

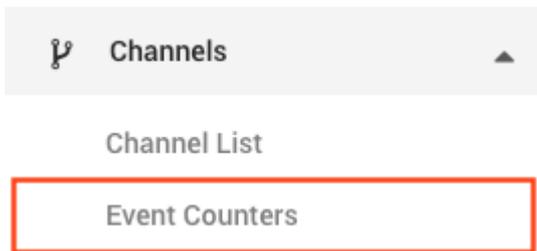
Event Counters

The event counters feature allow you to setup counters on digital and analogue channels to count events based on predefined conditions.

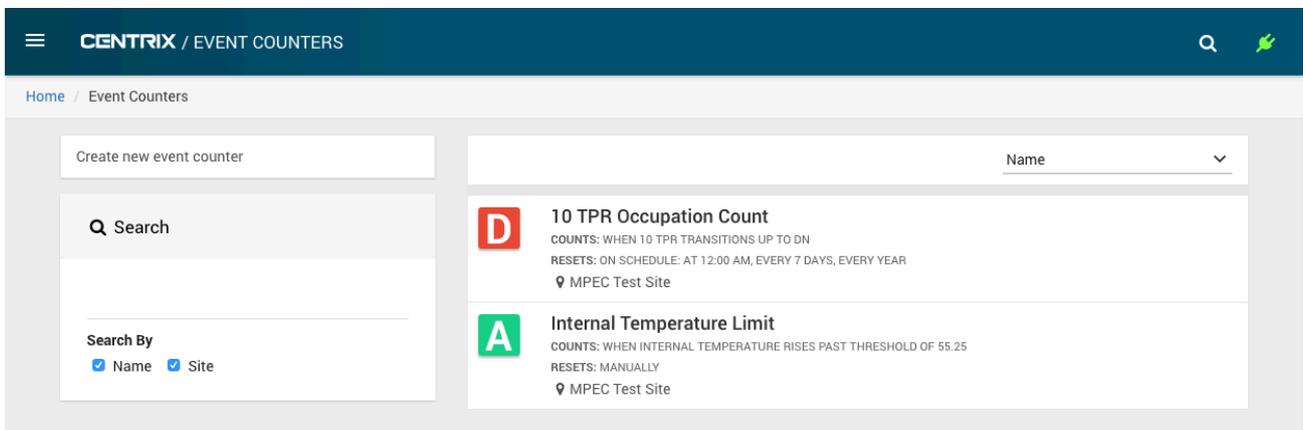
- Listing
- Creating
- Count Conditions
 - Digital
 - Analogue
- Reset Conditions
 - Scheduled
 - At Count
 - Manual
- Event Counter Alarm

Listing

The event counters page can be accessed from the side menu by selecting the "Channels" heading and then selecting "Event Counters"



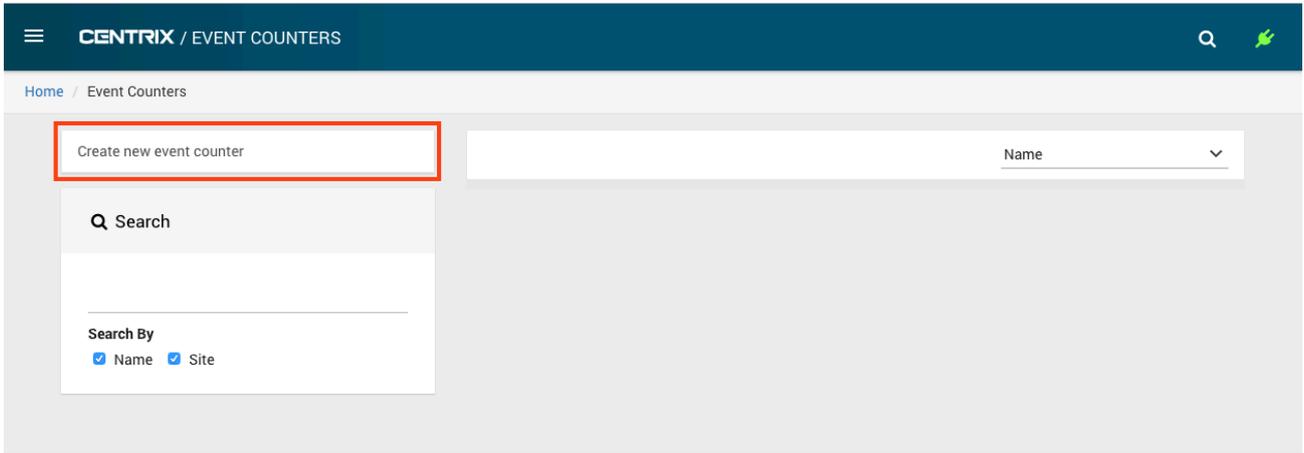
The screen will display any existing event counters that have been setup based on the sites your user has access to. The search box on the left can be used to filter based on the name of the event counter or the site that it is assigned to.



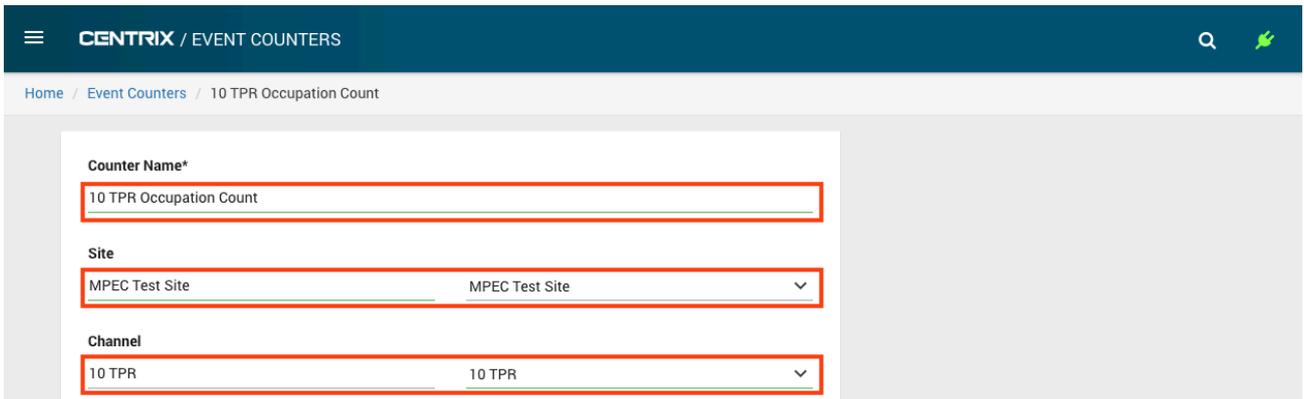
The listing shows a summary of each event counter including the count condition, the reset condition and the current count (if available).

Creating

To create a new event counter, select the "Create new event counter" button in the top left of the page, you will be taken to a new screen.



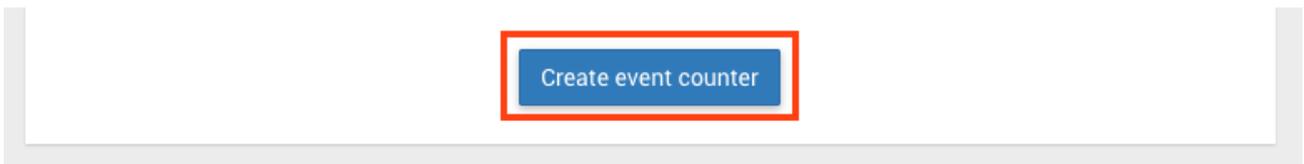
Provide a name for the new event counter and then select the site that you want to associate it with. Once you have selected a site the list of analogue and digital channels will be populated. Select a channel to be counted for this event counter.



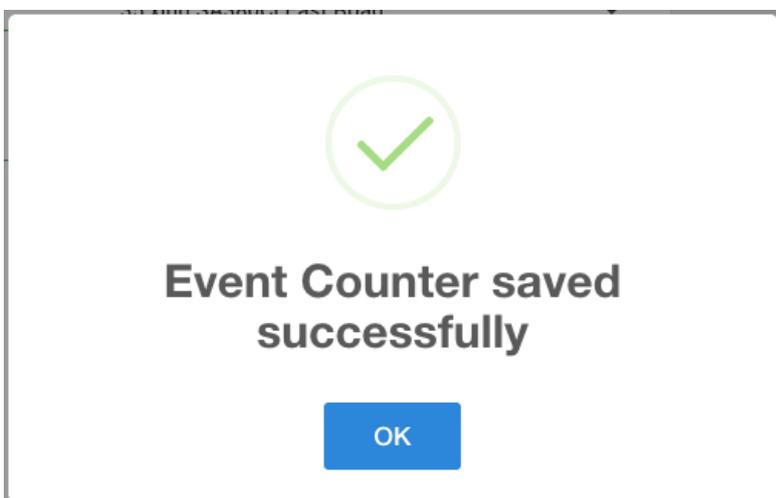
See [Count Conditions](#) for details about configuring the count conditions.

See [Reset Conditions](#) for details about configuring the reset conditions.

To finish creating the new event counter, select the "Create event counter" button.



You should see a confirmation once the event counter has been saved.



Count Conditions

The options available for the count condition depend on the type of channel you have selected.

Digital

For digital channels, the count is triggered on either the up transition, down transition or both. In the example illustrated below, only the "UP to DN" transition is selected, this is because the counter is counting track occupations based on a track circuit relay. If the "DN to UP" was also selected then track un-occupations would also be counted, effectively doubling the count which is not desired in this case.

The screenshot shows the configuration page for an event counter. The header includes a menu icon, the text "CENTRIX / EVENT COUNTERS", a search icon, and a user icon. Below the header is a breadcrumb trail: "Home / Event Counters / 10 TPR Occupation Count". The main form area contains the following fields:

- Counter Name***: 10 TPR Occupation Count
- Site**: MPEC Test Site (selected from a dropdown)
- Channel**: 10 TPR (selected from a dropdown)
- Count Condition**:
 - DN to UP
 - UP to DN

Analogue

For analogue channels, the count is triggered based on rising, falling or both rising and falling past a threshold value. Similar to the conditions for digital channels, it may not be required to select both "Rising" and "Falling" depending on the use case.

The screenshot shows the configuration page for an event counter. The header and breadcrumb trail are identical to the digital example. The main form area contains the following fields:

- Counter Name***: 10 TPR Occupation Count
- Site**: MPEC Test Site (selected from a dropdown)
- Channel**: Internal Temperature (selected from a dropdown)
- Count Condition**:
 - Rising
 - Falling
- Threshold**: 55.25

Reset Conditions

Event counters can be configured to reset based on specific conditions.

Scheduled

The count will reset after a specific time interval, in the illustration below it has been set to every 7 days at midnight. The various tabs allow configuration of different intervals.

Reset Condition

Scheduled

MINUTES

HOURLY

DAILY

WEEKLY

MONTHLY

YEARLY

ADVANCED

Every 7 day(s) starting at 12 00 00 AM

Every week day (Monday through Friday) starting at 01 00 00 AM

At Count

Manual

At Count

The count will reset after it reaches a specific count has been reached.

Reset Condition

Scheduled

At Count

25

Manual

Manual

The count will never reset automatically and has to be manually reset.

Reset Condition

Scheduled

At Count

Manual

Event Counter Alarm

In addition to the event counters themselves, a new alarm type has been introduced which can be triggered once an event counter reaches a specific count. To configure an event counter alarm, go to the "Alarm Management" section on the menu:

Alarm Status

Alarm Management

Alarm Labels

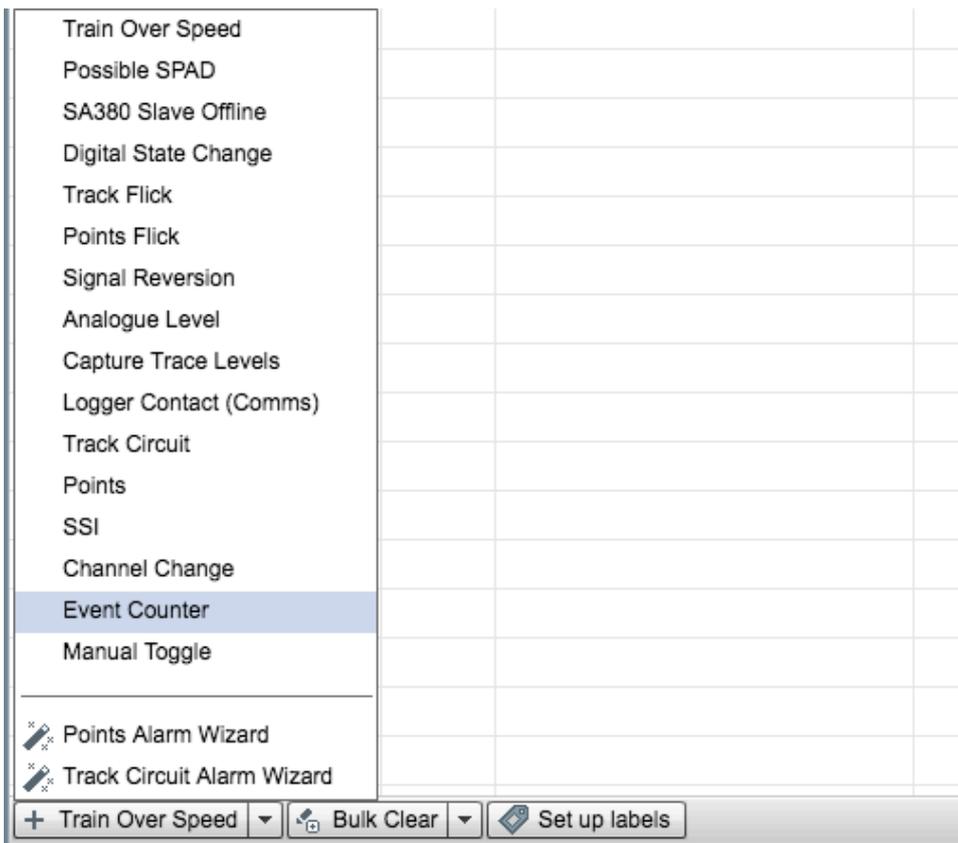
Points Alarm Wizard

Track Circuit Alarm Wizard

Health Dashboards

Manual Toggles

The alarm management page requires Adobe Flash player and will not work on mobile devices. To create a new event counter alarm, select it from the popup menu in the bottom left of the screen:



The screenshot shows a popup menu on the left side of the screen. The menu items are: Train Over Speed, Possible SPAD, SA380 Slave Offline, Digital State Change, Track Flick, Points Flick, Signal Reversion, Analogue Level, Capture Trace Levels, Logger Contact (Comms), Track Circuit, Points, SSI, Channel Change, Event Counter (highlighted), and Manual Toggle. Below the menu are two wizard options: Points Alarm Wizard and Track Circuit Alarm Wizard. At the bottom of the screen, there are three buttons: '+ Train Over Speed', 'Bulk Clear', and 'Set up labels'.

The configuration of the alarm is straightforward, first select the site if it is not already selected. Next select the event counter and then specify the threshold for the alarm.

Create Event Counter Alert

This alert will fire when count on the event counter passes the threshold.

General Settings

Site * MPEC Test Site

Alert Name * 10 TPR - 500 Occupations

E-mail robert.hunt@mpec.co.uk

Subscribed?

Suppression Period All raises for 10 Minutes

Duplicates for 0 Milliseconds

Severity Warning

Labels

Set up labels

Event Counter

Event Counter * 10 TPR Occupation Count

Threshold

Trigger Type >=

Threshold 500

OK Cancel