The IIoT promises revolutionary efficiencies of industrial operations, however these benefits require deployment of a multitude of connected devices that gather and communicate data: increasing the cyber attack surface and opening paths for attackers to enter industrial networks. Collecting data from different devices and re-coding that data to cloud-friendly formats demands innovative technologies and approaches.

By providing hardware-enforced network protection, Waterfall’s Unidirectional CloudConnect enables data flow from industrial networks, directly into Internet-based and other cloud solutions, while preventing remote attacks from penetrating the protected industrial networks.
The Unidirectional Cloud-Connect is a secure cloud gateway containing unidirectional technology consisting of both hardware and software components. The gateway hardware can transmit information from a control system network to an external network, but is physically incapable of propagating any cyber attack at all back into the protected network.

**THEORY OF OPERATION**

1. **Collect**
   - data from industrial sources

2. **Convert**
   - data into unified cloud-friendly format

3. **Publish**
   - safely to cloud platforms

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**INFO@WATERFALL-SECURITY.COM | WWW.WATERFALL-SECURITY.COM**

**ABOUT WATERFALL SECURITY**

Waterfall Security Solutions is the OT security company, producing a family of Unidirectional Gateway technologies and products that enable enterprise-wide visibility for operations, with disciplined control. Waterfall products represent an evolutionary alternative to firewalls. The company’s growing list of customers includes national infrastructures, power plants, nuclear plants, off and on shore oil and gas facilities, refineries, manufacturing plants, utility companies, and many more. Deployed throughout North America, Europe, the Middle East and Asia, Waterfall products support the widest range of leading industrial remote monitoring platforms, applications, databases and protocols in the market. For more information, please contact: info@waterfall-security.com

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