Downtime Displays

About Downtime Displays

The Downtime Displays application in the Plant Applications Universal Client enables you to access the downtime overview and downtime events list for the equipment assigned to you as an operator.

You can access the following pages in the Downtime Displays application:

- **Events**: A list of downtime events and their statuses corresponding to the equipment selected in the **My Machines** page appears. Only the machines that you as an operator can access appear in this page. In this page, you can perform the following actions:

    - Add a downtime event

    - Add a non-productive time (NPT) event

    - Modify existing downtime events

    - Merge or split events

- **KPIs**: An overview of key performance indicators (KPIs) such as overall equipment effectiveness (OEE), availability, mean time between failures (MTBF), and mean time to repair (MTTR) appears for all the equipment that you as an operator can access. The line charts for downtime breakdown and downtime by category also appear in this page.

    NOTE:

    If no data is available for a KPI or chart, a message indicating the non-availability of data for the corresponding KPI or chart appears in the **KPIs** page.

About Non-Productive Time in Downtime Calculations

When accessing the KPIs in Downtime Displays, Equipment, and Reports, you can include or exclude non-productive time (NPT) in the downtime calculation of KPIs.

The following sections describe various scenarios of downtime calculations.

Scenario 1: Downtime Duration is Within NPT Duration

The following table describes the scenario when the NPT event starts before the start time of the downtime event and ends after the end time of the downtime event. The table further includes the downtime calculation in this scenario.

Time Entry Type	Start Time (mm/dd/yy hh:mm)	End Time (mm/dd/yy hh:mm)	Duration (mins)	Downtime (mins)
				Include
Downtime	5/10/18 5:08	5/10/18 5:10	2	0
NPT	5/10/18 5:05	5/10/18 5:15	10	

The downtime duration is calculated as follows:

- When NPT is included: The downtime duration is ignored by the application. In this scenario, the downtime duration appears as 0 mins.

- When NPT is excluded: The actual downtime duration appears. In this scenario, the downtime duration appears as 2 mins.

Scenario 2: Downtime Starts Before NPT Starts and Ends Before NPT Ends

Split a Downtime Event

You can split an existing downtime event into multiple downtime events of equal or customized duration so that you can accommodate correct reasons to downtime events that happened during the overall downtime duration.

1. Log in to the Plant Applications Universal Client.

2. Select .

    The **Events** page appears, displaying a list of downtime events and their details in a tabular format.

3. [Access the required downtime events list](#).

4. Select corresponding to a downtime event to split the downtime event.

    The **Split** page appears.

5. In the **Split** page, enter the number of target downtime events and the option to split the duration.

    a. In the **Number of Events** box, select a value corresponding to the downtime events into which you want to split the selected downtime event.

    NOTE:

    > You can split a downtime event into a minimum of two and a maximum of six further equal or customized duration downtime events.

    b. In the **SPLIT DURATIONS** section, select one of the following options:

    - **Equally**: The total duration of the selected source downtime event is equally divided into the duration of target downtime events.

        NOTE:

        > If you select this option, you cannot modify the duration for downtime events later.

    - **Manually** The total duration of the selected source downtime event is manually divided into the duration of new target downtime events.

    The **Split Event** page appears.

6. In the **Split Event** page, enter the duration and downtime reason.

   a. In the **Duration** column for a downtime event, enter a valid duration in the boxes corresponding to the time format hh:mm:ss.

   NOTE:
   > You can enter a duration for target downtime events only when you selected the option to manually enter the duration.

   b. In the **Quick Pick** column for a downtime event, you can select **Top n** to access the **Top n Reasons** menu, and then select a reason associated with a Fault Code.

   The n in **Top n** and the **Top n Reasons** menu represents a numeric value indicating the top downtime reasons most frequently selected by the operator. The numeric value represented by n can range from 0 to 5. You can configure reasons in the Plant Applications Administrator.

   NOTE:
   > The values that appear in the **L1**, **L2**, **L3**, and **L4** boxes for the levels of reasons are configured in the Plant Applications Administrator and are automatically populated, if available, based on the reason you select in the **Top n Reasons** menu.

   TIP:
   > Alternatively, you can select a downtime reason in the **L1** box, and then select the associated reason levels, if available, in the **L2**, **L3**, and **L4** boxes.

7. Select **Save** to split the downtime event in the required number of target downtime events.

   The target downtime events appear in the table displaying the list of downtime events and their details in the **Events** page.

Merge Downtime Events

You can merge multiple downtime events into one event.

1. Log in to the Plant Applications Universal Client.

2. Select .

The **Events** page appears, displaying a list of downtime events and their details in a tabular format.

3. [Access the required downtime events list](#).

4. In the **Events** page, select ☐ for each source downtime event that you want to merge into a single downtime event.

NOTE:

You can merge downtime events associated with the equipment from the same location only.

5. Select ⤳ to merge the selected events.

The merged downtime event appears in the table displaying the list of downtime events and their details in the **Events** page.

NOTE:

- When you merge downtime events, the time interval between the source downtime events is also added to the downtime duration of the merged downtime event.

- If the reasons for downtime differ between the source downtime events, the new merged downtime event uses the reason associated with the oldest source downtime event.

Delete a Downtime Event

1. Log in to the Plant Applications Universal Client.

2. Select 🕐.

The **Events** page appears, displaying a list of downtime events and their details in a tabular format.

3. In the table displaying the list of downtime events and their details, select ✖ to delete a single or multiple downtime events.

NOTE:

- To delete a downtime event, select ✖ for the downtime event in the table displaying the list of downtime events and their details.

- To delete multiple downtime events, select ☐ for each of them in the table displaying the list of downtime events and their details, and then select ✖ to delete the selected downtime events.

The selected downtime events are deleted and no longer appear in the table displaying the list of downtime events and their details in the **Events** page.