CA Application Performance Management - 10.7

Live and Historical Data in the Workstation Console

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Live and Historical Data in the Workstation Console

You can view live data in the Console, or can select a range of time to view historical data. The default view of data is Live.

You can see whether the Workstation is in Live mode by looking at the Time range drop-down list.

View Live Query Data in the Workstation Console

Follow these steps:

- Click Live to enable it and view live data.

The default value for time range is 8 minutes and resolution is 15 seconds. You cannot enter a custom time range and resolution for the live mode in the Console.

Note: Click Live to disable it and select a time range and resolution from the drop-down list to view historical data. You can also enter a custom time range.

To view live query data and historical data in the Workstation Console:

- To view live query data for time range greater than 8 minutes, edit the introscope. enterprisemanager.workstation.extendedLiveQuery property in the IntroscopeEnterpriseManager.properties file in the *<EM_Home>*\config directory as follows: *introscope.enterprisemanager.workstation.extendedLiveQuery=true*
  When this property is set to true, you can use the Time range and Resolution drop-down lists in the Workstation dashboard in the Live mode. These options let you enter custom time range and resolution for the live mode instead of the default time range of 8 minutes and resolution of 15 seconds.
  You can set the time range for a greater period than the default time range of 8 minutes.
  Note: The maximum time range for which you can view live data is 30 days. If you enter a time range greater than 30 days, the Time Range is set to 8 minutes by default. The number of data points that are displayed in the dashboard is equal to (Time Range/Resolution). If (Time Range/Resolution) is less than 2, the resolution is set to 15 seconds by default.

> **Important!** Setting the time range to greater than 8 minutes might impact the performance of Enterprise Manager due to the disk I/O operations needed to fetch data from SmartStor.

Enable and Disable Live Mode

In the Workstation Console, live mode is enabled by default. You can enable or disable live mode by clicking the Live button.

Note: When the Console is in the live mode and the resolution is 15 seconds, the resolution that is shown in the Console (toolbar) is used to display the live data. When the Console is in the live mode and the resolution is a number greater than 15 seconds, the resolution from the widget is used to display the live data. For more information about Data Options, see Adding data to data viewer using the data options dialog.

View Historical Data

To view historical data, you select a time range. When you select a time range, Introscope immediately shows the data for that range, sets the end time to the current time, and bases the duration on your time range selection.

To switch from live to historical data:

- Click the Live button.

With live mode disabled, you can:

- Select a time range and resolution from the drop-down lists.

- Enter a custom time range

- View historical data.

The time range controls can help you identify the time that a problem occurred. For example, you think the problem occurred within the last hour, so you set the time range to an hour and look at the data from the current time backward. If you do not see the problem within that hour range, use the controls to move backward or forward to locate the time that the problem occurred.

To view historical data:

1. Select the metric or dashboard for which you want to see historical data.

2. Select a time range for the historical view from the Time Range drop-down list.
   Introscope shows the data for that range, using the duration that you selected from the Time Range drop-down list and setting the end time to the current time.
   Note: If your historical time range includes a year, a four-digit year is required.

   For example, suppose that you select a time range at 4:06:45, with a duration of 8 minutes -- the end time for the range is therefore set to 4:06:45, and the start time is 3:59:30.
   Note: When you use the time-range control to view historical data, the range you select is applied to other metrics or dashboards in the same window, and to any new windows that you open.

3. Now you can select a resolution to adjust the granularity of the view, by increasing or decreasing the number of data points that appear.
   Each predefined time range is associated with a default resolution. You typically do not need to change this setting. Changing the resolution is useful when you want to see a greater level of detail or granularity in the data than appears by default.
   From here, you can:

   - Select a predefined time range from the drop-down list, or

   - Enter a value into the Resolution field. Enter numeric values, followed by the duration -- seconds, minutes, hours, or days. For example, "90 Seconds".

4. After you select a time range you can adjust it, using the time range controls.

Alerts in historical mode do not reflect historical alert state

Alert values are not captured in any database, so if a dashboard in historical mode displays alerts, those alerts do *not* reflect the historical state. If data for the alerts is being reported in the present time, the alerts reflect live, not historical values.

Time Range Controls

You can use time range controls to scroll in increments that are based on the time range you selected.

Slider

Drag the slider on the time bar to change the time range.

Arrows

Arrow controls allow you to move back and forth in time within your data range.

Click the arrows to move backward and forward in time.

The single arrows move backward or forward in small increments; the double arrows move backward or forward in time increments that are about equal to the time of the selected time range.

Reset icon

Click the Reset icon to reset the end time to the current time.

Click the Reset icon to reset the end time of the range to the current time.

Lock Icon

Click the lock icon to hold your selected resolution.

Clicking the lock icon maintains your selected resolution as you select different time ranges by zooming in on data.

Define a Custom Time Range

To define a custom time range to view historical data:

1. Select the metric or dashboard for which you want to see historical data.

2. Select Custom Range from the Time Range drop-down list.
   The Custom Range window opens, showing the current date (Today) highlighted with an outline.

3. Select dates:

   a. Use the calendar controls to select the start and end dates and times.

b. Use the menu controls at the top of the calendar to select the month and year, select the date on the calendar, and type in the time in the time field at the bottom of the calendar.

c. Click OK.

Workstation shows the data for the custom range.

Zoom into Historical Data in Graphs

When you view historical data in a graph, you can zoom in on data by clicking the mouse pointer on a graph position and dragging, to specify the time range.

Introscope refreshes the data in the viewer based on the new query, and the time range in the viewer shows the new range.

The global time range in the window and the Time Range control do not change automatically when you zoom in on data. For example, if you zoom in on a 10-minute period on a graph with the Time Range set to 1 hour, the graph shows the 10-minute period but the control remains at 1 hour, and the time bar still shows the hour range.

You can override the default zoom actions in these ways:

- Set the global time range and the Time Range control to match the zoomed view: select Viewer > Set Time Range From Zoomed Range, or click the Set Time Range from Zoomed Range icon.

- Lock your selected resolution by clicking the Lock icon.

- Hold down the shift key while you zoom, to constrain zooming to the time axis.