

# WATERFALL FOR GE iFIX

## SAFE HMI REPLICATION

Engineers, support technicians and other personnel frequently need access to operator HMI screens and data – screens that are identical to the ones operators are navigating in real time. Such access can be vital to understanding and trouble-shooting industrial operations.

However, connecting an enterprise instance of the GE iFIX HMI product directly to industrial data sources through firewalls is high risk. All connections through firewalls that permit data to leave an industrial system also permit attacks to enter that system.

The Waterfall for GE iFIX solution enables safe access to live industrial data and screen definitions for an enterprise iFIX instance. The enterprise iFIX and Waterfall solution together enable an enterprise-resident GE iFIX instance to provide personnel on enterprise networks with the ability to navigate operator screens the same way an operator would, with access to identical real-time indications of industrial operations, without any chance of impacting the industrial iFix instance.

## BENEFITS OF USING WATERFALL FOR GE iFIX



Securely replicates GE iFix HMIs from ICS to enterprise networks



Simple deployment – connector runs entirely in the Unidirectional Gateway with simple web user interface



Eliminates all remote attacks and malware propagation from external networks



Facilitating compliance with NERC CIP, NIST 800-82, ANSSI, IEC 62443 and more



Fully transparent to GE iFix system users



Power



Pipelines



Rail



Water



Facilities

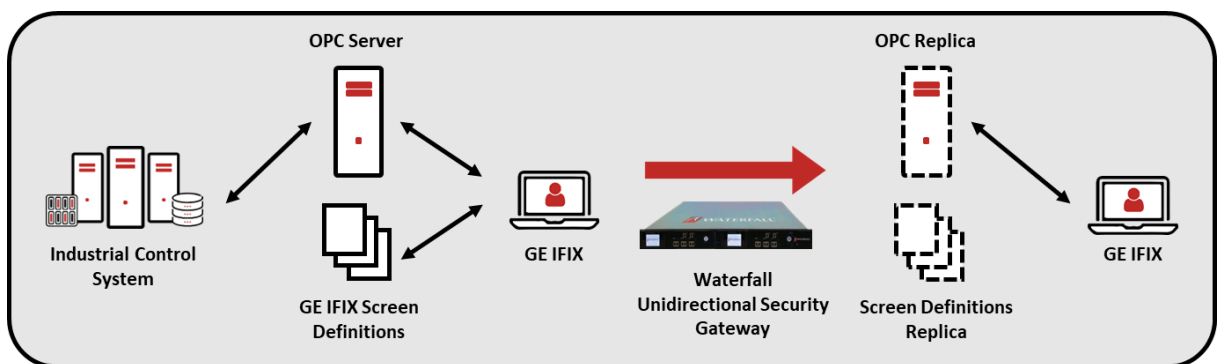


Manufacturing

## WATERFALL FOR GE IFIX

The Waterfall for GE iFIX connector is part of the Waterfall Unidirectional Security Gateway product line – the gateways are combinations of hardware and software. The gateway hardware deployed between the two networks makes it physically impossible for any attacks to flow from the corporate network back into the industrial network, eliminating any threats of online remote attacks, malware or human errors.

The Waterfall for GE iFIX connector software replicates OPC servers and screen definition files in real time to an enterprise network. An enterprise iFIX instance uses the replicas to provide enterprise users with an HMI identical the plant's. Enterprise users can be confident of seeing the same displays from the enterprise iFIX as they would see on live operator displays.



## FULLY- FEATURED & ROBUST SUPPORT:

- » Faithful, real-time replication of GE iFix OPC inputs and screen definitions from ICS to enterprise networks
- » Automatic discovery and propagation of new OPC tags
- » Supports an unlimited number of OPC-DA tags
- » Automatic discovery and propagation of new and updated iFIX screen definition files
- » 1-10 Gbps standard throughput & High Availability options

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### ABOUT WATERFALL

Waterfall Security Solutions' unbreachable OT cybersecurity technologies keep the world running. For more than 15 years, the most important industries and infrastructure have trusted Waterfall to guarantee safe, secure, and reliable operations. The company's growing list of global customers includes national infrastructures, power plants, nuclear generators, onshore and offshore oil and gas facilities, refineries, manufacturing plants, utility companies, and more. Waterfall's patented Unidirectional Gateways and other solutions combine the benefits of impenetrable hardware with unlimited software-based connectivity, enabling 100% safe visibility into industrial operations and automation systems.

Waterfall's products are covered by U.S. Patents 7,649,452, 8,223,205, and by other pending patent applications in the US and other countries. "Waterfall", the Waterfall Logo, "Stronger than Firewalls", "In Logs We Trust", "Unidirectional CloudConnect", and "CloudConnect, and "One Way to Connect" are trademarks of Waterfall Security Solutions Ltd. All other trademarks mentioned above are the property of their respective owners. Waterfall Security reserves the right to change the content at any time without notice. Waterfall Security makes no commitment to update content and assumes no responsibility for any mistakes in this document. Copyright © 2023, Waterfall Security Solutions Ltd. All Rights Reserved. [www.waterfall-security.com](http://www.waterfall-security.com)