



# ActivePoint\* HMI

*Improved HMI user experience to increase operator efficiency*

## Overview

In collaboration with nearly 100 global power plant operators, GE developed the ActivePoint HMI package to increase plant operator efficiency and awareness. The improved system provides simpler and more intuitive graphics and navigation while applying a more holistic strategy for the management of alarms and alerts, meaning operators and plant maintenance personnel can focus on what is important.

ActivePoint was designed with many industry standards in mind, including ISA 18.2 (for the O&G industry). This advanced software improves how operators interact with the system, enabling more informed decision making.

In addition, the ActivePoint HMI provides the latest in GE's HMI technology to create even more benefit to the e-technology platforms, represented through the enhanced modular-based technology of the Mark\* VIe, EX2100e and LS2100e.

## Benefits:

- Simplified graphics and navigation mean improved operator efficiency and reduction in errors.
- Improved alarm prioritization and rationalization reduces actionable alarms by 80%.
  - New use of data to classify and prioritize alarms as diagnostic, alerts or actionables.
  - Suppresses and shelves alarms that are not risks or need immediate action.
- Roles-based access displays necessary information to ease decisions.
- Can be deployed through commercial, industrial, panel mount and server-based thin client HMIs.
- Historical Trending – Dynamic control of objects on the screens enables operators to analyze issues, identify root causes, and take actions to avoid future problem.



## ActivePoint provides the following results for users:

- 21% usability improvement for users
- 80% actionable alarm reduction
- 40% reduction in permissives

## Simplified graphics for intuitive operations

**Operator Challenge:** Too much information is presented on the screens to quickly detect and understand the source of alarms. This hampers the ability of maintenance teams to efficiently identify the root cause of a defect.

**GE Solution:** ActivePoint presents information on screen in an easy-to-understand fashion presented in a color palette designed to easily highlight areas of concern. This simplified approach makes it easier to see alarms, highlight changes that require action or bring attention to defects and issues.

## Advanced alarm rationalization

**Operator Challenge:** Too many alarms are presented simultaneously to be able to quickly prioritize and develop a plan to mitigate the alarms. Poor alarm management strategies can lead to unnecessary shutdowns and trips.

**GE Solution:** 80% of trips can be accounted for in operator error or speed to react. With ActivePoint systems automatically pushing standard operating procedures based on live alarms to operators, operators can drive consistency and quicker responses. This allows four times the reaction speed which means avoidance of downtime.

Process alarms are filtered based on the current plant operation and conditions so only the operationally significant and actionable alarms are highlighted. This dynamic alarm management allows the operator's attention to be better focused by eliminating extraneous alarms, providing recognition of critical problems, and more accurate and timely response. Streamlined operator focus eliminates false trips and improves reaction to actionable events, leading to less downtime.

## Help keep your HMIs current with Controls LifeCare

This comprehensive subscription helps to maintain the health of turbine and plant control, generator control and static starter systems. Subscribers benefit from GE expertise and a true partnership in the maintenance and servicing of control systems with a simple, packaged approach. Controls LifeCare is available in one, five and ten-year agreements and is applicable for both new and existing units.

### All offer levels include:

- Parts availability and replacement
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- On-site technical support from an annual visit from a Controls Field Engineer (FE) and ControlsCare Service Manager

Five and ten-year subscriptions as well as subscriptions on currently installed units include ControlST upgrades. A ten-year subscription also includes an HMI upgrade.

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