



 escribeHOST



Alerts



<b>Introduction</b>	<b>3</b>
<b>Create a new custom Alert</b>	<b>3</b>
<b>Filter and View Alerts in Transmissions</b>	<b>14</b>

# Introduction

The **Alerts** feature in Cardiac Signals allows users to easily see alerts matching transmissions, and filter transmissions by alert priority.

The **Custom Alerts** feature allows users to configure custom alerts. Users can select the conditions that trigger these alerts, and choose a priority.

This training document presents the step-by-step process to create a new custom alert, as well as how to view and filter Alerts in the transmissions list.

## Create a new custom Alert

In this section, you will learn how to create a custom alert.

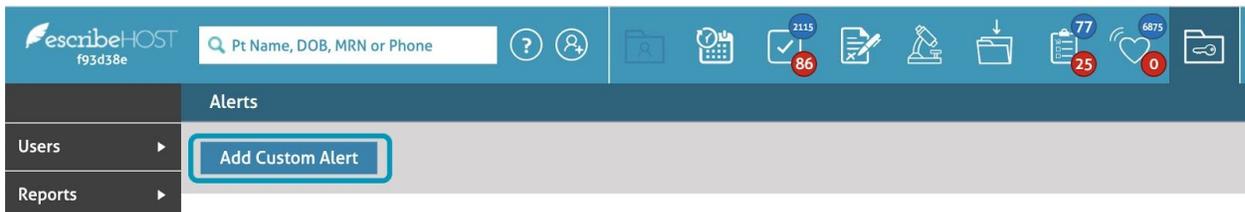
Go to the **Admin** module on the top navigation bar and select **Cardiac Devices** from the menu on the left.



Click **Alerts** from the dropdown menu.

Scheduling	External Battery	ALL	ALL	MDC_IDC_MSMT_BATTERY_VOLTAGE = 8
Orders Config	R4	BIO	IPG	MDC_IDC_EPISODE_VENDOR_TYPE >= 20
Orders Config	RC 7.7	ALL	ALL	MDC_IDC_MSMT_BATTERY_REMAINING_I
Cardiac Devices	Impressions	ALL	ALL	MDC_IDC_EPISODE_TYPE >= 5
Admin Tools	Plans	ALL	ALL	MDC_IDC_EPISODE_VENDOR_TYPE Conti
Account Config	Map Dev -> ICD-10	ALL	ALL	MDC_IDC_EPISODE_TYPE = 30
	Impression Templates	BSX	ICD	MDC_IDC_EPISODE_VENDOR_TYPE Does
	Plan Templates	BSX	ICD	MDC_IDC_EPISODE_TYPE = normal
	Alerts	MDT	ALL	MDC_IDC_DEV_IMPLANT_DT = Never
	View Bill Batches	BSX	ALL	MDC_IDC_MSMT_BATTERY_REMAINING_I
	Create Bill Batch	ALL	ALL	MDC_IDC_SESS_TYPE >= 789
	Manage Recalls			

Click the **Add Custom Alert** button.



A pop-up displays.

The image shows a pop-up window titled 'Add Custom Alert' with a close button (X) in the top right corner. The form contains the following fields:

- Alert Priority \***: A dropdown menu with the text 'Select Priority'.
- Name \***: A text input field.
- Manufacturer**: A dropdown menu with the text 'All Manufacturers'.
- Device Type**: A dropdown menu with the text 'All Device Types'.
- Condition Type \***: A dropdown menu with the text 'Select one'.
- Operator \***: A dropdown menu with the text 'Select one'.
- Value \***: A text input field.

At the bottom left of the form is a blue square button with a white plus sign. At the bottom right, there are two buttons: a grey 'Close' button and a green 'Save' button. A legend at the bottom left indicates that an asterisk (\*) denotes a required field.

**Alert Priority.** Select a priority from the following options in the dropdown menu.

- Red Alert (!!!) - High priority
- Yellow Alert (!!)
- Green Alert (!) - Low priority.

This field is required.

The screenshot shows a dialog box titled "Add Custom Alert" with a close button (X) in the top right corner. The "Alert Priority" field is highlighted with a red box and has a dropdown menu open, showing three options: "Red Alert", "Yellow Alert", and "Green Alert". The "Name" field is empty. The "Manufacturer" field has a dropdown menu with "All Manufacturers" selected. The "Device Type" field has a dropdown menu with "All Device Types" selected. Below these fields are three more dropdown menus: "Condition Type" (with "Select one" selected), "Operator" (with "Select one" selected), and "Value" (empty). A legend at the bottom left indicates that an asterisk (\*) denotes a required field. At the bottom right, there are "Close" and "Save" buttons.

**Name.** Type in a short, meaningful name for the alert. You can type up to 30 characters. This field is required.

The screenshot shows a dialog box titled "Add Custom Alert" with a close button (X) in the top right corner. The form contains the following fields:

- Alert Priority \***: A dropdown menu with "Select Priority" as the current selection.
- Name \***: A text input field, highlighted with a red border.
- Manufacturer**: A dropdown menu with "All Manufacturers" as the current selection.
- Device Type**: A dropdown menu with "All Device Types" as the current selection.
- Condition Type \***: A dropdown menu with "Select one" as the current selection.
- Operator \***: A dropdown menu with "Select one" as the current selection.
- Value \***: A text input field.

At the bottom left, there is a blue square button with a white plus sign (+). At the bottom right, there are two buttons: a grey "Close" button and a green "Save" button. A legend at the bottom left indicates that an asterisk (\*) denotes a required field.

Select a **Manufacturer** from the dropdown menu. By default, the Alert applies to **All Manufacturers**.

If a manufacturer is selected, the alert will only trigger for transmissions with a device from that manufacturer.

The image shows a software dialog box titled "Add Custom Alert". It contains several input fields:

- Alert Priority \***: A dropdown menu with "Select Priority" as the current selection.
- Name \***: An empty text input field.
- Manufacturer**: A dropdown menu that is currently open, displaying a list of options: "All Manufacturers", "Biotronik", "Boston Scientific", "Medtronic", and "St. Jude". The "Biotronik" option is highlighted.
- Device Type**: A dropdown menu with "All Device Types" as the current selection.
- Value \***: An empty text input field.

At the bottom left of the dialog is a blue square button with a white plus sign. At the bottom right are two buttons: a grey "Close" button and a green "Save" button. A legend at the bottom left indicates that the asterisk (\*) denotes a required field.

**Device Type.** Select a device type from the dropdown menu. By default the Alert applies to **All Device Types**.

If a device type is selected, the alert will only trigger for transmissions for that device type.

The screenshot shows the 'Add Custom Alert' dialog box with the following fields and values:

- Alert Priority \*: Select Priority
- Name \*: (empty)
- Manufacturer: All Manufacturers
- Condition Type \*: Select one
- Operator \*: Select one
- Device Type: (dropdown menu open showing options: All Device Types, Pacemaker, Defibrillator, Cardiac Resynchronization Therapy - Defibrillator, Cardiac Resynchronization Therapy - Pacemaker, Monitor, Other)

Buttons: +, Close, Save

Legend: \* Required

Now, build the condition(s) for this alert.

EXAMPLE:

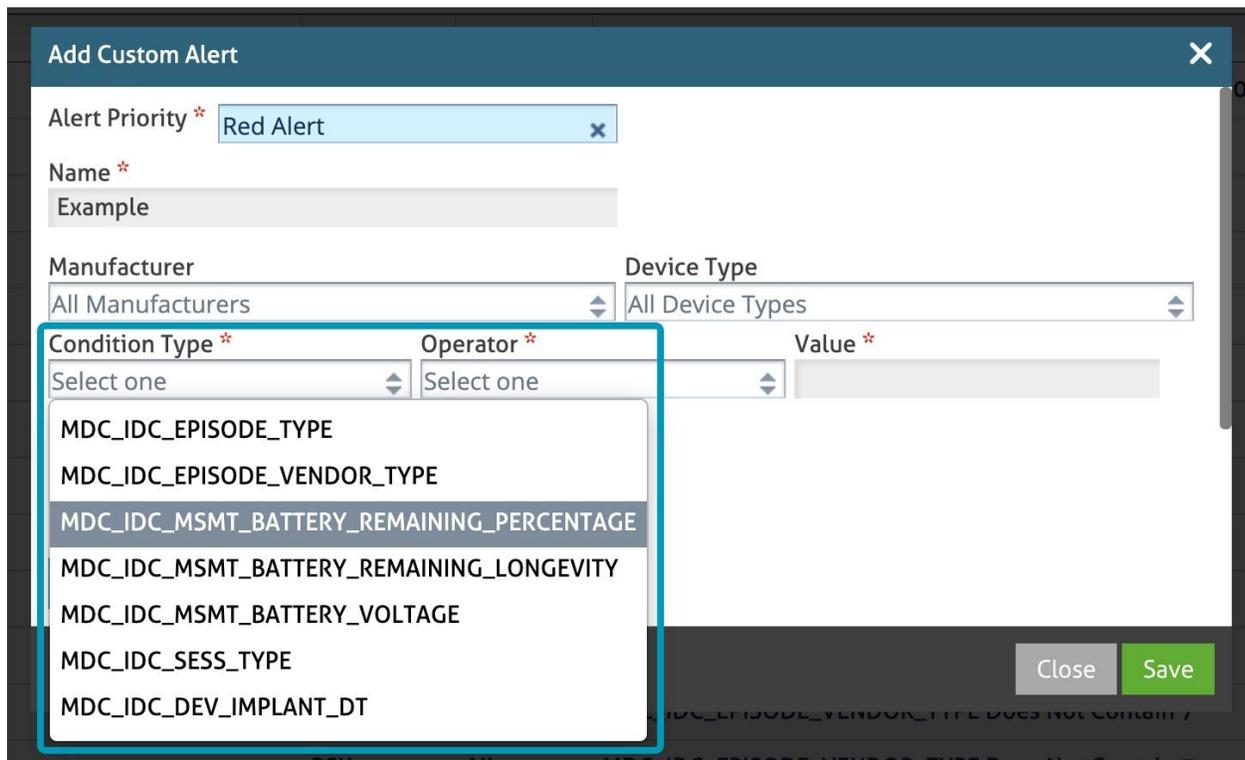
- **Condition Type:** MDC\_IDC\_MSMT\_BATTERY\_REMAINING\_PERCENTAGE
- **Operator:** <=
- **Value:** 10

Result: This alert will appear when the battery remaining percentage is less than or equal to 10%.

First, **select a Condition Type** from the dropdown menu. The options are:

- **MDC\_IDC\_EPISODE\_TYPE** - Select this option when you want the alert to display based on the type of episode.
- **MDC\_IDC\_EPISODE\_VENDOR\_TYPE** - Select this option when you want the alert to display based on the vendor type.
- **MDC\_IDC\_MSMT\_BATTERY\_REMAINING\_PERCENTAGE** - Select this option when you want the alert to display based on the remaining battery percentage of a device.
- **MDC\_IDC\_MSMT\_BATTERY\_REMAINING\_LONGEVITY** - Select this option when you want the alert to display based on the remaining battery longevity of a device.
- **MDC\_IDC\_MSMT\_BATTERY\_VOLTAGE** - Select this option when you want the alert to display based on the battery voltage.
- **MDC\_IDC\_SESS\_TYPE** - Select this option when you want the alert to display based on the session type.
- **MDC\_IDC\_DEV\_IMPLANT\_DT** - Select this option when you want the alert to display based on the implant date.

This field is required.



The screenshot shows the 'Add Custom Alert' dialog box. The 'Alert Priority' is set to 'Red Alert'. The 'Name' field contains 'Example'. The 'Manufacturer' is set to 'All Manufacturers' and the 'Device Type' is set to 'All Device Types'. The 'Condition Type' dropdown menu is open, showing a list of options: MDC\_IDC\_EPISODE\_TYPE, MDC\_IDC\_EPISODE\_VENDOR\_TYPE, MDC\_IDC\_MSMT\_BATTERY\_REMAINING\_PERCENTAGE (highlighted), MDC\_IDC\_MSMT\_BATTERY\_REMAINING\_LONGEVITY, MDC\_IDC\_MSMT\_BATTERY\_VOLTAGE, MDC\_IDC\_SESS\_TYPE, and MDC\_IDC\_DEV\_IMPLANT\_DT. The 'Operator' and 'Value' fields are also visible but empty. The 'Close' and 'Save' buttons are at the bottom right.

Select an **Operator** from the dropdown menu that applies to the condition type selected earlier.

The operators compare the **transmission value** (the value in the transmission for the given Condition Type, e.g.: Battery Remaining Percentage),

to the **condition value** (the value in the alert for the condition, under “Value”).

The options include:

- = - Transmission value precisely matches the condition value.
- > - Transmission value is greater than the condition value.
- >= - Transmission value is greater than or equal to the condition value.
- < - Transmission value is less than the condition value.
- <= - Transmission value is less than or equal to the condition value.
- **Contains** - Transmission value contains the entire condition value (at the beginning, middle, or end).
- **Does Not Contain** - Transmission value does not contain the entire condition value, anywhere.
- **Is Present** - Any transmission value is present. (condition value is not needed)
- **Is Absent** - No transmission value is present. (condition value is not needed)

This field is required.

The screenshot shows the 'Add Custom Alert' dialog box. The 'Alert Priority' is set to 'Red Alert'. The 'Name' field contains 'Example'. The 'Manufacturer' is set to 'All Manufacturers' and the 'Device Type' is set to 'All Device Types'. The 'Condition Type' is set to 'MDC\_IDC\_MSMT\_BATTERY\_R'. The 'Operator' dropdown menu is open, showing the following options: '=', '>', '>=', '<', '<=', 'Contains', 'Does Not Contain', 'is Present', and 'is Absent'. The 'Value' field is empty. The dialog box has a 'Close' button and a 'Save' button. A legend at the bottom left indicates that fields with an asterisk are required.

**Value.** This field is the last part of the condition. Type in the value for the custom alert.

This field is required.

**Add Custom Alert** [Close]

Alert Priority \*

Name \*

Manufacturer  Device Type

Condition Type \*  Operator \*  Value \*

[+]

\* Required [Close] [Save]

**Add more.** You can add more conditions by clicking in the + button. You can also **remove** conditions (except for the first condition) by clicking the **X** button.

Transmissions must match ALL conditions in order to match the alert. This means adding a second (or 3rd, etc) condition makes the alert match a more specific, smaller set of transmissions.

EXAMPLE:

**Condition Type:** MDC\_IDC\_MSMT\_BATTERY\_VOLTAGE

**Operator:** <

**Value:** 10.3

[+]

**Condition Type:** MDC\_IDC\_MSMT\_BATTERY\_REMAINING\_PERCENTAGE

**Operator:** <

**Value:** 10

Result: This alert will appear for transmissions indicating that the battery voltage is less than 10.3V **AND** the remaining battery percentage is less than 10%.

The screenshot shows a dialog box titled "Add Custom Alert" with a close button (X) in the top right corner. The dialog contains the following fields and controls:

- Alert Priority \***: A dropdown menu set to "Red Alert" with a clear button (X).
- Name \***: A text input field containing "Example".
- Manufacturer**: A dropdown menu set to "All Manufacturers".
- Device Type**: A dropdown menu set to "All Device Types".
- Condition Type \***, **Operator \***, and **Value \***: A table with two rows of conditions. The first row has "MDC\_IDC\_MSMT\_BATTERY\_R" (with a clear button X), "<=", and "10". The second row has "MDC\_IDC\_MSMT\_BATTERY\_V" (with a clear button X), "<", and "10.3". A blue box highlights the second row, and a plus button (+) is visible to its right.
- + button**: A square button with a plus sign, highlighted with a blue box.
- \* Required**: A legend at the bottom left.
- Close** and **Save** buttons: Located at the bottom right.

Click the **Save** button to finish the process.



The new Alert displays in the Alerts list.

NOTE: You cannot edit alerts. You can only activate/deactivate an Alert by selecting the checkbox in the **Activate** column, or remove the Alert by clicking the **Delete** icon.

Alerts that are not active will not appear on transmissions.

The screenshot shows the 'Alerts' management interface. At the top, there is a dark blue header with the word 'Alerts'. Below the header is a light grey bar with a blue button labeled 'Add Custom Alert'. Underneath, the text 'Choose when an alert is shown' is displayed. A table with the following columns: Name, Manufacturer, Dev Type, Condition, Active, and an empty column. The table contains one row with the following data: Name: Example (with a red warning icon), Manufacturer: All, Dev Type: All, Condition: MDC\_IDC\_MSMT\_BATTERY\_REMAINING\_PERCENTAGE >= 10, Active: , and a trash can icon in the final empty column.

Name	Manufacturer	Dev Type	Condition	Active	
Example	All	All	MDC_IDC_MSMT_BATTERY_REMAINING_PERCENTAGE >= 10	<input checked="" type="checkbox"/>	

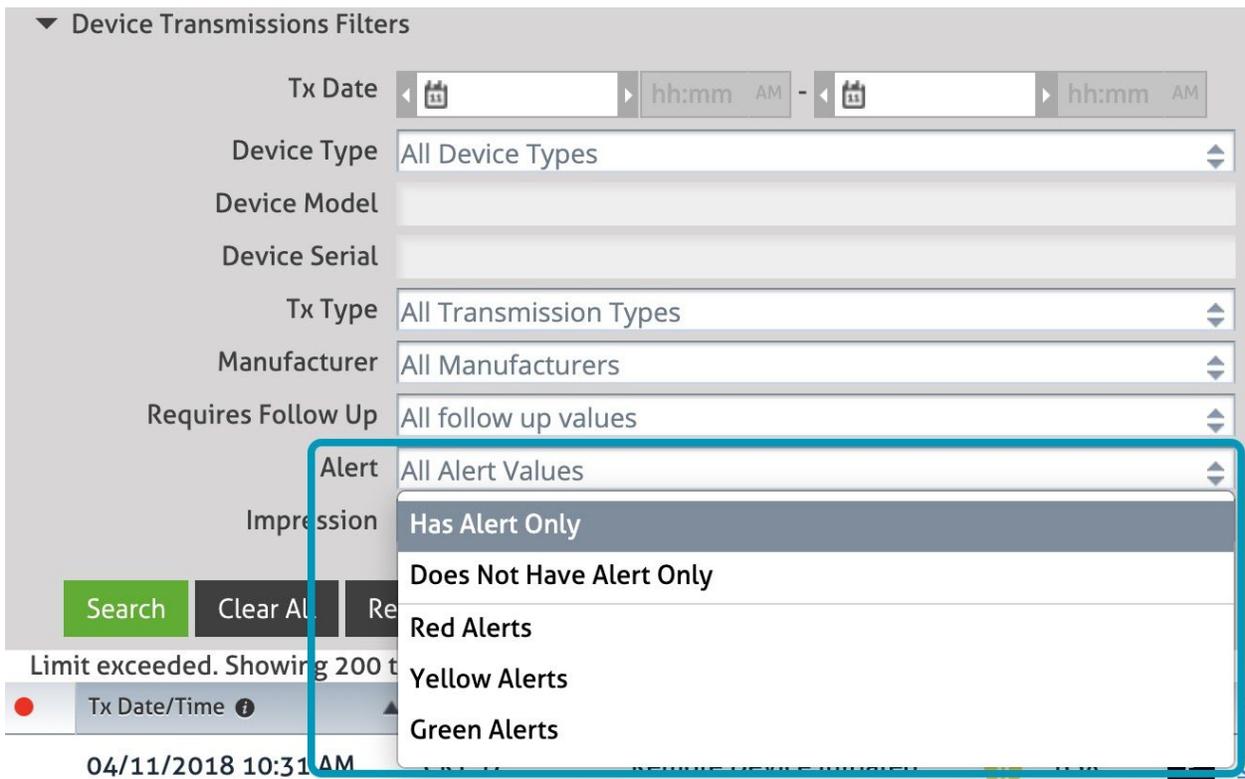
## Filter and View Alerts in Transmissions

In this section, you will learn how to view and filter Custom Alerts and manufacturer-sent alerts in transmissions.

Go to the **Cardiac Devices** module from the menu.



In the **Device Transmission Filters**, you can filter by **Alert**. You can select a single priority to show only transmissions with alerts that match that priority, or you can show only transmissions with ANY alert, or only transmissions without any alerts.



**Alerts** display in a column next to the Transmission type and show the icon that corresponds to the Priority of the Alert. The color and number of exclamation points differs for each priority.

- Red: (!!!)
- Yellow: (!!)
- Green: (!)

**Manufacturer-sent alerts and custom alerts** are BOTH shown in this column.

**NOTE:** If a transmission has two or more Alerts, the icon displays the highest priority of any alert, custom or manufacturer-sent.

Tx Date/Time	Device Type	Tx Type	A	MFG	P
04/11/2018 10:31 AM	CRT_D	Remote Device Initiated	!!	BSX	<b>P</b>
10/10/2018 7:00 AM	ICD	Remote Scheduled	!!	BSX	
10/10/2018 7:00 AM	ICD	Remote Scheduled	!!	BSX	

Click on the **icon** to show a popup with details about each alert for the transmission.

The screenshot shows the escribeHOST interface with a search bar and navigation icons. Below the navigation bar, there is a section for 'Device Transmissions Filters' with a refresh button and a timestamp 'Updated 08/11/2020 7:13 PM'. A 'Start Review' button is also present. The main table displays 'Showing 9 txs.' with columns for Tx Date/Time, Device Type, Tx Type, A, MFG, P, and Patient. Two rows are visible, both for 'Remote Device Initiated' events on 'CRT\_D' devices. The second row is highlighted, and a popup window is open over it, showing a list of alerts with their respective priority icons (Red, Yellow, Green).

Tx Date/Time	Device Type	Tx Type	A	MFG	P	Patient
01/30/2020 11:31 AM	CRT_D	Remote Device Initiated	!!	BSX	<b>P</b>	<a href="#">Conch, Roy.(26641014)</a>
08/07/2020 12:31 PM	CRT_D	Remote Device Initiated	!!!	BSX	<b>P</b>	<a href="#">Conch, Roy.(26641014)</a>

**Alert Details:**

- !! RC 7.7 BATTERY\_REMAINING\_PERCENTAGE >= 8
- !!! Test10082020 EPISODE\_TYPE >= 5
- !!! redalertforConch BATTERY\_REMAINING\_LONGEVITY = 96
- ! sesstype SESSION\_TYPE >= 789
- !!! test EPISODE\_VENDOR\_TYPE is Present
- ! y EPISODE\_VENDOR\_TYPE Does Not Contain 7
- !!! **Manufacturer Alert**  
Oct 10, 2018 07:04 - Red Alert - Left ventricular intrinsic amplitude out of range.

When viewing a transmission, a clickable Alert Priority **icon** is visible in the top left, if any alerts are present.

Click on the **icon** to show a popup with details about each alert for the transmission.

The screenshot displays the escribeHOST interface. At the top, there is a search bar for patient information and a navigation bar with various icons. Below this, a transmission header shows 'Tx Queue' and '38 of 51' items, with a specific transmission titled 'ICD Remote Device Initiated 01/07/2019 2:27 AM'. A sidebar on the left contains navigation options: 'NOT-URG', 'Putorti, Cynthia2', 'Impressions', 'Plans 0', and 'Transmission'. The main area shows a 'Provider -' section with a red alert icon. A popup window is open, listing three alerts: 'Alert1' (red icon), 'Alert2' (yellow icon), and 'Alert3' (green icon). Below the alerts is a 'Manufacturer Alert' section with a yellow icon, dated 'Jan 06, 2019 22:06', describing a 'Yellow Alert - Antitachycardia pacing (ATP) therapy delivered to convert arrhythmia.' At the bottom, a 'Parameters' section is visible, showing 'Pacing Mode' set to 'VVI' and 'Base Rate' set to '50 bpm'.