



DREAM REPORT®

The Leader in Industrial Reporting Technology

Batch Management

Celebrating 20 Years of Excellence

Ocean Data Systems proudly celebrates 20 years of empowering the automation industry with a cutting-edge reporting solution.

Thank you for being part of our journey!



EBR - Electronic Batch Recording (DBatch)

DBatch - Electronic Batch Recording (EBR)

- Capture and record batch ID, batch Start and End timestamp
 - *Batch ID can be entered manually or read from a tag value or be generated automatically by pre-defined mask*
 - *Batch start/stop event can be triggered manually (start/stop button) or automatic (by a tag value)*
- Capture and record process values during batch
 - *Process values can be entered manually or read from tags' values*
 - *Values can be recorded at batch start or batch end or during the batch*



DBatch - Electronic Batch Recording (EBR)

- User can manually enter comments or messages and record them with the batch information
- All information will be recorded into the project database (MS SQL Server, Oracle, MySQL, ...)
- Easy to configure, simple to use, perfect fit for simple batch processes
- No extra cost – DBatch is included in every license



Batch Reporting






Simple Batch Reporting

- Batch management system
 - *Easily access batch information – batch ID, start & end times*
- Auto-report generation on batch completion
 - *Automatically generate/distribute reports on batch end (or batch start) event*
- On-demand batch reporting
 - *Select a batch ID, and Dream Report will automatically get its start and end times to generate a detailed report*

CIP Report

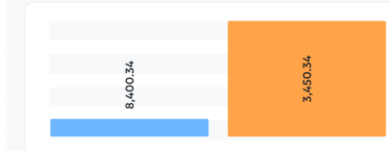
Mixing Tank 1 - CIP ID: SP-792-21



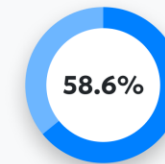
 Batch ID PE-418-192	 Start Time 2/4/2020 06:41:32 PM	 End Time 2/4/2020 06:47:32 PM	 Product Benzyl/Alcohol	 Operator Esther Howard
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Tank Levels @ Batch End

[View Current Batch Dashboard](#)



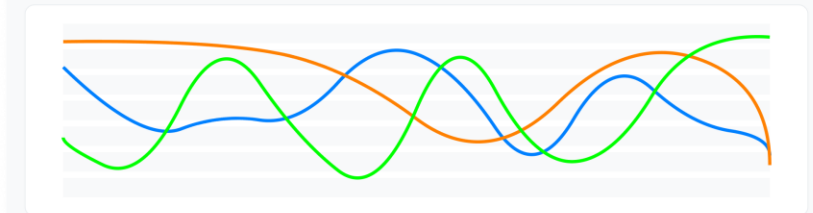
	Max	Min	Avg	Std Dev
ProdLvl	1,836.98	8,347.36	1,836.98	8,347.36
ReactLvl	6,351.74	9,274.34	7,873.99	3,450.34
ReactTemp	7,873.99	8,400.34	1,836.98	3,450.34



% Concentration

Valve Ops Summary				
	# Open	# Closed	Time Open	Time Closed
ConcValve	5	1	13:11:35	17:27:17
OutputValve	4	5	05:30:21	17:27:17
SteamValve	0	2	17:27:17	23:18:33
TransferValve	2	1	12:33:18	17:27:17
WaterValve	1	3	02:33:48	17:27:17

Batch Trend



Batch Reporting Integration

- Integration with standard and custom batch systems
 - *GE – Proficy Batch*
 - *AspenTech Batch 21*
 - *Emerson – DeltaV Batch*
 - *Rockwell Automation – FactoryTalk Batch*
 - *Watlow (Eurotherm) – Reviewer Batch*
 - *AVEVA InBatch*
 - *Custom databases*

CIP Report

Mixing Tank 1 - CIP ID: SP-792-21



Start Time 2020-05-06 11:24:08
End Time 2020-05-05 10:21:13
Duration 2020-05-03 08:14:01

Conductivity SP 1.5%
Flow Rate SP 155.0 gpm
Return Temp SP 190.0 °C

Wash Type Full Wash
Stepped No
Reset Yes

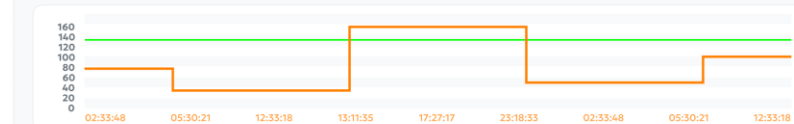
CIP Summary

	Max	Min	Avg	Std Dev
Conductivity (%)	86	2.315	8.398	7
Flow (gpm)	487	378	888	32
Return Temp. (°C)	84	9.213	8.492	345

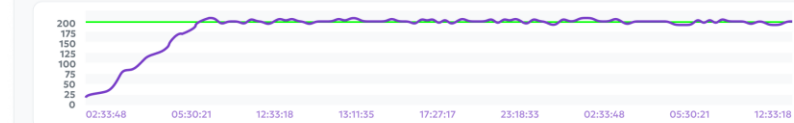
Conductivity



Flow Rate



Return Temperature



Batch-to-Batch Comparison

- A specific batch can be set as a Golden Batch
- Comparison between batches, including Golden Batch
 - *Compare raw and statistical values*
 - *Deviations*
 - *Visual comparison*
- Notification of significant deviations



Advanced Batch Reporting

Complex Batch Support With Nested Phases

- Supports multi-level batch definition per S88 standard (phases, sub-phases, units, etc.)
- Batch steps can be dynamically detected from the batch workflow
- Report structure and content will be dynamically generated
- Batch Definition configuration
 - *Manual configuration*
 - *Dedicated Batch Driver, which brings batch “tree” information from the source*



Batch Drivers

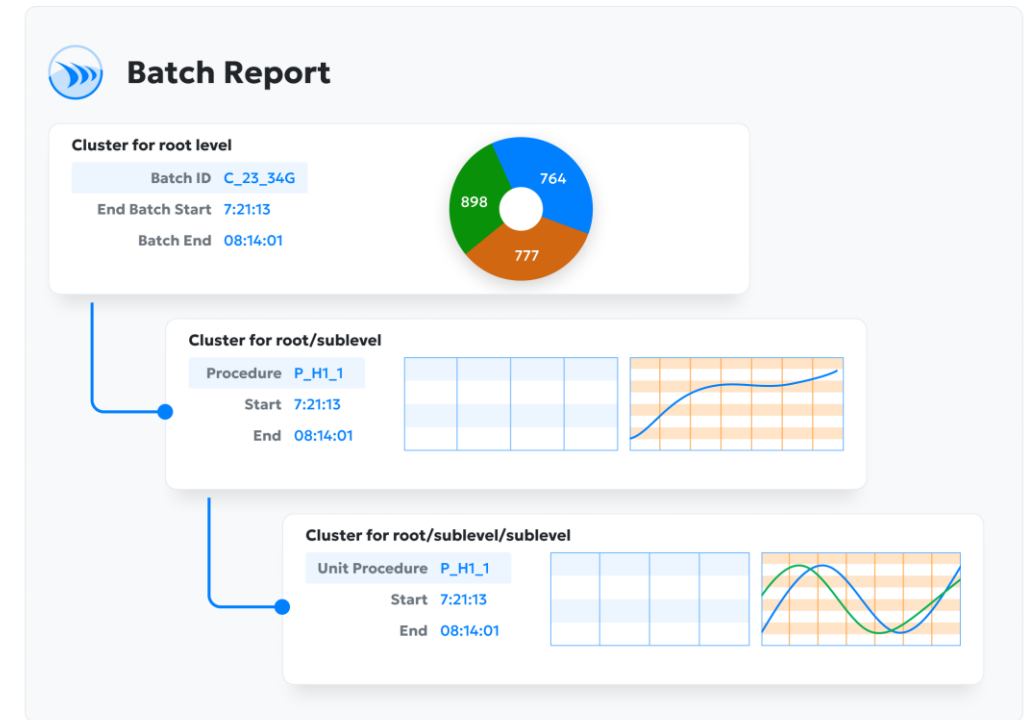
- New driver type is now available – Batch driver
- Vendor-specific – PI Event Frames, Watlow Reviewer, more to come...
- Easily integrates with Batch Definitions
- Automatically gets batch structure and templates from the data sources
- Dynamically exposes properties and attributes of each batch step



Report Clusters & Batch Object

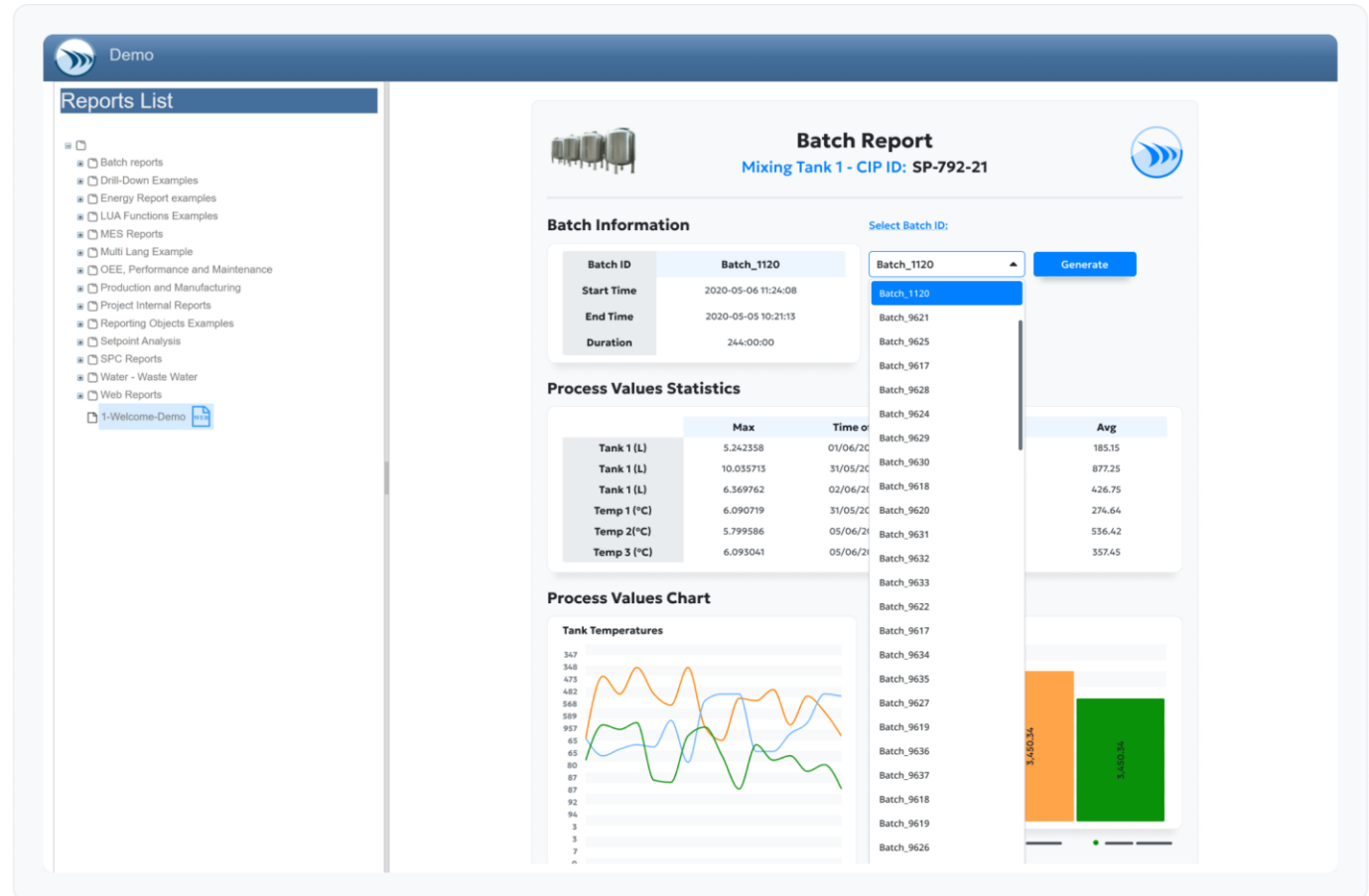
Facilitates dynamic batch report content

- Cluster – set of reporting objects with logical name that can be used to compose a report
- Batch Object - placed on a report page. Specifies which cluster to be placed for an instance of each batch step



Report Clusters & Batch Object

- Create a dynamic web report with a combo box “Batch IDs list”
- Select a batch ID and generate report for that batch



Thank You !