

NEXT-GEN CENTRAL OFFICES POWERED BY DIGITAL TWIN

THE CHALLENGE

Legacy Central Offices (COs) are becoming costly—draining resources, consuming excessive energy, and making network management more complex. As Communication Service Providers (CSPs) push for greater agility and digital transformation, upgrading infrastructure, retiring outdated equipment, and optimizing operations isn't just a priority—it's a necessity. Key challenges include:

Soaring Energy Costs

Outdated CO infrastructure consumes excessive power with limited ability to optimize energy use, driving up costs and environmental impact.

Compliance Gaps

Aging systems often fall short of modern security, regulatory, and sustainability standards, creating operational and reputational risk.

Space Constraints

Legacy DSL equipment occupies valuable rack space that could be reallocated to modern IP or fiber devices.

Copper Reclamation Challenge

Aging copper lines sit idle, wasting energy and space. Without timely decommissioning, they block fiber rollouts and delay recovery of valuable materials and costs.

WHAT WE DO

Cyient's solution blends intelligent automation, deep telecom expertise, and digital twin technology into a cohesive platform designed to streamline CO audit, decommissioning, and network transformation. It's not just modernization—it's strategic evolution.

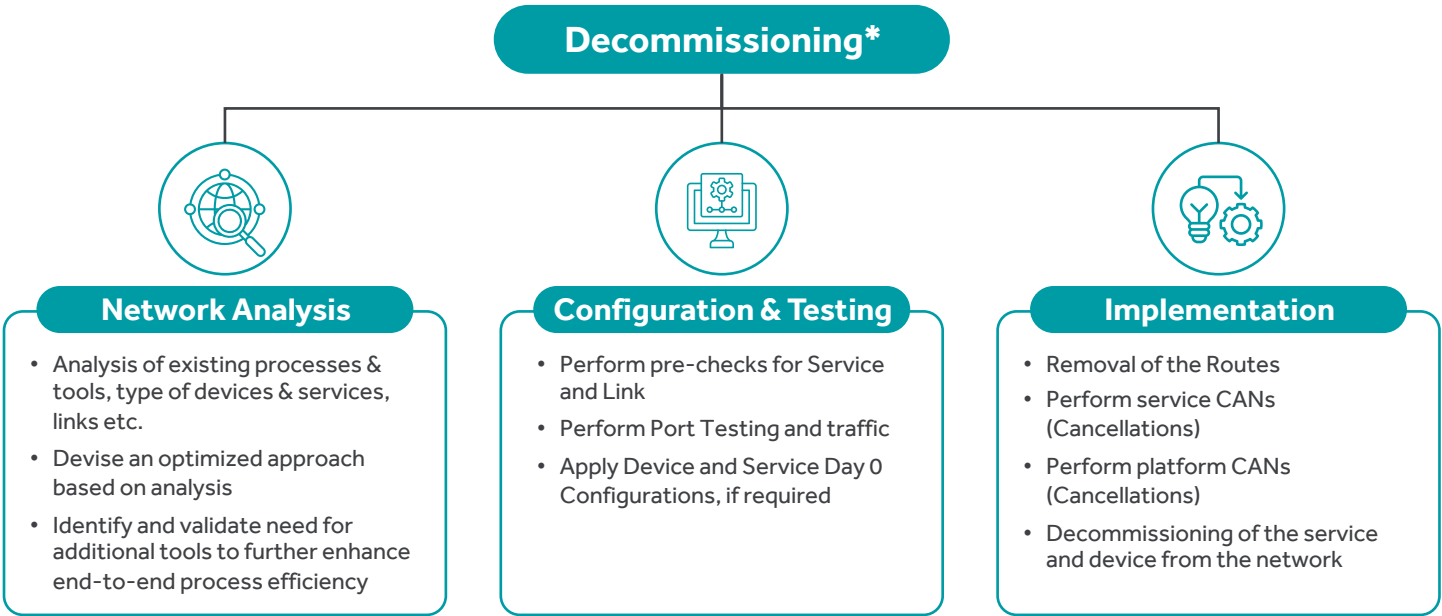


Illustration 1: Typical activities in a decommissioning process

*logical decommissioning

HOW IT WORKS

Here is how Digital Twin Accelerates Network Optimization

- 1 Smarter Planning and Simulation**
Simulate network changes—such as decommissions, equipment upgrades, or rerouting—in a virtual environment to improve planning accuracy and minimize risk.
- 2 Advanced Asset Management**
Maintain a complete, traceable digital history of network assets, including design specs, maintenance logs, and environmental data.
- 3 Real-Time Environmental Monitoring**
Leverage IoT and sensor data to monitor network conditions live, enabling proactive responses to issues before they become outages.
- 4 Data-Driven Operations**
Centralized data and analytics streamline planning, reduce overhead, and increase transformation accuracy.
- 5 Up to 40% Faster Execution**
Reduces time-to-market for network transformations.
- 6 Up to 95% First-Time-Right Execution**
Minimizes costly rework and manual errors.
- 7 Significant OpEx Savings**
Lowers energy consumption, reduces space requirements, and optimizes asset utilization.
- 8 Sustainability at Scale**
Optimizes energy and space use to help CSPs meet green mandates and shrink environmental impact.

WHY US

End-to-End Lifecycle Expertise



We ensure a seamless transition to a future-ready digital infrastructure from network design to decommissioning.

Proven Telecom Engineering Expertise



With 30+ years in wireline networks, our deep domain expertise drives consistent, high-quality outcomes.

Data-Centric Approach



We centralize, clean, and integrate data across systems—enabling accurate, insight-driven decisions at every stage.

Sustainability by Design



Energy efficiency and environmental impact are built into every solution we deliver.

Integrated Platform Execution



We unify tools like Virtual Asset Management Solution, GIS, Inventory, Gen AI, and RPA to streamline transformation across your ecosystem.

INDUSTRY IMPACT

Real-World Impact: ADSL to Broadband Migration for a Leading Australian Telco

Challenge: Manual decommissioning of legacy equipment post-migration.

Solution: Cyient deployed **RPA using UiPath** to streamline the transition and validation process.

Results:

- **40% Faster Decommissioning:** accelerating migration timelines.
- **3 MW Energy Savings (26,300 MWh):** optimizing power efficiency.
- **5U Space Savings per Rack** – freeing up exchange floor capacity.
- **Lower maintenance and operational costs**, which improve network sustainability.

Upgrade your network with AI-driven automation and Digital Twin intelligence. Let's talk about making it smarter, faster, and more efficient. Get in touch today: <https://www.cyient.com/communication>

Cyient (Estd: 1991, NSE: CYIENT) delivers intelligent engineering solutions across products, plants, and networks for over 300 global customers, including 30% of the top 100 global innovators. As a company, Cyient is committed to designing a culturally inclusive, socially responsible, and environmentally sustainable tomorrow together with our stakeholders.

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