WATERFALL FOR ICCP

SECURE ICCP SERVER EMULATION

Operators of electric generation, transmission, distribution and power grid control centers all rely on continuous communications with partner utilities and central authorities to balance generating and transmission capacities against load. The Inter Control-Center Communications Protocol (ICCP) is frequently used for such coordination. Partner utilities may be large or small, and may be more or less thoroughly secured against cyber attacks. It is vital to the reliable operation of electric utilities that utilities' control systems are protected from attacks originating in partner utilities across ICCP communications channels.

Waterfall for ICCP unidirectionally emulates ICCP servers to external networks. Partner utilities and central authorities are able to poll the ICCP replicas normally, as if they were still communicating with the original ICCP server. Unidirectional replication means that no online attacks, no matter how sophisticated, can penetrate back into a protected control system or SCADA network from ICCP partner utilities.

BENEFITS OF USING WATERFALL FOR ICCP

Securely and unidirectionally emulates ICCP servers

Fully transparent to ICCP applications

Eliminates all remote attacks and malware propagation from external networks

Facilitates and simplifies compliance with NERC CIP, NIST, ANSSI, IEC and other standards and regulations

Simple deployment, off-the-shelf solution

Rails   Oil & Gas   Manufacturing   Water   Power   Pharma

WATERFALL SOLUTION FOR ICCP

Waterfall for ICCP is part of the Waterfall WF-500 family of solutions. The software connector polls protected ICCP servers, regularly creating a snapshot of all configured ICCP registers and values. That snapshot is transmitted unidirectionally to an external network, such as a wide-area network (WAN) connecting an electric utility to other utilities or to a central authority. On the external network, Waterfall for ICCP emulates the protected ICCP server to external users and applications. Partner ICCP servers can poll the Waterfall replica and receive the same answers to their polls as the live ICCP server would have provided.

Waterfall for ICCP supports all of the high availability, management automation, central monitoring and diagnostics, and many other features essential to reliability-critical deployments. Waterfall for ICCP also supports auto-discovery of ICCP register definitions, automatically propagating register additions, deletions and attribute changes to Waterfall's ICCP replicas. With Waterfall for ICCP deployed, electric utilities can be confident that no compromise of a partner utility or the ICCP WAN can propagate back into the protected control system network.

FULLY-FEATURED & ROBUST SUPPORT:

» Faithful, real-time emulation of ICCP servers

» Automatic discovery of new ICCP tags and propagation of those tags to ICCP replicas

» Supports an unlimited number of ICCP tags

» Tested and supported with a wide variety of ICCP versions and vendors

» High availability option

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ABOUT WATERFALL SECURITY SOLUTIONS

Waterfall Security Solutions is the global leader in industrial cybersecurity technology. The company's expanding portfolio of customers includes national infrastructures, power plants, nuclear plants, offshore oil and gas facilities, rail transport, 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. Please contact: info@waterfall-security.com