Electronic Enterprise Reporting with no coding

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OSIsoft. Virtual Industry Summits

Pharmaceutical

Electronic Enterprise Reporting

Challenge

Solution

Reporting and recording is mandatory, the pharma industry is moving away from paper-based reporting to Electronic Batch Recording (eBR).

Reporting is time consuming and prone for errors.

Deployed the latest OSIsoft PI Server and RtReports as an advanced foundation for electronic enterprise reporting. Features:

- Produce repeatable paperless • reports without coding
- Secure web-based UI •
- Support report versioning ٠
- Reliable system validation ٠
- Auto Reports Generation ٠
- Compliant with 21 CFR Part 11 ٠
- All data are maintained in their • original fidelity

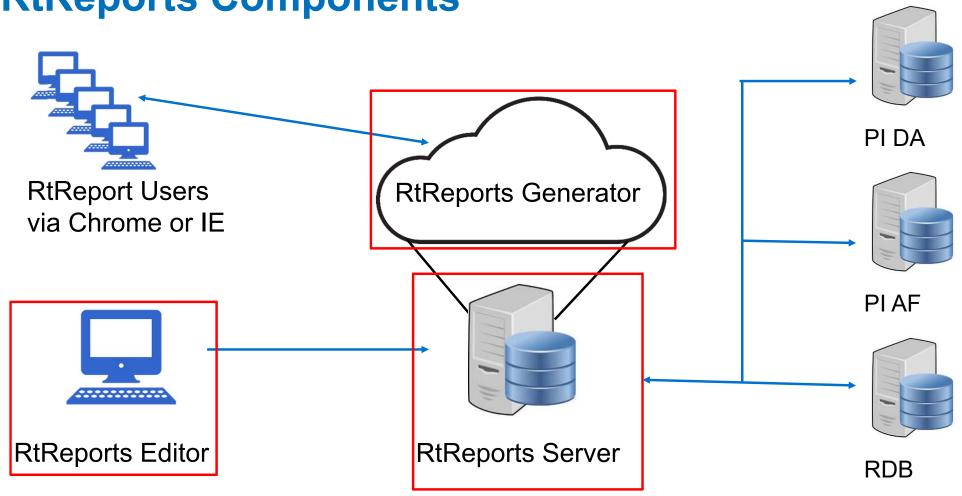
Corporate standard reporting compliant with regulation

Benefits

- Exception based release of • batches – RbE, Review by Exception increases throughput, speeds up batch release, and reduces warehouse costs
- Key element of the digitalization and Pharma 4.0/Industry 4.0 initiatives



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RtReports Components



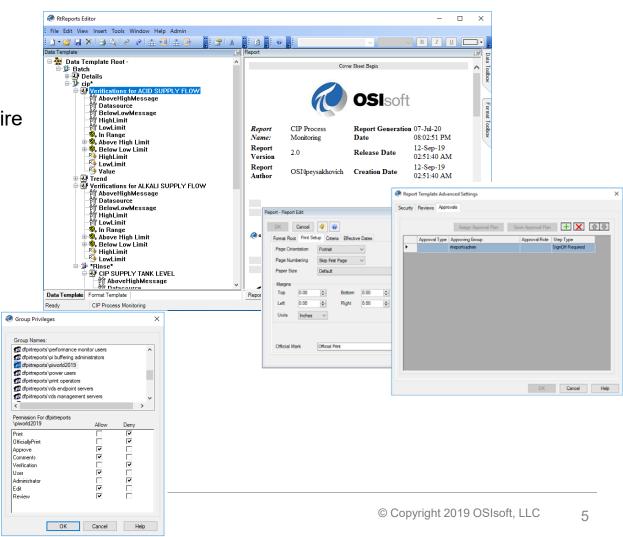
RtReports Server

- Windows Server 2012 R2 or later
- Application Server and IIS Server roles
- Hosts the:
 - RtReports Generator website
 - Printing Engine



RtReports Editor

- .NET windows application
- Manage Report Templates
 - Create/Edit/Delete/Release/Retire
 - Select and Format Data
 - Preview Reports including PDF
 - Assign Rules for
 - Comments
 - Verifications
 - Approvals
 - Reviews
 - Printing
 - Effective Dates
- Manage security







Analytical Capabilities

PI Performance Equations

Conditional Logic

Process Trends

Aggregation and External data

Sort and Structure

Batch Processes

Sub-batch processes

Time Ranges

AF Elements

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RtReports Generator

- .NET web application
- Generate report:
 - Search for report template (Batch or Time)
 - Generate a report template against a specific context
 - View, comment, verify, and approve report
 - Print report to PDF
- Manage Automatic Report
 Generation

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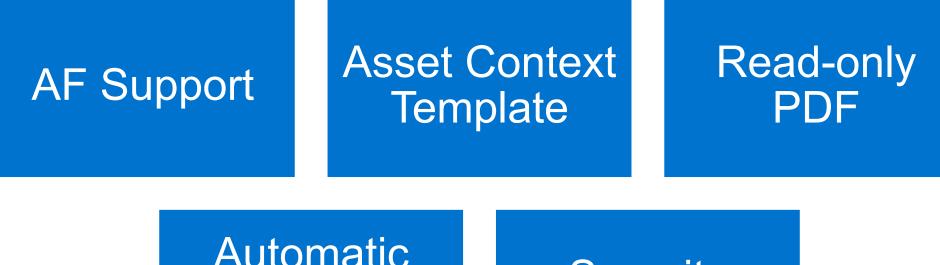


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RtReports Features



Features

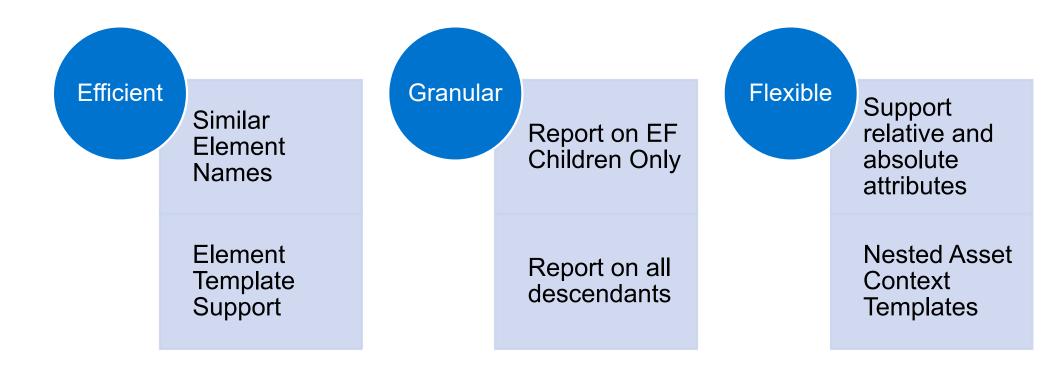


Automatic Report Generation

Security Improvements



Asset Context Template





AF Asset Context Template Reporting

- Multiple criteria to report on Assets/Elements
 - Asset Template
 - Asset Name
 - Root Path
 - Nested Context

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OK Cancel	Asset Context Template E	dit
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Sort Order	Ascending O Descending	
Description		



AF Asset Support

- Journal Action Parameter 'AFAttribute', supports Relative or Absolute Path
- Result Definition for AF Attribute
 - AF Attribute Value
- Support for AF Limits/Traits
- Support Asset Versioning

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EF Support

- Journal Action Parameter 'EFAttribute'
- Result Definition for EF Attribute
 - AF Attribute Value

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Additional Features:

- Support Trend Colors Configuration for individual sites
- Support Array Types

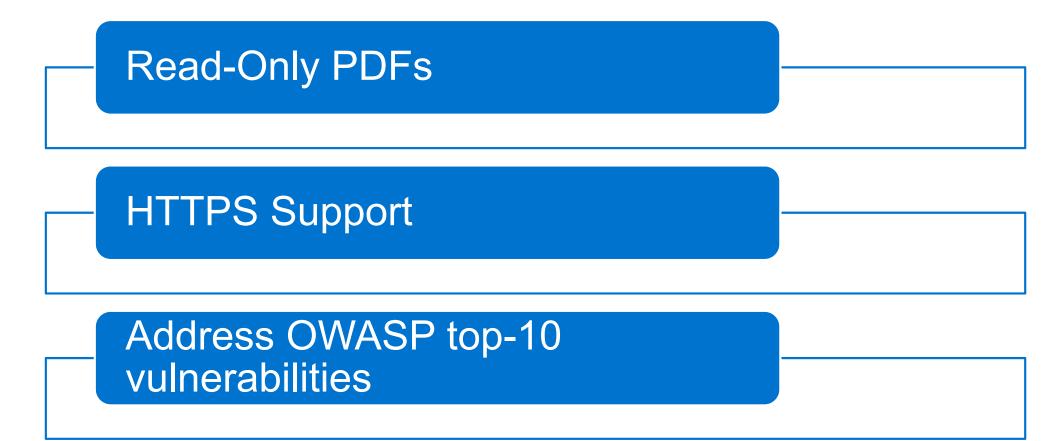


Automatic Report Generation

- Automatically generate reports based on EF/Batch criteria
 - Create multiple EF/Batch completion criteria for each report template
 - Support multiple conditions for report generation criteria
- Automatically generate Time Reports based on Time Criteria
- Automatically send emails with report links after reports generation



Security Improvements







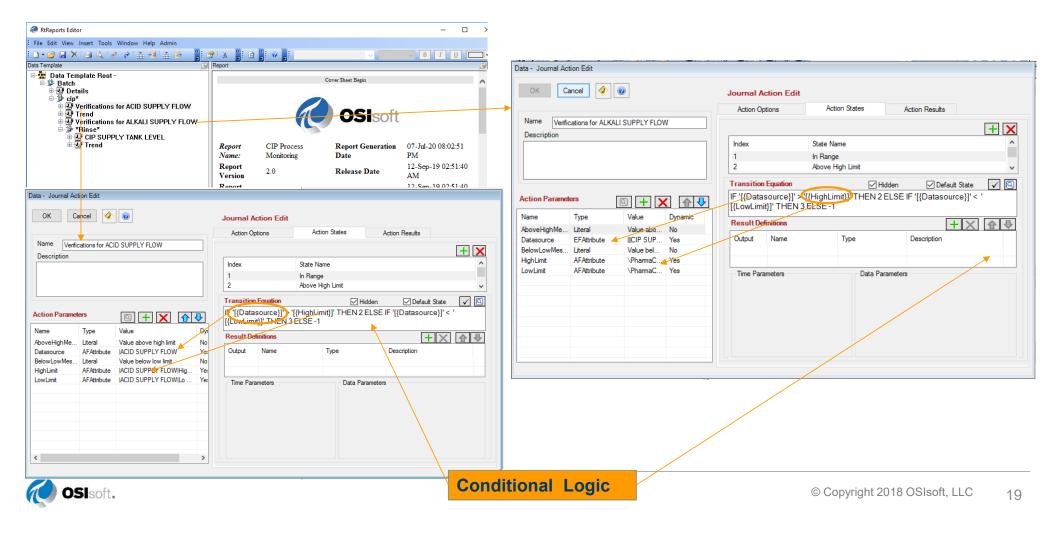


Process Excursion Batch Report

- Highlights excursion throughout a CIP Process
- View only process deviations in the overarching procedure and gain more granularity by scrutinizing individual operations
- Each child event frame showcases deviations in tabular and graphical forms, allowing users to view the data as they see fit



Process Excursion Batch Report (Editing)



Process Excursion Report (PDF)

BatchID Product Recipe Start End BatchID Product Recipe Duration 🙆 osi 🗈 🙆 051 ---OSlaeft_201581202655 CLEANINO_SOP_MAINTCIP_MediumTark_CIP___0547:46 JM 07:45:25 JPM accords **Clean In Place Process Monitoring** Equipment Unit Procedure Report Name: CIP Process Monitoring Report Generation Date 20-Nov-19 10:35:15 AM Report Version 1.0 Release Date 21-Sep-18 09:17:32 PM Report Author OSIIpeysakhovich Creation Date 20-Mar-19 01:31:08 PM BatchID Product Recipe Start End Duration Time Time 12-Sep-18 12-Sep-18 1 hour 57 OSIsoft_201581202655 CLEANING SOP_MAINTCIP_MediumTank_CIP_05:47:46 07:45:25 minutes PM PM seconds Generated By Generated Date Report Name Report Versio lpeysakhovich 20-Nov-19 10:35:19 AM CIP Process Monitoring 1.0 Ive recommend that you download and review the document "RReports Third-Party Rectages and Additional Signing Information.door, which is located in the RReports Downloads page of the Osland. Taket Support web site. This document contains additional information on the signing and Insahing of the latt are installed. 38:23 AN 11/20/2019 10:38:01 AM Product CLEANING 12-Sep-18 05:47:46 PM Recipe SOP_MAINTCIP_MediumTank_CIP_12-Sep-18 05:47:46 PM Batch Comments OSIsoft_201581202655 9/12/2018 5:47:46 PM 9/12/2018 7:45:25 PM Intriports is a powerful, fully configurates web-based enterprise reporting approximous eace own law F Rystem Forgensing electronic and printer (erports / Resports can be subdue repeated is reports through configuration and without programming. A moort may include aggregated data, which is average on manitorum, as well as complex conditional logic and PI Performance Equations. All data is maintained in its original fidelity. ports is a powerful, fully configurable web-based enterprise reporting application used with ed By: Ipsynakhovich Generated Date: 20-Nov-19 10:35:19 AM Report Name: CIP Proces 2 of 18 **Highlights excursions (event** frames)

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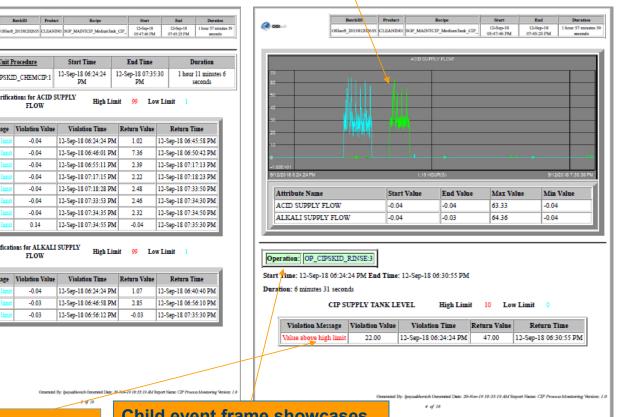
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Trend



Child event frame showcases deviations

OSIsoft.

Report: Tank Process Monitoring(Batch report)

• Event Frame :

- Batch OSIsoft_201583045435
- Product=CLEANING
- Recipe SOP_SIP_500L_CIP_
- Start Time 7/9/2018 4:22:26 PM
- End Time 7/9/2018 8:00:00 PM

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Sampled Shift Equipment Report

- Details process parameters for multiple pieces of equipment at every hour mark (user changeable online) for shift
- Color coding quickly and efficiently shows – whether the parameters are within specifications

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Sampled Shift Equipment Report (PDF)

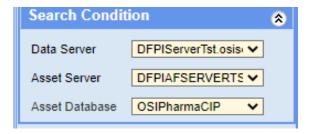
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04.00.00 AM	-6433	4.0894	-0.0406	20.6130		
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06-00-00 AM	-0.03%	4.0857	-6037	20.5860		
07.00.00 AM	-0.0389	-0.0876	-0.0416	20.4964		
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AM	0.0082	-0.0213	600%	20.7136		

@		Start		Duration Interval(min)
		22-Mar 19 12:0	0.00 AM 22 Mer 19 08 00:00 J	thus 60.00
08.00.00 AM	-60147	-0.0219	4.039	21.4503
		com		
		CIP 432		
The	CORPERSION LA	PLOW LA	Ann	CIP REPRY TEMPERATURE VC
12:00:00	1000 11 000	1.000 25 0000 -0.0006	4000	22.0412
AM 01.00.00	-000	-0.0222	4.007	23.004
AM 02:00:00	6.004	-0.0278	400	11.0530
AM 03.00.00 AM	4 0.00	-0.0636	-0.0115	23.3642
04.00.00 AM	-6-0067	-0.0976	4.006	22.0041
05 00 00 AM	4.0034	-0.0049	-0.000	21.8119
06:00:00 AM	-6.0003	-0.0239	400	21.8227
00.00.00 AM	-6-0081	-0.0996	-0.000	21.3086
AM	4 0083	-2.068	-4.0012	21 8549
iperator Sig	and and a second se	Reserving	Date	
hill Superv			Date	
lignature Quality Asso	-			
igniles			Date	at the is it all to at it



Shift Detailed Equipment Report (Time Report)

• Shift Detailed Equipment Report



<u>https://dfpirtreports.osisoft.ext/RtReports/WebPages/ReportTemplate.aspx?ReportName=Shift%20Detailed%20Equipment%20Report&ReportVer=2.0&Server=&cFlag=1&PageNo=1&timeAFServer=DFPIAFSERVERTST&timeAFDatabase=OSIPharmaCIP&StartTime=06-Sep-2020%2000%3A00%3A00&EndTime=06-Sep-2020%2008%3A00%3A00&Param1=Interval&Val1=3600
</u>



Feedback

<u>https://feedback.osisoft.com/</u>



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Thank you



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