

At a Glance

Achieving Safe and Secure Access for the Oil & Gas Industry

Cyolo PRO for Oil & Gas

The oil and gas (O&G) sector provides vital resources that enable countless other industries to operate and allow society as we know it to function. Unfortunately, an increasing number of adversaries also recognize the value of the O&G sector. These threat actors are accelerating their attacks on industrial control systems (ICS) and other operational technology (OT) in order to disrupt operations, commit espionage, and generally wreak havoc.

At the same time, remote work, automation, progress toward Industry 4.0, and rising connectivity between operational technology (OT) and information technology (IT) are creating new opportunities as well as new vulnerabilities for O&G companies.

Remote connectivity, as one example, reduces costs, improves operational agility, and lowers safety risks by enabling maintenance on offshore drilling rigs or distant oil fields to be conducted without traveling to these far-off locations. However, remote access creates its own security and safety risks.

If proper access, connectivity, and supervisory controls are not in place, a security incident could potentially occur at any point across the three major stages of O&G operations: upstream, midstream, or downstream. Attacks could be the result of espionage, cyber-terrorism, ransomware gangs seeking a quick, high-value payout, or critical cybersecurity vulnerabilities affecting the aging infrastructure and legacy systems that characterize OT environments.

And the stakes simply could not be higher when it comes to protecting O&G facilities and the critical infrastructure within them. A cyberattack against these targets could cause immense damage, including financial loss and economic disruption, threats to human safety and the environment, and even the destabilization of nation states.

Cyolo PRO (Privileged Remote Operations) is an advanced Secure Remote Access solution that empowers O&G organizations to safely connect remote workers, third-party vendors, and privileged employees to even the most sensitive assets and environments.

72%
of oil & gas
organizations
are currently
pursuing some
level of IT/OT
convergence.

Ponemon Institute, 2024



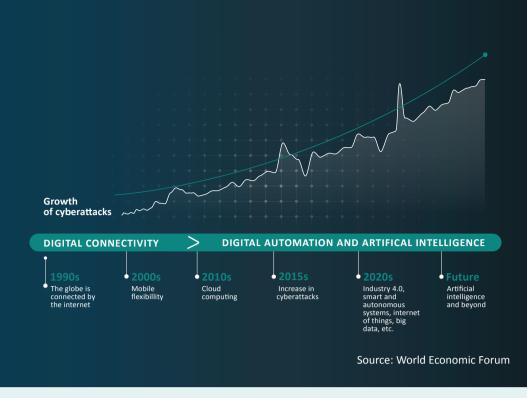




Oil & Gas Security Risks

The O&G industry is deeply dependent on systems that are becoming more digitally connected. Connectivity lowers costs, increases efficiency, and decarbonizes the sector, but it also introduces new risks.

Robust cybersecurity will enable O&G companies to fully enjoy the benefits of digital transformation and IT/OT convergence. But there is work to do, as 69% of O&G professionals worry their organization is more vulnerable to cyberattacks now than in the past.



Oil & Gas Cybersecurity: Statistics and Risks

21% of customer engagements in the O&G sector had findings of poor remote access security.

47% of customer engagements in the O&G sector had inadequate asset visibility and ICS network monitoring.

of customer engagements in the O&G sector identified inadequate or lacking OT-specific incident response plans in 2023.

26% of customer engagements in O&G sector had findings related to defensible architecture in 2023.

Source: Dragos

Case Study: How a Leading Energy Provider Ensures Secure Access to OT and SCADA Systems

The Need: Remotely connect global partners and third-party suppliers to critical systems



Top Challenges

- Required a single solution to enable secure access for global support teams, third-party suppliers, and customers
- Needed to meet strict internal and external security regulations
- Sought to reduce friction and improve user experience for frustrated employees and support teams



Business Outcomes

- Fastest deployment in company history
- Fast, secure, and seamless access for all users to IT, OT, and SCADA systems
- Months of work reduced to hours
- Hundreds of thosands of dollars saved, plus significantly reduced travel costs
- Improved productivity and user satisfaction

"No solution gives me as much conrol and security as Cyolo. It's everything I need in one solution."

Shlomo Kamilyan CIO, Rapac Energy

Multiple Needs, 3 Security Layers, 1 Unified Solution







THE OUTCOMES



Advanced Security



Better User Experience



Oil Rig and Refinery Safety



Reduction of Compliance Headaches



Increased Production Reduced Cost & Complexity



Enterprise-ready Deployment

Managing Access and Risk in Oil and Gas Companies

51% Failure to prioritize OT security. Just 51% of O&G companies identify securing access to OT environments as a high priority.

74% No accurate asset inventory. **74**% of O&G companies do not maintain an accurate, up-to-date inventory of the industrial assets in their OT environments.

47% Underprotected. 47% of O&G companies lack confidence that they're effectively protecting their OT environments.

10% Insecure OEM Vendor and Third-Party Access. 60% of O&G companies grant OT systems access to more than 50 different vendors, and 25% give such access to more than 100 vendors.

Source: Ponemon Institute, 2024

Key Remote Privileged Access Use Cases

Facilitate Third-Party Remote Access Provide OEM Access
For Fast, Secure Support

Manage Critical and Risky Access

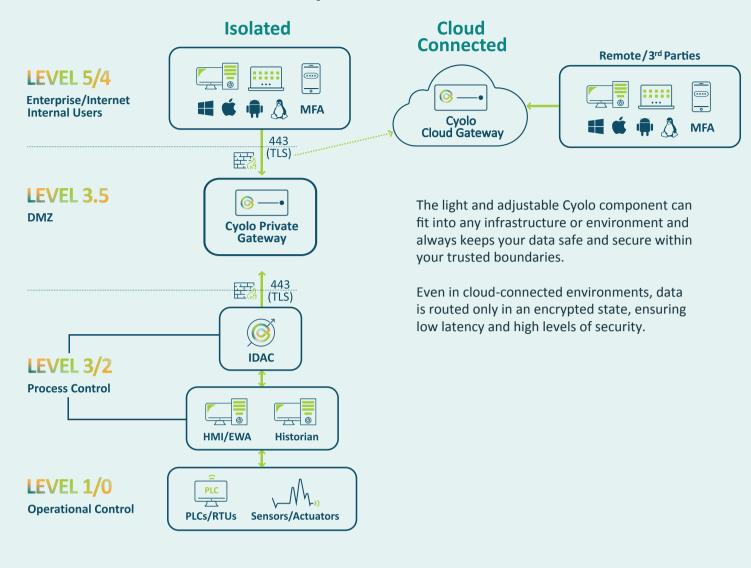
Achieve Regulatory Compliance

Safely connect third parties to your OT environments for enhanced productivity. Ensure rapid, secure, and safe support and maintenance for your factory floor and OT environments.

Secure all access points to your mission-critical assets, whether on-prem or remote.

Implement segmentation, supervision and other requirements of industry and regional compliance mandates.

Cyolo PRO's Unique Architecture Enables a Flexible Solution to Fit Any Environment



Cyolo PRO Benefits



Secure

- Keep your data inside your trusted boundaries
- Granular identity-based controls & supervision
- Full activity/audit trails



Flexible

- Deploy on-prem, on-cloud
 hybrid—simultaneously
- Extend identity authentication and security to legacy applications
- Centralized governance & site-based administration



Fast and Easy

- Agentless deployment
- Consolidated access controls with modularity
- Low-latency/High-availability
- Intelligent supervision eases operational burden

Cyolo provides secure remote privileged access for cyber-physical systems (CPS). Our solution enables industrial enterprises to simply connect employees and third-party vendors to critical assets. Cyolo offers stronger security and more control than traditional secure remote access (SRA) and deploys without causing disruptions or requiring change management. Cyolo delivers improved security, productivity, and operational agility – without compromise.

www.cyolo.io

