

The background is a dark purple gradient. On the left, there are two vertical neon lines, one blue and one magenta, with a horizontal magenta line intersecting the blue one. On the right, a large, glowing magenta arc curves from the top towards the bottom. The text 'AVEVA WORLD' is centered in a white, bold, sans-serif font.

AVEVA WORLD

AVEVAWORLD

APRIL 9, 2025

AVEVA Hybrid MES with CONNECT Data and Visualization Services

Jeff Barkehanai

AVEVA



AVEVA WORLD 2025

Agenda

Moscone West Center
San Francisco

Overview of CONNECT
AVEVA Hybrid MES in CONNECT
Visualization of MES Event Data
AVEVA MES Data Publishing

Overview of CONNECT



CONNECT

Industrial intelligence platform



A unified experience to manage cloud and on-premises applications



Aggregate, contextualize, and share real-time industrial data



Visualize industrial data using self-service and pre-defined dashboards



Combine existing data with AI for faster and smarter decisions



Expand your ecosystem with solutions that bring added value

Community Data Sharing



Securely share operations data in a bidirectional way across tenants with your trusted business partners



Features

- Bidirectional and secure data sharing across tenants
- Granular control over your data and what data each partner sees

Benefits

- Shared data can be:
 - Trended in CONNECT data services
 - Shaped and leveraged in data views and REST APIs to drive machine learning and AI projects
 - Visualized in Power BI using our Power BI connector
 - Shared across custom applications, AI/ML platforms, or third-party analytics tools, like Grafana, via REST APIs
 - Queried for changes with our new data change broker

AVEVA Advanced Analytics

Combine existing data with AI for faster and smarter decisions



Features

- Automate investigations and understanding of performance drivers with ML
- Consolidate learnings and apply solutions that mitigate problems and improve performance
- Leverage CONNECT data services and digital twins to create analytical models
- Apply algorithms & logic to continuously assess performance
- Give early warnings of performance issues with improvement suggestions

Benefits

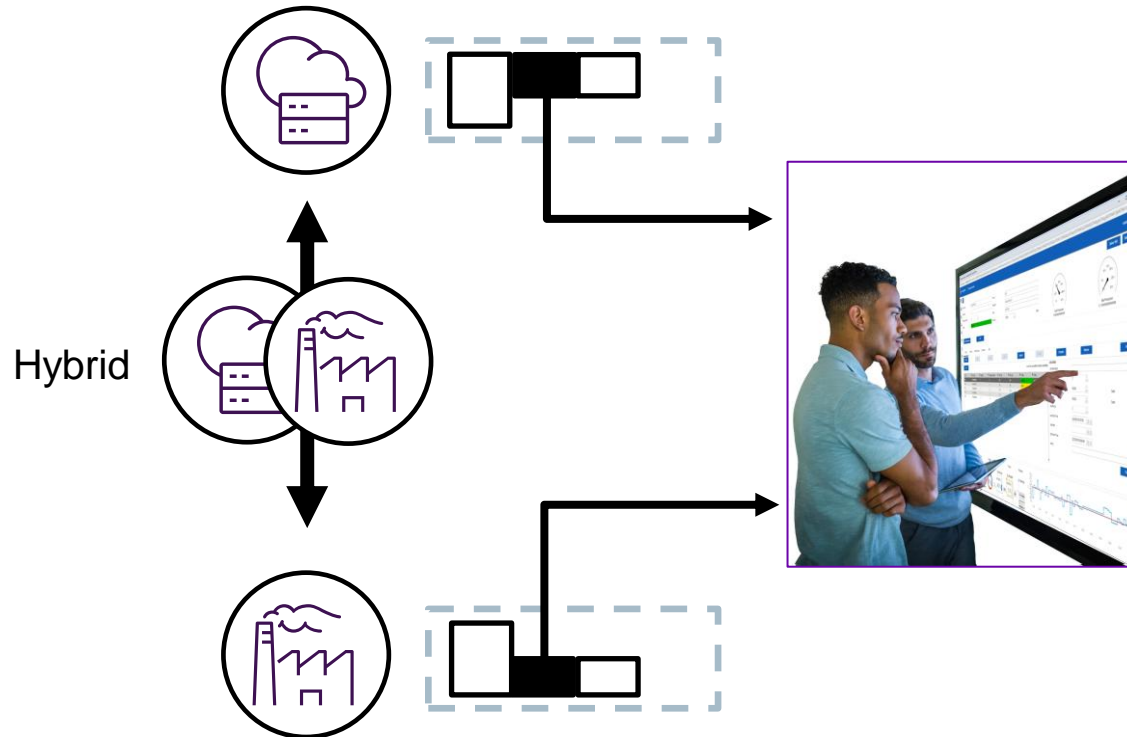
- Improve process efficiency
- Understand production outcomes and get recommended corrective actions
- Additional Session: “AVEVA Smart MES - Advanced Insights and Guidance, Optimized with AI” (Lightning session in Spotlight Theater at 2:15)

AVEVA Hybrid MES in CONNECT



AVEVA MES - Hybrid

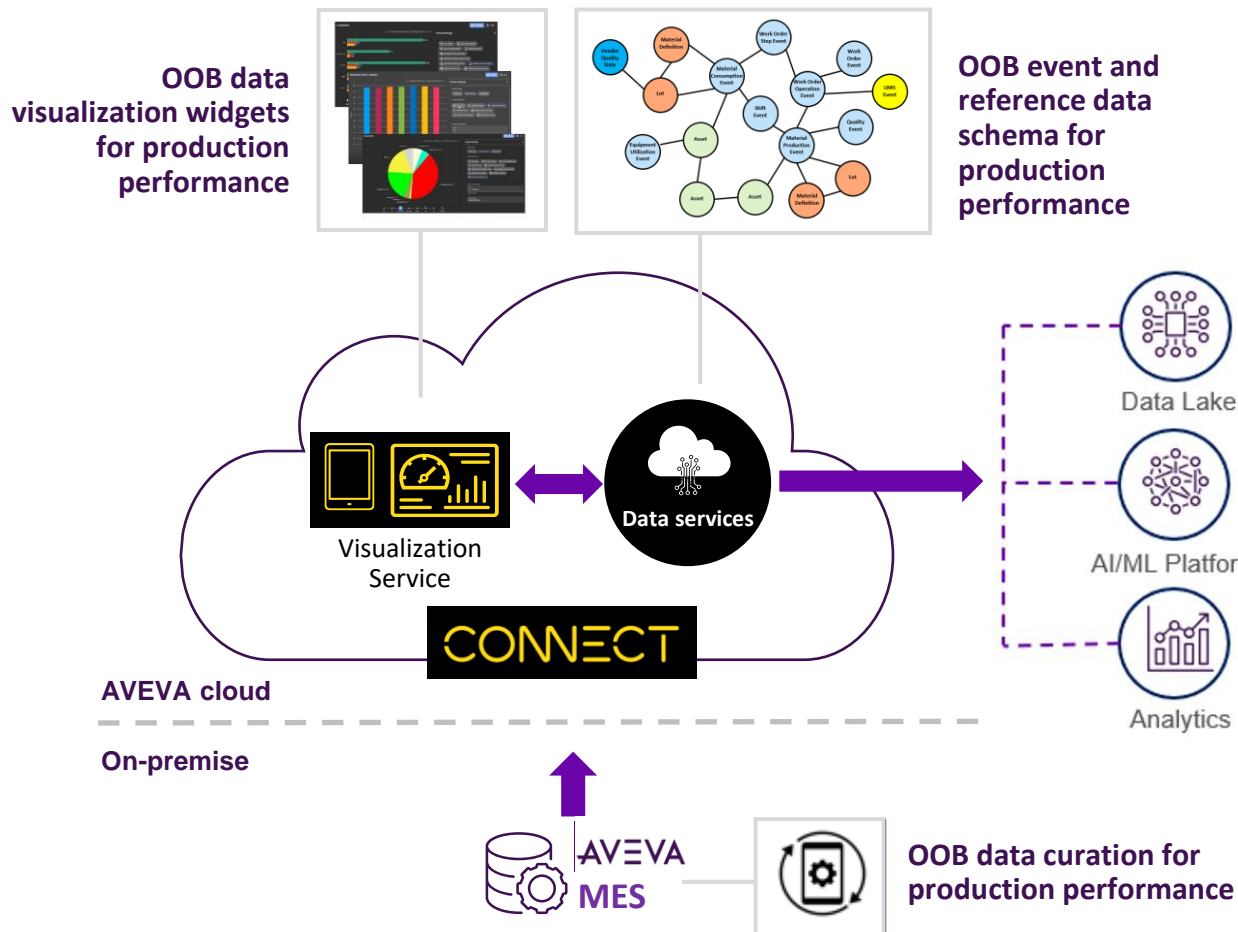
What is a Hybrid MES Application?



- “**Hybrid MES**” refers to a **new deployment option** we are providing with our commercial **MES offerings**.
- This new capability will allow us to **host/run some capabilities of our MES solution** (e.g., core execution functions, etc.) **at the edge/on-premises** and other capabilities (e.g., data management, analytics, optimization, etc.) **in CONNECT**.

AVEVA MES - Hybrid

Integration with CONNECT



Adopts CONNECT as an enterprise data management service

- Store **event data** (production, utilization, etc.) and **reference data** (related contextual info) for enhanced production performance analysis
- **Out-of-the-box event and reference data schema** that can be employed for AVEVA MES and 3rd party MES data

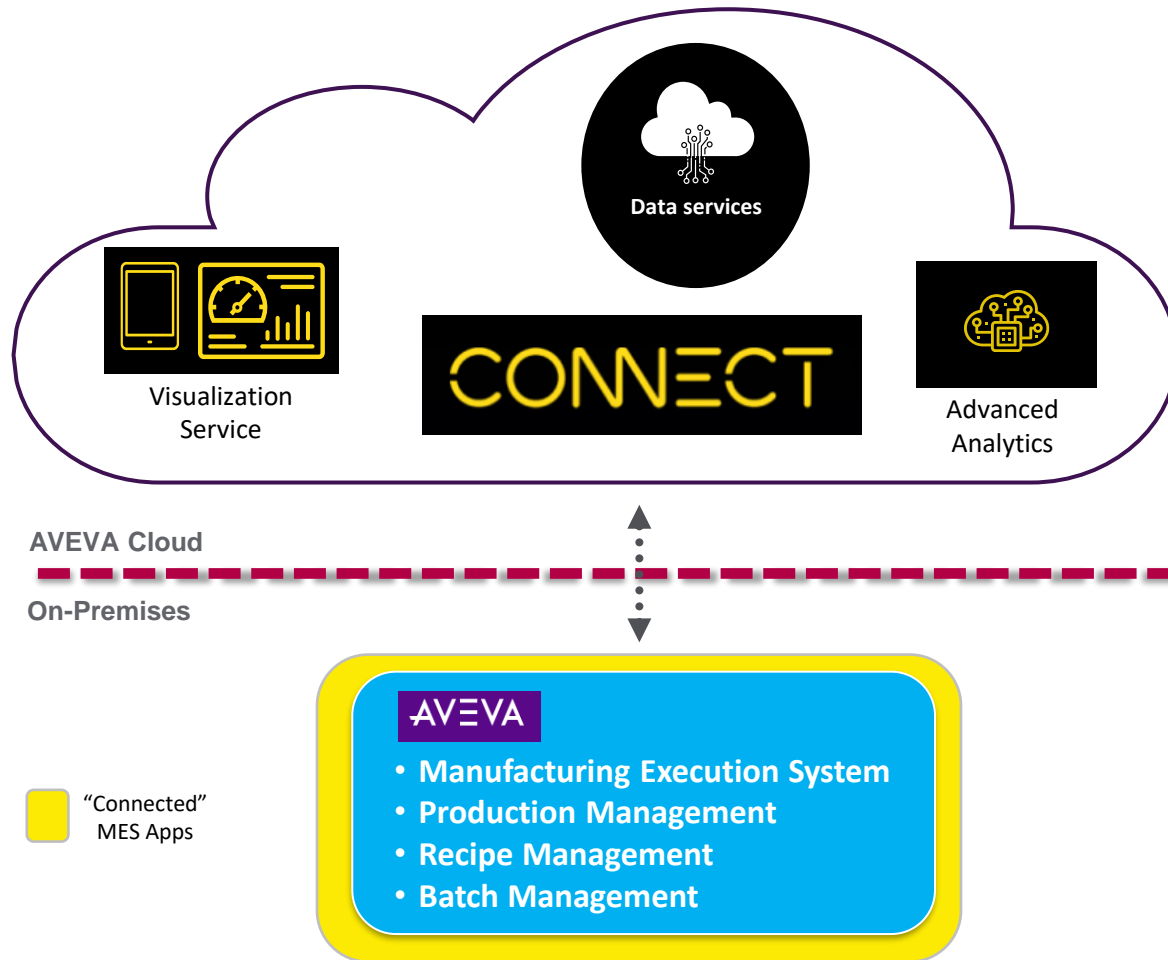
Adopts CONNECT as an enterprise visualization service

- Visualize **event data** (production, utilization, etc.) and other **operational data** (e.g. HMI displays, time series data, etc.) in a single pane of glass
- **Out-of-the-box AVEVA MES data visualization widgets** that enable end users to rapidly assemble production performance dashboards
- Access to Advanced Analytics

On-premises AVEVA MES provides:

- **Out-of-the-box cloud integration capabilities** to manage the persistence of event and reference data in CONNECT data services in a **safe, secure and robust manner**

MES Portfolio Evolving to a Hybrid Cloud Architecture



Commercial MES Offerings...

Transition our MES products to cloud “Connected” MES apps

AVEVA MES is the initial offering:

AVEVA Manufacturing Execution System 7.0.1 – hybrid

Supports MES 2020 and 2023 (April / October 2024)

AVEVA Manufacturing Execution System 2023 R2 (Q3 2025)

Production Management followed:

Production Management 2024 9.1 – hybrid (Sept 2024)

Production Management 2023 9.0 – standalone publisher (Feb 2025)

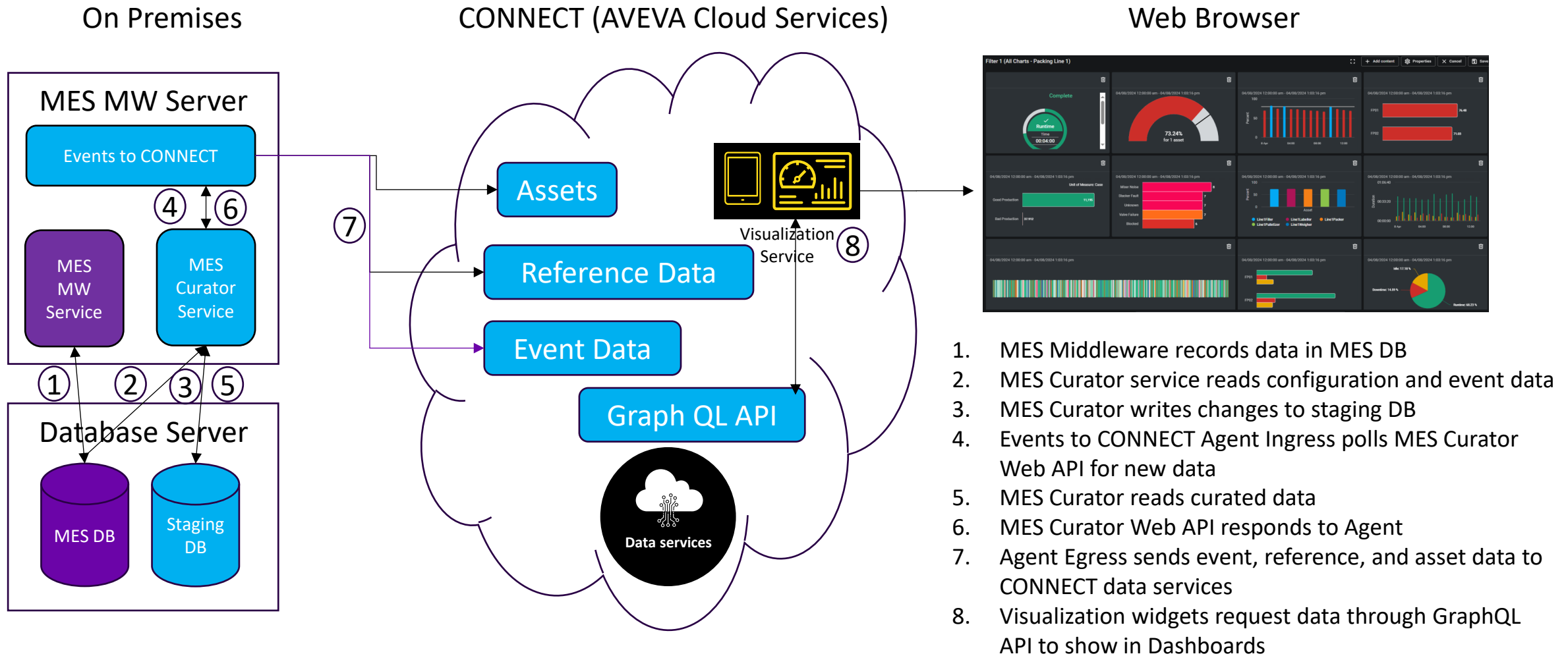
Recipe Management and Batch Management (future)

MES Portfolio Evolving to a Hybrid Cloud Architecture

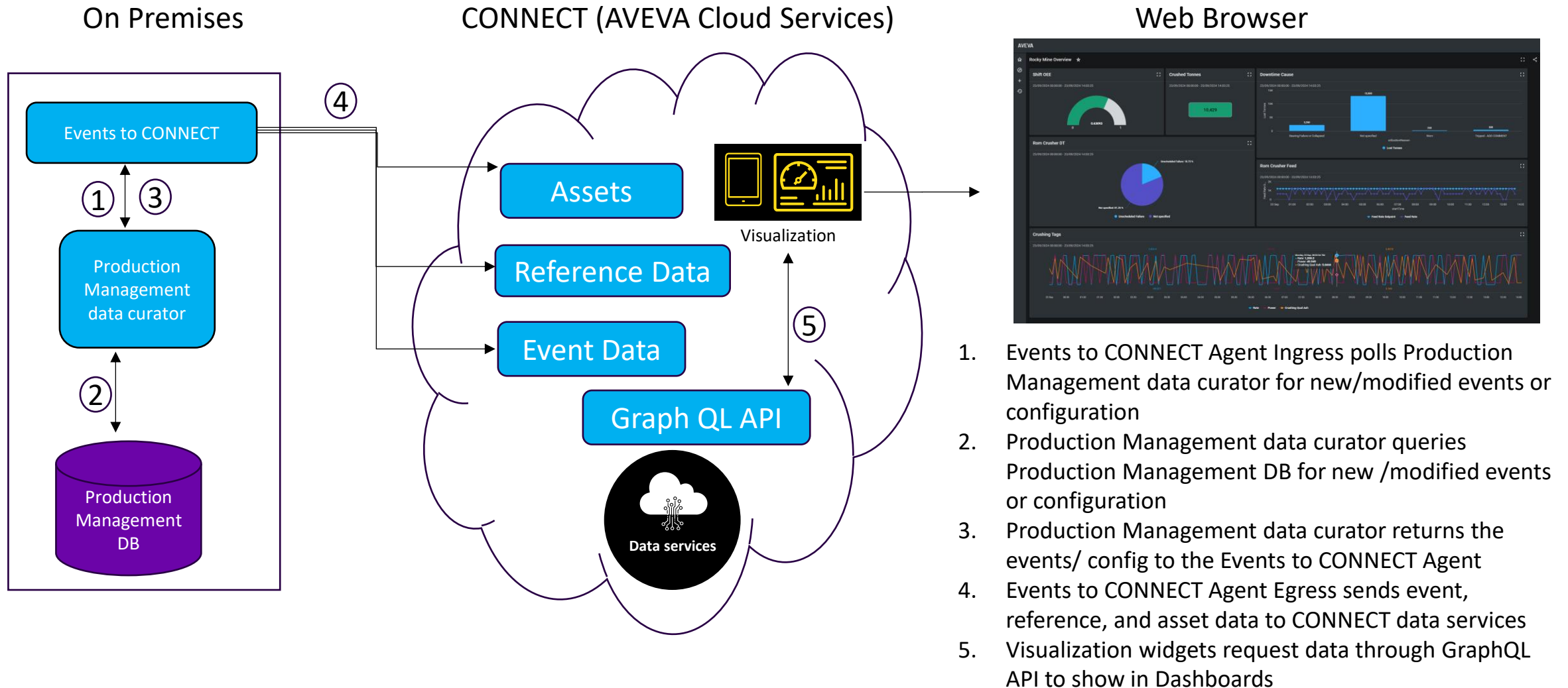
CONNECT Data Services Event Data Store

- Assets
 - Hierarchical Equipment Model
 - Trait Definitions
- Examples
 - Site
 - Area
 - Equipment
 - Track Jobs
 - Track OEE
- Event Data
 - Point in time transactional event
 - Span of time events
- Examples
 - Material production event
 - Material consumption event
 - Production Job state change
 - Equipment downtime event
 - Shift history
- Reference Data
 - Contextual Data related to Asset or Event
 - Includes Enumerations for set of values
- Examples
 - Materials
 - Disposition Codes / Reason Codes
 - Equipment State Type
 - Units of Measure
 - Users

AVEVA MES-hybrid - Enterprise-wide Data Management



Production Management -hybrid - Enterprise-wide Data Management



Visualization of MES Event Data





CONNECT Visualization Widgets for Asset Efficiency

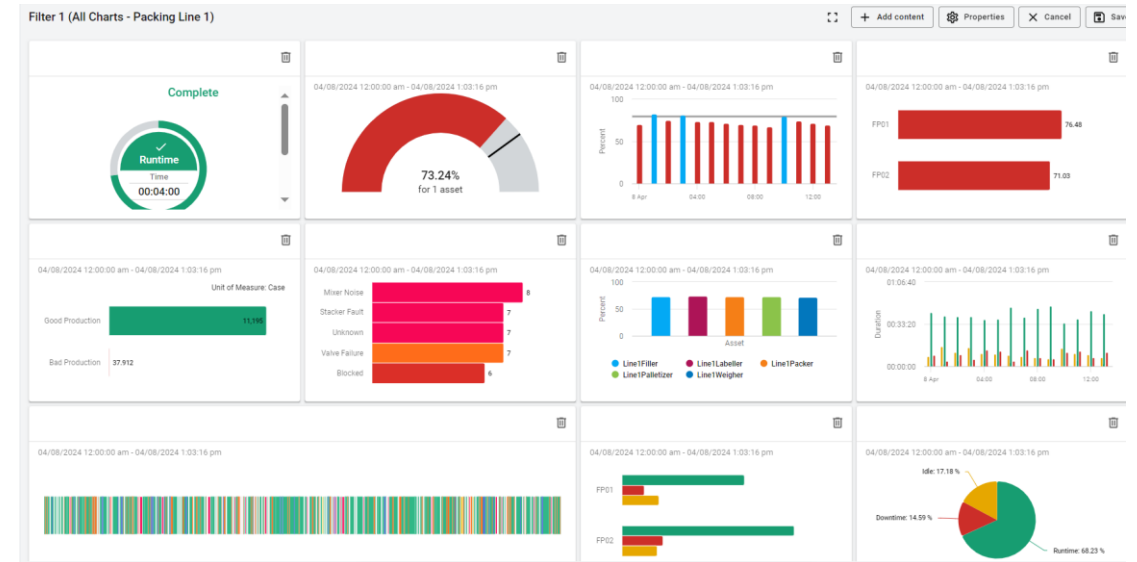
Support for Two Different Themes

- Dark Theme (Default)

- Light Theme



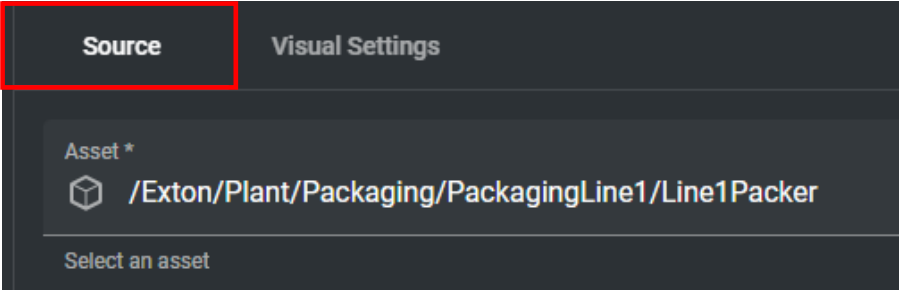
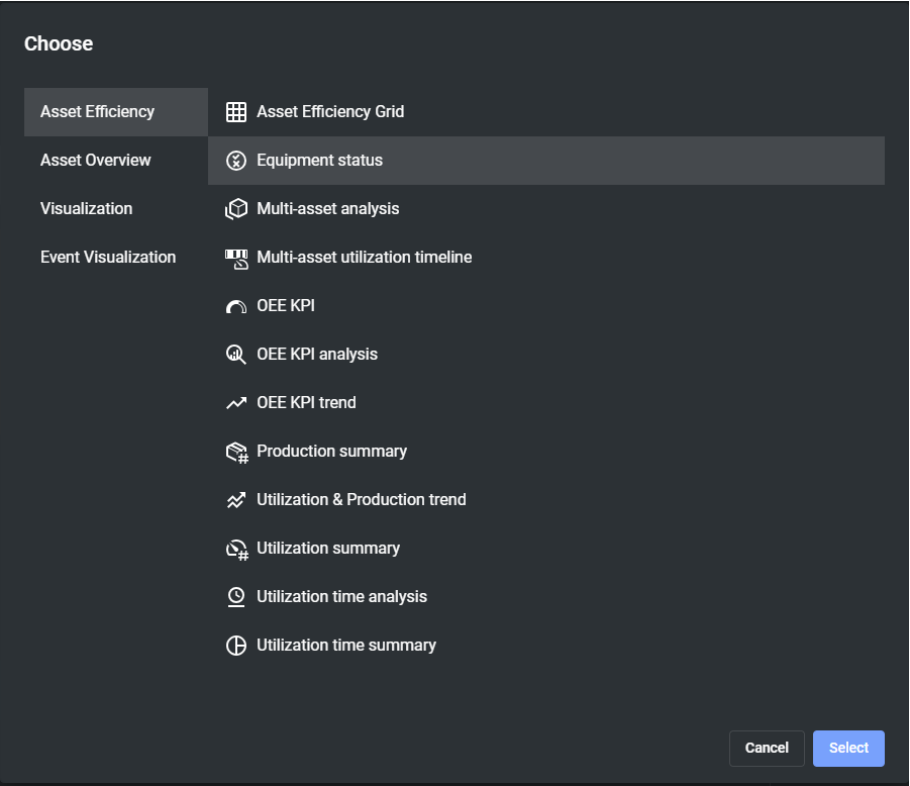
- My Profile
- Switch Solution
-  Toggle Theme
-  Sign Out



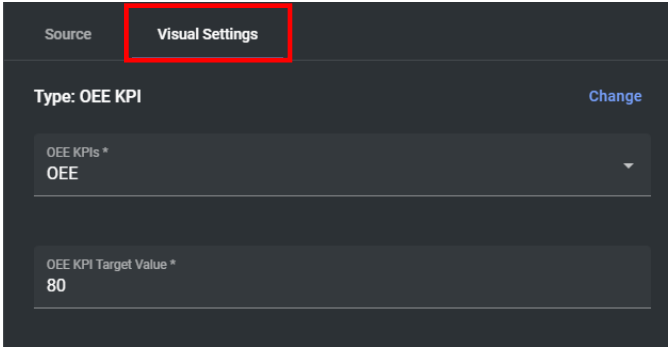
CONNECT Visualization Widgets for Asset Efficiency

Common Approach to Widget Configuration

- Widget selection browser
- Widget asset selection



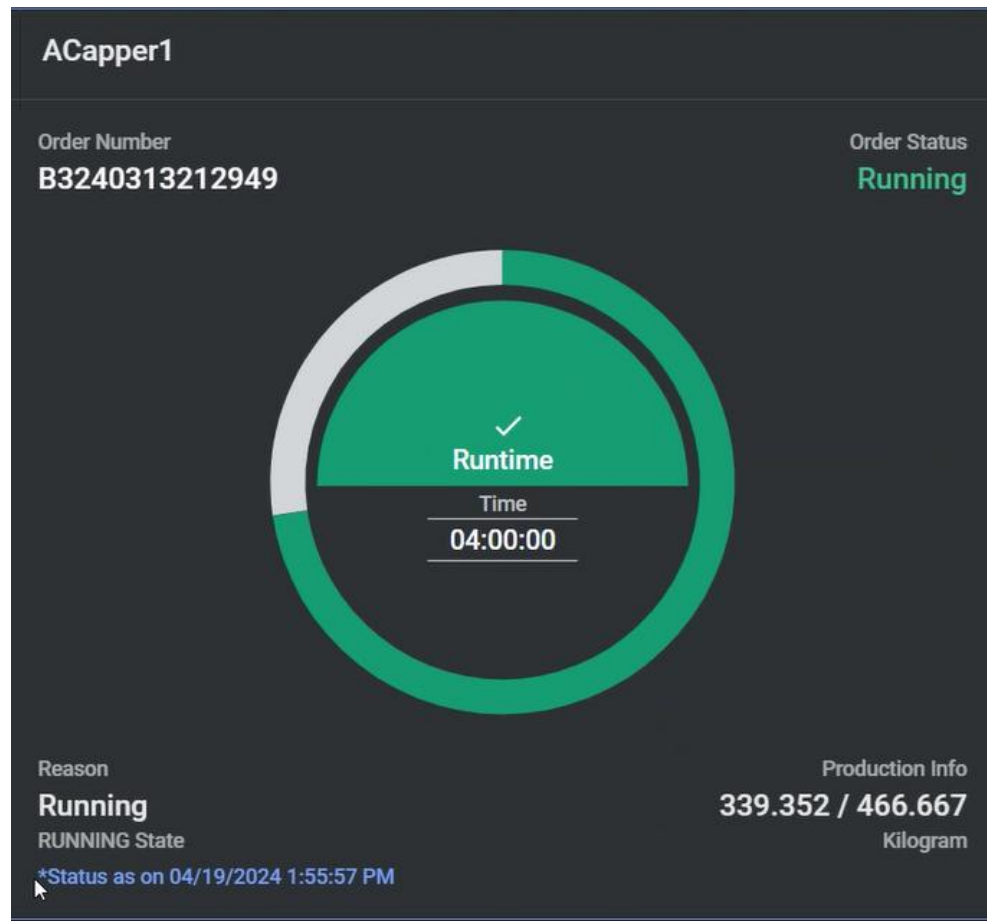
- Widget visualization Settings



CONNECT Visualization Services – MES Event Visualization

Equipment Status (Utilization History for current event, Job History for production)

- Widget Look



- Asset selection

The Properties dialog shows the 'Source' tab. The 'Asset *' field is populated with '/Exton/Plant/Packaging/PackagingLine1/Line1Packer'. Below the field is a 'Select an asset' button.

Properties

Source Visual Settings

Asset *
/Exton/Plant/Packaging/PackagingLine1/Line1Packer

Select an asset

- Properties visual settings to enable or not details

The Properties dialog shows the 'Visual Settings' tab. The 'Type' is 'Equipment status' and the 'Include details' checkbox is checked. A 'Change' button is visible next to the type.

Properties

Source Visual Settings

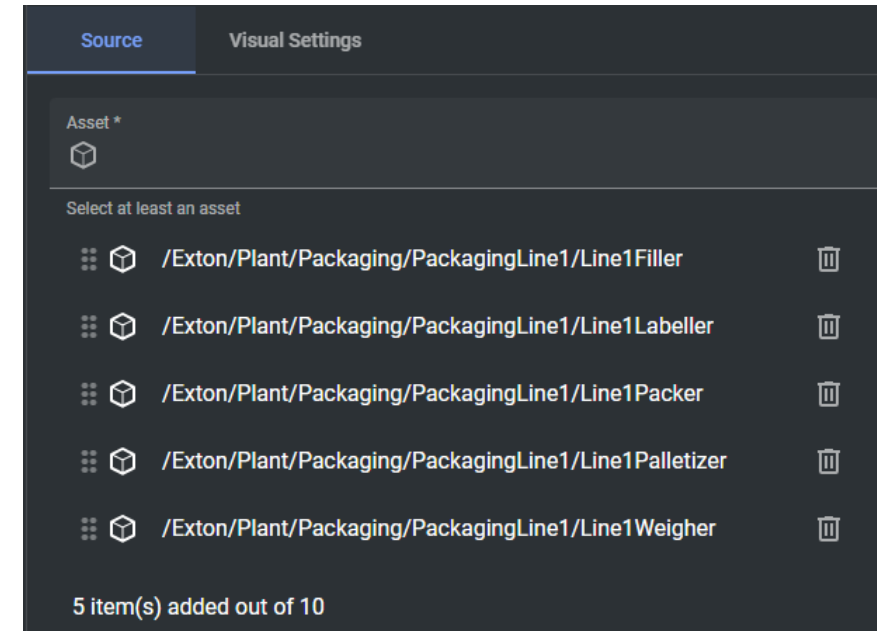
Type: Equipment status Change

☒ Include details

CONNECT Visualization Services – MES Event Visualization

Multi-Asset Utilization Timeline (Utilization History events)

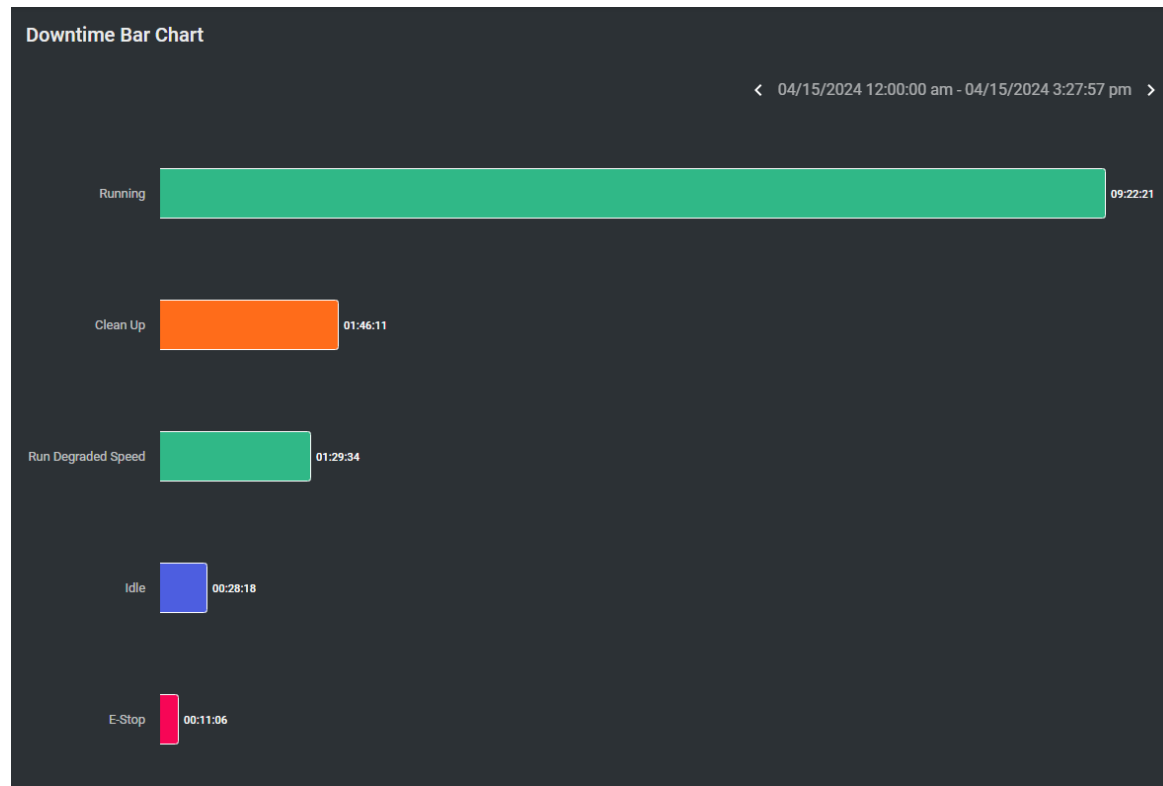
- Widget Look
- Up to 10 asset selection with re-ordering



CONNECT Visualization Services – MES Event Visualization

Utilization Summary Chart (Utilization History events)

- Widget Look



- Single Asset
- Visualization Settings
 - Select Count or Duration
 - Set Orientation
 - Set Number of bars
 - Select which state types
 - Downtime
 - Idle
 - Runtime
 - Downtime and Idle
 - All

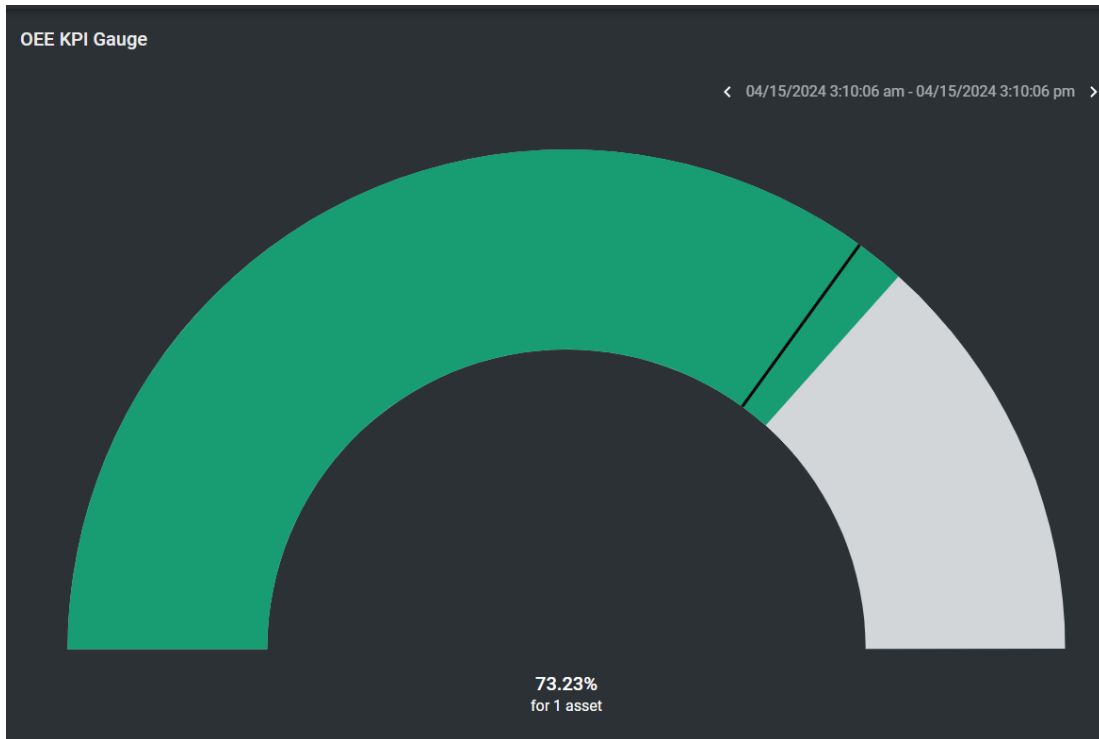
Visualization Settings panel for Utilization summary. The panel includes tabs for Source and Visual Settings. The Visual Settings tab is active, showing options for KPI Based on (Duration), Chart Orientation (Horizontal), Number of Top Reasons (5), and Utilization States (All).

Source	Visual Settings
Type: Utilization summary Change	
KPI Based on * Duration	
Chart Orientation * Horizontal	
Number of Top Reasons * 5	
Utilization States * All	

CONNECT Visualization Services – MES Event Visualization

OEE Gauge (Job Hour History events)

- Widget Look



- Single Asset
- Visualization settings
 - KPI selection: OEE, Performance, Availability or Quality
 - Manual setting of Target (default is MES target)

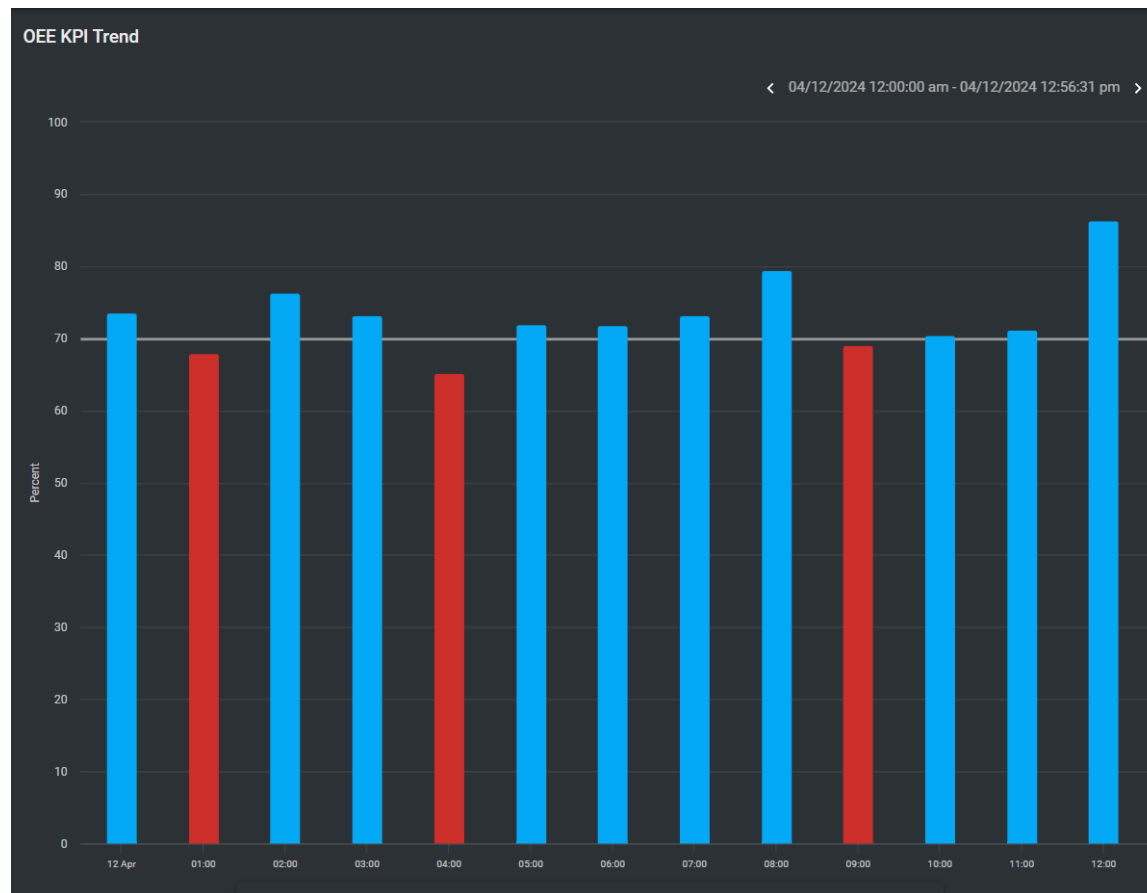
The figure shows the "Visual Settings" configuration panel for the OEE KPI. It has two tabs: "Source" and "Visual Settings", with "Visual Settings" being the active tab. The configuration includes:

- Type: OEE KPI** with a [Change](#) link.
- OEE KPIs *** dropdown menu set to **OEE**.
- OEE KPI Target Value *** input field set to **70**.

CONNECT Visualization Services – MES Event Visualization

OEE KPIs Trend (Job Hour History events)

- Widget Look



- Single Asset
- Select KPI to show (OEE, Availability, Performance, or Quality)
- Orientation
- Buckets adjust based on time range
 - Day = hourly buckets
 - X Day = X hours in a bucket
 - 8 - 31 Days = daily buckets
 - >31 Days = weekly buckets

Visual Settings panel for OEE KPI trend widget.

Type: OEE KPI trend [Change](#)

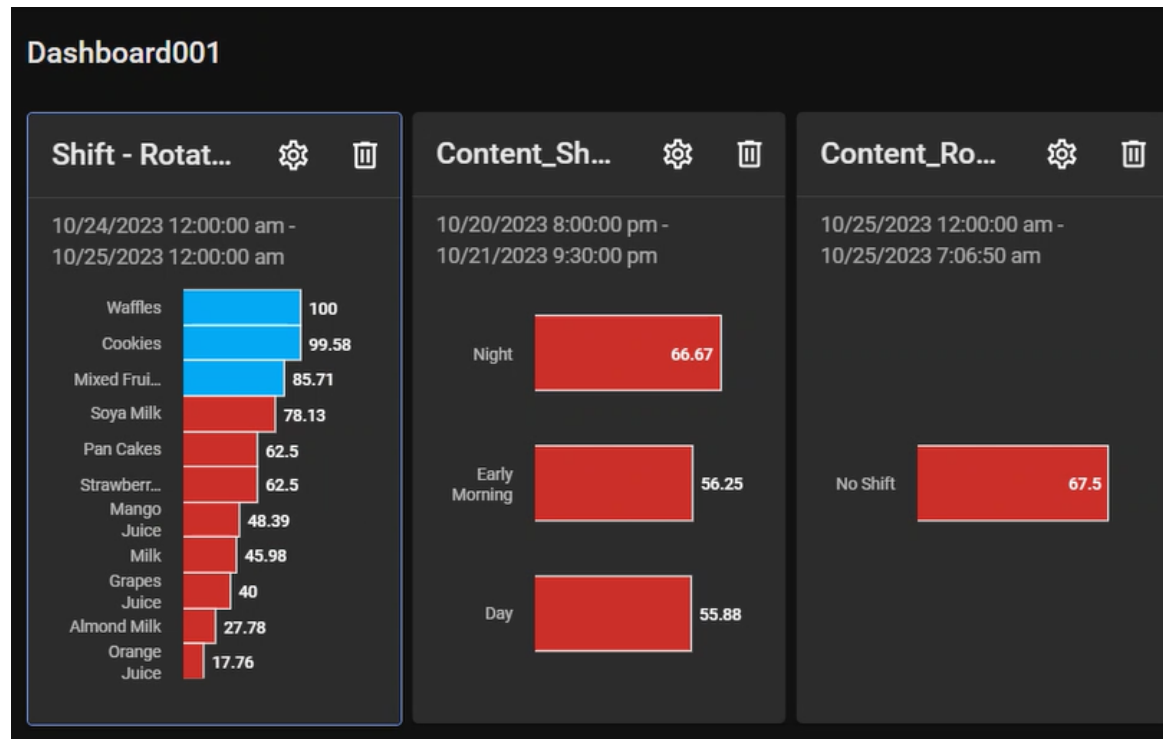
OEE KPIs *
OEE

OEE KPI Target Value *
70

CONNECT Visualization Services – MES Event Visualization

OEE KPIs Analysis (Job Hour History and Shift History events)

- Widget Look
- Single Asset
- KPI selection : OEE, Availability, Performance, Quality
- Manually set target
- GroupBy Product or shift



Source Visual Settings

Type: OEE KPI analysis [Change](#)

OEE KPIs *
OEE

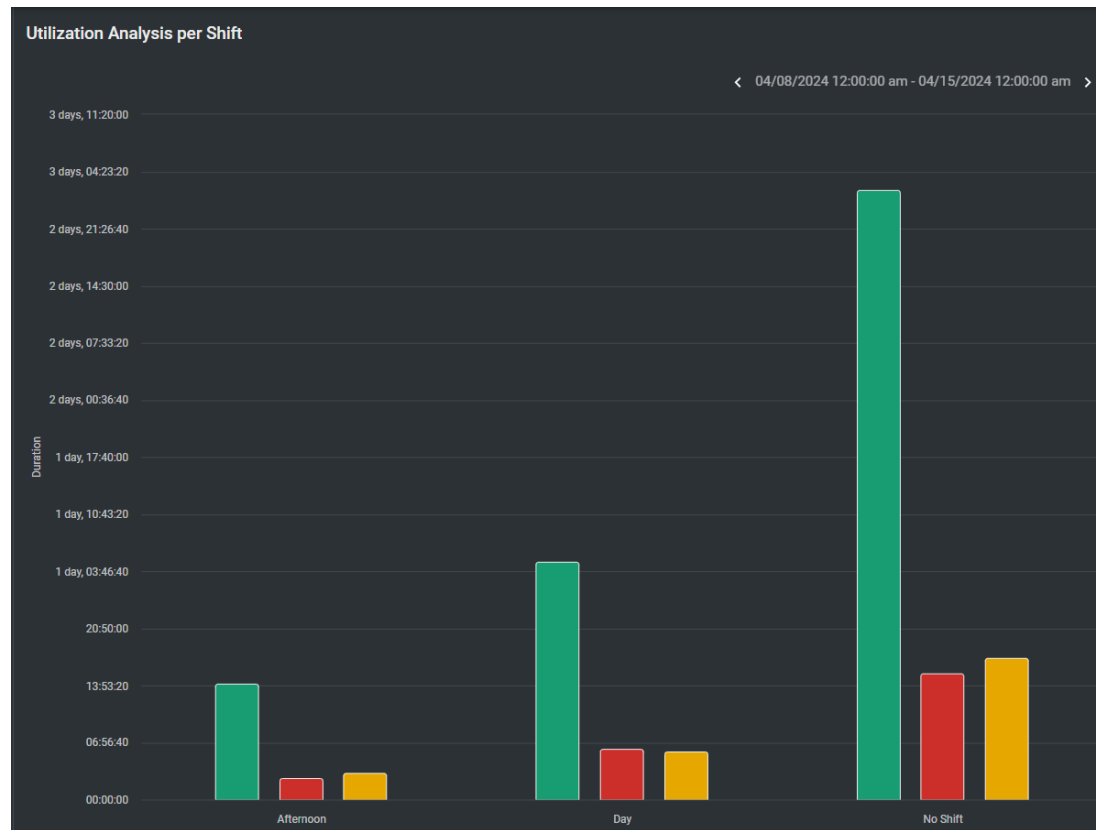
OEE KPI Target Value *
80

GroupBy *
Product

CONNECT Visualization Services – MES Event Visualization

Utilization Time Analysis (Job Hour History and Shift History events)

- Widget Look



- Single Asset
- Hours of Runtime, Downtime, and Idle time within time range
- Option to group by product or shift
- Orientation : Vertical or Horizontal

Source Visual Settings

Type: Utilization time analysis [Change](#)

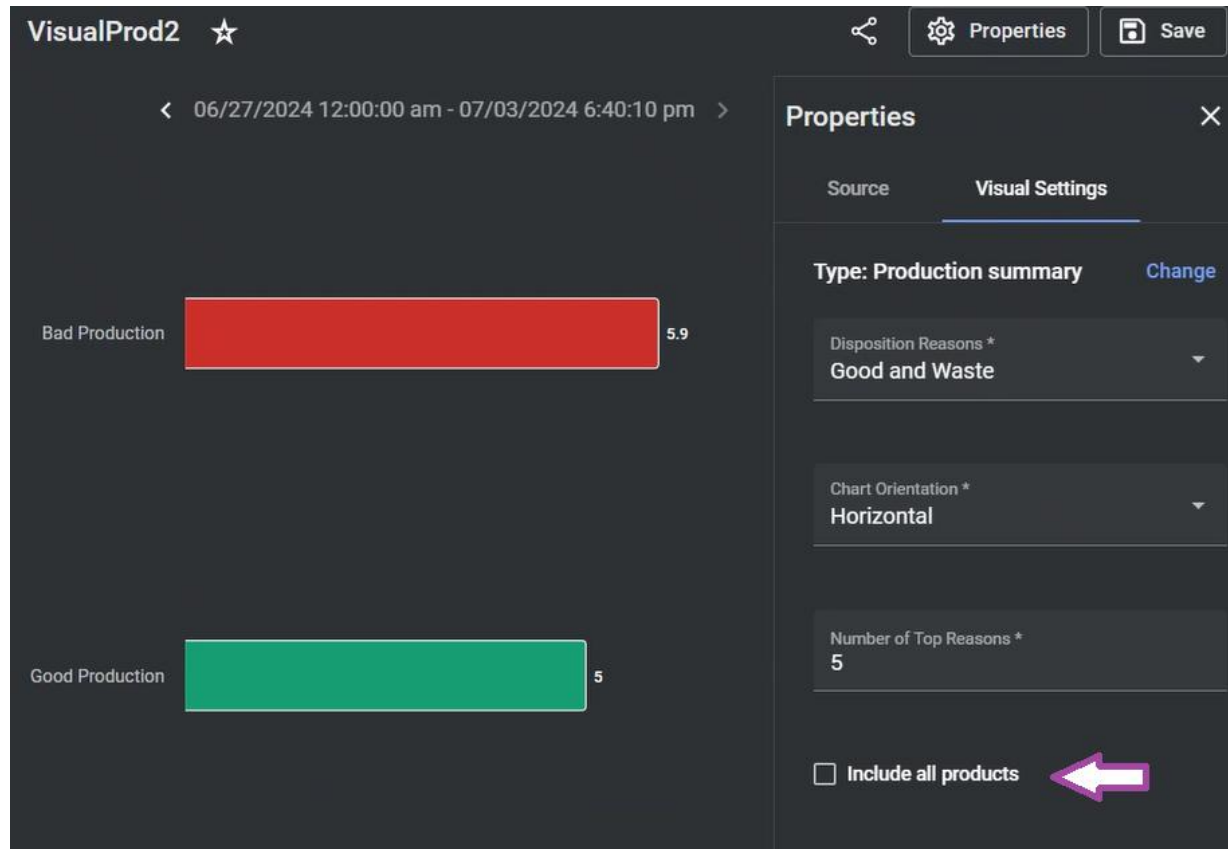
GroupBy *
Shift

Chart Orientation *
Vertical

CONNECT Visualization Services – MES Event Visualization

Production Summary – (Material Produced Events)

- Widget Look

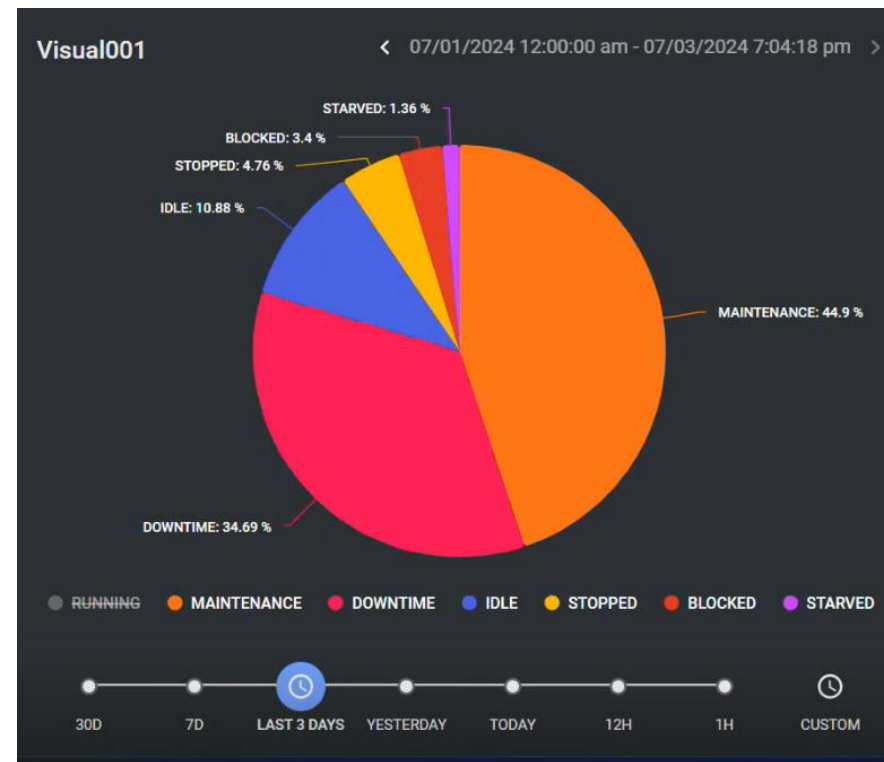
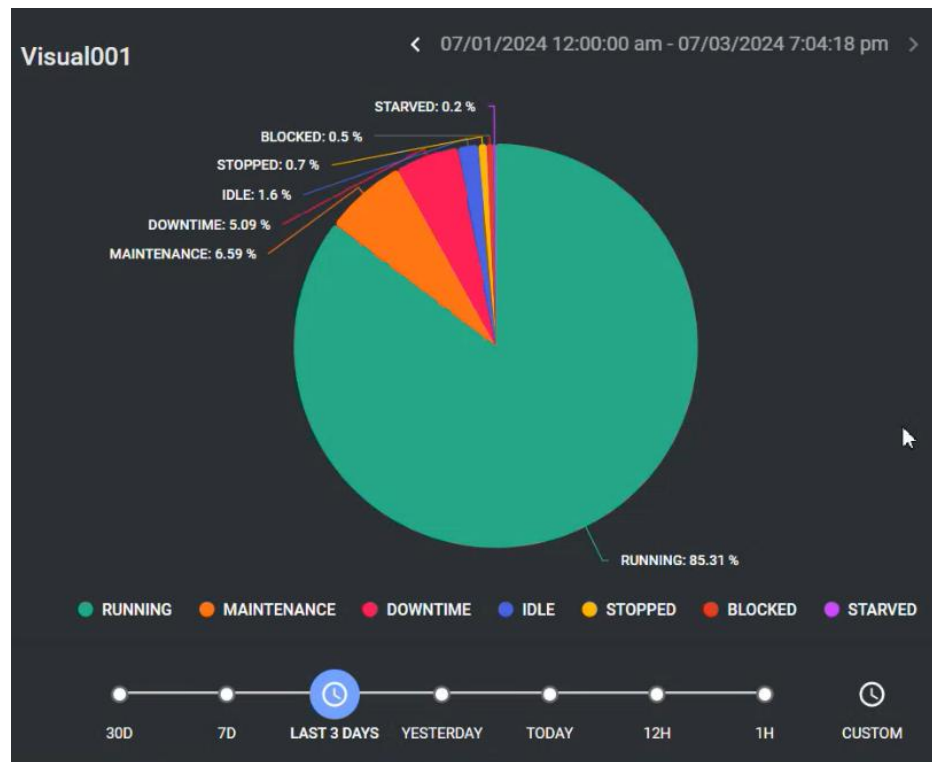


- Single Asset
- Visualization settings
 - Select Good, Waste or Both
 - Orientation
 - Set number of disposition codes
 - Option to include co-products / by-products

CONNECT Visualization Services – MES Event Visualization

Utilization Time Summary – Pie chart of time in state (Utilization History Events)

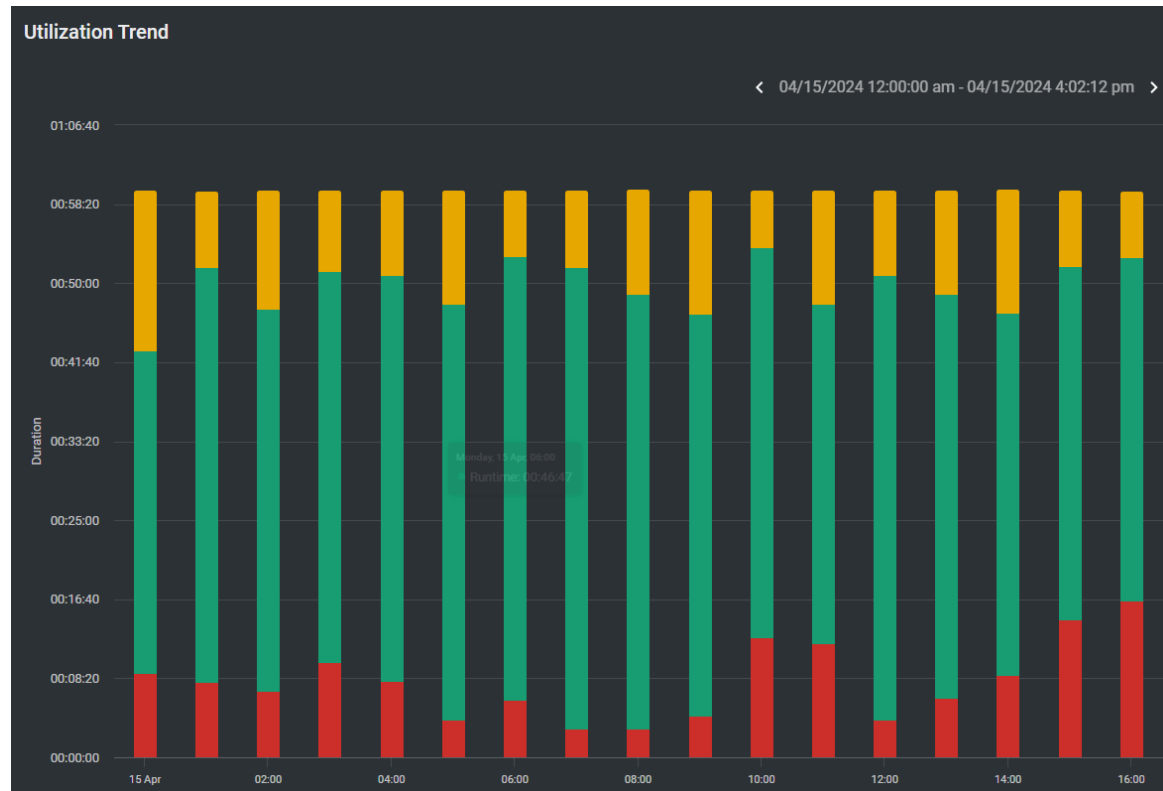
- Widget Look
 - Example of Using Legend to Toggle Off RUNNING state
- Single Asset
- Visualization settings
 - Summary by Equipment State or State Type
 - Option to Show Legend



CONNECT Visualization Services – MES Event Visualization

Utilization and Production Trend (Job Hour History events)

- Widget Look



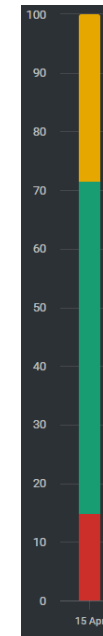
- Single Asset
- Visualization Settings
 - Show Legend
 - Utilization or production
 - Stack type

The "Visual Settings" panel shows the "Type" set to "Utilization & Production trend" and the "Stacking Type" set to "None".

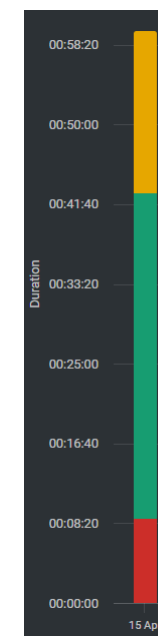
None



Percent



Raw values



CONNECT Visualization Services – MES Event Visualization

Multi Asset Analysis (Job Hour History and Utilization History events based on KPI)

- Widget Look (MTTR example)



- Multi Asset – up to 10
- Select KPI Type (OEE, Downtime, Maintenance)
 - OEE: OEE, Performance, Availability, Quality
 - Downtime: Count or duration
 - Maintenance: MTTR, MTBF
- Optional Target (applies to all)
- Enable / Disable asset by clicking its label

Source Visual Settings

Type: Multi-asset analysis [Change](#)

KPI Types *
Maintenance

KPIs *
Mean Time To Repair (MTTR)

CONNECT Visualization Services – MES Event Visualization

Asset Efficiency Grid

- Widget Look
 - Column Filtering and Group By
 - Collapse / Expand Rows

- Single Asset
- Select Event Type
 - Utilization Events
 - Job Hourly History
 - Material Produced Events
- Predefined, but Selectable Columns
- Data Export
- Drill Through from Other Widgets

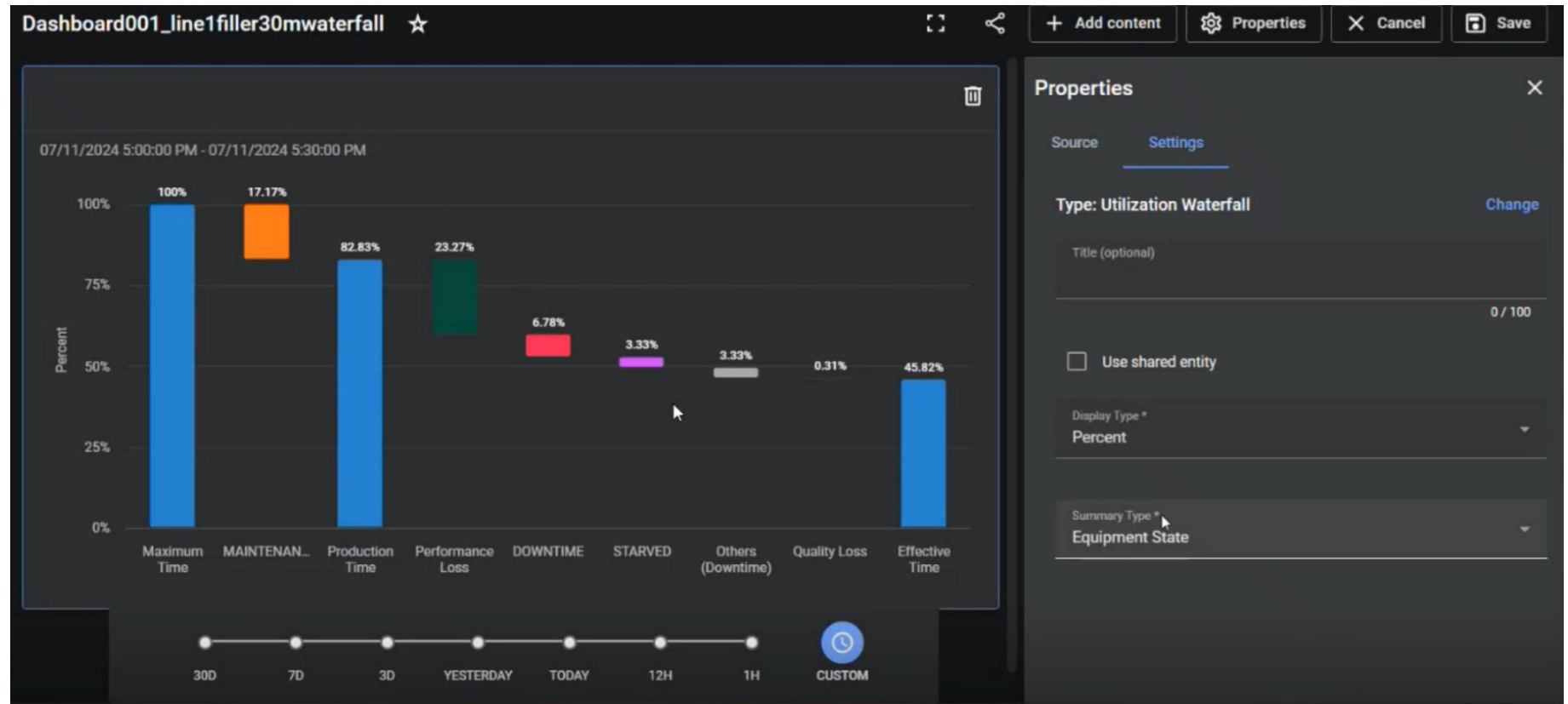
The screenshot shows the '12-Asset Grid' widget. A blue box highlights the 'Auto-refresh' toggle, with a callout 'Auto Refresh' pointing to it. Another blue box highlights the column headers 'material name' and 'workRequest workRequestid', with a callout 'Multi Grouping' pointing to them. A third blue box highlights the summary rows for 'quantityProduced' and 'quantityWasted', with a callout 'Aggregates' pointing to them. The table displays data for various assets, including start/end times, run/down/idle times, and production/waste quantities.

material name	workRequest workRequestid	startTime	endTime	runTime	downTime	idleTime	quantityProduced	quantityWasted
FP01: 31 Items							Total Runtime: 81541	Total Downtime: 15467
PA240907084117: 1 Items							Total Runtime: 486	Total Downtime: 244
PA240907094145: 2 Items							Total Runtime: 2408	Total Downtime: 421
PA240907104143: 2 Items							Total Runtime: 2655	Total Downtime: 421
PA240907114212: 2 Items							Total Runtime: 2040	Total Downtime: 971
PA240907124239: 2 Items							Total Runtime: 2945	Total Downtime: 362
PA240907134307: 2 Items							Total Runtime: 2587	Total Downtime: 481
PA240907144305: 2 Items							Total Runtime: 2795	Total Downtime: 99
PA240907154334: 2 Items							Total Runtime: 2755	Total Downtime: 434

CONNECT Visualization Services – MES Event Visualization

Utilization Waterfall

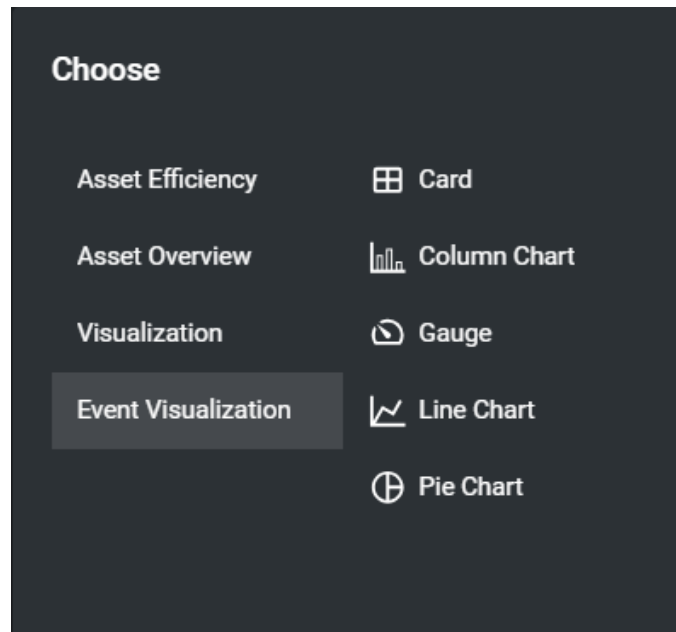
- Single Asset
- Set Time Period
- Display Idle Time Loss
- Performance Loss
- Downtime Loss
 - By Equipment State
 - Or Equipment Reason
- Quality Loss
- Option to show in time or Percent



CONNECT Visualization Widgets for Event Visualization

Generic widgets for visualizing any event – Designed for Production Management

- Widget selection browser

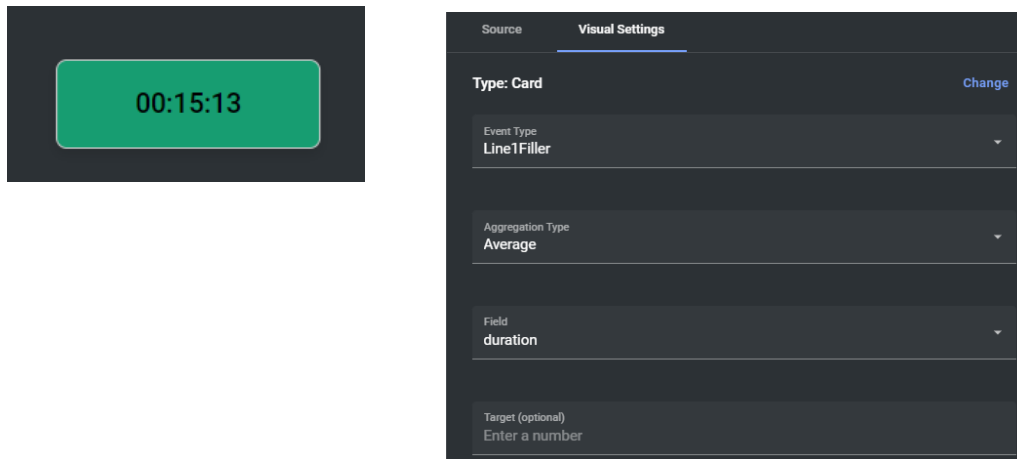


- Highly flexible/configurable widgets for visualizing events from any source system
- Widget source selection common properties
 - Asset selection
 - Event type selection
 - Aggregation type selection: Min, max, avg, count, sum
- Widget Visual Settings common properties
 - Title
 - Use shared entity

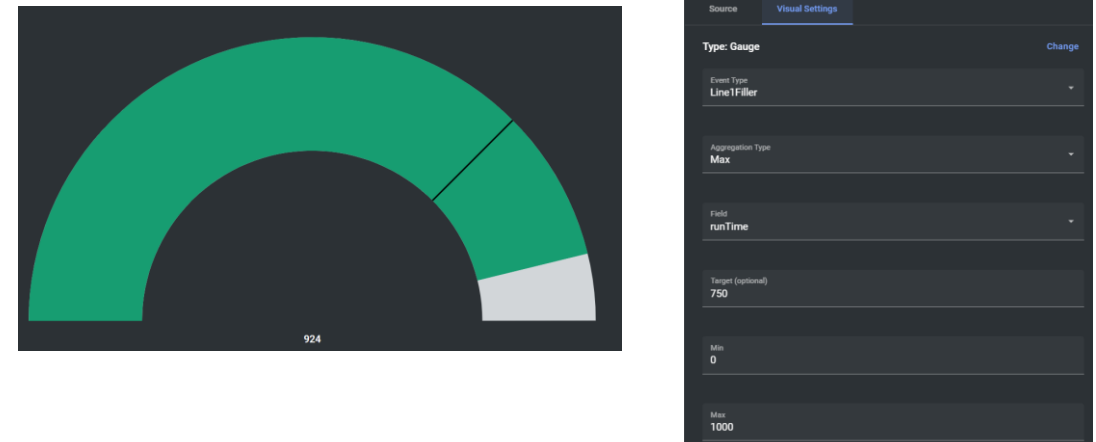
CONNECT Visualization Services – Event visualization

Card and Gauge

- Card
 - Single Asset
 - Field : Any numeric or timespan field in event type
 - Target: If a target is specified, widget is green to indicate above target or red if below target.

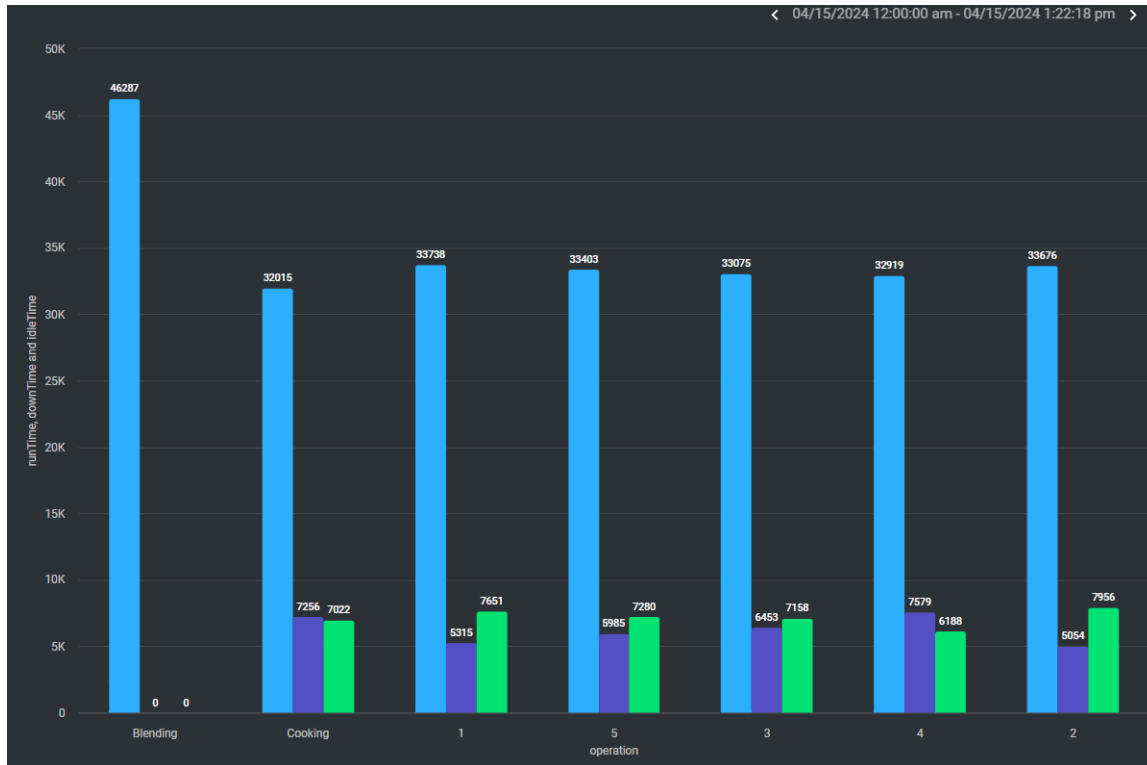


- Gauge
 - Single Asset
 - Field : any numeric or timespan field in event type
 - Min/Max: Define the min and max range for the gauge
 - Target: If a target is specified, widget is green to indicate above target or red if below target.



CONNECT Visualization Services – Event Visualization

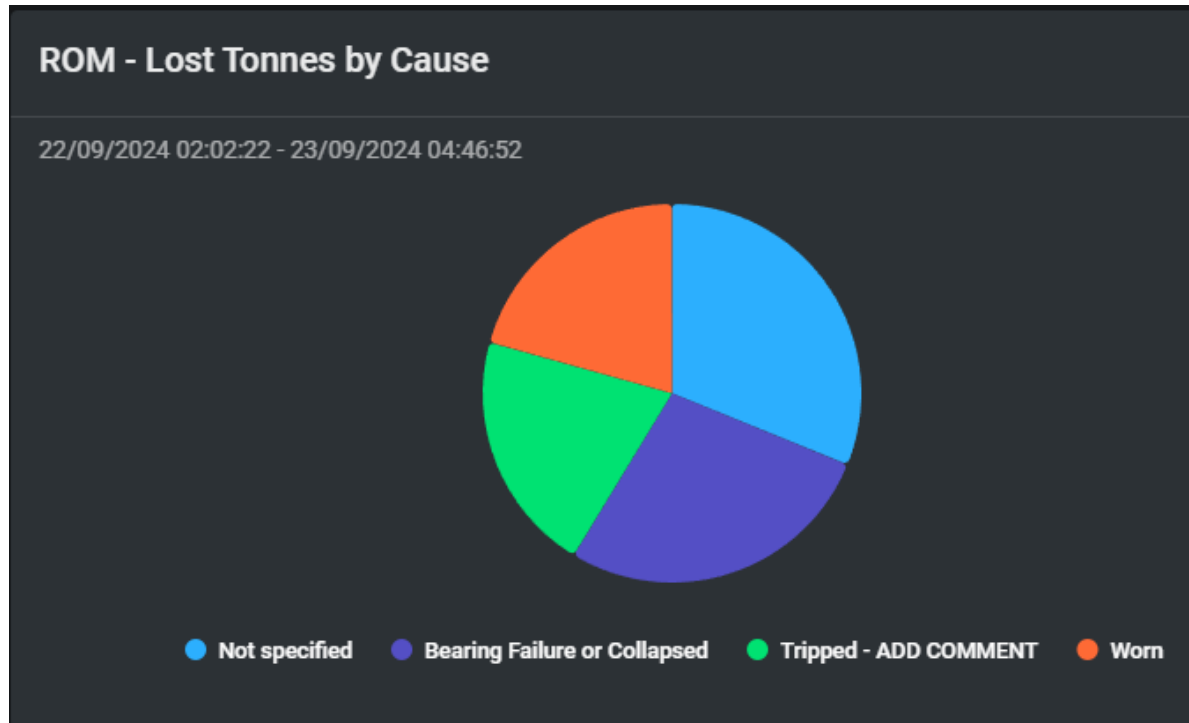
Column Chart



- Single Asset
- Field(s): Numeric or timespan field(s) in the selected Event type
- Grouping option: String fields in the event type
- Stacking and orientation option
- Toggle label & legend options

CONNECT Visualization Services – Event Visualization

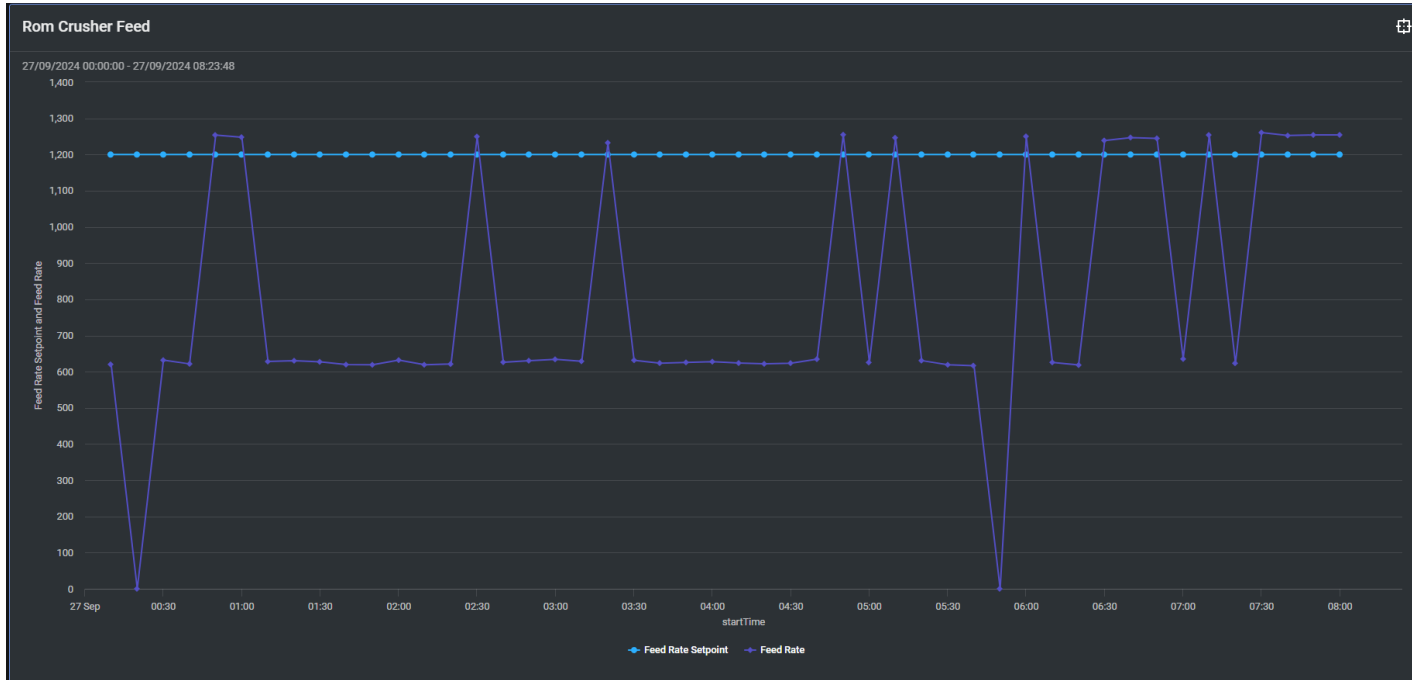
Pie Chart



- Single Asset
- Field: Numeric or time span field on the selected Event type
- Grouping Option: String field on the selected Event type
- Display Format: Percentage or value

CONNECT Visualization Services – Event Visualization

Line Chart

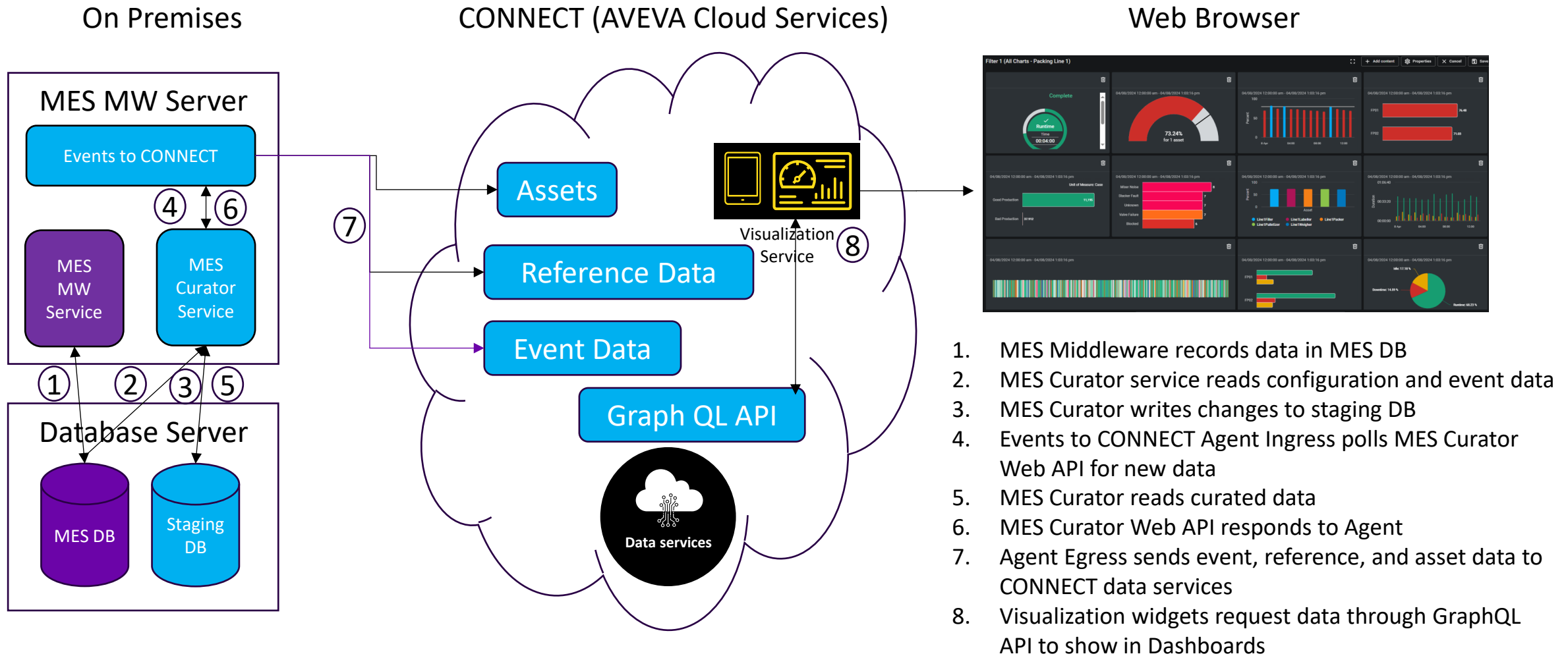


- Single Asset
- Field: Any numeric field on the event type
- Grouping: Any Date Time field on the selected event type
- Single, multi or stacked Y axis options
- Ability to zoom on chart area

AVEVA MES Data Publishing



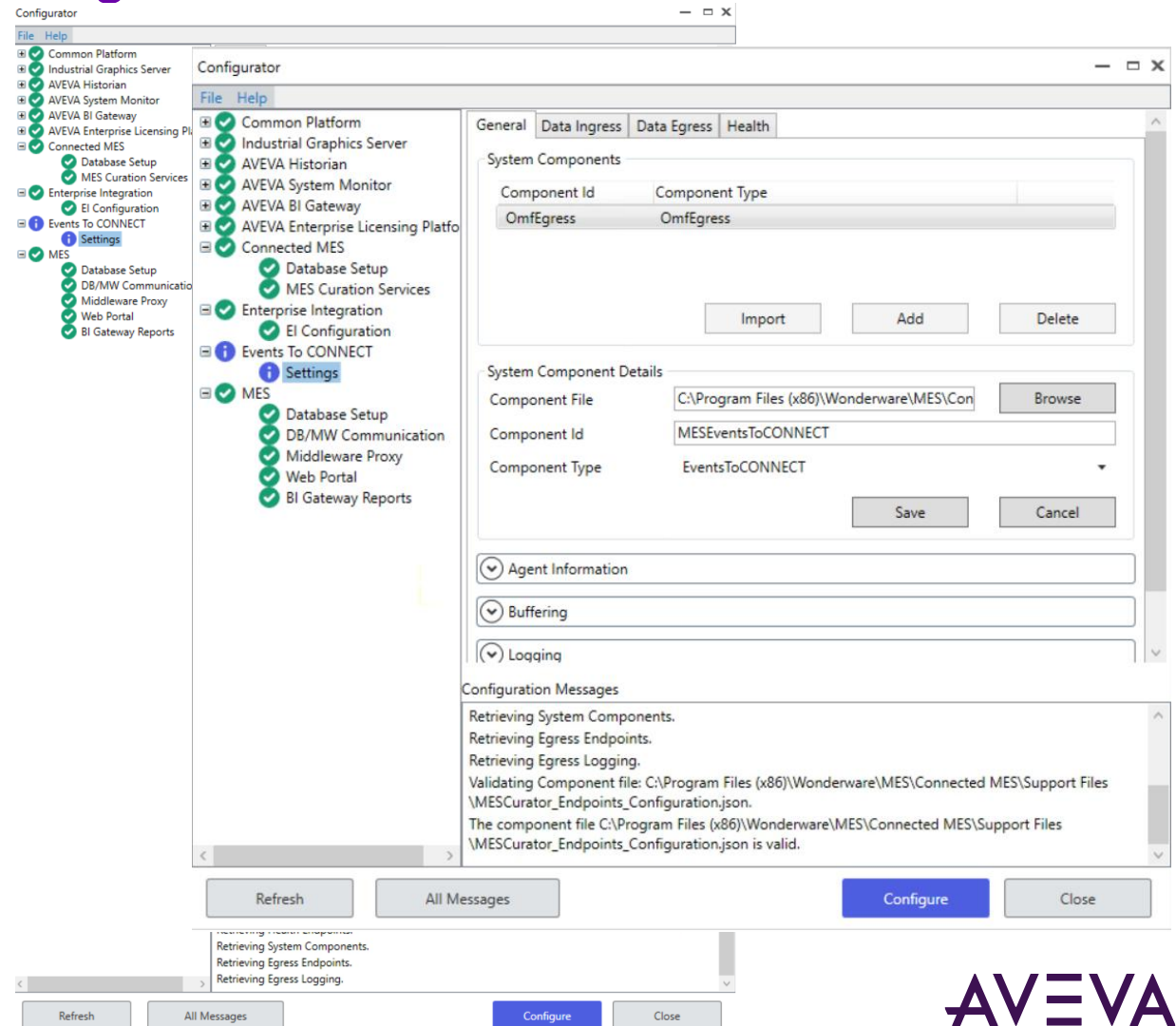
MES-hybrid - Enterprise-wide Data Management



AVEVA Events to CONNECT Agent (Publisher)

Generic Agent for MES and Production Management

- Separate msi Install but included with download
- Uses Configurator or API Calls
- MES includes import file for Data Ingress configuration
- Production Management data curator configuration tool populates General and Data Ingress configuration automatically
- One Publisher can manage multiple sources



AVEVA Events to CONNECT Agent

Data Ingress Definition

- Data Source – defines the base Web API endpoint for the configured component ID
- Requires security information to communicate with the component
 - For MES, these are the settings configured for the MES Curator Service
- Sets the request interval and the data collection mode for the component
 - Current with Backfill (Default)
 - Current only
 - History only

The screenshot shows the 'Configurator' application window. On the left is a tree view of components, with 'Events To CONNECT' and its 'Settings' sub-item selected. The main panel is titled 'Data Ingress' and contains several tabs: 'General', 'Data Ingress', 'Data Egress', and 'Health'. The 'Data Ingress' tab is active, showing fields for 'Endpoint', 'Health Controller', 'Failed Requests Controller', 'Client Id', 'Client Secret', 'Token Endpoint', and 'Token Audience'. Below these is a 'Defaults' section with checkboxes for 'Validate Certificate', 'UTC', and 'Backfill Historical Data', and a dropdown for 'Data Collection Mode'. At the bottom of the configuration panel are 'Validate', 'Save', and 'Cancel' buttons. A 'Configuration Messages' pane at the bottom shows a list of messages, with a red error message at the bottom: 'The data source Client Secret cannot be empty.' Below the messages are 'Refresh', 'All Messages', 'Configure', and 'Close' buttons.

Configurator

File Help

General Data Ingress Data Egress Health

Components

Component Id MESEventsToCONNECT

Data Source Resources Queries Schedules Data Selection Logging History Recovery

Endpoint https://MDDemo.WWDC.local/mescurator/

Health Controller curatelog/health

Failed Requests Controller error

Client Id MDDemo.MESCURATOR

Client Secret

Token Endpoint s://mddemo.wwdc.local/identitymanager/connect/token

Token Audience system

Defaults

Validate Certificate ☒ Enabled

Request Interval 01:00:00

UTC ☒ Enabled

Data Collection Mode CurrentWithBackfill

Backfill Historical Data ☒ Enabled

Backfill Start Date Time 2024-04-18T00:00:00

Validate Save Cancel

Configuration Messages

Retrieving Egress Endpoints.

Retrieving Egress Logging.

Validating Component file: C:\Program Files (x86)\Wonderware\MES\Connected MES\Support Files\MESCurator_Endpoints_Configuration.json.

The component file C:\Program Files (x86)\Wonderware\MES\Connected MES\Support Files\MESCurator_Endpoints_Configuration.json is valid.

The data source Client Secret cannot be empty.

Refresh All Messages Configure Close

AVEVA Events to CONNECT Agent

Data Ingress Definition

- Resources – Specific endpoints in the Web API for event and reference data
- Queries – Additional API routing to add to resources
- Schedules – Time periods to request data

The screenshot displays the configuration interface for the AVEVA CONNECT Agent, specifically the 'Data Ingress' tab for the component 'MESEventsToCONNECT'. The interface is divided into several sections:

- General**: Shows the component name 'MESEventsToCONNECT'.
- Data Source**: A list of resources including 'Resource', 'metad', 'assets', 'referen', and 'events'.
- Queries**: A list of queries including 'Query Id', 'MESJobOrderA', 'MESJobOrderA', 'MESJobRespor', and 'MESJobRespor'.
- Schedules**: A table listing various schedules with their periods and offsets.
- Schedules Details**: A section for editing the details of a selected schedule.

Id	Period	Offset
EquipmentUtilizationHistorySchedule	00:05:00	00:00:00
MaterialProducedSchedule	00:05:00	00:00:00
FrequentOperationalDataSchedule	00:15:00	00:00:00
HalfHourOperationalDataSchedule	00:30:00	00:00:00
DeleteSchedule	00:45:00	00:00:00
HourlySchedule	00:45:00	00:00:00
LowFrequencyUpdateSchedule	02:00:00	00:00:00
TwiceADayUpdateSchedule	12:00:00	00:00:00

Buttons: Add, Edit, Delete

Schedules Details

Id	EquipmentUtilizationHistorySchedule
Period	00:05:00
Offset	00:00:00

AVEVA Events to CONNECT Agent (Publisher)

Data Ingress Definition

- Once resources, queries, and schedules are defined; these are used to define data selection
- Data Selection – Links resource to query and schedule with additional settings for event type, action, etc.

The screenshot shows the 'Data Ingress' tab of the configuration interface. The 'Component Id' is set to 'MESEventsToCONNECT'. The 'Data Selection' sub-tab is active, displaying a table with four columns: Name, Resource Id, Query Id, and Schedule Id. The table lists four data selection entries, with the third entry 'Events... events MESJobHourlyResponseActi... HourlySchedule' selected. Below the table are 'Add', 'Edit', and 'Delete' buttons. The 'DataSelection Details' section shows the selected entry's configuration: Name is 'Events JobHourlyResponse Creation', Selected is checked, Type is 'Events', Action is 'Create', Resource Id is 'events', Query Id is 'MESJobHourlyResponseActionCreate', and Schedule Id is 'HourlySchedule'. The 'Message Fields' section is expanded, showing fields for Type Field, Type Id Field, Action Field, Value Field, and Continuation Token Field, each with a corresponding text input field.

Name	Resource Id	Query Id	Schedule Id
Events...	events	MESEquipmentUtilizationHis...	EquipmentUtiliza
Events...	events	MESEquipmentUtilizationHis...	EquipmentUtiliza
Events...	events	MESJobHourlyResponseActi...	HourlySchedule
Events JobResponse...	events	MESJobResponseActionCreate	HalfHourOperati

Buttons: Add, Edit, Delete

DataSelection Details

Name: Events JobHourlyResponse Creation

Selected: ☒ Enabled

Type: Events

Action: Create

Resource Id: events

Query Id: MESJobHourlyResponseActionCreate

Schedule Id: HourlySchedule

Message Fields

Type Field: messageHeaders.messageType

Type Id Field: messageHeaders.typeId

Action Field: messageHeaders.action

Value Field: messageBody

Continuation Token Field: messageHeaders.continuationToken

AVEVA Events to CONNECT Agent (Publisher)

Data Egress Definition

- Data Egress – Connection settings for AVEVA CONNECT data services
- Endpoint is customer's tenant and namespace information
- Client ID and secret is created in CONNECT administration

The screenshot displays the 'Configurator' application window with the 'Data Egress' tab selected. The left sidebar shows a tree view with 'Events To CONNECT' expanded, highlighting 'Settings'. The main panel is divided into two sections: 'Egress Endpoints' and 'Egress Endpoint Details'. The 'Egress Endpoints' section contains a table with columns 'Id' and 'Endpoint', and buttons for 'Add', 'Edit', and 'Delete'. The 'Egress Endpoint Details' section contains fields for 'Id' (EgressEndpoint1), 'Endpoint' (https://uswe.datahub.connect.aveva.com/api/v1/Tenants/cae1a74), 'Client Id' (063bd668-a286-445b-88fb-8d96ff9a5ba0), 'Client Secret' (masked with dots), 'Token Endpoint' (empty), and a 'Validate Certificate' checkbox (checked). Below these fields are 'Validate', 'Save', and 'Cancel' buttons. At the bottom of the main panel is a 'Logging' section with a 'Log Level' dropdown (set to 'Debug'), 'File Size Limit (Bytes)' (34636833), and 'File Count Limit' (31). The bottom of the window features a 'Configuration Messages' pane with a list of status messages and a row of buttons: 'Refresh', 'All Messages', 'Configure', and 'Close'.

Id	Endpoint
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Buttons: Add, Edit, Delete

Egress Endpoint Details

Id: EgressEndpoint1

Endpoint: https://uswe.datahub.connect.aveva.com/api/v1/Tenants/cae1a74

Client Id: 063bd668-a286-445b-88fb-8d96ff9a5ba0

Client Secret:

Token Endpoint:

Validate Certificate: ☒ Enabled

Buttons: Validate, Save, Cancel

Logging

Log Level: Debug

File Size Limit (Bytes): 34636833

File Count Limit: 31

Configuration Messages

Retrieving Product Information.
Retrieving System Logging.
Retrieving System Diagnostics.
Retrieving System Buffering.
Retrieving Health Endpoints.
Retrieving System Components.
Retrieving Egress Endpoints.

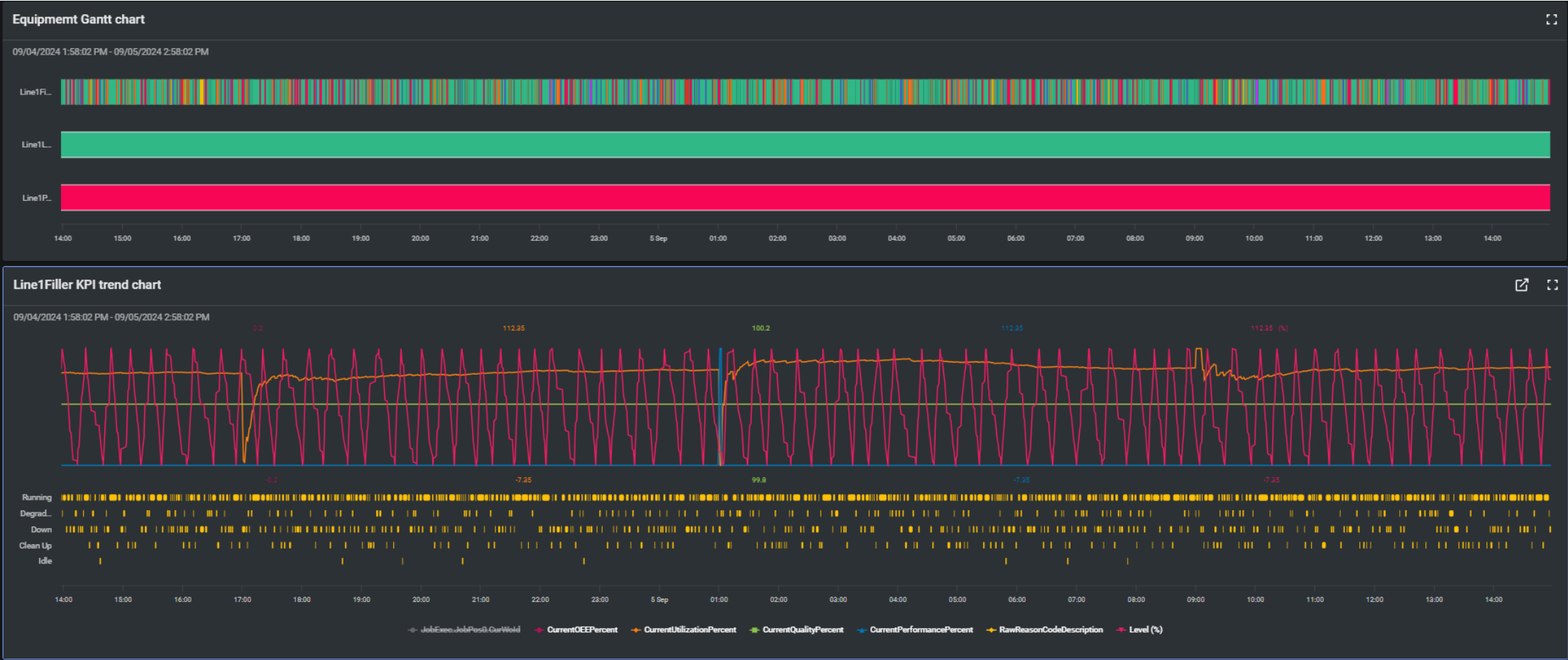
Buttons: Refresh, All Messages, Configure, Close

Closing Comments



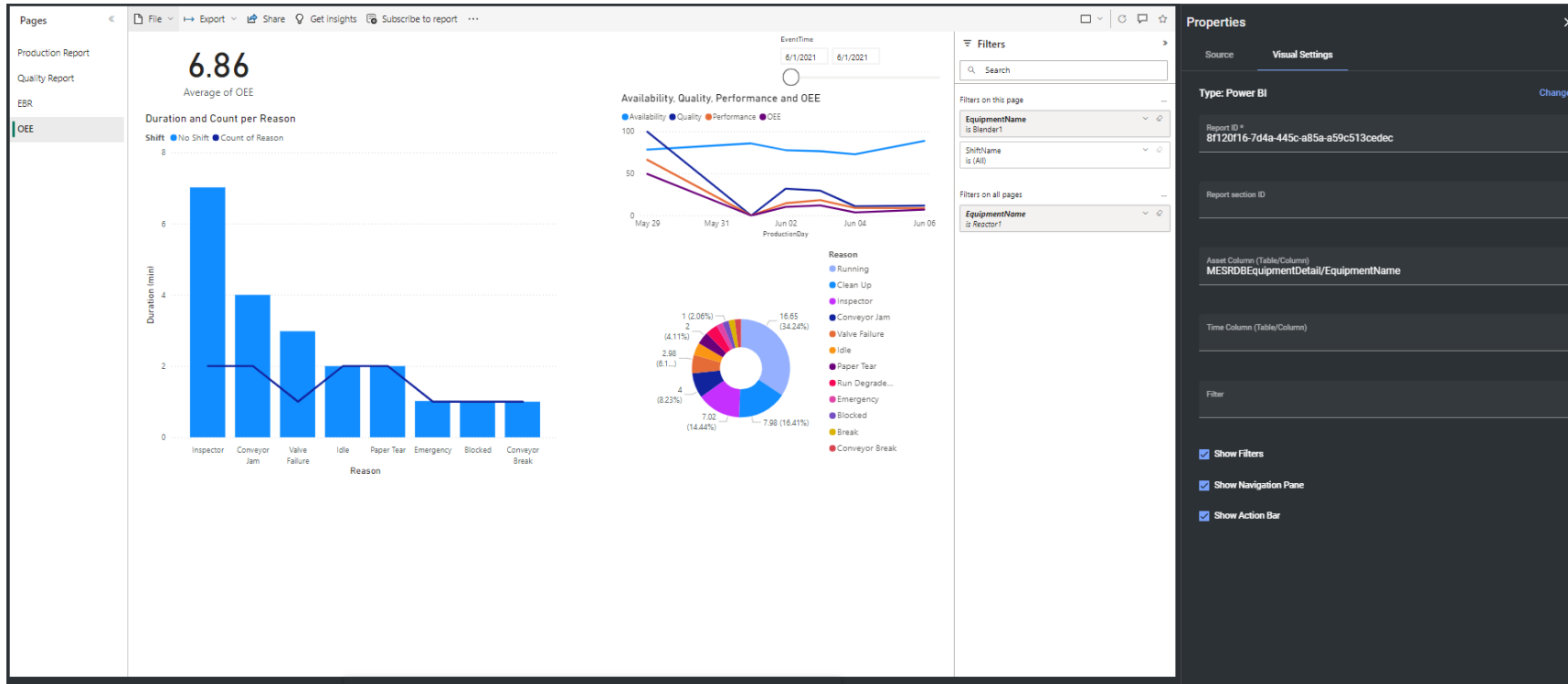
Combining Various CONNECT Data Sources

MES Event Data with Streaming Data



Leverage Your Data with Power BI Widget

Using Embed Mode/URL Filtering



You Specify

- Report ID
- Report Section ID
- Link to Connect Asset
- Link to Connect Time range
- Some additional settings and filtering

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Utilize →
Content



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Comms



Suggest →
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Success →
Recognition

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technical superhero!*



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