



FOX IT
part of nccgroup



Fastest Replication of High Volume PI Data

Fox PI Replicator

The Fox PI Replicator is a software solution which can be used in combination with the Fox DataDiode.

By using a Fox DataDiode and the Fox PI Replicator software together:

- industrial data can be replicated into a business environment allowing business users to run queries against the replica osisoft PI system
- industrial data can be transferred without exposing the industrial network to digital threats from the outside world

Fox DataDiode – secure one-way connection

The Fox PI Replicator 3.0 software is part of the Fox DataDiode product family, a combination of hardware and software, built with one thing in mind: protecting critical assets.

The Fox DataDiode is a solution allowing data to be transferred in one direction only and is accredited with the Common Criteria EAL7+ level, making it the most secure solution to protect industrial networks against cyber threats.

osisoft PI replication

The Fox PI Replicator software reads live and historical data, as well as data structure from the PI system on the production network. The data is sent through a Fox DataDiode to the other network, for example a business network, where it writes the data to the destination PI system.

For a more secure society

The Fox DataDiode PI Replicator features include:

- High performance transfer of data
- Easy and clear configuration
 - Auto-discovery of tags
 - Possibility to restrict replication scope
 - On-the-fly structure change handling
 - Automatic creation of destination tags
- Data replication from one or more source PI servers to one or more destination PI servers
- A true one way connection by using the Fox DataDiode that has numerous security certifications
- Single fault-tolerant and high availability support
- Support for all Osisoft PI server™ versions from 3.2.357 (PI 3.2 SR1) or later

Prerequisites:

- Fox DataDiode solution consisting of two proxy servers and one Fox DataDiode unite
- One or more source PI servers
- One or more destination PI servers

FOX-IT

FOX-IT prevents, solves and mitigates the most serious threats caused by cyber attacks, data leaks, or fraud with innovative solutions for governments, defense agencies, law enforcement, critical infrastructure and banking and commercial enterprise clients worldwide. FOX-IT combines smart ideas with advanced technology to create solutions that contribute to a more secure society. We develop products and custom solutions for our clients to guarantee the safety of sensitive and critical government systems, to protect industrial networks, to defend online banking systems, and to secure confidential data.

For more detailed information about the Fox DataDiode, including partner details, please go to www.foxdatadiode.com

The software supports replication for both partial and full lists of tags and the use of auto-discovery mechanisms. The use of PI collectives is also supported.

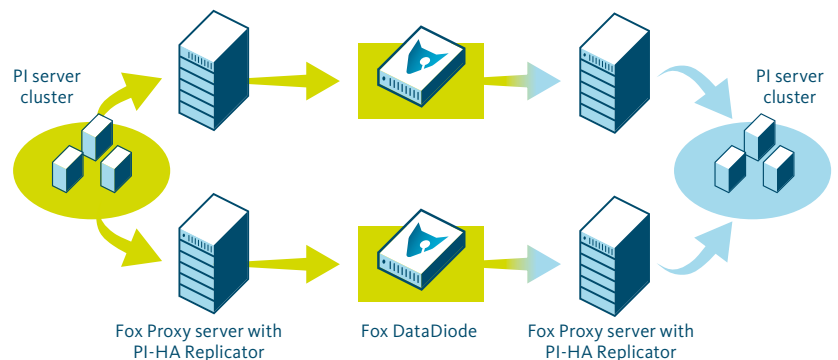
High performance – High availability

As more and more devices will be connected as part of the Industrial Internet of Things (IIoT), more and more tags will be generated. The Fox PI Replicator is designed with the future in mind. The Fox PI Replicator is fast and able to handle large numbers of tags: speeds of over 200.000 tag updates per second are easily achieved.

The Fox PI Replicator is also available as a high availability solution. When a single component fails, the availability of the system is not jeopardized, allowing for time to plan a maintenance window.

ICS network

Office network



Osisoft partnership

As an official Osisoft partner, the Fox PI Replicator has been benchmarked in cooperation with Osisoft.



Business Benefits

The benefits of the Fox PI replicator and the Fox DataDiode are:

- Securely replicate PI data from a production network into the corporate network.
- Recognized by Osisoft.
- Keeps hackers, malware and other online threats outside the plant.
- Eliminates the risk of online human error where users on the corporate network accidentally jeopardize the production systems.
- Supports DataDiode connections of 1 Gbps and 10 Gbps.
- Common Criteria Certified EAL7+, CNII EISU and BSI.
- Facillitates compliance with regulations such as NERC-CIP, NIST and others.

Fox DataDiode family

FOX-IT has offered the DataDiode family of products since 2006. Gartner qualifies FOX-IT as a leading intelligence provider and specialized Managed Security Services-partner. FOX-IT delivers the DataDiode family of hardware and software solutions in more than 40 countries through a knowledgeable global network of partners. Information on the different applications for the Fox DataDiode is available on www.foxdatadiode.com.



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