



ECA **Engineered Computer Appliance** **Central Server**

ecaCentral v1.0

USER MANUAL

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1 ecaCentral

1.1 Introduction

ecaCentral is a dedicated dashboard for monitoring the health and performance of multiple ECAs using a registered email address. If any registered ECAs have anomalies, you will be notified via the ecaCentral dashboard.

1.1.1 System Admin Registration

To create a System Admin account, enter your System Admin credential and click the Register button.

The image shows a registration form for ecaCentral System Admin. The form is white with rounded corners and is centered on a dark background. At the top of the form is the ECA logo, which consists of the letters 'ECA' in a bold, sans-serif font, with a red diagonal line through the 'A'. Below the logo is the title 'System Admin Registration'. There are three input fields: 'Username', 'Name', and 'Password', each with a light gray border and placeholder text. Below these fields is a red button with the word 'Register' in white text.

Figure 1: ecaCentral System Admin Registration

1.1.2 Central Registration on ecaOS

Before using ecaCentral, go to the ecaOS dashboard for the ECA you want to monitor: Management > Settings > Central Registration, and enter your registered account information.

To register your ECA for this service:

- Enter your ecaCentral System Admin credential.
- Enter the central IP address or hostname.
- Click the register button.

If you have successfully connected the ecaCentral, you will see the connection status as connected.

Central Registration

Registration Status: **Connected**

Registered Email: **kelvin@gsfcorp.com**

Central Address: **https://10.0.0.34:12333**


 Unregister

Figure 2: ecaOS Central Registration

1.2 Overview

The Overview page on the ecaCentral dashboard provides an overview of your ECA's operational status as well as any abnormal events.

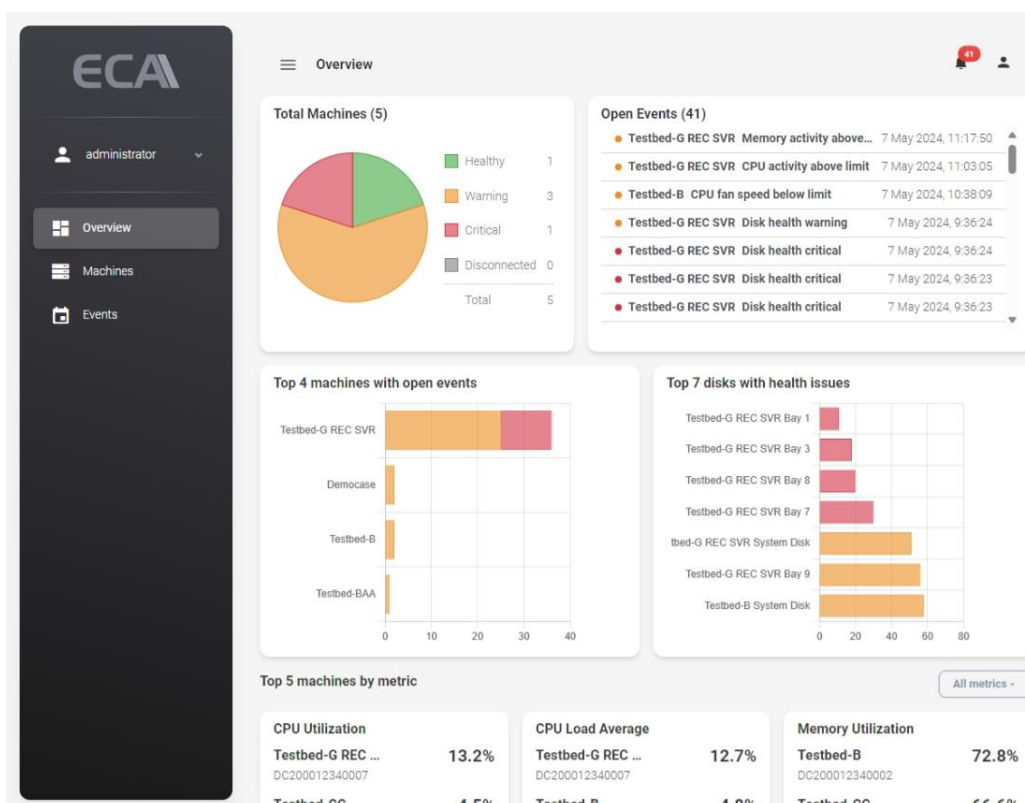


Figure 3: ecaCentral Overview

1.2.1 Total Machines

The Total Machines card displays the number of ECAs that are either disconnected, critical, or warning, or that are healthy.

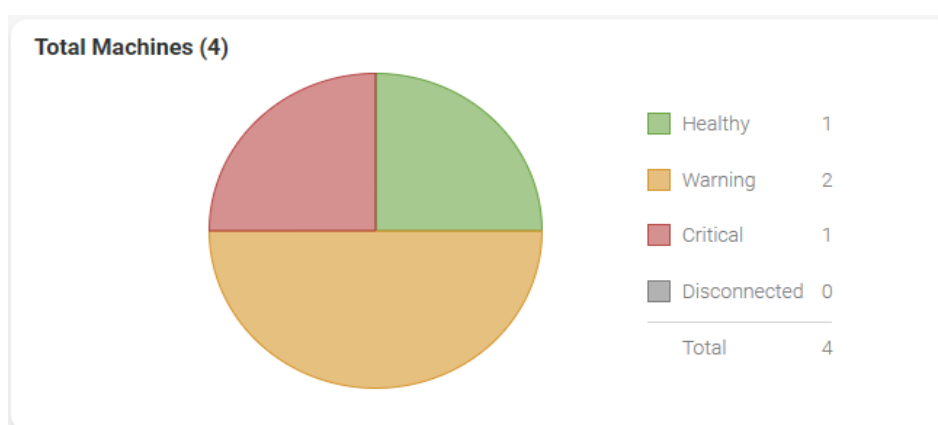


Figure 4: ecaCentral Overview – Total Machines

1.2.2 Open Events

The Open Events card lists the most recent events. To view more information about an event, click on it.

Open Events (41)		
●	Testbed-G REC SVR Memory activity above limit	7 May 2024, 11:17:50
●	Testbed-G REC SVR CPU activity above limit	7 May 2024, 11:03:05
●	Testbed-B CPU fan speed below limit	7 May 2024, 10:38:09
●	Testbed-G REC SVR Disk health warning	7 May 2024, 9:36:24
●	Testbed-G REC SVR Disk health critical	7 May 2024, 9:36:24
●	Testbed-G REC SVR Disk health critical	7 May 2024, 9:36:23
●	Testbed-G REC SVR Disk health critical	7 May 2024, 9:36:23

Figure 5: ecaCentral Overview – Open Events

1.2.3 Top 10 machines with open events

ecaCentral provides a list of up to ten ECAs with open events.

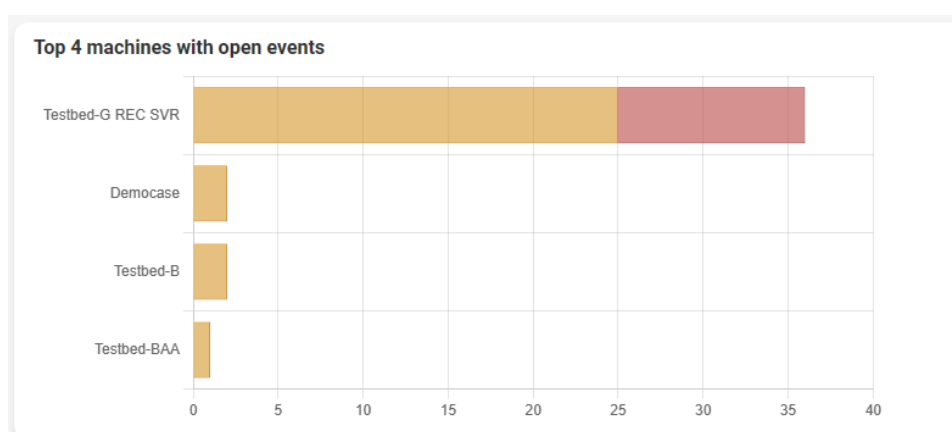


Figure 6: ecaCentral Overview – Top 10 machines with open events

1.2.4 Top 10 disks with health issues

ecaCentral provides a list of up to ten disk health issues.

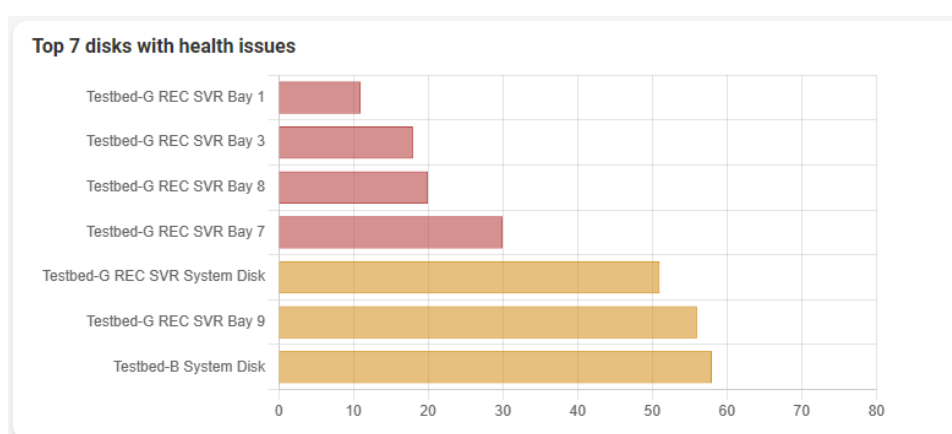


Figure 7: ecaCentral Overview – Top 10 disks with health issues

1.2.5 Top 5 machines by metric

ecaCentral provides a variety of metrics in charts. Each metric lists up to five hosts with the highest statistics. This allows you to quickly identify abnormalities on the ECAs, such as unexpected usage, speed, temperature, and so on.

You can choose which metrics to display on the Overview page.

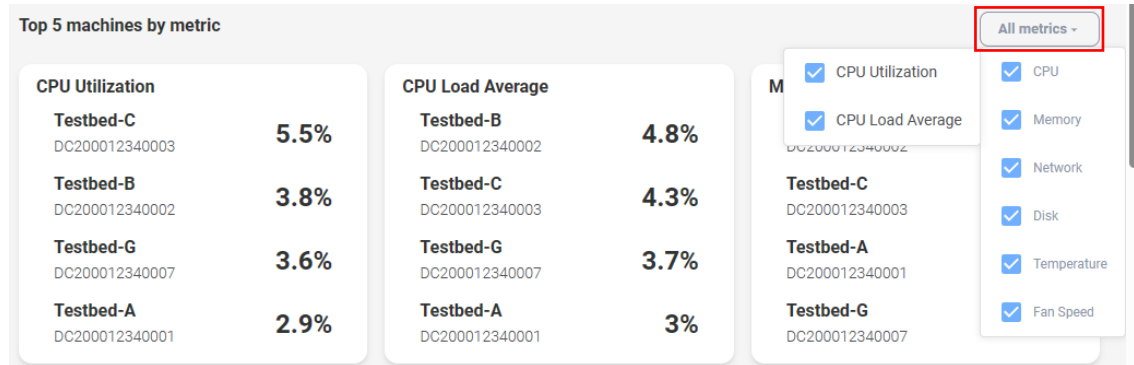


Figure 8: ecaCentral Overview – Top 5 machines by metric

1.3 Machines

The Machines page displays the health status of all of your ECAs.

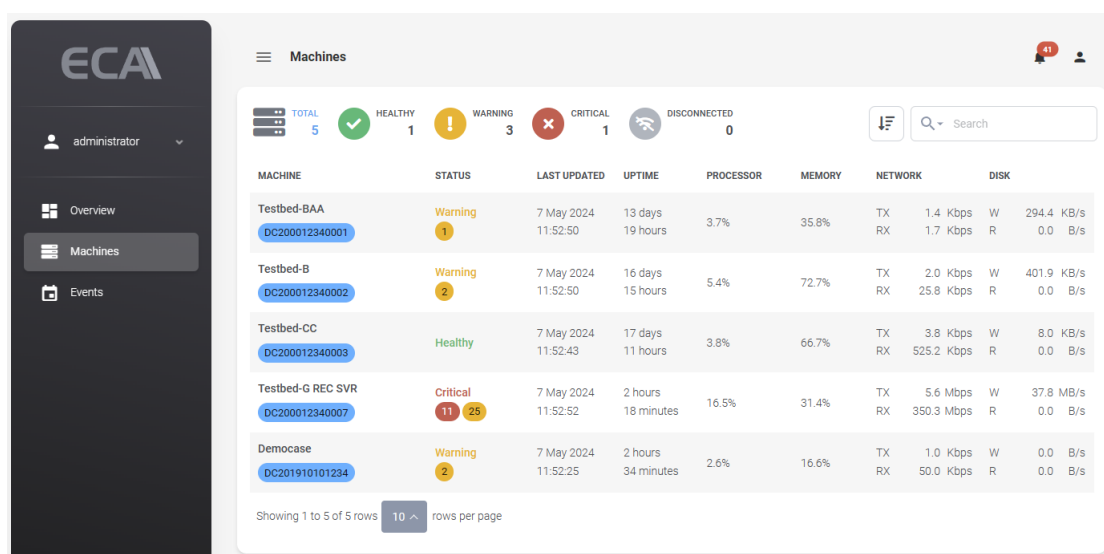


Figure 9: ecaCentral Machines.

When you click on a machine, you will see its details listed in the tabs below.

1.3.1 Metrics

This tab displays the ECA performance metrics, and you can select which aspects and charts to display, as well as the time range for presentation.

- Aspects: One chart, two charts, three charts, or auto
- Charts: All, System, Disk, or Customize

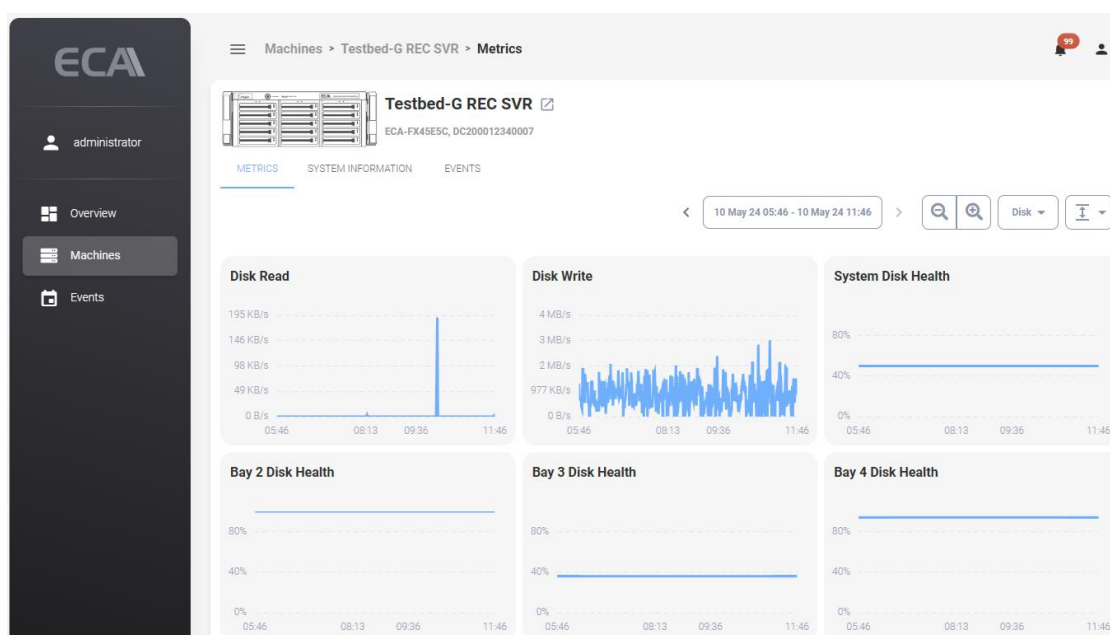
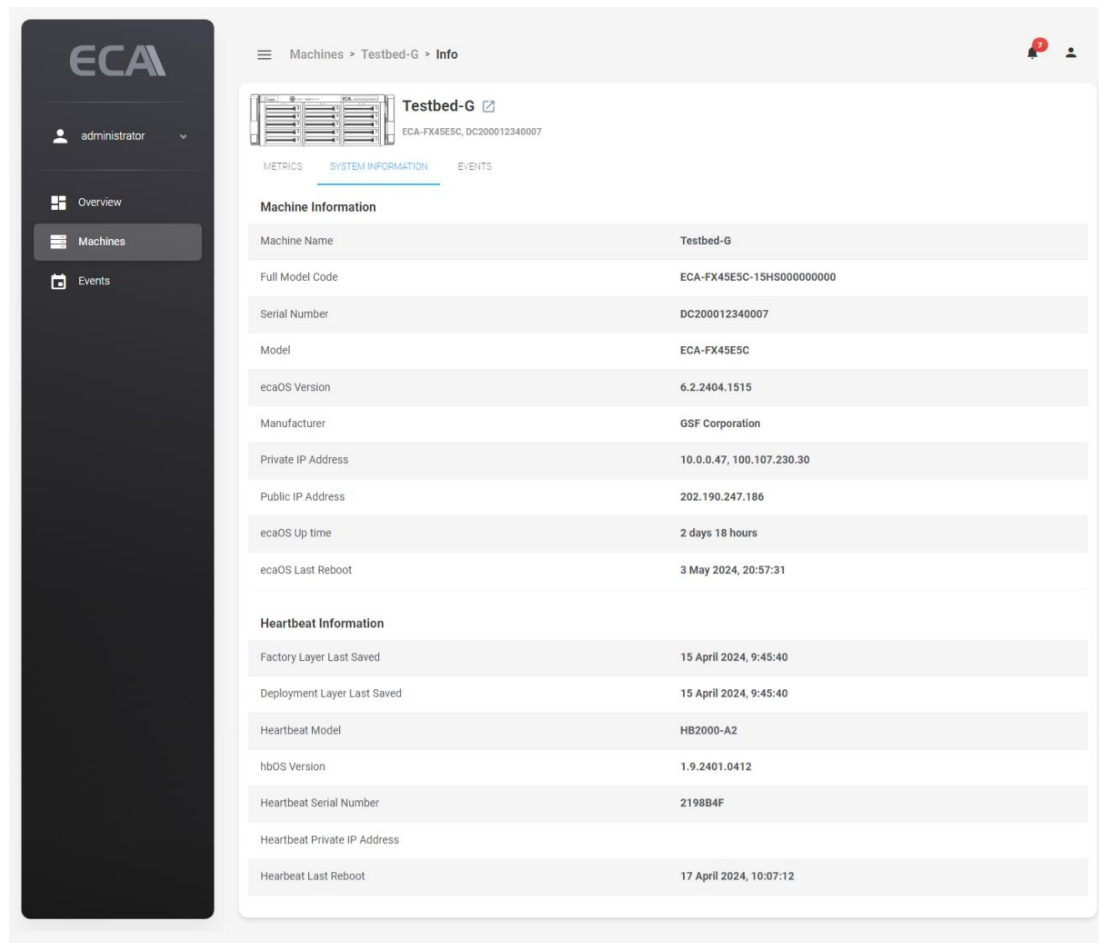


Figure 10: ecaCentral Machines – Metrics

1.3.2 System Information

This tab displays the ECA's system information.



The screenshot shows the ECA web interface. On the left is a dark sidebar with the ECA logo and navigation links: Overview, Machines (selected), and Events. The main content area is titled 'Machines > Testbed-G > Info'. It features a tabbed interface with 'SYSTEM INFORMATION' selected. The page displays two sections of information for 'Testbed-G' (ECA-FX4SE5C, DC200012340007):

Machine Information	
Machine Name	Testbed-G
Full Model Code	ECA-FX4SE5C-15HS000000000
Serial Number	DC200012340007
Model	ECA-FX4SE5C
ecaOS Version	6.2.2404.1515
Manufacturer	GSF Corporation
Private IP Address	10.0.0.47, 100.107.230.30
Public IP Address	202.190.247.186
ecaOS Up time	2 days 18 hours
ecaOS Last Reboot	3 May 2024, 20:57:31

Heartbeat Information	
Factory Layer Last Saved	15 April 2024, 9:45:40
Deployment Layer Last Saved	15 April 2024, 9:45:40
Heartbeat Model	HB2000-A2
hbOS Version	1.9.2401.0412
Heartbeat Serial Number	2198B4F
Heartbeat Private IP Address	
Heartbeat Last Reboot	17 April 2024, 10:07:12

Figure 11: ecaCentral Machines – System information

1.3.3 Machine Events

This tab displays the events occurring in the ECA. Please refer to [Events](#) for more information.

Testbed-G REC SVR

ECA-FX45ESC, DC200012340007



METRICS SYSTEM INFORMATION **EVENTS**

OPEN 38 **ACKNOWLEDGED** 2 **RESOLVED** 28 **ALL** 68

<input type="checkbox"/>	STATUS	LEVEL	OCCURRED AT	EVENT
<input type="checkbox"/>	Open		7 May 2024, 11:54:47	Disk write activity below limit Average disk write activity has been below the set limit 33MB for more than 5 minutes. Current average disk write activity is 25.8MB
<input type="checkbox"/>	Open		7 May 2024, 11:54:32	Network receive activity below limit Average network receive activity has been below the set limit 324Mb for more than 5 minutes. Current average network receive activity is 251.3Mb
<input type="checkbox"/>	Open		7 May 2024, 11:17:50	Memory activity above limit Memory activity has been above the set limit 30% for more than 5 minutes. Average Memory activity is 34%
<input type="checkbox"/>	Open		7 May 2024, 11:03:05	CPU activity above limit CPU activity has been above the set limit 50% for more than 5 minutes. Average CPU activity is 60%
<input type="checkbox"/>	Open		7 May 2024, 9:36:24	Disk health warning Disk Bay 9 is down to 56% health
<input type="checkbox"/>	Open		7 May 2024, 9:36:24	Disk health critical Disk Bay 8 is down to 20% health

Figure 12: ecaCentral Machines – Events

1.4 Events

The Event page displays abnormal events that have occurred in your ECA. Each event is classified as Warning  or Critical , with the latter requiring more careful attention.

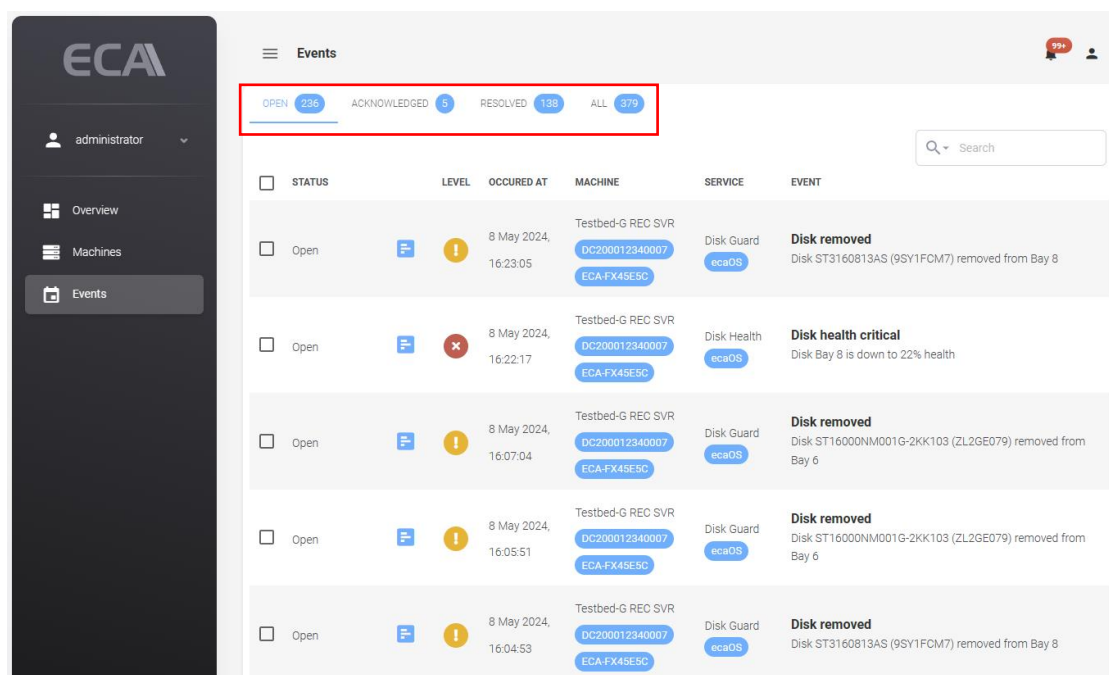



Figure 13: ecaCentral Events

Events are shown in the following tabs:

- Open: newly occurring events.
- Acknowledged: Events that you have acknowledged.
- Resolved: Events that you have resolved.
- All: all events listed in the three tabs above.

Clicking on the Audit icon  will reveal additional information about the event, allowing you to update the event status with comments.

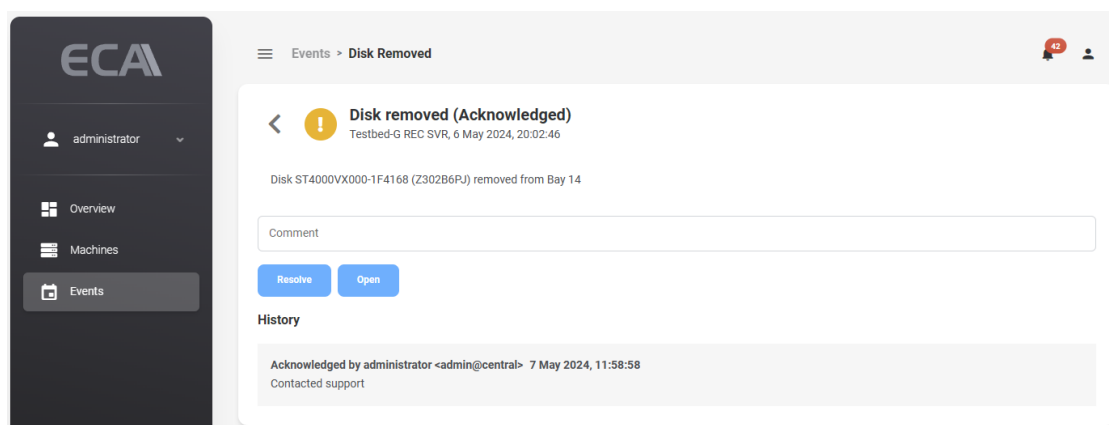


Figure 14: ecaCentral Events - Details

You can also mark multiple events by checking the checkboxes and assign their statuses with comments all at once.

The screenshot displays the ecaCentral Events management interface. On the left is a sidebar with the ECA logo and navigation links for Overview, Machines, and Events. The main panel shows an 'Events' table with columns for Level, Occurred At, Machine, and Event. The table lists five events, all with a status of 'Open'. Two events are selected, indicated by blue checkmarks in the first column. A red box highlights the 'ACTIONS' dropdown menu, which shows '2 events selected' and options to 'Mark Events as Acknowledged' and 'Mark Events as Resolved'. Below the table, a modal titled 'Mark Events as Acknowledged' is open, showing '2 selected events will be modified', a text area for a comment, and 'Cancel' and 'Confirm' buttons.

LEVEL	OCCURRED AT	MACHINE	EVENT
Open	7 May 2024, 11:54:47	Testbed-G REC SVR	Disk write activity below limit Average disk write activity has been below the set limit 33MB for more than 5 minutes. Current average disk write activity is 25.8MB
Open	7 May 2024, 11:54:32	Testbed-G REC SVR	Network receive activity below limit Average network receive activity has been below the set limit 324Mb for more than 5 minutes. Current average network receive activity is 251.3Mb
Open	7 May 2024, 11:17:50	Testbed-G REC SVR	Memory activity above limit Memory activity has been above the set limit 30% for more than 5 minutes. Average Memory activity is 34%
Open	7 May 2024, 11:03:05	Testbed-G REC SVR	CPU activity above limit CPU activity has been above the set limit 50% for more than 5 minutes. Average CPU activity is 60%
Open	7 May 2024, 10:38:09	Testbed-B	CPU fan speed below limit Average system temperature has been above 3000°C for more than 10 minutes. Current system temperature °C, average temperature °C

Figure 15: ecaCentral Events – Update events status