Cybersplice enables and secures Operational Technology in Transportation Networks

The cities of the future are being designed today, built on millions of sensors, actuators, and traditional OT. In the race to embrace, features and cost are being prioritised over safety and security. Security visionaries are advocating regulation, foreseeing that market forces alone will not address the exposures.

A number of areas within Smart Cities rely significantly on Operational Technology for efficient and effective service delivery. In many cases Operational Technology plays a significant role in the safety and security of human life, especially so in transportation networks.

Splice provides a secure fabric for sensors, actuators, and controllers within connected and converging networks, mitigating existing vulnerabilities, preventing collateral damage from IT threats and raising the bar for safety in these environments.

Splice provides **security visibility** into OT networks and enables **connectivity and convergence** through secure integration inside an encrypted overlay network. Splice capabilities specifically applicable to the Transportation networks include:

Standardised and secure remote access

Facilitate standardised, seamless and secure remote access for all partners, operators and engineers. Remote Access Users connect into the overlay network

Identity shielding

Strengthen fragmented and weak identities across the OT landscape through authentication offloading and multifactor injection.

OT network traffic profiling

Profile OT network traffic at key points with out-of-band mirror mode, or the entire network using in-path mode.

Behavioral monitoring

Leverage the near-deterministic nature of OT traffic to identify attacker behavior and unauthorised changes to the network or nodes.

Outlier detection

Cybersplice uses AI to identify anomalies in device to device communication, and to detect compromised devices and command-and-control back channels.

In-core isolation

Prevent cross talk between OT disciplines across the entire network, at the edge as well as right inside the overlay network core.

Secure access edge

Cybersplice provides a secure access edge across the entire OT environment, mediating cryptokeys for all nodes using Splice cloaks, including limited spec legacy devices.

Role based access control

Build role based access controls into legacy systems without touching the code.

Increased resilience

Scale Splice Supernodes to increase resilience, leveraging underlay redundancy, and building parallel paths across the overlay network.

Untangle

Cybersplice acts as a flight recorder for OT communications, bringing visibility down to the infrastructure level. Visualise and understand OT network traffic, perform threat hunting and forensic analysis going back a full year.

Insecure protocol wrapping

Cybersplice draws OT communications into an encrypted overlay network, shielding unauthenticated and vulnerable ICS protocols from adversaries.

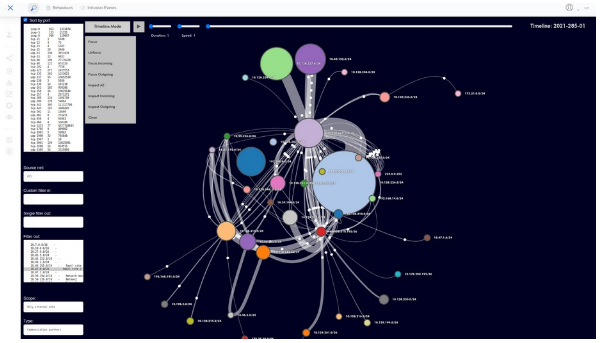
Autopilot

Automatically triage newly detected behaviors for rapid on-boarding or in noisy converged networks.

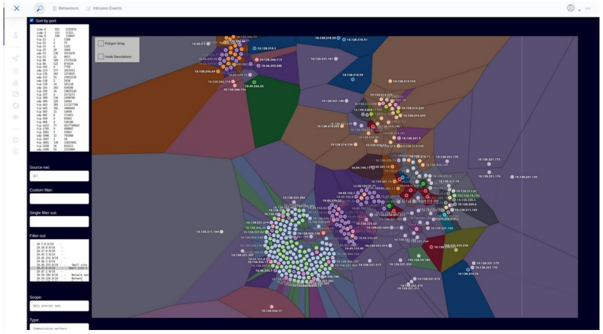
Deep visibility in Operational Technology networks, the good, the bad and the ugly

The screenshots below show some of the Cybersplice advanced visualisations and behavioural tracking:

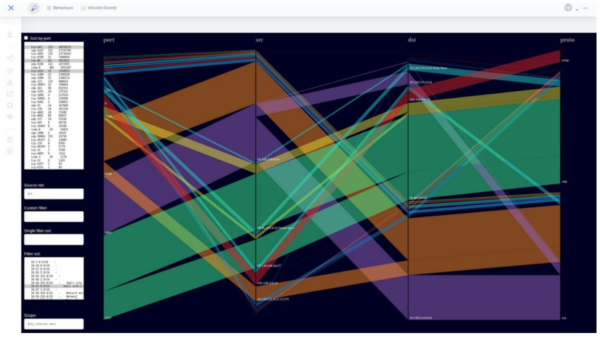
Cybersplice timeline replay of OT comms



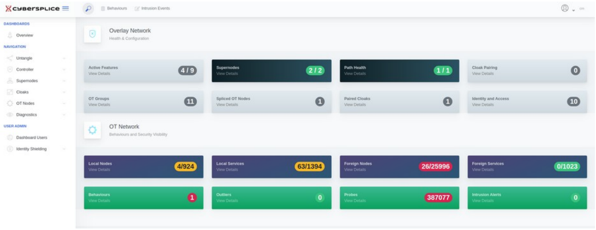
Clustering of communication partners



Who's talking to who: flow summary



Cybersplice dashboard birds eye view



Overlay Network
Health & Configuration

Active Features 4 / 9
View Details

Supernodes 2 / 2
View Details

Path Health 1 / 1
View Details

Cloak Pairing 0
View Details

OT Groups 11
View Details

Spliced OT Nodes 1
View Details

Paired Cloaks 1
View Details

Identity and Access 10
View Details

OT Network
Behaviours and Security Visibility

Local Nodes 4/924
View Details

Local Services 63/1394
View Details

Foreign Nodes 26/25996
View Details

Foreign Services 0/1023
View Details

Behaviours 1
View Details

Outliers 0
View Details

Probes 387077
View Details

Intrusion Alerts 0
View Details

https://cybersplice.com

CYBERSPLICE