


Protecting Critical Infrastructure: Oil & Gas



Security gains using Goldilock:

- **Selective Isolation:** Being able to very selectively, isolate parts of any facility on-demand in the event of a cyber event taking place. A remote, more graceful “pulling of cables”.
- **On Demand:** Being able to very selectively connect any parts or ports of any facility on demand to be able to control / administer service as required, just in time.
- **Unmanned / Scheduled.** Permit scheduled access to remote services / unmanned facilities for an agreed period of time, beyond which connections are disconnected (or re-connected.)
- **Scheduled Sync:** Schedule the connecting or disconnecting of services for data sync or updates or out-of-hours protection
- **Scheduling.** Set schedule for the timely connection or disconnection of PICs or FICs to protect controls against unauthorised change or access.
- **Instant:** Connect / disconnect anything instantly for just-in-time access.



Much like other industrial systems, oil & gas infrastructure has relied upon proprietary protocols, software and hardware that are, to a large extent, both manually managed and monitored by humans and also largely unconnected to the outside world. Therefore, they were by default a fairly inaccessible target for hackers.

Modern demands for ‘always connected’ and automated technology has made convenience a priority, leading to largely unmanned, yet connected and, in some cases legacy, control systems. This has opened the sector to cyber-attacks never experienced before. This proliferation of new IP-based interfaces has directly resulted in oil & gas infrastructure facing a Swiss cheese of attack vectors. One only need consider the immense geographical areas covered, be they remote or within urban conglomerations, to grasp the magnitude and complexity of the problem.

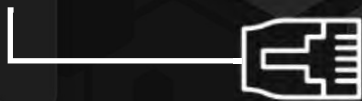
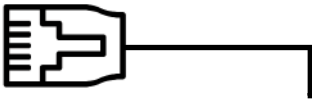
Given the convenience and gains that connectivity brings, especially to an economically, technologically and geographically dispersed organisation, the oil and gas industry is faced with protecting itself with an ideal balance of bulletproof security YET be sufficiently convenient in terms of authorised access and control.



Goldilock Drawbridge is a **physical cybersecurity solution** that saves manpower, time, money, and nerves. It allows users to issue an authenticated remote non-IP command to instantly physically isolate and ring-fence control systems within seconds, from, and to, anywhere on earth. The asset is then completely safe and un-hackable because it is physically disconnected from the network.

Our “Non-IP” – or non-internet enabled command, is significant, because the method of control is completely taken away from the potential attack vector – the internet itself.

Furthermore, Goldilock Drawbridge is triggered by port, so disconnection and isolation can be very **granular** – right down to the network segment or endpoint.



Network Circuit-Breaker

Control any type of network in an emergency. React dynamically to network stresses and overloading.

Control Untrusted Third-Party Networks

Avoid 'always-on' access to the core networks and mitigate risks of indirect cyber-attacks. Time limit access by third party suppliers that are required to carry out work.

DevOps Segregation

Control the business risk of having customer facing systems disrupted. Create a secure procedure between development, testing and production deployment.

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OUR MISSION

Goldilock provides a simple to deploy non-IP solution for remotely connecting & disconnecting networks & data – on-premise and as cloud-delivered SaaS, all at affordable cost.



Established in 2018, Goldilock delivers powerful yet simple solutions to cyber security threats.

Organizations can take back control of their cyber defense using our human-machine teaming.



Layer 1 switching technology fused with Goldilock CORE engine, on-board industrial CPU. A unique appliance – install anywhere on network in minutes, without complex forklift upgrades.

Disconnected | Invisible | Convenient



Goldilock