HCLTech Cisco

IT-OT converged secure network transformation



Business drivers of IT-OT convergence

IT-OT Convergence framework - propositioned around the synergy of Cisco's networking, security and automation portfolio combined with the managed services expertise of HCLTech, offers unique business accelerators to simplify the digital transformation journey across industries.

Make Money

Reduce defects

Increase revenue by enhancing overall product quality and reducing defects



Faster time to market

Reduced new product development time cycle



Maximize OEE (Overall Equipment Effectiveness)

Improve yield by improvement in equipment availability and reduction in downtime

Save Money

Workforce productivity

Enhances worker effectiveness through real-time situational alerts



Lower inventory

Minimizes cost by enacting an efficient inventory system



Reduce energy

Minimizes cost through energy monitoring and optimal usage

Stay out of trouble



Mitigate security threats and risks

Protect operations against cyber-attacks; mitigate the risk of data loss; mitigate the risk of counterfeit parts in the supply chain

Key challenges necessitating **IT-OT** convergence



Complexity in orchestrating processes and actions across systems

Real-time data

intelligence



Connectivity bottlenecks (many protocols)/siloed systems



Predictive capacity



Lack of visibility/ blind spots

Data distributed

across multiple

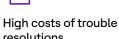
domains and

systems

IT and OT capabilities are increasingly becoming inextricably linked in delivering key business KPIs across industries. More and more, business outcomes rely on the ability of operational systems seamlessly converging with higher-level IT business management applications to bring forth tangible value propositions. Hence, an orchestrated IT-OT approach is becoming essential for business and mission success, and infrastructure resiliency. In a digital world, IT-OT convergence and modernization efforts must be aligned and grounded around an automated architecture created around IT-OT network convergence and security convergence to achieve the target business transformational goals.

Vendor lock-in (need for integration

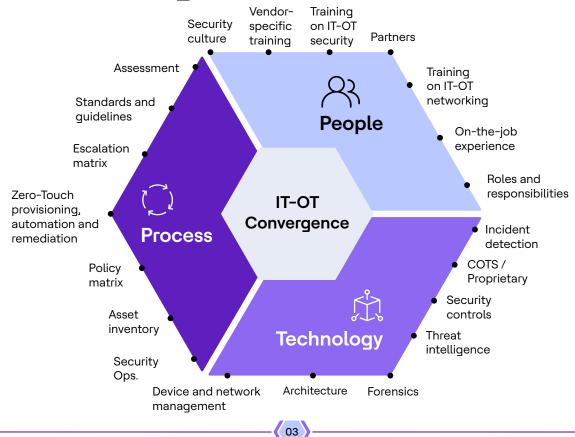
development)



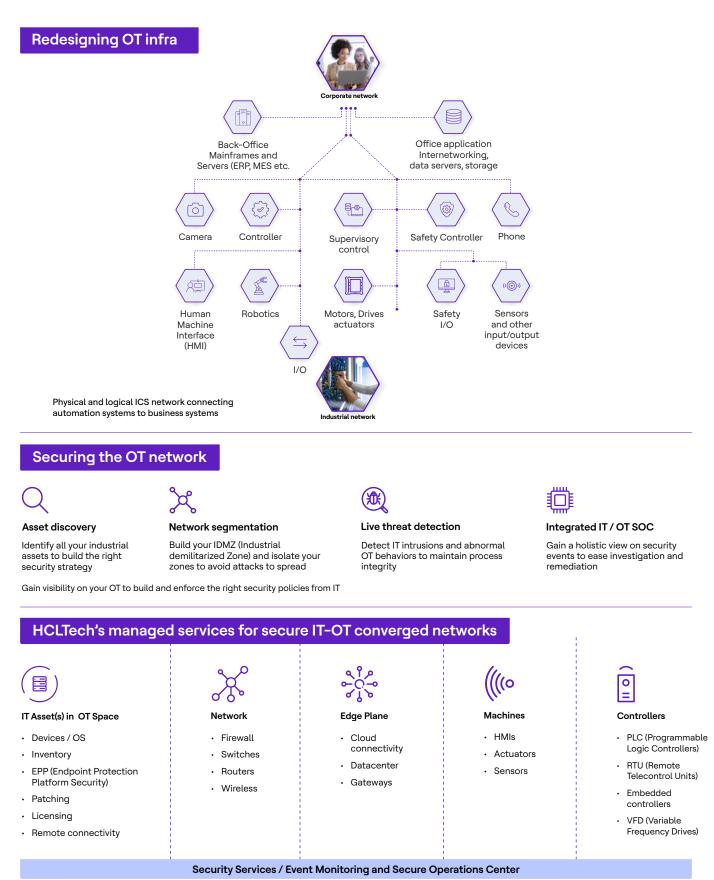
resolutions

Vulnerability to cyber threats

HCLTech's proposition for IT-OT convergence



Secure IT-OT network convergence powered by HCLTech's managed services



The aggregate of IT/OT network convergence, computing and cybersecurity components that deliver clear business outcomes and a management framework

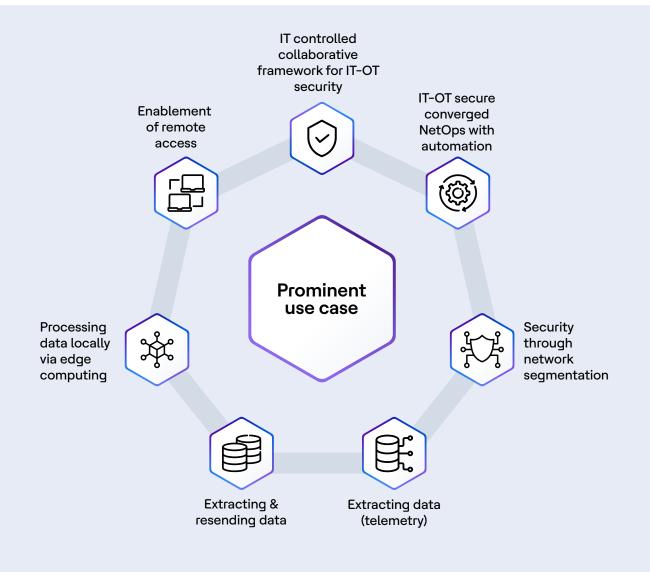
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Business outcomes of HCLTech-Cisco IT-OT convergence proposition

Target Objective	Solution Requirement	Cisco	HCLTech via 3 rd Party			SDA (Cisco DNAC+ISE)
Maximize OEE	Connected factory network Connected machines Plant floor virtualization Analytics	Cisco IT & OT network & security product portfolio and automation tools along with a comprehensive set of tested CVDs (Cisco Validated Design) for industry verticals - Manufacturing, Extended Enterprise, Utilities & Renewables, Smart & Safe Cities,Roadways & Intersections, Public Transportation, Ports & Terminals, Mining and Oil & Gas - provides a vertical-based deployment template.	IoT Platform, MES, PLM, CAD/CAM, SIEM / CMDB, Log Monitoring and Management, Patching Management System	HCLTech's IPs	Plantwide Network for Secure Seamless Operation & Business KPI Monitoring	HCLTech's NetBot
Reduce Defects	Factory wireless with RTLS				Multiple Plants Connectivity Infra through SDWAN	
Faster Time to Market	Factory wireless Analytics					
Lower Inventory	Factory wireless Analytics					Managed SD-WAN Services HCLTech TIS 2.0
Reduce Energy	Sustainability Management Platform					
	IoT intelligent platform Connected machines Factory network Energy Usage Optimization				Hybrid and Multi-Cloud Integration and K8s Service Automation	Multi-Cloud Integration and Observability DRYICE At & Intelligent Automation
Workforce Productivity	IoT intelligent platform Connected machines Factory network					Cisco ThousandEyes
	Platform on Real - Time Insights				Apps/ Platforms: Insights, Infra and Data Ingestion Management + Business Performance KPI	HCLTech's IoTWoRKS Platforms Real-Time
Reduce Risk	Factory (OT) security Integrated IT-OT Security SIEM and Log mgmt.					Manufacturing Insights (RMI) Net-Zero Intelligent Operations (NIO)

Key business outcomes

Decrease in unplanned downtime	47.8%
Decrease in the defect rate	48.9%
Decrease in new product introduction cycle time	23.1%
Increase in inventory turns	34.8%
Decrease in annual energy costs	17.5%
Increase in original equipment effectiveness	16.2%



Why HCLTech?



HCLTech | Supercharging Progress™

HCLTech is a global technology company, home to 219,000+ people across 54 countries, delivering industry-leading capabilities centered around digital, engineering and cloud, powered by a broad portfolio of technology services and products. We work with clients across all major verticals, providing industry solutions for Financial Services, Manufacturing, Life Sciences and Healthcare, Technology and Services, Telecom and Media, Retail and CPG, and Public Services. Consolidated revenues as of 12 months ending September 2022 totaled \$12.1 billion. To learn how we can supercharge progress for you, visit hcltech.com.

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