GATESCANNER INJECTOR
by Sasa Software

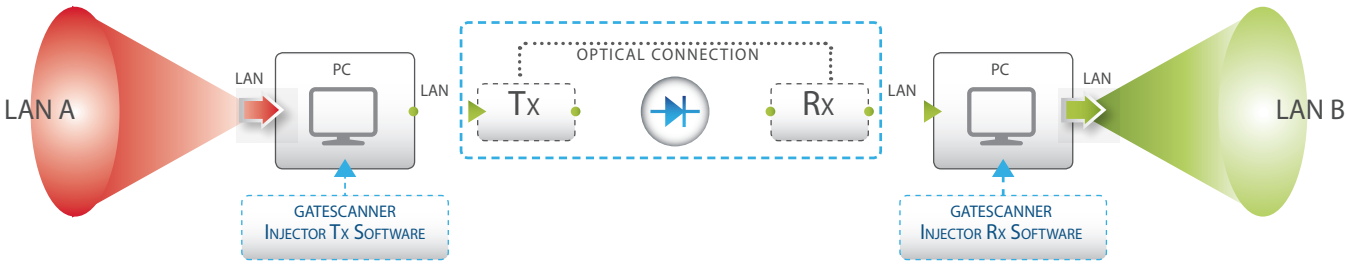
Gartner
COOL VENDOR 2020

GateScanner Injector

Optical air-gapping with chip-based data control

The GateScanner Injector is a unidirectional diode allowing the travel of data in one direction only, preventing data extraction from the destination network, supporting cross-domain network segmentation architecture.

The Injector complements other GateScanner network security products in the delivery of comprehensive network segmentation coupled with CDR file sanitization.



GateScanner Injector topology

The GateScanner Injector solution includes:

Tx - Rx Hardware

A standard 19" rack-mounted device housing an optical diode with chip-based data control at the OSI Layers-1&2.

Transmitter Software

The transmitter application monitors a predifined 'Source' directory. When a new file is detected it is automatically streamed in predefined packet sizes. When transmision is complete the file is saved to a 'Transmitted' directory - or to a 'Failed' directory, as the case may be. The application offers 'Network restrain' and 'Double send' options to minimize packet loss.

Receiver Software

The receiver application grabs the arriving packets from the NIC, forms files and saves them to a predefined 'Target' directory, from where they may further be forwarded automatically. Here too, successful and failed transmissions will be recorded in 'Verified' and 'Failed' folders, respectively.

Scheduler

Both Tx and Rx applications auto-scan their designated 'Source'/'Target' folders, hourly. On installation, users are prompted to provide SMTP mail address and scheduler settings specifying retention time for files in directories, as well as maximum directory size allowed. Email notifications are issued upon deletion of files, and when directories exceed their limits. All notifications are logged.

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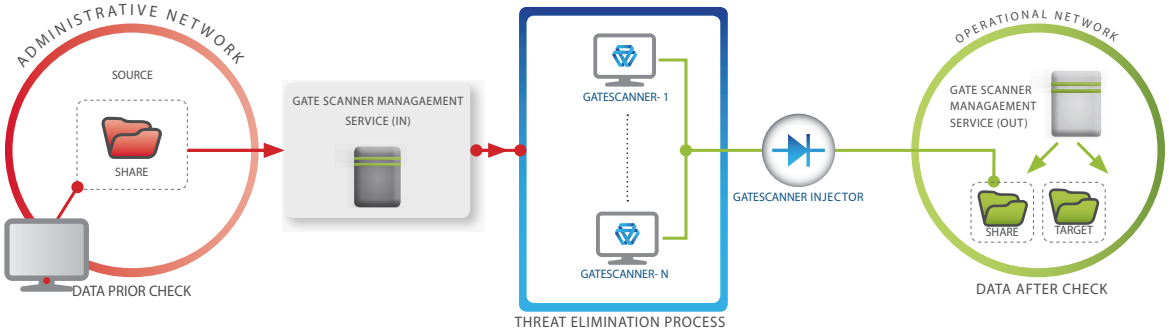

GateScanner CDR and Injector integrated IT to OT secure segmentation scheme

Software Features

- Supports SMB, SMTP, TCP, UDP and Syslog
- RX Client can 'push' transferred data using UNC/SMB to a shared folder in the destination network.
- Un-erasable 'Iron folders' (on both Rx and Tx client apps).
- Parallel file transfer (1 GB) and File Type Filter (1 GB) processing.
- Full history reporting
- 'Debug' mode (full & detailed logs)
- Option to transfer files twice or more times.
- Real-time error and warning notification.
- Time-out for unsuccessful transfers.
- Option: FTP/FTPS/SFTP servers configured separately for Tx and Rx client apps.

Hardware Features

- Hardware (chip) based data flow control
- Zero induced latency
- No CPU and no internal memory

Hardware Specifications*

- Data transfer rates – 1000/100/10 Mbps, auto-negotiation
- Physical ports – 2xRJ-45 LAN ports
- Highly visible LED status indicators

* Specifications subject to change