



Clean In Place (CIP)

XLReporter for CIP

✓ What is CIP

- A method of cleaning the interior surfaces of pipes, vessels, process equipment, filters and associated fittings, without disassembly

✓ Applications

- Used in a variety of industries, such as Food, Beverage, Bio-Tech, and Pharmaceutical
- Food and Beverage can spend 20% of a day cleaning

✓ Reporting Objectives

- FDA Compliance and Traceability
- Reduce Downtime
- Improve the CIP Processes
 - Reduce Water and Chemical Usage
 - Reduce Energy Usage



Triplex Single Tank CIP System

www.ipecc-inc.com

XLReporter CIP Report

- ✓ **Dynamic Reporting Period**
 - Bookmark start/end of Process
 - CIP Identifier in the Report Name
 - V12-34 Fermenter_19Jan2017.xlsx

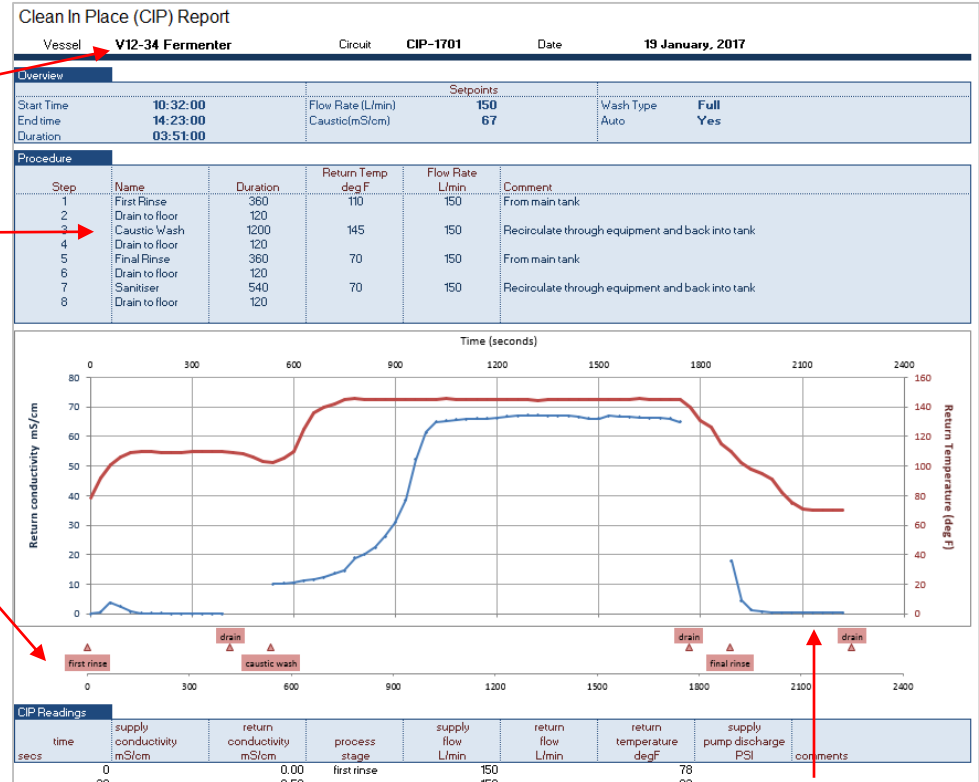
- ✓ **Dynamic Sequences**
 - Read from PLC

- ✓ **Dynamic Labels**
 - Extension to standard Excel

- ✓ **Facilities Vary in Size**
 - Data directly from the PLC
 - Data from historian/data logs

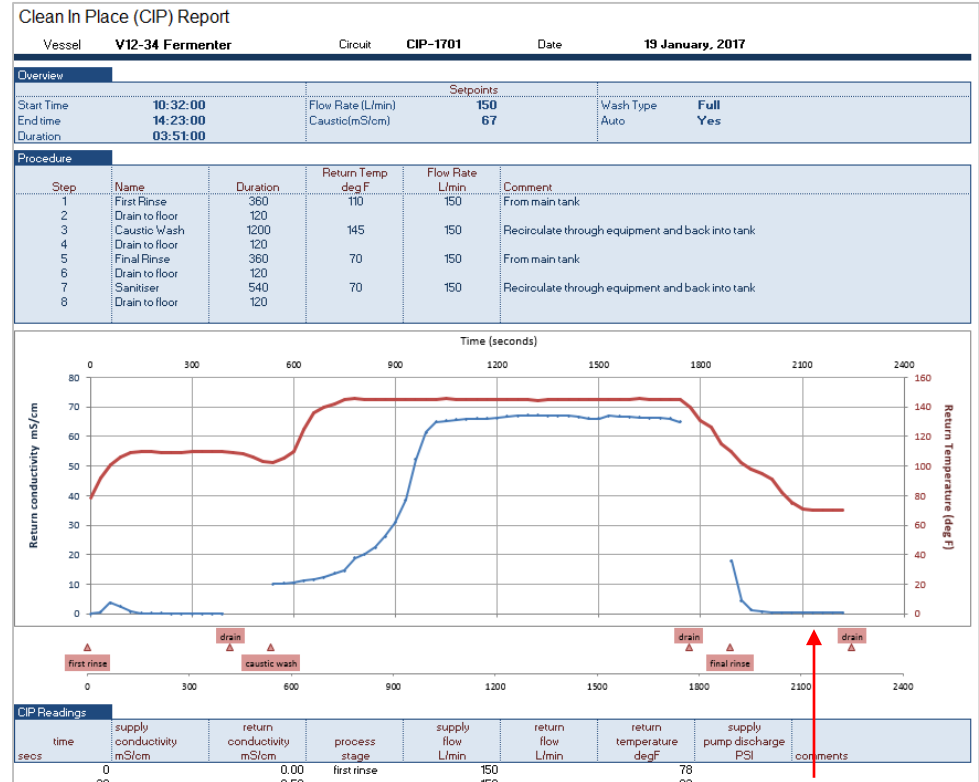
- ✓ **Alarms and Operator Changes**

- ✓ **Operator Comments**
 - Even to the active report!



CIP Report From Live Data

- ✓ Report As You Run Technology
- ✓ Start Of Cycle
 - Build report name
 - V12-34 Fermenter_19Jan2017.xlsx
 - Add header information from PLC
 - Add sequence from PLC
 - Use arrays
- ✓ During The Cycle
 - Add CIP data to the report
 - Charts and formula automatically update
- ✓ End Of Cycle
 - Add summary information from PLC



CIP Report From Historian

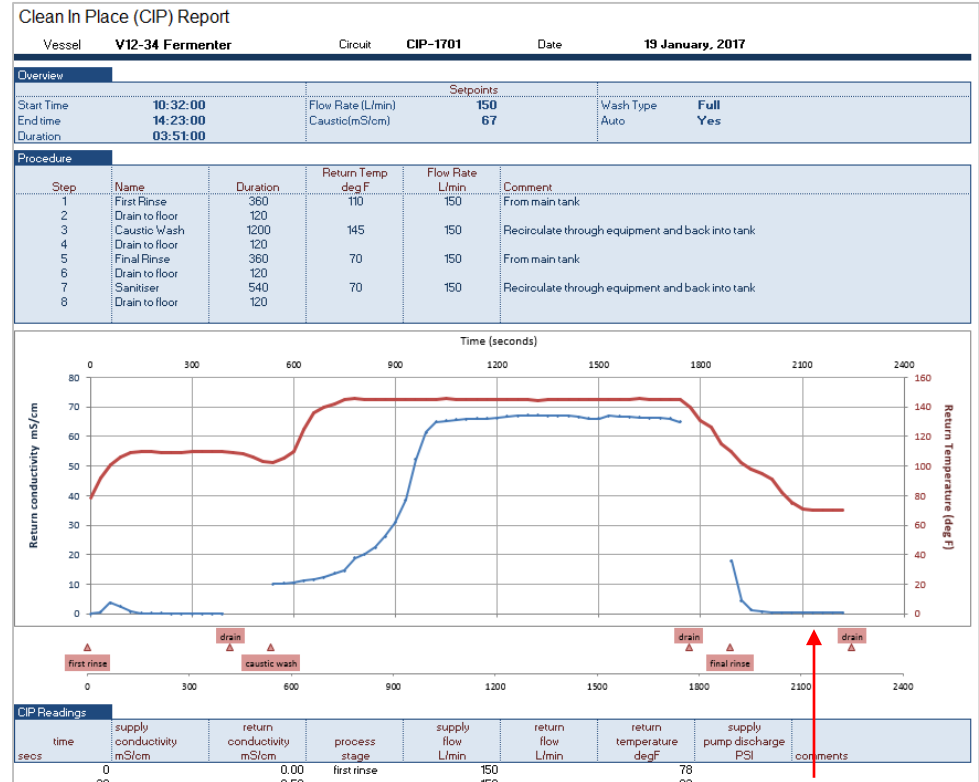
✓ Event Frame Technology

✓ Build An Event Frame

- Store Start/End of Cycle
- Store Cycle ID

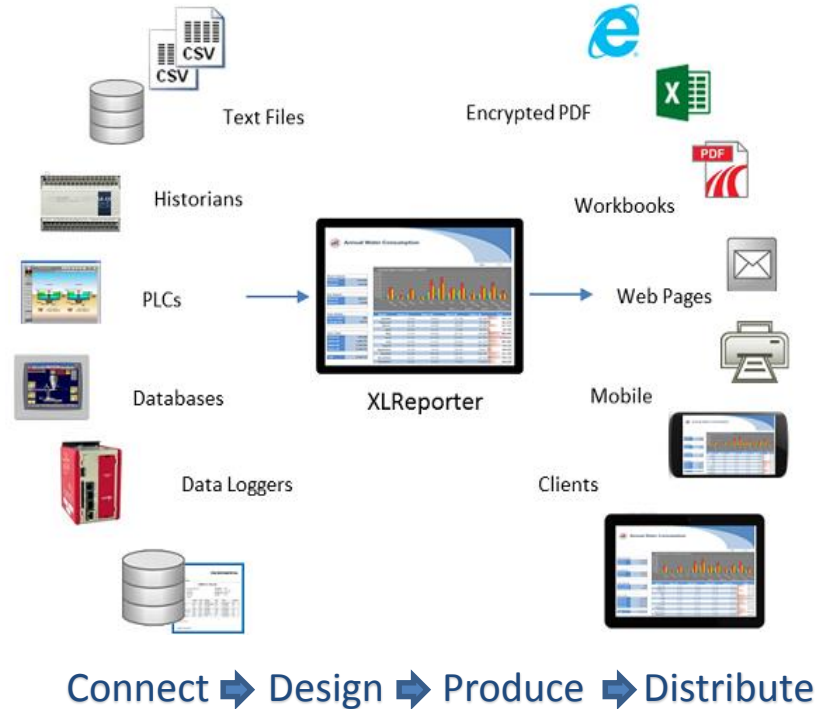
✓ End Of Cycle

- Build Report Name
 - From Event Frame ID
- Update Header
 - From Event Frame ID, Start/Stop
- Retrieve History Data
 - From Event From Start/Stop



XLReporter Is Industrial Reporting

- ✓ “Out of Box” Software
 - No Scripting/SQL/Programming
 - **No limits.**
 - Tags, Reports or Templates
- ✓ Designed for Industrial Automation
 - Award winning
 - Two-time winner of Control Engineering Award
 - Small footprint
 - Use **existing** hardware and OS
- ✓ Utilize Existing Skills
 - Design Workbook Templates
 - Need a tip? Over 1B users of Excel or 1 in 7 people!
- ✓ Report, Reliably, 24x7
 - Output Workbook, PDF and Web Pages
 - Distribute Automatically
 - No additional software to produce/view reports
 - XLReporter uses the **Microsoft Open XML standard**
- ✓ Scalable
 - Start small and grow



Information and Download

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