



Proficiency Workflow from GE Digital

Right actions, right time, right results



Guide operators to action

Do your operators and technicians know the right actions to take? Is your team overwhelmed with alarms and events?

With Proficy Workflow from GE Digital, you can easily document processes, transfer knowledge, and drive consistency and predictability into your plant. You can digitize manual and automated processes with one tool across your entire facility—from plant operators and maintenance teams to field crews and leadership.

Features

- Guide operators with clear, step-by-step, interactive work instructions
- Document when, by whom, and how long work is performed
- E-signature and audit trails at your fingertips!
- Trigger action based on time or events
- Embed videos, live feeds, pictures, manuals, and MSDS
- Automatic escalation and notification

Make every operator an expert

Proficy Workflow provides step-by-step instructions to operators—from your choice of dedicated or mobile client—even when visualizing data from within your iFIX or CIMPLICITY HMI/SCADA application..

Operators do not have to learn a new system and can immediately improve their response to events and ensure operations run smoothly. Additionally, Proficy Workflow can filter out nuisance alarms and take automatic action, so your team only needs to perform steps on certain alarms.

You can also use Proficy Workflow to escalate events, notifying management of a critical situation and next steps. For example, you can automatically trigger emails or text messages when the situation requires.

Benefits

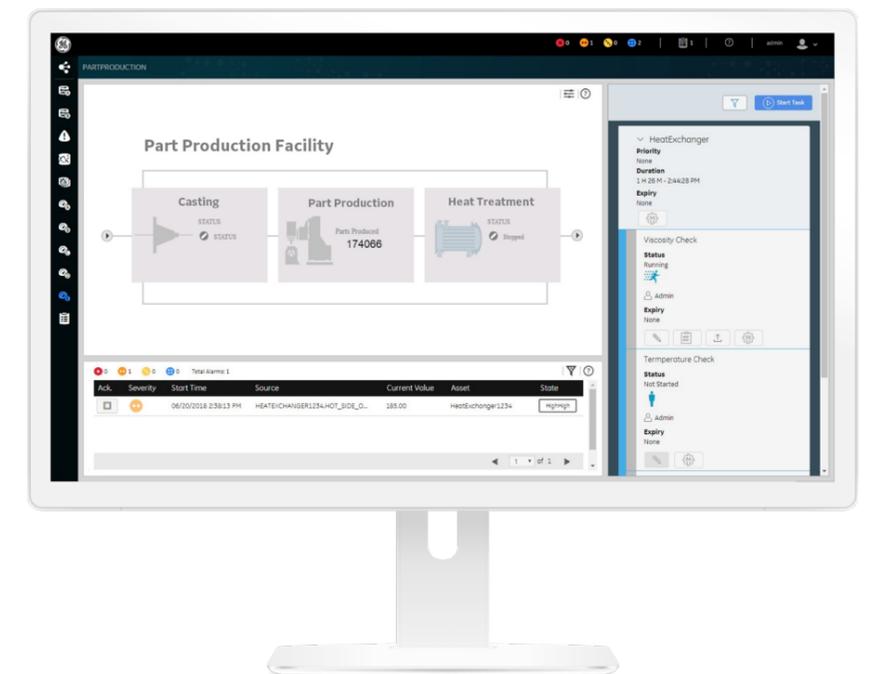
- Ensure the right actions fast—anywhere, anytime
- Increase consistency—less errors, rework, and waste
- Capture best practices before experts retire
- Minimize training time and costs
- Compare staff performance and processes to optimize
- Ease compliance by enforcing procedures

Less emergencies, faster troubleshooting

Operators want the right information to do their jobs, and they don't want to call you in the middle of the night or interrupt important meetings. With documented processes and digitized procedures, every operator is an expert—with step-by-step instructions guiding the right actions.

“Hundreds of Department of Public Works staff hours are saved, and effective and consistent operations are ensured.”

Bill Fritz, P.E., Director of Public Works, Waterford Township, MI



Guide operators to improve consistency and reliability

Don't just acknowledge SCADA alarms

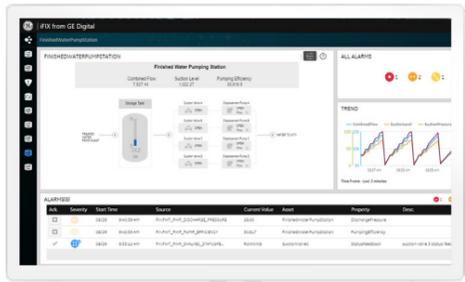
With Proficy Workflow, you can go beyond SCADA alarm acknowledgement and drive the right corrective action. With a guided and consistent event response, you can reduce troubleshooting time and those midnight emergency phone calls.

Use reports to identify and eliminate nuisance events, compare operator performance, and evaluate opportunities for improvement. Additionally, a digital log entry reduces labor and increases the information collected on events (no more lost sheets of paper!).

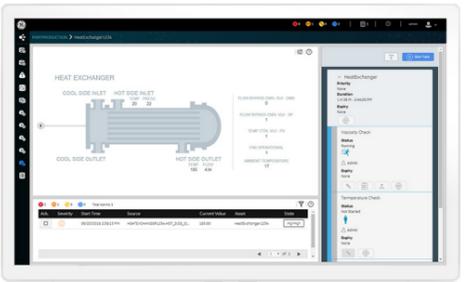
Enhance the value of your HMI/SCADA with:

- Alarm corrective action—Fix production faster and gain greater visibility by automatically sending tasks to people or other systems for corrective action
- Rapid development of digitized work instructions with validated entry
- Eliminate scripting for defining processes, using Proficy Workflow instead

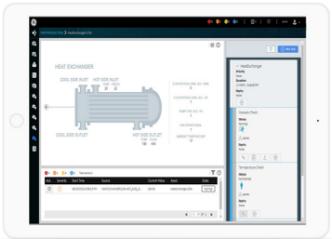
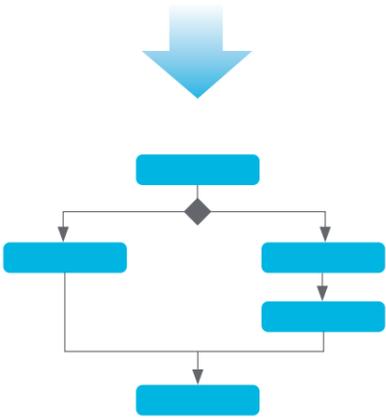
Proficy Workflow guides operators through your choice of client



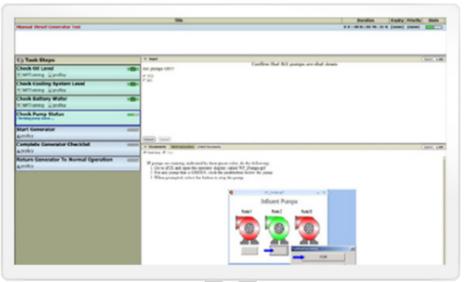
GE Digital's HMI/SCADA



HTML5 Task List



GE Digital's Mobile Client



GE Digital's Proficy Workflow Client

Approximately
**30-50%
faster**

than HMI scripting
and easier to maintain

- 40% reduced waste
- 70% increased operator productivity
- 20% increased capacity
- 2X workforce efficiency
- 33% increased operations capacity
- 0 errors in shipping
- 20% increase in operator efficiency

Get connected and speed operator response

Condition-based asset performance management

With Proficy Workflow, you can also bridge the gap between Operations and Maintenance—finally achieving real-time, condition-based asset management. Connect Proficy Workflow to your CMMS/EAM such as Maximo, SAP PM, Infor, Cityworks, and more.

When an out-of-spec event takes place in the SCADA, Proficy Workflow can trigger a work process to interface with the CMMS system, secure a work order number, send specific instructions, including GIS location information to an operator, and facilitate the corrective action to remediate a problem.

Proficy Workflow can then close out the work order with the CMMS, whether plant or GIS centric, and record the actions taken for historical records.

You can reduce the need for operators making scheduled rounds and device readings—and automate the process of moving from condition detected to creating work requests and the right corrective action. That means less downtime, maintenance, risk—and lower costs.



Enhance your production operations with real-time guidance and orchestration

Proficy Workflow can help you:

- Document for audit trails, including e-signature
- Deliver information and functionality based on business processes and workforce roles
- Drive process visibility—know where orders are at in the plant—right now
- Eliminate scripting languages
- Synchronize sequences and processes
- Escalate expired work requirements
- Condition data for reporting



Popular use cases

- Electronic Standard Operating Procedures (eSOPs)/ paperless operations
- Automate engineering spec changes
- Exception management/corrective action
- Event-triggered QA sampling request
- Quality check
- Quarantine
- Rework product/scrap product
- Production order dispatch
- Package finished goods
- Machine setup
- Delivery – Truck reception/receive materials
- Metal detector check
- Data conditioning/middleware

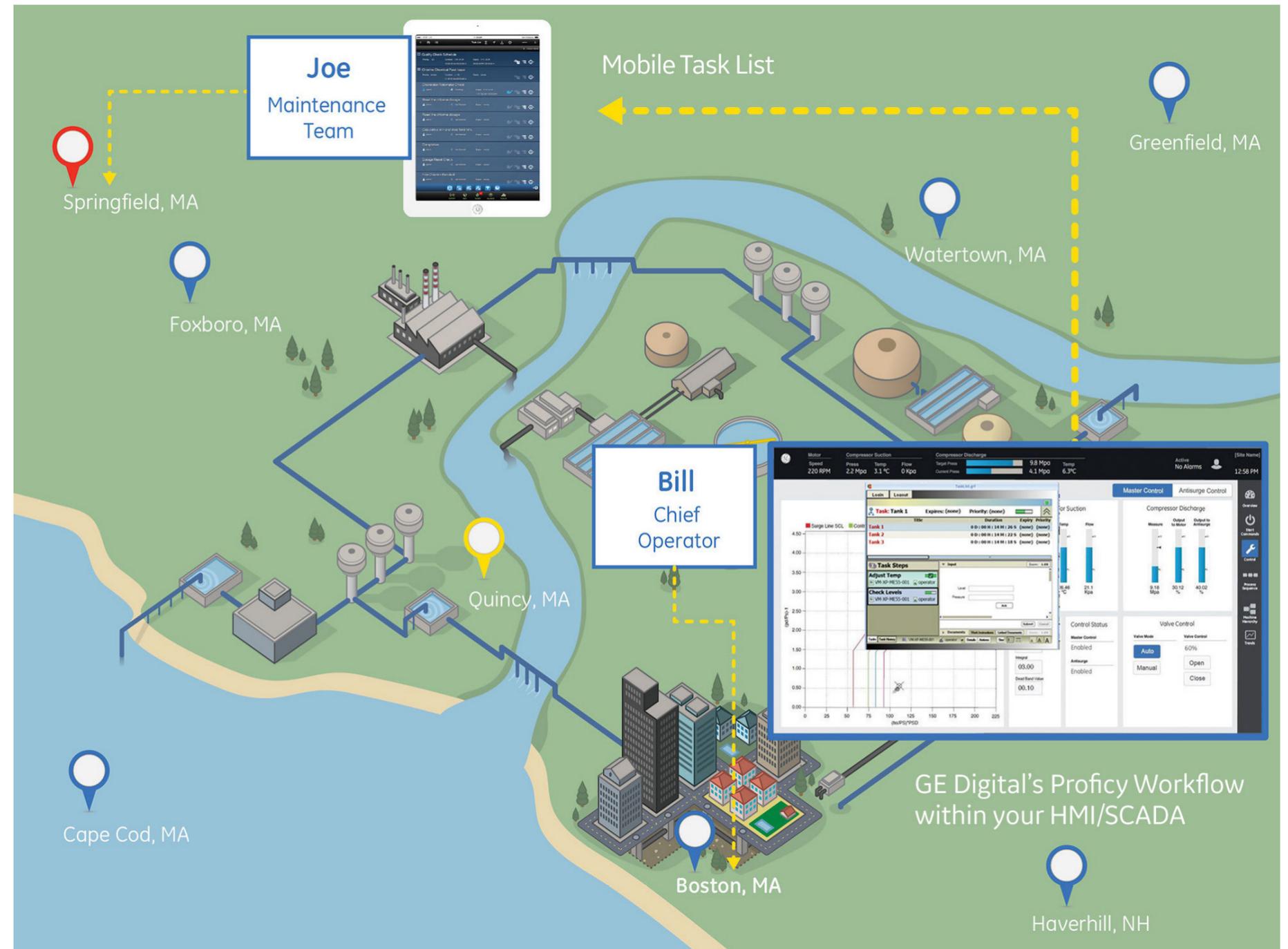
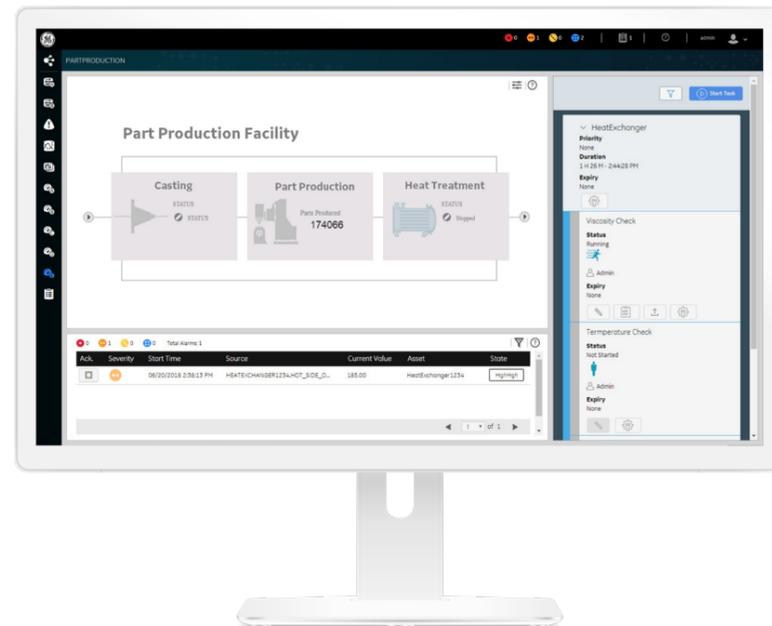
“Significant opportunities exist for improving pharmaceutical development, manufacturing, and quality assurance through innovation in product and process development, process analysis, and process control.”

Mary Grow, VP ET & Business Processes, JHP Pharmaceuticals

The right work instructions, anywhere, anytime

Mobile task management

With GE Digital's HTML 5 container and embedded Task List, you can leverage the power of Proficy Workflow on the go to receive expert guidance while performing field jobs. In addition to digitized work instructions, SOPs and alarm response procedures, you can collaborate with experts and peers on tasks in real time. This software runs natively on mobile devices—including iOS, Android, and Microsoft Surface tablets.



GE Digital's Proficy Workflow within your HMI/SCADA

Reports:

Your key to optimizing processes and performance

With Proficy Workflow, you have an unprecedented way to analyze and optimize both staff performance and work processes.

You can automatically store task-related information into an audit trail—then use this data to generate reports. Proficy Workflow includes report templates, and you can easily build custom reports.

“We use GE Digital's Proficy Workflow to guide the operations staff through proper procedures and help with a mandated Emergency Response Plan. We can achieve consistent operations of the staff, learn how long it takes to accomplish steps, and run our operations faster.”

**John D'Aoust, Plant Manager, Water Division,
City of Haverhill, MA**

As part of your continuous improvement efforts, you can analyze the following and more:

- Time to complete tasks
- Completed vs. incomplete steps or tasks
- Reasons behind exceptions
- Variation across staff
- Steps that take the most time to complete or have the most exceptions
- Common alarms/events that are triggering workflows

With this analysis, you can easily make and deploy process changes using Proficy Workflow. You can provide instant feedback to staff on process performance. Additionally, you can lean processes and eliminate unnecessary steps.

Completed :	Personnel :	Results	Failures	Description	Product Affected
Mar 12, 2014 04:29 PM	foperator	Failed	Wand 3	Found odd pieces of material in bread loaf	Only the loaf we saw with odd material, and the one before and after that in the line
Mar 12, 2014 04:27 PM	foperator	Passed			
Mar 12, 2014 04:08 PM	foperator	Failed	Wand 3	Found pieces of metal in one of the loaves - looks like a screwdriver?	fdsa
Mar 12, 2014 04:05 PM	foperator	Passed			
Mar 12, 2014 04:02 PM	foperator	Passed			
Mar 12, 2014 03:47 PM	foperator	Passed			
Mar 11, 2014 04:45 PM	foperator	Failed	Wand 3	fdsafdsa	fdsa
Mar 11, 2014 04:42 PM	foperator	Passed			
Mar 11, 2014 01:58 PM	foperator	Passed			
Mar 11, 2014 01:55 PM	foperator	Passed			
Mar 11, 2014 01:08 PM	foperator	Passed			
Mar 11, 2014 01:05 PM	foperator	Passed			
Mar 11, 2014 01:02 PM	foperator	Failed	Wand 3	fdsafdsa	fdsa
Mar 11, 2014 12:42 PM	foperator	Passed			
Mar 11, 2014 12:27 PM	foperator	Passed			





New in Proficy Workflow Version 2.6

- HTML5 Client embedded Task List: Single authentication; existing HTML5 forms can be reused, no migration necessary; utilities to export equipment model, no need to redesign
- OPC UA connectivity: read and write to tags, server discovery, automatic security certificate set up
- Email service provider enhancements: more granularity to configure parameter used to send email, allows the user to add an attachment to an email
- Improved server startup time: startup time reduced by up to 68%

About GE

GE (NYSE: GE) is the world's Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive. GE is organized around a global exchange of knowledge, the "GE Store," through which each business shares and accesses the same technology, markets, structure and intellect. Each invention further fuels innovation and application across our industrial sectors. With people, services, technology and scale, GE delivers better outcomes for customers by speaking the language of industry.

Contact Information

www.ge.com/digital/products/workflow

