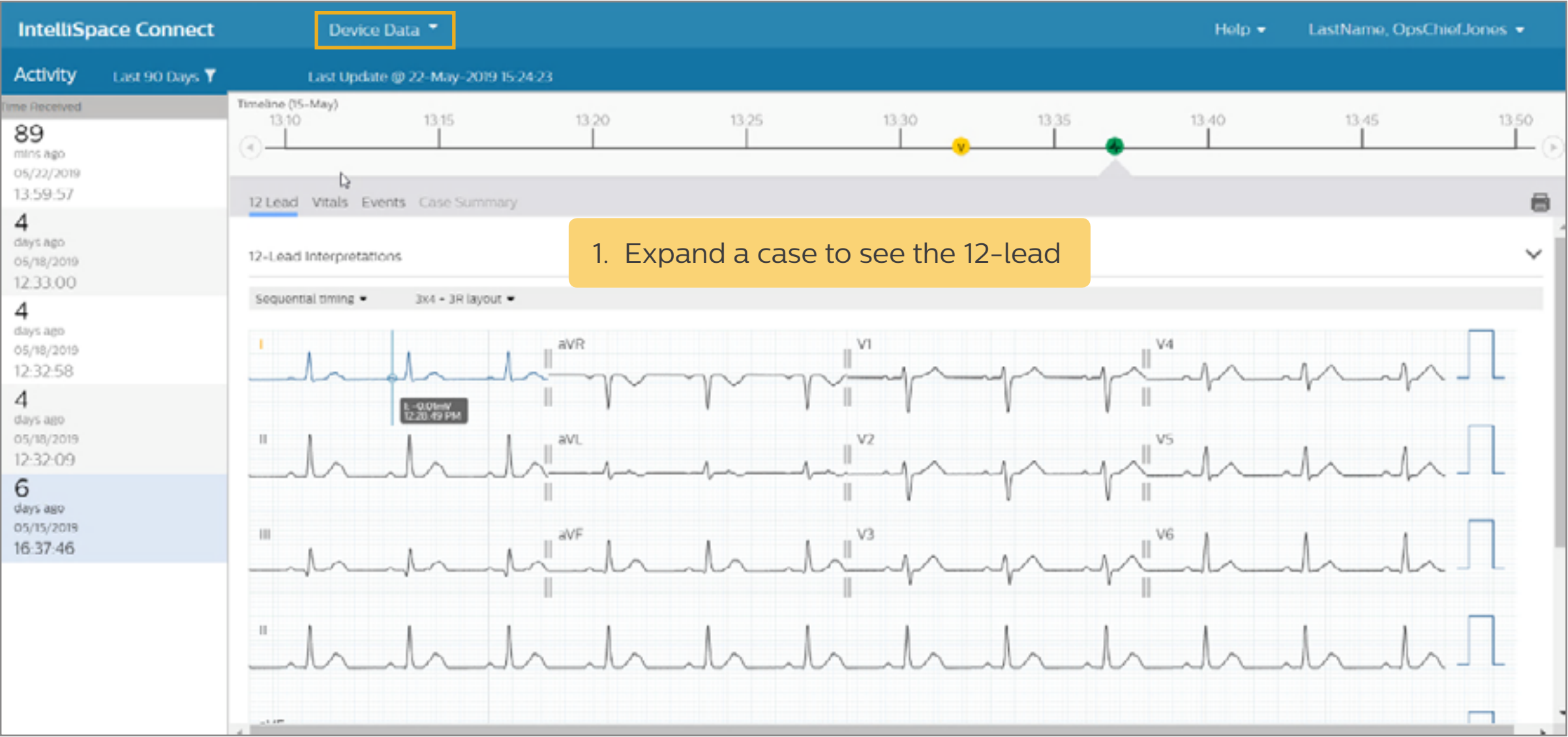
Last 90 Days

Last Update @ 23-May-2019 19:09:02

Time Received	Patient Info	12-Leads	Vitals	Case Summary
1 days ago 05/22/2019 13:59:57	Female 55 yrs Major Metro EMS HeartStart Intrepid: CN73900034			
5 days ago 05/18/2019 12:33:00	-- -- Major Metro EMS HeartStart Intrepid: CN73900091			
5 days ago 05/18/2019 12:32:58	Female 10 yrs Major Metro EMS EMS Major Metro HeartStart Intrepid: CN73900088			
5 days ago 05/18/2019 12:32:09	Female 50 yrs Major Metro EMS EMS Major Metro HeartStart Intrepid: CN73900091			
8 days ago 05/15/2019 16:37:46	Female 14864573 yrs Major Metro EMS HeartStart Intrepid: CN73900082			

Device data: 12-Leads

Clicking the **12-Leads** button or the case file displays the 12-lead ECG.



Device data: 12-Leads display formats

You can also view 12-leads in different available layouts.



2. Choose how you want to view the 12-lead

Click on each circle for more information.



Device data: 12-lead display formats

You can also view 12-Lead in different available layouts.



3. Take a closer look or zoom in on the waveform by double clicking the waveform or by using a touchpad.

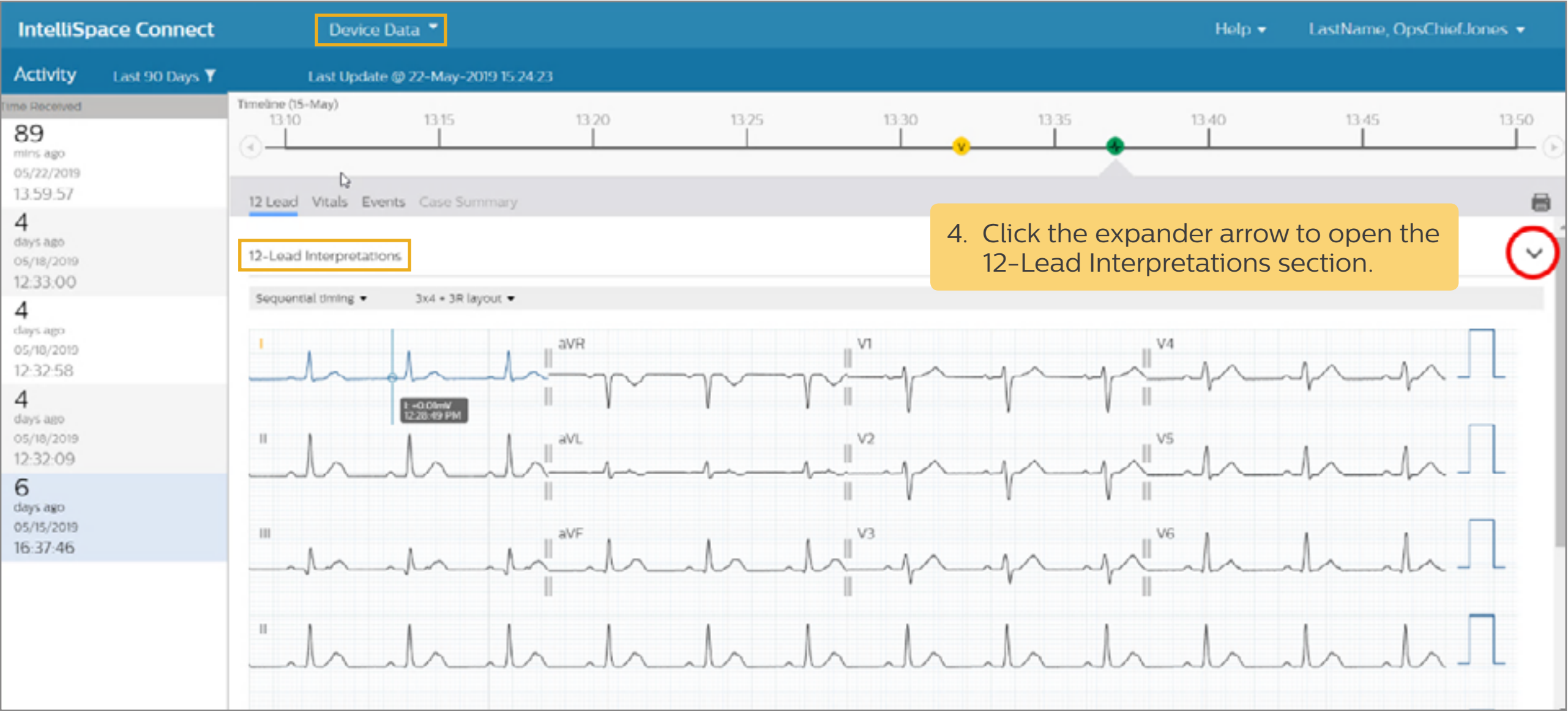
The sweep line follows the cursor's movement on the waveform.

Click on each circle for more information.



Device data: 12-lead summary

The feature also provides a summary display of 12-lead ECG



Click on each circle for more information.



Device data: 12-lead summary

The feature also provides a summary display of 12-lead ECG

IntelliSpace Connect

Device Data

Help

LastName, OpsChiefJones

Activity

Last 90 Days

Last Update @ 22-May-2019 15:05:08

Time Received

65 mins ago
05/22/2019
13:59:57

4 days ago
05/18/2019
12:33:00

4 days ago
05/18/2019
12:32:58

4 days ago
05/18/2019
12:32:09

6 days ago
05/15/2019
16:37:46

Timeline (25-Apr)

10:15 10:20 10:25 10:30 10:35 10:40 10:45 10:50 10:55

12 Lead Vitals Events Case Summary

12-Lead Interpretations

Previous Next Page 1 of 1

Patient ID	QCA388A4A320190425103519	Date	2019-04-25T10:44:49		Institution	Philips
Medication		Name			Department	1110
History		Height		Weight	Room	
Age	50 yrs	BP	***/**	Race		
Gender	Male					

Rate		Axes		
PR			P	
QRSd	234		QRS	5
QT	442		T	
QTc	704			

Algorithm Standard

Operator

Requested by

• Extreme tachycardia with wide complex, no further rhythm analysis attempted>>> Very High Heart Rate <<<

- ABNORMAL ECG -

Sequential timing 3x4 - 3R layout

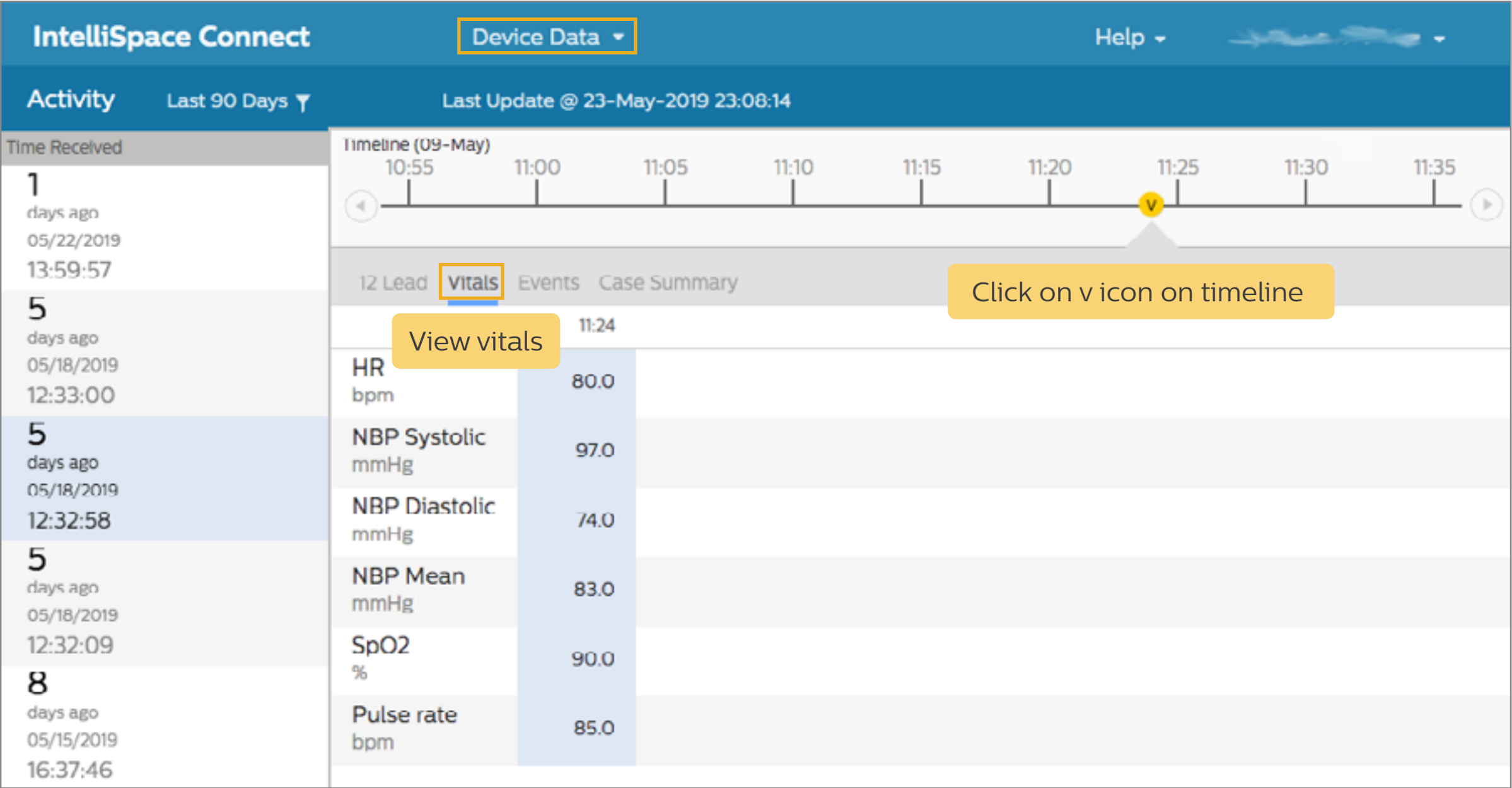
Click on each circle for more information.



View a 12-lead summary

Device data: vitals

Clicking the **Vitals** tab displays the vital information. Clicking the Events tab displays event acquired information.



Device data: case summary reports

Clicking the **Case Summary** tab displays the case summary reports.

Click each report to learn more about it.

IntelliSpace Connect

Device Data

Help

MedDir, Marcus

ACTIVITY

Last 90 Days

Last Update @ 17-Apr-2019 15:13:43

Time Received	Patient Info
5 days ago 04/15/2019 21:04:01	Female 50 yrs Major Metro EMS HeartStart Intrepid C
12 days ago 04/04/2019 17:39:09	Female 50 yrs Good Samaritan Com GoodSam HeartStart Intrepid C
13 days ago 04/03/2019 19:05:32	Female 28 yrs Good Samaritan Com GoodSam HeartStart Intrepid D
13 days ago 04/03/2019 19:04:21	Female 38 yrs Good Samaritan Com GoodSam HeartStart Intrepid D
13 days ago 04/01/2019 17:29:32	Female 47 yrs Major Metro EMS Philips HeartStart Intrepid C
13 days ago 04/01/2019 17:28:49	Female 50 yrs Major Metro EMS Philips HeartStart Intrepid C
15 days ago 04/01/2019 19:27:35	Female 50 yrs Major Metro EMS Philips HeartStart Intrepid C
15 days ago 04/01/2019 19:21:35	Female 52 yrs Good Samaritan Com GoodSam HeartStart Intrepid C
15 days ago 04/01/2019 19:12:36	Female 55 yrs Good Samaritan Com GoodSam HeartStart Intrepid C

Timeline (10-Mar)

13:10 13:15 13:20 13:25 13:30 13:35 13:40 13:45 13:50

12-Lead vitals Events Case Summary

Available reports:
Pre- and post-shock ECG
Full ECG
12-lead ECG
Vital trends
Events

View or print available reports

You can view these reports

You can download event summary data

Device data: pre- and post-shock ECG report*

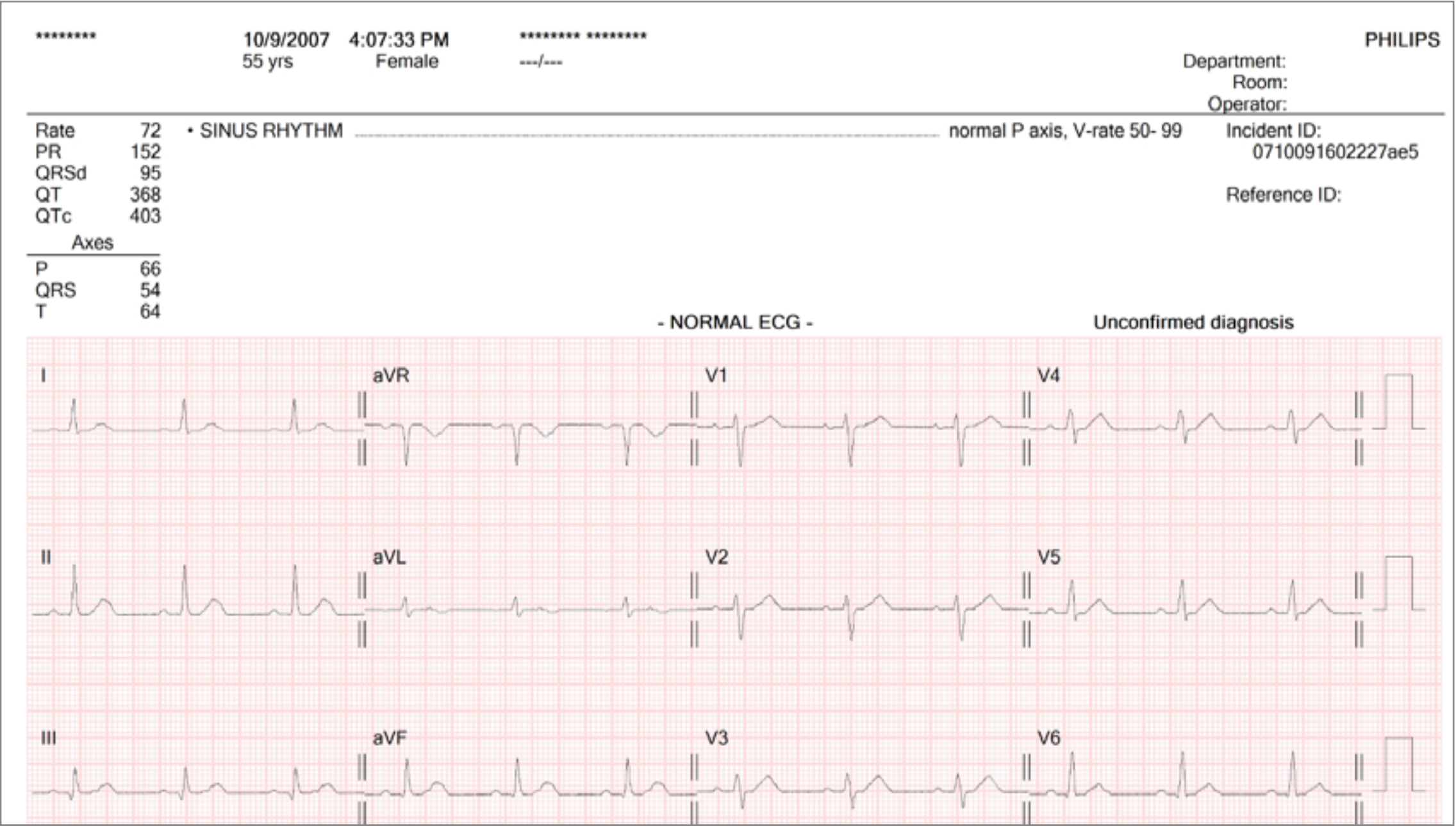
An important part of code reviews and QA/QI initiatives is understanding the data pre- and post-shock.



*Simulator data, this is not an example of pre and post shock.

Device data: 12-lead ECG report

This is a snapshot of a 12-lead ECG report.



Device data: vital trends report

This report displays vital trends information.

IntelliSpace Connect

Vital Trends

5/24/2019 11:36:55 PM

Case ID:

Case date:

Patient ID:

Patient first name:

Patient last name:

5/24/2019 11:36:55 PM

Reference ID:

Institution:

Device type / revision:

Device serial #:

Device on time:

HeartStart Intrepid

CN73900088

4/9/2019 5:51:22 PM

Vital Trend	5:51:00 PM	5:56:00 PM	6:01:00 PM	6:06:00 PM	6:11:00 PM	6:16:00 PM	6:21:00 PM	6:26:00 PM
HR (bpm)	--	--	--	--	--	--	--	--
SpO2 (%)	--	--	--	--	--	--	--	--
Pulse (bpm)	--	--	--	--	--	--	--	--

Vital Trend	6:31:00 PM	6:36:00 PM	6:41:00 PM	6:46:00 PM	6:51:00 PM	6:56:00 PM	7:01:00 PM	7:06:00 PM
HR (bpm)	--	--	--	--	--	--	--	--
SpO2 (%)	--	--	--	--	--	--	--	--
Pulse (bpm)	--	--	--	--	--	--	--	--

Vital Trend	7:11:00 PM	7:16:00 PM	7:21:00 PM	7:26:00 PM	7:31:00 PM	7:36:00 PM	7:41:00 PM	7:46:00 PM
HR (bpm)	--	--	--	--	--	--	--	--
SpO2 (%)	--	--	--	--	--	--	--	--
Pulse (bpm)	--	--	--	--	--	--	--	--

IntelliSpace Connect applications

IntelliSpace Connect
platform

IntelliSpace Connect
Device Data

Patient Care
Reporting

The Patient Care Reporting application uses an API to seamlessly integrate with ePCR and EMR.

Patient Care Reporting

The Patient Care Reporting application uses an API to seamlessly integrate the device data sent to IntelliSpace Connect with ePCR and EMR. Data is transferred securely using HTTPS*. The ePCR or EMR retrieves data from the cloud. Integrating with Patient Care Reporting saves the EMS agency and hospital teams' time by avoiding manual data entry as clinical data becomes available in an electronic format.



*Hypertext Transfer Protocol Secure (HTTPS) is a protocol used for secure communication over a computer network, for example, the Internet.

Security and privacy

Security



IntelliSpace Connect is built with **Philips Product Security Risk Assessment** process

Data from the HeartStart Intrepid to IntelliSpace Connect is securely transmitted using HTTPS

Data stored in IntelliSpace Connect is encrypted

Privacy



IntelliSpace Connect is built with Philips **Privacy by Design** standards

It considers the latest privacy guidelines such as General Data Protection Regulation (GDPR)

Technical overview and standards



IntelliSpace Connect **transmits** using the **Intrepid Wi-Fi** or **cellular modules**



You can view IntelliSpace Connect from **any location** using **popular browsers** such as **Google Chrome**, **Microsoft Internet Explorer**, and **Mozilla Firefox**

Target audience



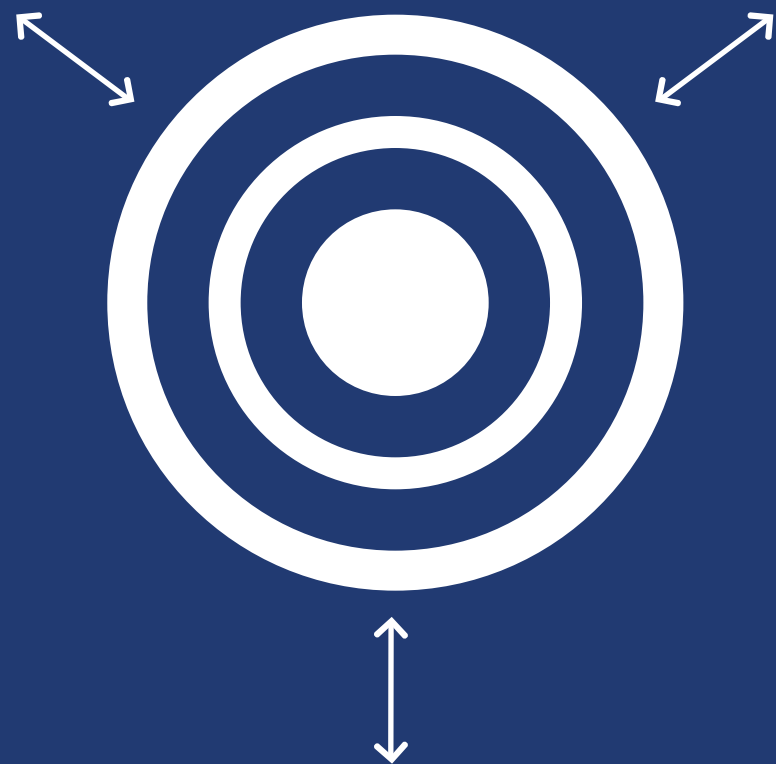
All Philips HeartStart Intrepid customers

Every customer gets an account to enable the password reset of their HeartStart Intrepid defibrillator/monitor device at no charge



Emergency medical services (EMS) customers

- IntelliSpace Connect enables the seamless flow of data from the device to the ePCR
- Data enables QA/QI review by Medical Directors



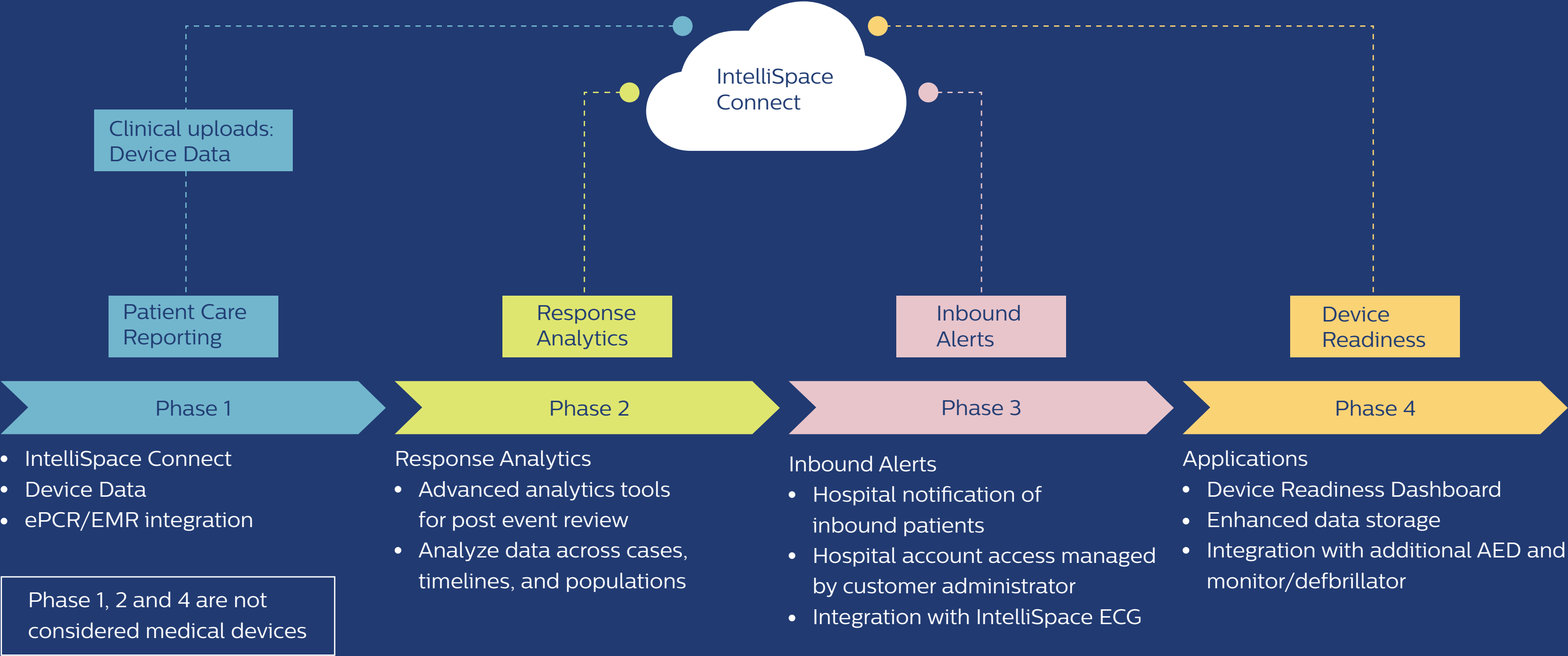
Hospital customers



- It provides accurate record keeping
- Data is available for code review, analytics, and reporting

IntelliSpace Connect upcoming phases

IntelliSpace Connect is a platform built to accommodate additional applications and integration with specialized products. It will be released in the multiple phases with additional applications and features.



Quick recap



As IntelliSpace Connect is **Software as a Service (SAAS)**, there is no need to buy or maintain expensive servers, install software, or have additional investment in IT resource

Data from the HeartStart Intrepid to IntelliSpace Connect is **securely transmitted using HTTPS** and data stored is **encrypted**

View from any location using popular browsers such as Google Chrome, Microsoft IE, and Mozilla Firefox

It allows **post event review of cases** to enable QA/QI initiatives

IntelliSpace Connect is built with **Philips Product Security Risk Assessment** process

IntelliSpace Connect seamlessly **integrates with an ePCR or EMR/EHR** through an API

Securely sends data from HeartStart Intrepid to IntelliSpace Connect cloud **with the push of a button**



