

TIMELINE CONTROL PROJECT

INTRODUCTION

The goal of this project is to develop a timeline control to be used on a web page in order to navigate a time-based dataset. Requirements for the project are listed below:

- The control must be able to graphically display data sequentially based on either start & stop times or a single timestamp for each event
- The control must graph horizontally
- The user must be able to easily navigate the timeline using the mouse cursor including scrolling, zooming, and individual event selection
- Each event must be able to be grouped with other similar events
- A javascript event must be raised when a timeline event is selected, the timeline is zoomed, scrolled, etc.
- The timeline must be able to scale to the specified start and stop timestamps (ex. To show events for the current day)
- Events must be able to have the color set based on the event type and/or value
- External libraries may be used
- The control may use Bootstrap if needed/useful
- The control should include control part ids to use for styling

EXAMPLE DATASET

```
[{
  "type": "device status",
  "event": "active",
  "start": "2017-04-17T10:00:00.000Z",
  "stop": "2017-04-17T10:15:00.000Z"
},
{
  "type": "device status",
  "event": "idle",
  "start": "2017-04-17T10:15:00.000Z",
  "stop": "2017-04-17T10:17:00.000Z"
},
{
  "type": "device status",
  "event": "active",
  "start": "2017-04-17T10:17:00.000Z",
  "stop": "2017-04-17T10:45:00.000Z"
},
{
  "type": "device status",
  "event": "alert",
  "start": "2017-04-17T10:45:00.000Z",
  "stop": "2017-04-17T11:00:00.000Z"
}]
```

DESIGN EXAMPLE

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Devices / 1277db29-bc6d-4d42-85b0-7e881a4ea76d / Activity

Activity

Programs OEE Samples Overrides Data Items

Select Event:
Device Status

This Hour Today Yesterday This Week Last Week This Month Last Month

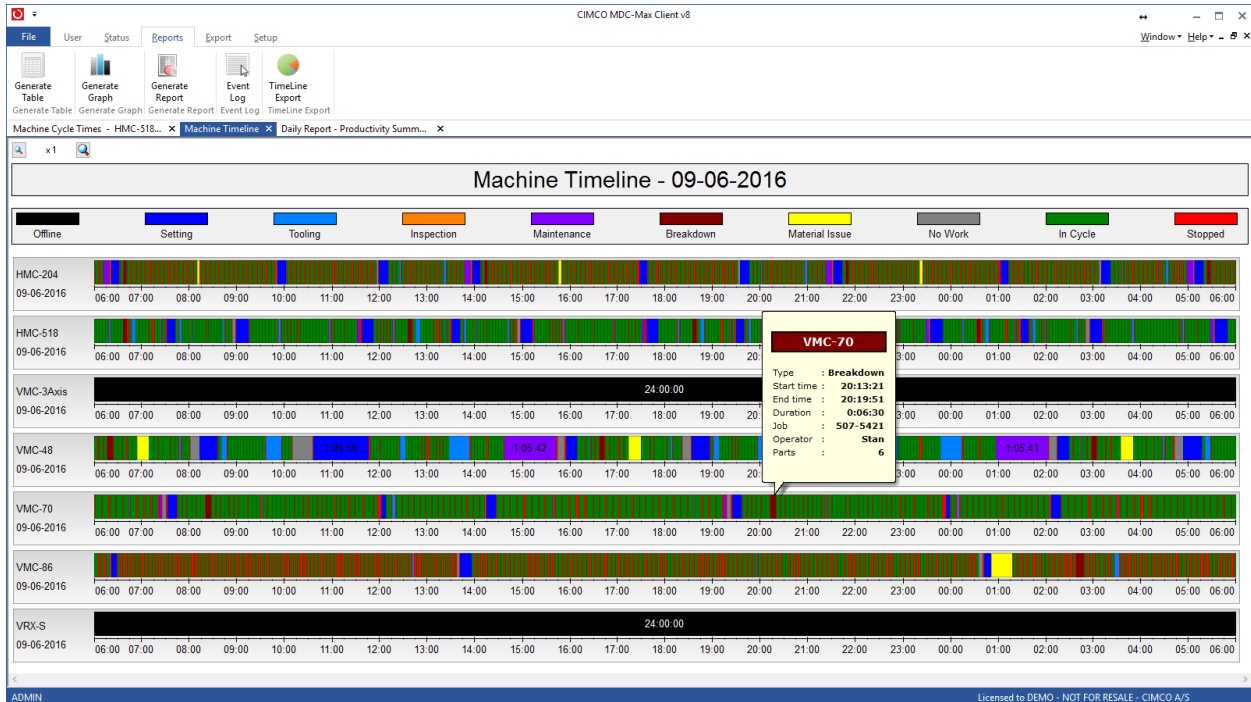
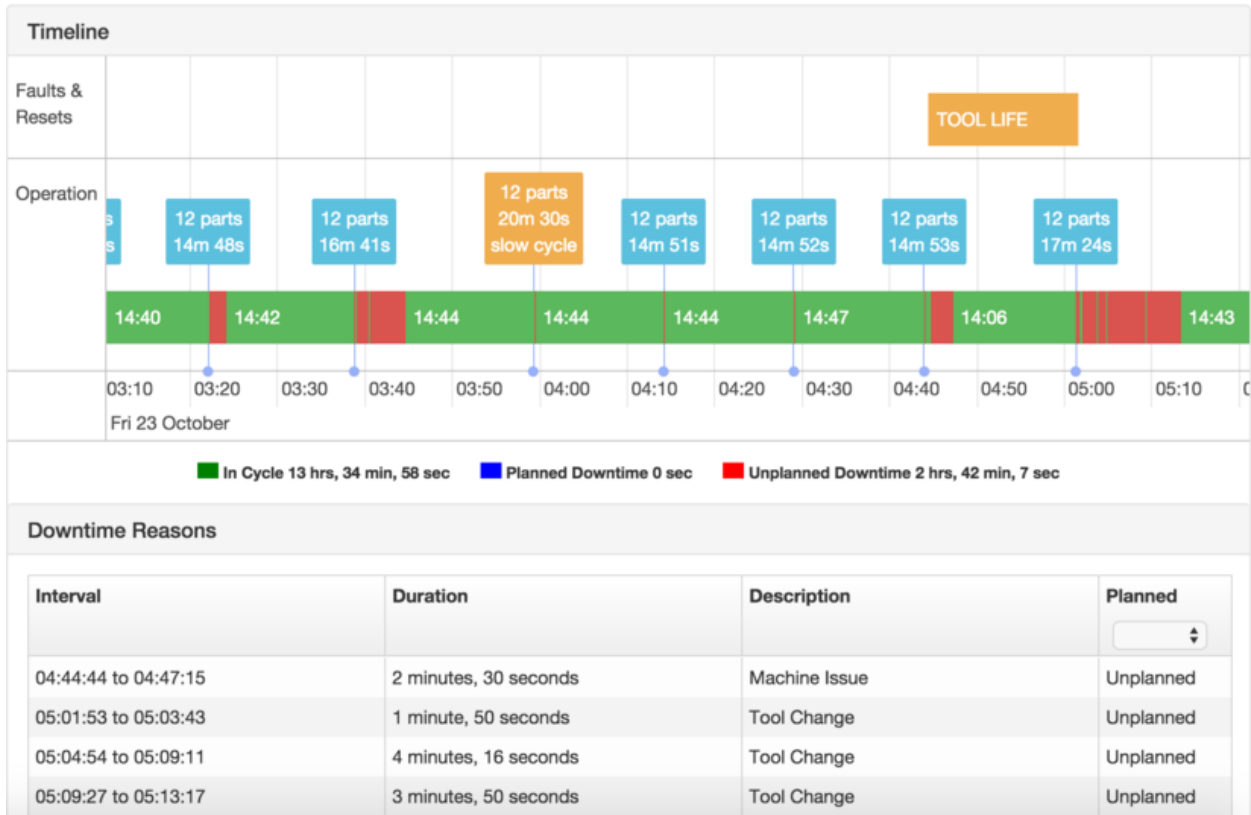
From To [Apply Filter](#)

Timeline

Selected Event

Active
Start: 10:30 AM (2017-04-17T10:30:02.0234+4:00)
End: 11:15 AM (2017-04-17T11:15:02.0234+4:00)

SIMILAR EXAMPLES



CONTACT

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