

# Waterfall & Metascan

Secure Antivirus Signature Transfers and Secure File Transfers



**OPSWAT**<sup>TM</sup>



- Hardware-enforced unidirectional replication of anti-virus signatures for Metascan
- Integrated Metascan antivirus scanning server for unidirectionally transferred files
- High Availability and 1Gbps options
- Simplifies NERC-CIP, NRC, NIST, CFATS and other regulatory compliance
- Common Criteria EAL4+ certified.
- Assessed for security by Idaho National Labs

## Overview

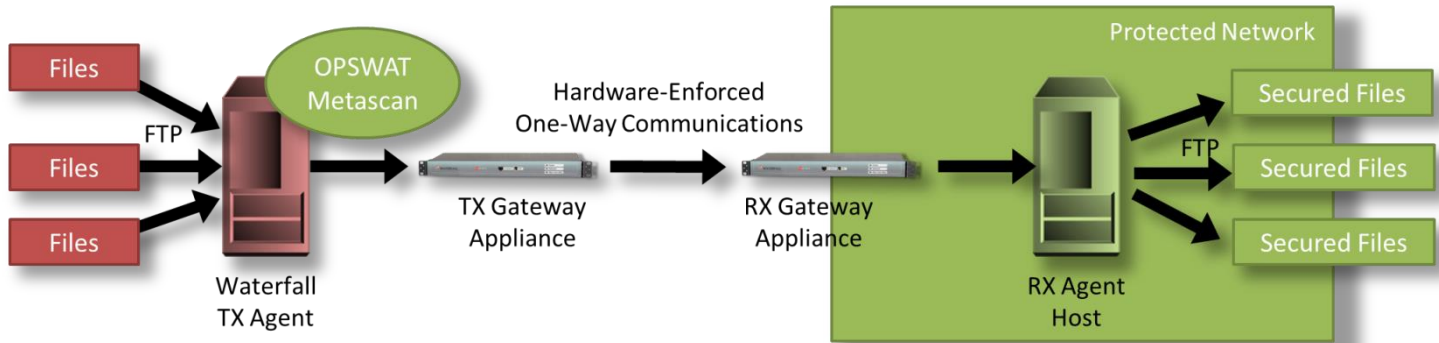
Waterfall and Metascan combined solutions support and enable advanced antivirus protection in critical control system networks. Waterfall's Unidirectional Security Gateway solution supports the timely and secure transfer of antivirus signatures into OPSWAT's Metascan file scanning solution for industrial control systems, typically deployed as part of OPSWAT's Metadefender kiosk solution designed for data flow protection via removable media scanning. In addition, Waterfall's unidirectional file transfer product is integrated with the Metascan scanning engine, enabling Waterfall customers to scan files for malware as those files pass through the Waterfall Unidirectional Security Gateways.

Modern businesses demand antivirus protection in all of their critical networks, including both business-critical networks and industrial safety-critical and reliability-critical networks. The industry-leading OPSWAT Metascan and Metadefender products apply up to 30 unique antivirus scanning engines simultaneously to the protection of critical equipment and networks.

## OPSWAT Metadefender Kiosk

The OPSWAT Metadefender removable-media scanning kiosk provides a method for controlling data flow into critical infrastructure. In addition to user authentication, file type conversions, embedded object removal and other features, Metadefender can connect with a Metascan multi-antivirus engine server to enable the scanning of files contained on removable media for viruses and other malware as part of the data workflow process. The latest Nuclear Regulatory Commission cyber-security regulations and interpretations for nuclear generators demand that virus-scanning kiosks for nuclear generators use multiple antivirus engines, and either be network-isolated, or connected to unidirectionally-protected networks.

Waterfall automates antivirus signature updates for offline Metascan servers by transferring those updates to the Metascan server via hardware-enforced Waterfall Unidirectional Security Gateways. The gateways acquire the Metascan signatures from external networks, cryptographically verify the authenticity of those signatures, and transfer the files into a protected network where the Metascan server is deployed. On the protected network, the Waterfall solution again verifies the authenticity of the signatures, and makes the verified signature updates available to the Metascan server. The combined Waterfall and Metascan/Metadefender solutions ensure that removable media are protected by the secure transfer of the most up-to-date anti-virus signatures available.



### Metascan Integration

The Metascan multiple antivirus engine scanning server ensures that critical systems are protected by up to 30 major antivirus scan engines simultaneously, for unprecedented levels of protection from all types of malware. World-class enterprises demand not only the most advanced anti-virus protections available, these enterprises demand the continuous and un-interrupted flows of data out of operations-critical networks. All of these data flows must be enabled without putting either the source control system networks or the destination corporate networks at risk.

Waterfall's hardware-enforced Unidirectional Security Gateways transfer data from control system networks to corporate networks without any possibility of an attack from the corporate networks or the Internet beyond the corporate networks threatening the safety or reliability of the control system networks. The Waterfall gateways are now Metascan-enabled. For every file that passes through the gateways, the Waterfall software agents trigger a scan of the file using Metascan before transferring the file. The Metascan engine applies up to 30 anti-virus scans simultaneously to the file-in-transit. When the Metascan solution finds a file to be suspect, the file is processed according to the instructions configured in the Waterfall solution. The integrated Waterfall/OPSWAT solution provides sophisticated protections not only for the networks which are the source of business-critical data, but the networks for which these critical data files are ultimately destined as well.

The Waterfall/OPSWAT solution enjoys all of the other benefits and features associated with Waterfall Unidirectional Security Gateways as well, including: high-availability and 1Gbps options, Common Criteria certification, hot-swap gateway hardware, 550,000 MTBF ratings, and simple software installation without need to support embedded processors or computing appliances.

**For further information, please contact us or visit our website: [www.waterfall-security.com](http://www.waterfall-security.com)**

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