Application Assembler from GE Digital
Enhanced customization of Web-based UI for on-premises systems

Delivering better customizable UI faster

It’s common for developers to get requests for user interface (UI) modifications shortly after delivering an application. These requests require a good deal of time to create and manage the modifications.

Application Assembler from GE Digital is a next-generation application UI builder for on-premises systems that reduces the development time required to produce high-quality, scalable connected dashboards. It enables developers to accelerate the pace at which they can deliver value-add solutions, resulting in greater customer satisfaction and market share against new and existing competitors.

GE Digital created Application Assembler by combining ThingWorx technology with its powerful manufacturing and automation solutions to give industrial users the most advanced UI available.

Application Assembler offers unique advantages to both developers and end-users. It enables developers to significantly reduce the development time of feature-rich, unique dashboards that extend on-premises Web HMI and Plant Applications from GE Digital. In addition, Application Assembler delivers an intuitive dashboard to end-users to increase their productivity.

Building customized dashboards for today’s connected enterprise

Application Assembler is a development tool used to create new content—also known as cards and visualizations—for GE Digital MES and SCADA clients. It provides even more flexibility within Web HMI and Plant Applications for customizing dashboards to meet specific site needs. Application Assembler also enables users to leverage the rich set of data contained within GE Digital applications, making them available in a mobile client interface that provides operations, supervisors, and managers with actionable information and insights.

Content developed can only be deployed in the Web HMI or a Plant Applications 7.0 clients; it cannot connect to data sources outside these applications.

Outcomes

- Produce products faster with digitized standard operating procedures
- Reduce work in process (WIP) inventory through better WIP visibility and management
- Achieve tighter control on quality by digitally capturing quality data and ensuring the product is within specification
- Streamline the supply chain by managing outsourced operations and capturing supplier quality data
- Reduce warranty costs by ensuring product is manufactured correctly and having comprehensive “as manufactured” product records
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Mashup Builder simplifies development

The Mashup Builder is the tool used to create visualization web pages in Application Assembler and is where individual mashups are defined. It empowers developers to rapidly create rich, interactive applications, real-time dashboards, collaborative workspaces, and mobile interfaces. When used with data from Plant Applications 7.0 or Web HMI, Application Assembler provides a drag-and-drop functionality for building dashboards—no coding required. Application Assembler also enables developers to build cards using Plant Applications and Web HMI data.

Mashup Builder is designed for content developers to combine the data services available within Application Assembler with a set of visualization components, called widgets, to create unique webpages that combine data from multiple sources.

The Mashup Builder can be used to define style and state definitions to control the look and feel (colors, fonts, and color contexting) of individual widgets in a mashup.

Mashups provide a visualization of data aggregation, making the application more useful and effective. These advanced dashboards give the end-user the ability to dynamically control data by viewing, sharing, and rearranging the information as they desire.

End-users do not require in-depth knowledge of Application Assembler to use dashboards. After the backend development work is complete, users can easily configure the content and layout of their dashboards. Using the available gadgets, dashboard users can create and delete groups within dashboards, as well as share, delete, and edit dashboards.

Features
- Advanced UI capabilities for Web HMI and Plant Applications 7.0
- Increased flexibility for customizing dashboards to meet specific site needs
- Drag-and-drop functionality for building dashboards, no coding required
- Ability to create custom cards for mashups
- Users can easily configure the content and layout of their dashboards

Software requirements
- Plant Applications 7.0
- Web HMI

Software requirements are representative and may vary by customer deployment. Please consult the product documentation for more details.

Card Configuration Mashup for Web HMI
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Services
In the world of Industrial Internet of Things (IIoT), organizations are able to optimize productivity, reduce costs, and achieve Operational Excellence. While this is an exciting time for opportunity and growth, it can also bring on new challenges, questions, and uncertainty. No matter where you are on your IIoT journey, GE Digital has the right services offering for you.

Managed Services We can help you maintain your critical machines from one of our remote locations around the world using model-based predictive-analytic technology.

Implementation Services Our team will help develop a collaborative, multigenerational plan that will marry your existing investments to the right process enhancements and technology.

Education Services We specialize in education services to ensure that you’re leveraging our solutions to the fullest extent with our training and certificate programs.

Acceleration Plan Services Let us help by ensuring that your business continues to operate at its highest efficiency, all while mitigating risks to your investments.

Security Services Our solutions provide industrial-grade security for a wide range of OT network and application topologies.

Additional products
Plant Applications 7.0 ➔
Maximize Overall Equipment Effectiveness (OEE), improve production scheduling, and ensure product quality by leveraging real-time production data.

Web HMI ➔
Take operations to the next level with GE Digital’s proven HMI/SCADA solutions, powered by the Industrial Internet. Precisely monitor, control and visualize every aspect of operations for intelligent control using new high-performance technology.

Predix ➔
Innovate and transform your business with the cloud-based operating system for the Industrial Internet, purpose-built for industry.

Continue your IIoT journey
Transforming your business requires innovative foundational solutions that lay the groundwork for optimized performance.

Cyber Security for OT ➔
Take the right actions to increase resilience, help ensure safety, and maintain availability across your operational technology (OT) environment.

Asset Performance Management ➔
Move from reactive to proactive maintenance to reduce unplanned downtime, minimize maintenance costs, improve efficiency, and extend asset life.

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.

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