Cybersplice enables and secures Biomedical and other Operational Technology in Healthcare environments

In a typical Healthcare setting, there is a requirement to accommodate Operational Technology (OT) equipment across **various disciplines**, such as imaging and biomedical (Radiology, PACS, Cathlabs, Bedside monitors, Glucometers, Dialysis Control units, Infusion pumps, Ventilators, Autoclaves, Hemocube devices, etc), facilities management (surveillance, access control, fire detection and suppression, environmental management), specialist engineering (theater air conditioning, UPS and backup power, oxygen supply), operational management (transport tubing, nurse call systems, patient entertainment (IPTV), guest internet access and parking solutions). This makes enabling and securing Operational Technology in Healthcare environments particularly challenging.

Management of this vast OT landscape is further complicated by the sheer **number of vendors** involved, as well as the requirement for remote support for specialist devices. Furthermore, the benefit on patient outcome, as well as efficiencies and reduced cost is also undeniable where these systems are connected to Patient records, ERP and Big Data Analytics capabilities.

Splice enables **connectivity and convergence** through secure integration across disciplines inside an encrypted overlay network. Splice capabilities specifically designed for the Healthcare environment 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

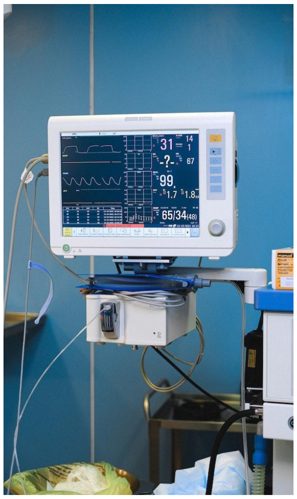
Leverage the near-deterministic nature of OT traffic to identify attacker behavior and unauthorised changes to the network or nodes.

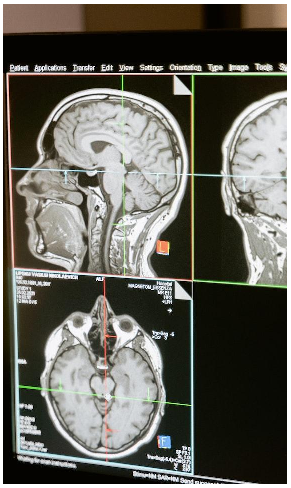
Outlier detection

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.

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.

Role based access control

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

Insecure protocol wrapping

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

Increased resilience

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

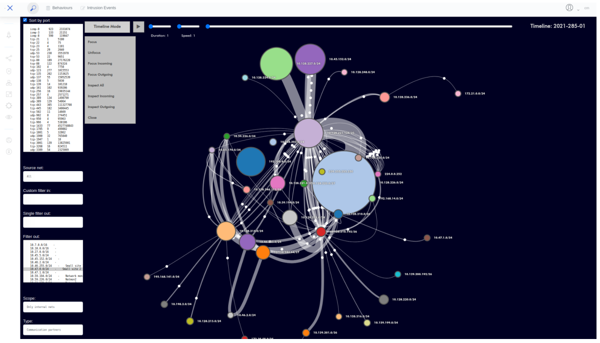
Autopilot

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

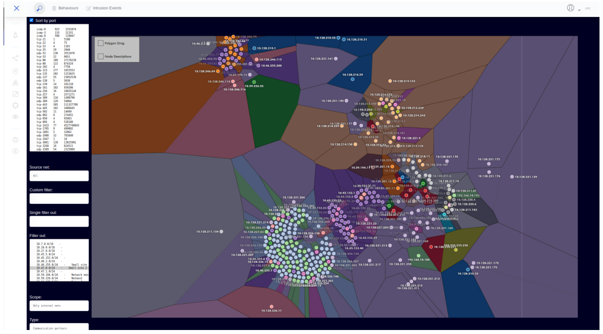
Deep visibility in Operational Technology networks, the good, the bad and the ugly

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

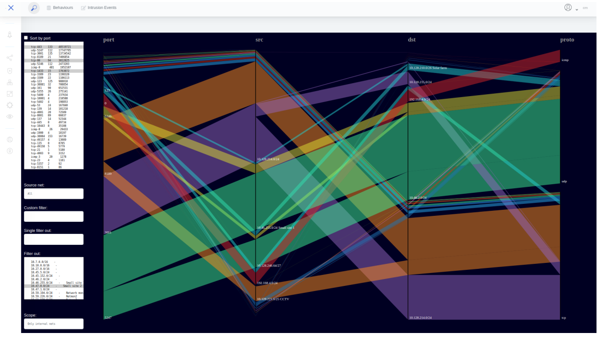
Cybersplice timeline replay of OT comms



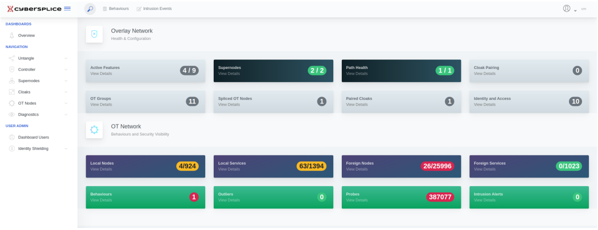
Clustering of communication partners



Who’s talking to who: flow summary



Cybersplice dashboard birds eye view



Overlay Network
Health & Configuration

Active Features 4 / 9
Supernodes 2 / 2
Path Health 1 / 1
Cloak Pairing 0
OT Groups 11
Spliced OT Nodes 1
Paired Cloaks 1
Identity and Access 10

OT Network
Behaviours and Security Visibility

Local Nodes 4/924
Local Services 63/1394
Foreign Nodes 26/25996
Foreign Services 0/1023
Behaviours 1
Outliers 0
Probes 387077
Intrusion Alerts 0

https://cybersplice.com

cybersplice