

What is RtReports and how is it used in Pharma?

Presented by **Brent Punt**

Agenda

- What we did before PI Server and RtReports
- Focus on RtReport Compliance Edition
 - Create a RtReport: RtReports Editor
 - Using RtReports: RtReport Generator
- RtReports Examples

Before we implemented PI Server / RtReports

- Operators Monitor Equipment
 - Manual Data Gathering
 - Record data every hour in some cases
- Local Skid based vendor reports
 - Often with poor report design
- Reports with lengthy data dumps
 - Long data review times

RtReports General Introduction

Template-Based Enterprise Reporting System that:

- Produces configurable and repeatable reports without programming
- Stores the templates centrally in PI Server
- Uses a web-based interface (Generator)
- Provides reports for real-time and historical data
- Provides reports for batches, time ranges or PI AF cases
- Provides access to PI System data (and external data)
- Meets eSign and auditing requirements for 21 CFR Part 11 electronic records and e-Signatures

RtReports – Two Tools

- Editor
 - Client / server based tool for RtReport Development
- Generator
 - Web Based User Interface

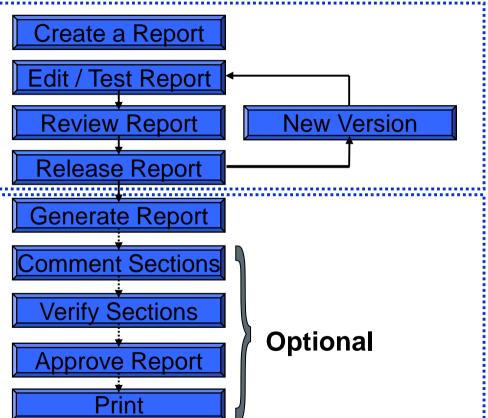
RtReport Compliance Workflow

RtReports Editor

The Administrator creates a report template

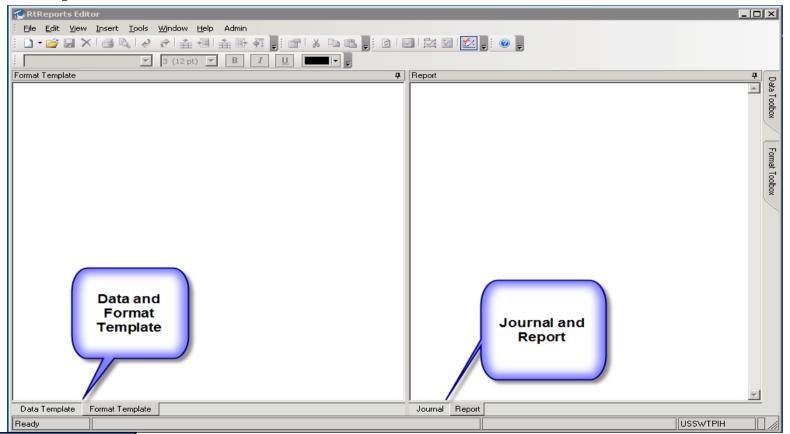
RtReports Generator

The user generates the template based on a batch or other context: PI Batch, Time, PI Asset Framework (PI AF) Case

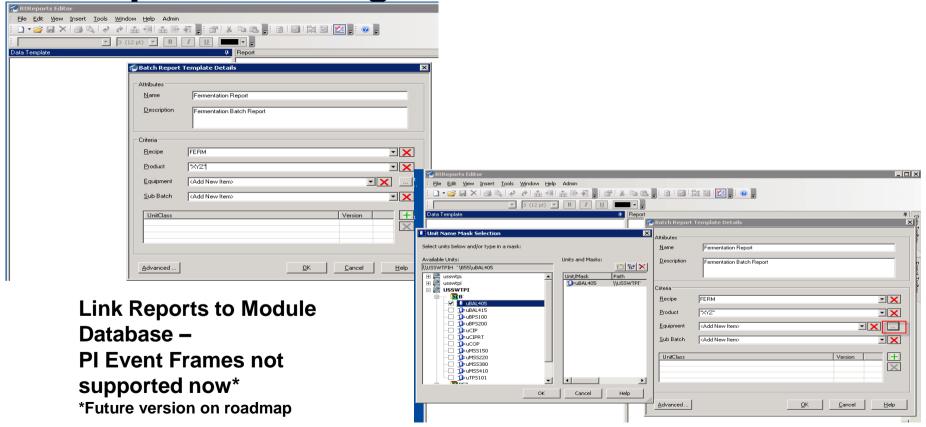


RtReports Editor: Four Windows

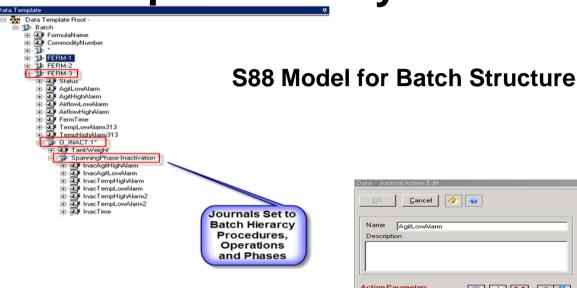
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Template Linking to Module Database



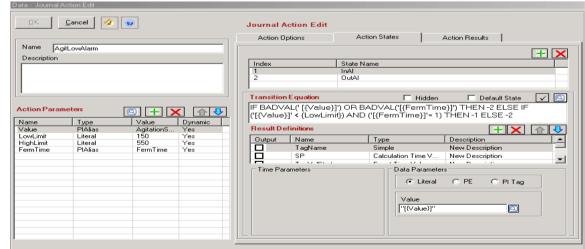
Link Report to PI System Data using Journals



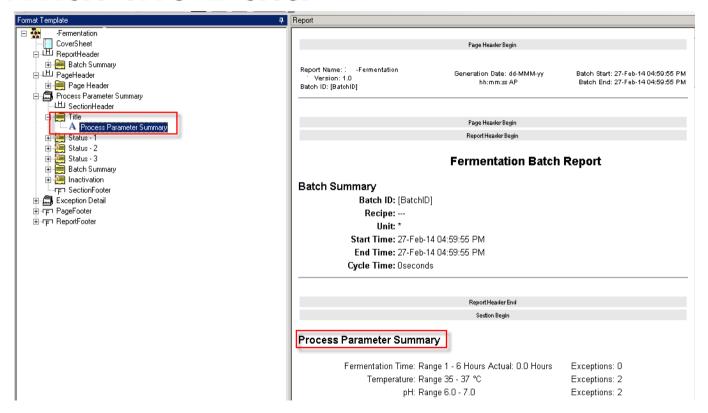
Link Reports to PI System

Data Directly or through MDB

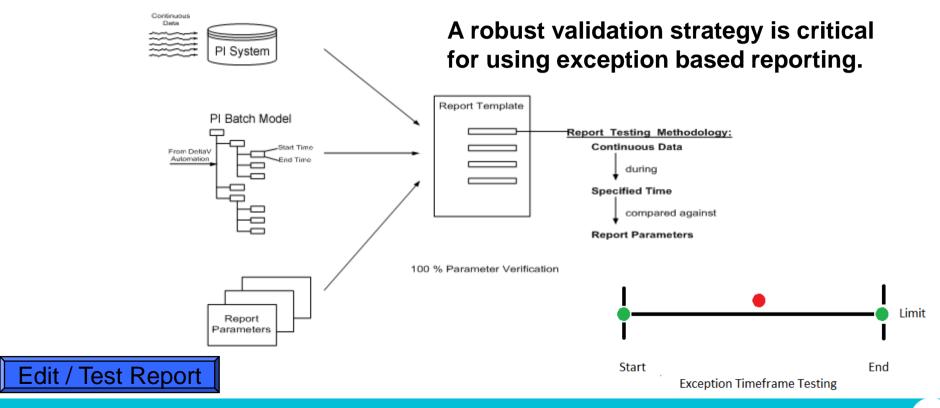
Aliases (preferred method)



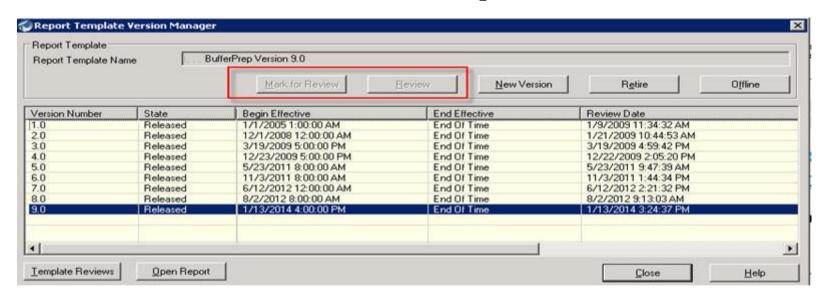
Format the Data



RtReport Validation Methodology



Review / Release Reports



Review Report

Release Report

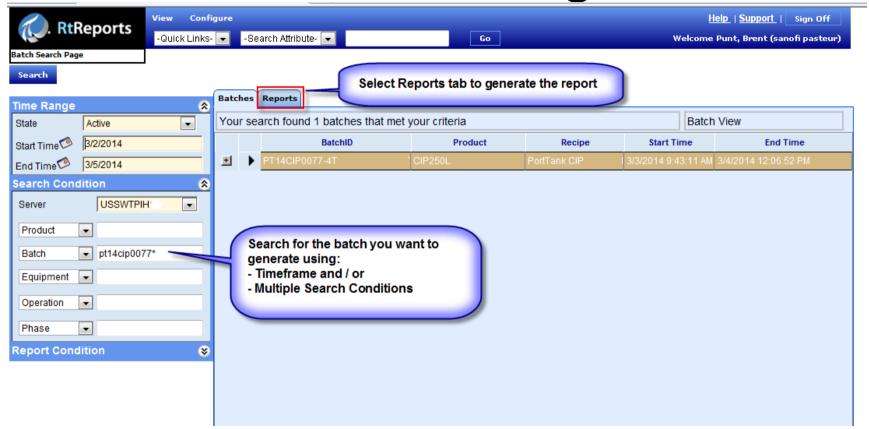
Strong Version Control

RtReports Generator



Generate Report

Default Batch Search Page



Report Template Selection



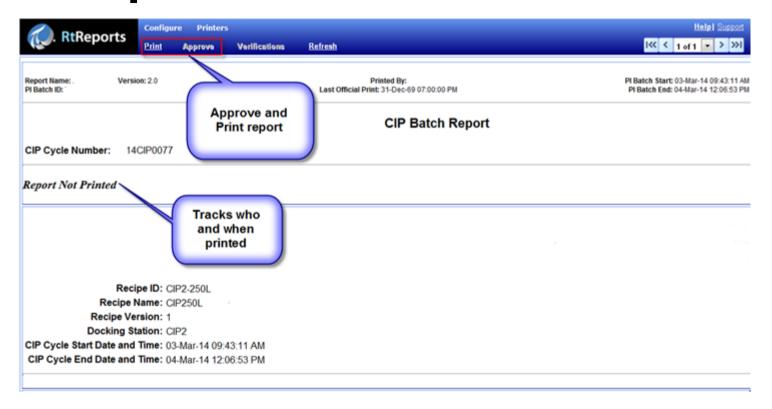
Generation Screen

BufferPrep

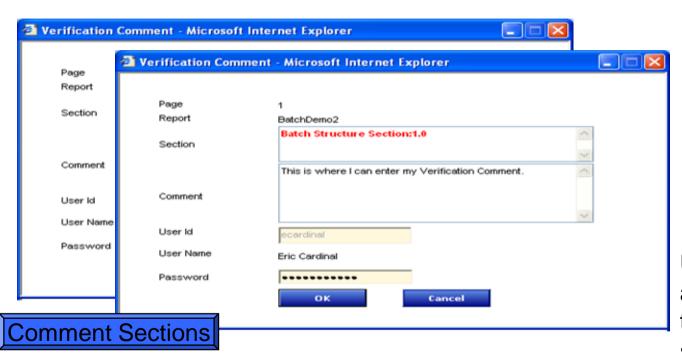


Running time is approximately 8.41 seconds....

RtReport Review Screen



Adding Comments / Section Verification

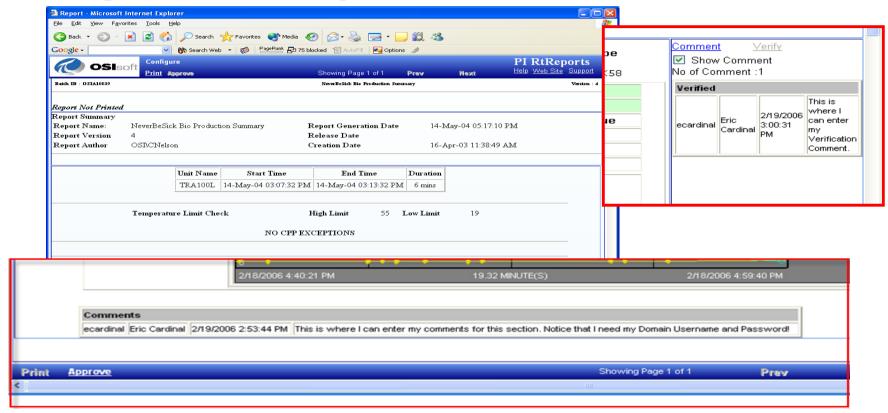


Username and password are always needed to enter comments

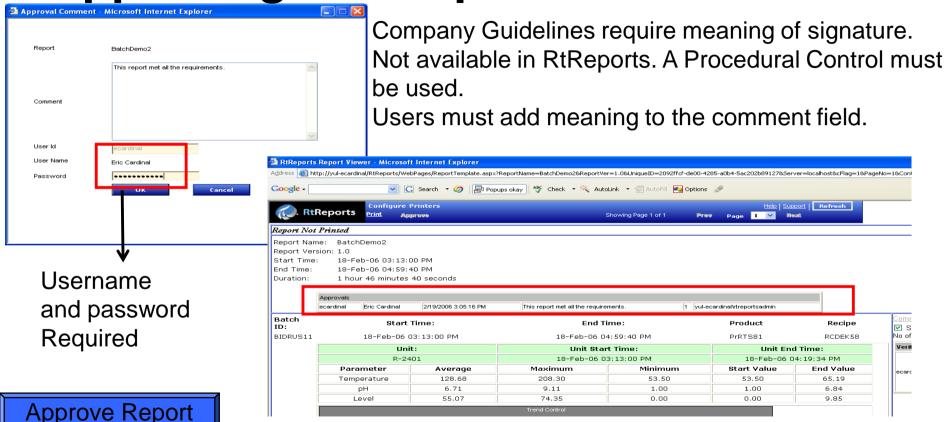
 Security Groups Set who can perform actions

Verify Sections

Report Example with Comments



Approving a RtReport



Printing

- Draft Print
 - Using a list of printers
 - No watermark not tracked
- Official Print
 - One and Only One Printer
 - Official Watermark
 - Tracked in system

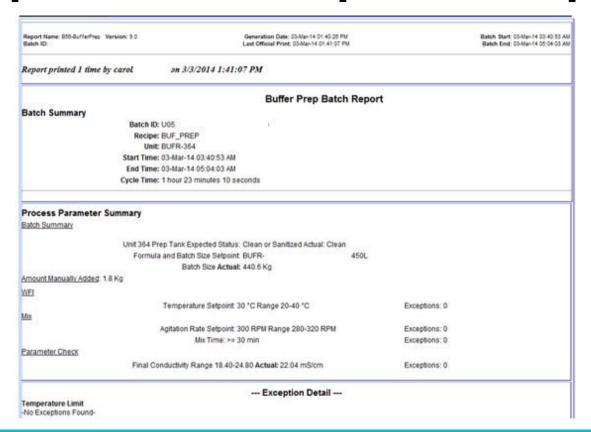




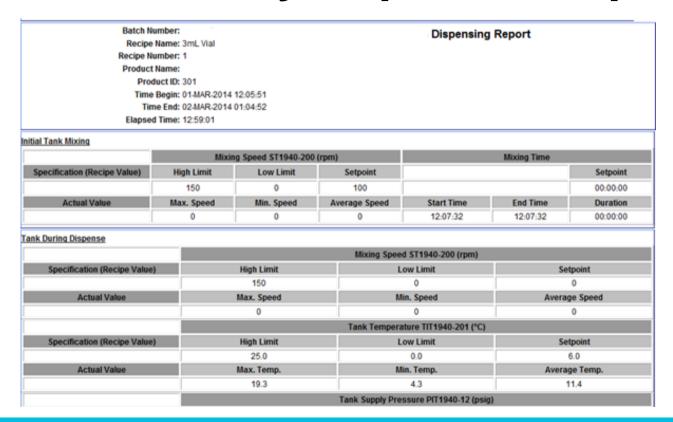
How we use RtReports

- RtReports used for Real Time Batch Release of CIP, SIP, Media and Buffer
 - Zero Downtime is Expected
- Process RtReports printed and attached to paper batch record packet
 - CIP/ SIP not printed verified on glass
- The following slides shows examples of RtReports used in production:

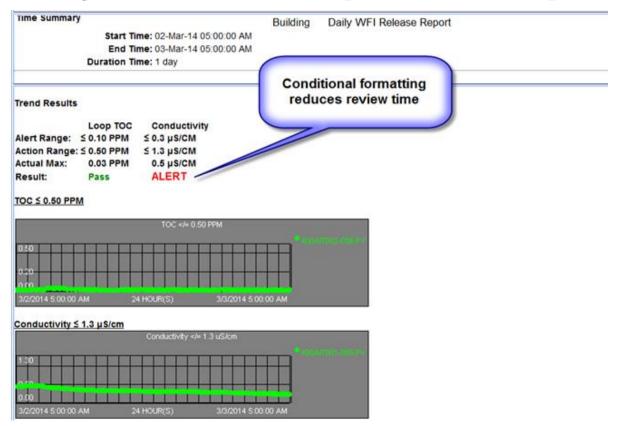
Exception based report example



Batch Summary Report example



Daily Utility Release Report example



PI Server and RtReports Value Added

- Reduction in operator time: no manual data recorded
- Real Time Reporting reduces overall
 - Batch Cycle Time
 - Batch Release Time
- Exception based reporting
 - Largest reduction of Batch Release Time
- Utility reports reduces physical water samples req'd

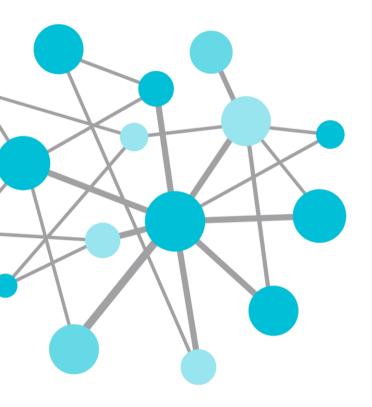
How Important is RtReports to our Business?

- RtReports in use since December 2008
- Using current Version 3.3.0.6
- 84 versions on 24 Templates
- ~11,000 PI Batches generated in 2013
 > 70% Batches require RtReports
- Used to release > \$1 Billion in revenue

PI Server and RtReports are Integral and Essential to our Business

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THANK MAN

