

XLReporter

Reports and Dashboards for Industry

Go Beyond Excel

Microsoft Excel® is indisputably one of the most widely used software applications in the world. XLReporter® takes the best of this product and delivers it to an industrial environment, *without needing Excel!* The result is a secure, efficient reporting solution with around-the-clock robustness

With a scalable design, XLReporter has an edition to fit any budget. It is implemented in over 80 countries and endorsed by small municipal facilities as well as major international manufacturers and Fortune 500 companies.

Reports at Your Fingertips

1- CONNECT

Connectors provide easy access to data from PLCs, historians, alarms and IoT devices. XLReporter provides industry standard connectors such as OPC DA, HDA and UA, business standard connectors such as ODBC and OLE-DB, native connectors to the leading historians and PLCs and even primitive connectors to CSV and text files.



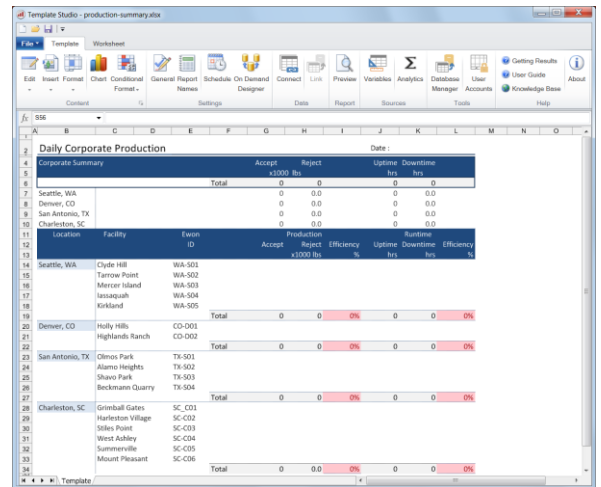
2 - DESIGN

With over 50 “out-of-box” templates, you will be reporting in minutes, *guaranteed!*

For custom reports, use the Design Studio. It is packed with familiar workbook features such as charts, format and formula together with XLReporter components built for industry. For Excel users, the Design Studio is also provided as a plug-in to Microsoft Excel.

Responsive templates ensure an optimized user experience across mobile, tablet and desktop.

Any workbook, either provided by a regulatory agency or one you use in-house can be readily imported into the Design Studio.



3 - REPORT

Turn raw data into information with built-in analytics that provide insight into your process. How many times did a pump cycle? How efficiently is equipment utilized? What are the top 5 frequently occurring alarms?

Reports are produced automatically on-time or on-events by the provided scheduler. They can also be produced on-demand from any device supporting a web browser.



4 – DISTRIBUTE

Reports, as Excel workbooks, encrypted PDF, web pages, CSV files or XML files, are automatically distributed to email, SMS, FTP server, web server, local/network printer and file server.

Industry Ready

Water and Wastewater Treatment

Plant Supervisors need to produce monthly regulatory reports as well as operational reports for internal use to monitor and improve plant efficiency and reliability.

Food and Beverage

Food manufacturers need an audit trail of the Clean In Place (CIP) process during the cleaning of interior surfaces of pipes, vessels, process equipment, filters and associated fittings, without disassembly.

Manufacturing

Manufacturers need timely production summary reports to provide valuable insight into their operations for product quality improvements. “Out-of-box” six-sigma reports provide product quality analysis.

Machine Builders

Machine builders need Overall Equipment Effectiveness (OEE) reports that provide KPIs that take into account the various sub components of the process – Availability, Performance and Quality.

Life Sciences

Life sciences, such as pharmaceutical, need 21 CFR Part 11 features such as Security, eSignatures, Auditing, Version Control. Batch systems also need reports that represent the manufacturing of a product e.g., temperatures during a heat cycle or the alarm activity during a reaction.

Alarm Management

ISA18.2/IEC62682 Alarm Performance reports are recognized as a good engineering practice. XLReporter analyzes alarm data over a period of time and provides a detailed report that contains key performance indicators, “bad actors”, alarm floods, chattering alarms, state alarms and much more.

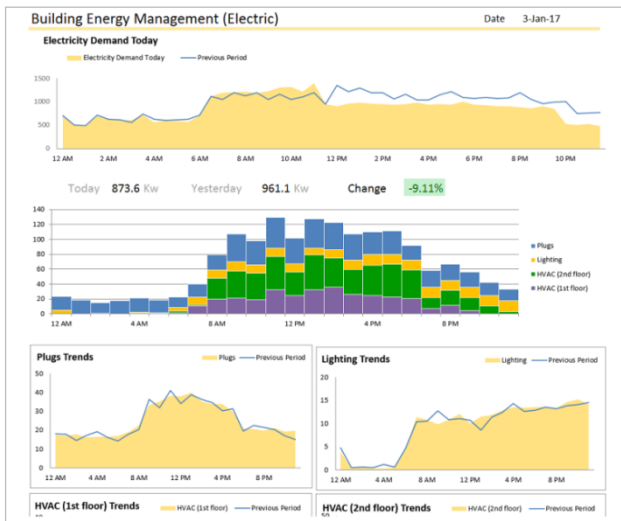
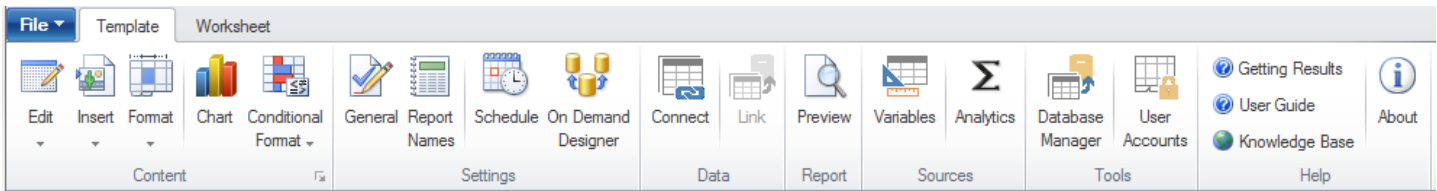
Remote Devices

Turn raw data and alarms from remote IIoT locations into actionable reports.

| Massachusetts Department of Environmental Protection - Drinking Water Program COMPLIANCE DETERMINATION FOR FILTERED SYSTEMS - Monthly Report | | | | | | | | | | |
|---|---|----------------------|---|-------------------------------------|----------------------|---------|----------------------|-------------------------|--------------------------|--|
| I. PWS INFORMATION | | | | | | | | | | |
| PWS ID: | 228004 | | PWS Name: | Franklinville Water Treatment Plant | | | PWS Town: | Franklinville, MA 01066 | | |
| Treatment Plant Name: | WATERWORKS/FILTERED/PLANT/FACILITY | | | Reporting Period: | Months: | October | Year: | 2016 | | |
| II. TURBIDITY PERFORMANCE CRITERIA | | | | | | | | | | |
| 1 | Monthly Turbidity (95%) NTU Limit - The turbidity level of a system's filtered water must be less than or equal to the Monthly Turbidity NTU Limit in at least 95% of the measurements taken each month for the filtration technology used, otherwise SWTR TT Violation (Tier 2) | | | | | | | | | |
| | 25 | = A | Total # of filtered water turbidity measurements for month (SWTR - Form F) | | | | | | | |
| | 2 | = B | Total # of filtered water turbidity measurements less than or equal to the specified limits for the filtration technology used. | | | | | | | |
| | 5.2% | = (B/A) X 100 | The percentage of turbidity measurements meeting the Monthly Turbidity 95% NTU Limit. | | | | | | | |
| 2 | Max Day NTU Limit - The turbidity level of a system's filtered water must at no time exceed the Max Day NTU Limit for the filtration technology used, otherwise SWTR TT Violation (Tier 2) | | | | | | | | | |
| Record the date and turbidity value for any measurements exceeding the Max Day NTU. Check box if "None" | | | | | | | | | | |
| Date | Value | Date Reported to DEP | Date | Value | Date Reported to DEP | | | | | |
| 1/12/2016 08:45 | J | | | | | | | | | |
| 1/20/2016 10:30 | J | | | | | | | | | |
| For each day the Max Day NTU limit is exceeded, the DEP must be notified by the end of the next business day. SWTR TT Violation (Tier 2). If DEP is not consulted within 24 hours then it is a SWTR TT (Tier 1) violation requiring public notification within 24 hours. | | | | | | | | | | |
| III. DISINFECTION PERFORMANCE CRITERIA | | | | | | | | | | |
| 1 | Point-of-Entry Minimum Disinfectant Residual Criteria - Residual Disinfectant concentration cannot be <0.2 mg/L for more than 4 hours. (SWTR TT Violation (Tier 2)) | | | | | | | | | |
| Minimum Disinfection Residual at Point-of-Entry to Distribution System | | | | | | | | | | |
| Day | Cl ₂ mg/L | Day | Cl ₂ mg/L | Day | Cl ₂ mg/L | Day | Cl ₂ mg/L | Day | Cl ₂ mg/L | |
| 1 | 82 | 6 | 89 | 11 | 83 | 16 | 88 | 21 | 90 | |
| 2 | 85 | 7 | 84 | 12 | 86 | 17 | 84 | 22 | 85 | |
| 3 | 81 | 8 | 88 | 13 | 85 | 18 | 85 | 23 | 84 | |
| 4 | 82 | 9 | 86 | 14 | 82 | 19 | 84 | 24 | 82 | |
| 5 | 85 | 10 | 81 | 15 | 85 | 20 | 88 | 25 | 80 | |
| | | | | | | | | | Residual Measured | |
| | | | | | | | | | Free Cl ₂ | |
| | | | | | | | | | Total Cl ₂ | |
| | | | | | | | | | Combined Cl ₂ | |
| If at any time the residual falls below 0.2 mg/L in the water entering the distribution system, the supplier of water must notify the Department as soon as possible, but no later than by the end of the next business day. The supplier of water also must notify the Department by the end of the next business day whether or not the residual was restored to at least 0.2 mg/L. | | | | | | | | | | |

| Overall Equipment Efficiency (OEE) Facility Dashboard | | | | | | | | | | | | |
|---|-----------|--|--------------|----------------------------|--|--------------|---------------|--|--|--------|---|--|
| Start | 1/21/2019 | | Average OEE | 79.5% | | | | | | Alarms | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">HIGH 2</div> <div style="text-align: center;">MEDIUM 3</div> <div style="text-align: center;">LOW 5</div> </div> | |
| End | 1/22/2019 | | Facility | Clydehill, Seattle, WA | | | | | | Total | 9 | |
| Press #1 | | | Quality | Production 4,416,900 units | | Waste | 9.22 units | | | | | |
| | | | Availability | Planned Time 21:00:00 | | Down Time | 0:14:00 | | | | | |
| | | | Performance | Ideal Speed 68.00 unit/hr | | Actual Speed | 49.47 unit/hr | | | | | |
| | | | OEE | 71.94% | | | | | | | | |
| Press #2 | | | Quality | Production 4,541,316 units | | Waste | 9.22 units | | | | | |
| | | | Availability | Planned Time 21:00:00 | | Down Time | 0:08:00 | | | | | |
| | | | Performance | Ideal Speed 68.00 unit/hr | | Actual Speed | 61.29 unit/hr | | | | | |
| | | | OEE | 89.56% | | | | | | | | |
| Press #3 | | | Quality | Production 4,665,732 units | | Waste | 9.22 units | | | | | |
| | | | Availability | Planned Time 21:00:00 | | Down Time | 0:02:00 | | | | | |
| | | | Performance | Ideal Speed 68.00 unit/hr | | Actual Speed | 53.49 unit/hr | | | | | |
| | | | OEE | 78.53% | | | | | | | | |
| Press #4 | | | Quality | Production 4,790,148 units | | Waste | 9.22 units | | | | | |

| Clean In Place (CIP) Report | | | | | | | | | |
|-----------------------------|---------------------------|---------------------------|-------------------|-------------------|--|-------------------------|---------------------------|----------|--|
| Vessel | V12-34 Fermenter | | Circuit | CIP-1701 | | Date | 19 January, 2017 | | |
| Category | | | | | | | | | |
| Start Time | 10:32:00 | | Flow Rate (L/min) | 150 | | Wash Type | Full | | |
| End Time | 16:23:00 | | Caustic (m3/cm) | 67 | | Auto | Yes | | |
| Duration | 03:51:00 | | | | | | | | |
| Procedure | | | | | | | | | |
| Step | Name | Duration | Return Temp degF | Flow Rate L/min | Comment | | | | |
| 1 | First Rinse | 360 | 110 | 150 | From main tank | | | | |
| 2 | Drain to floor | 120 | | | | | | | |
| 3 | Caustic Wash | 1200 | 145 | 150 | Recirculate through equipment and back into tank | | | | |
| 4 | Drain to floor | 120 | | | | | | | |
| 5 | Final Rinse | 360 | 70 | 150 | From main tank | | | | |
| 6 | Drain to floor | 120 | | | | | | | |
| 7 | Sanitizer | 540 | 70 | 150 | Recirculate through equipment and back into tank | | | | |
| 8 | Drain to floor | 120 | | | | | | | |
| | | | | | | | | | |
| CIP Readings | | | | | | | | | |
| time | supply conductivity mS/cm | return conductivity mS/cm | process stage | supply flow L/min | return flow L/min | return temperature degF | supply pump discharge PSI | comments | |
| 0 | 0 | 0.00 | first rinse | 150 | 150 | 78 | 78 | | |



Empower Your Team

Spread the power of XLReporter throughout your organization using consistently formatted reports and forms from one central location.

From a web browser, you are ready to produce, view, print, email and share reports. User access is secured and personalized by user profiles.

True On-Demand Reporting

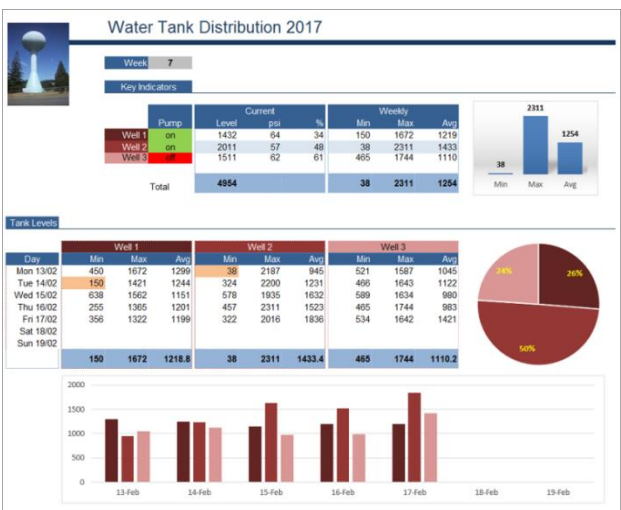
Enter custom setting for a template and generate a report on-demand from any windows client or device supporting a web browser.

Client requests are authenticated by secure server-side reporting services providing a fast and reliable response.

Take Reports to another Dimension

XLReporter provides layers of report analysis which would otherwise require intense manual effort or programming to accomplish.

Conditional summaries, analytical calculations, runtimes and OEE KPIs are just a few examples of the “out of the box” capabilities.



FEATURES

- ✓ Design Studio to produce workbook templates
- ✓ Award winning reporting engine
- ✓ 21 CFR Part 11 features
- ✓ Report automatically, periodically or on events
- ✓ Report on-demand, locally or from mobile devices
- ✓ Publish reports as workbooks, web pages or PDF
- ✓ Distribute reports by email, web portal or FTP

Download an evaluation copy at www.SyTech.com.

