

Optimal solution for integrated network operations management



Companies need to ...

Infrastructure network operators, including telecoms and utilities, share common concerns.

Improve the process of optimal network design

- Multiple tools, including CAD, are being used to register and map the equipment.
- Design inaccuracy is leading to a mismatch with the field requirements during construction.

Manage the network in a cost-effective manner

- Investment costs are being duplicated due to poor management of numerous equipment.

Expedite response in the event of a network failure

- It takes a long time to identify the issue point when a failure occurs.
- Delayed failure impact identification degrades service quality.

Visualizing equipment data

22.6% of maintenance managers in gas and oil industry responded that **equipment visibility** is the greatest challenge.

Optimizing N/W operation work

80% of global telcos aim to automate **over 40% of N/W operational tasks** by 2025

Key Feature

SPACE-N enhances network management through integrated data and GIS visualization.

Optimal solution for equipment management:  **SPACE-N**



Operating status monitoring

Customizable dashboard that allows for a quick overview of equipment status and key indicators



Configuration data integration

E2E connectivity for integrated management of the entire configuration of the equipment



Equipment asset management

Inventory DB that supports transparent management of usage status of equipment assets

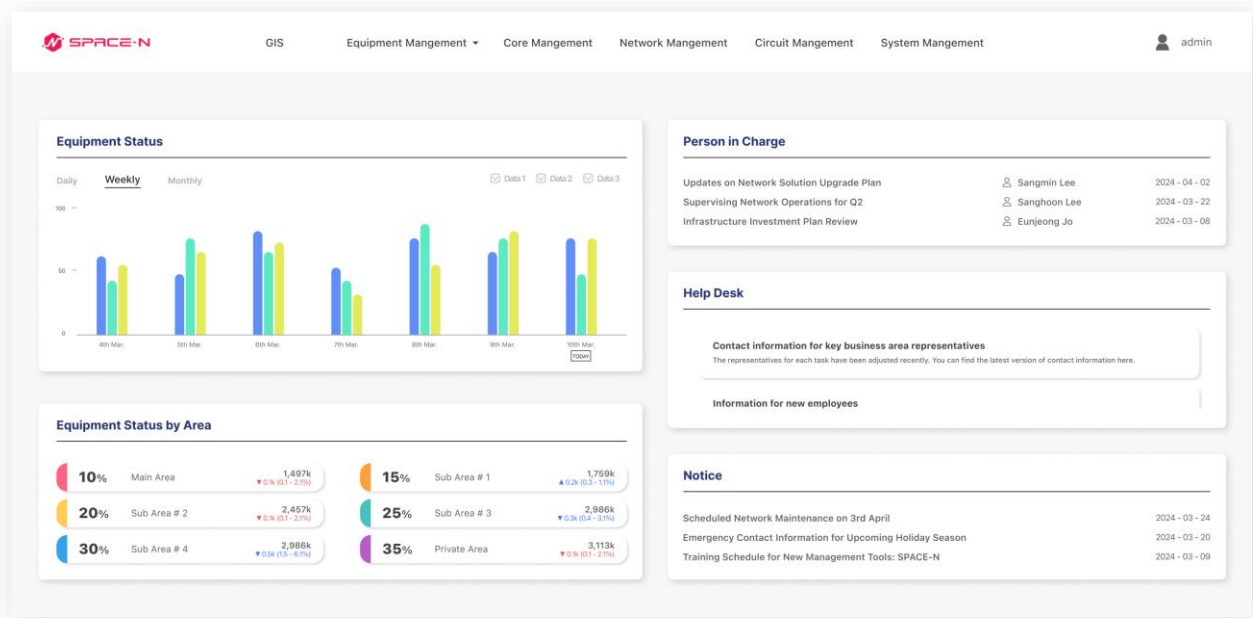


Field aligned GIS-based design

A tool that enables the easy design of optimal routes on web-GIS, aligning with field conditions

Operating status monitoring

Equipment status can be monitored in real-time through a visualized dashboard.



Real-time operation monitoring

- Monitor equipment status in real-time to respond immediately to any failure.
- Identify operational trends by analyzing data at regular intervals.

Key indicator visualization

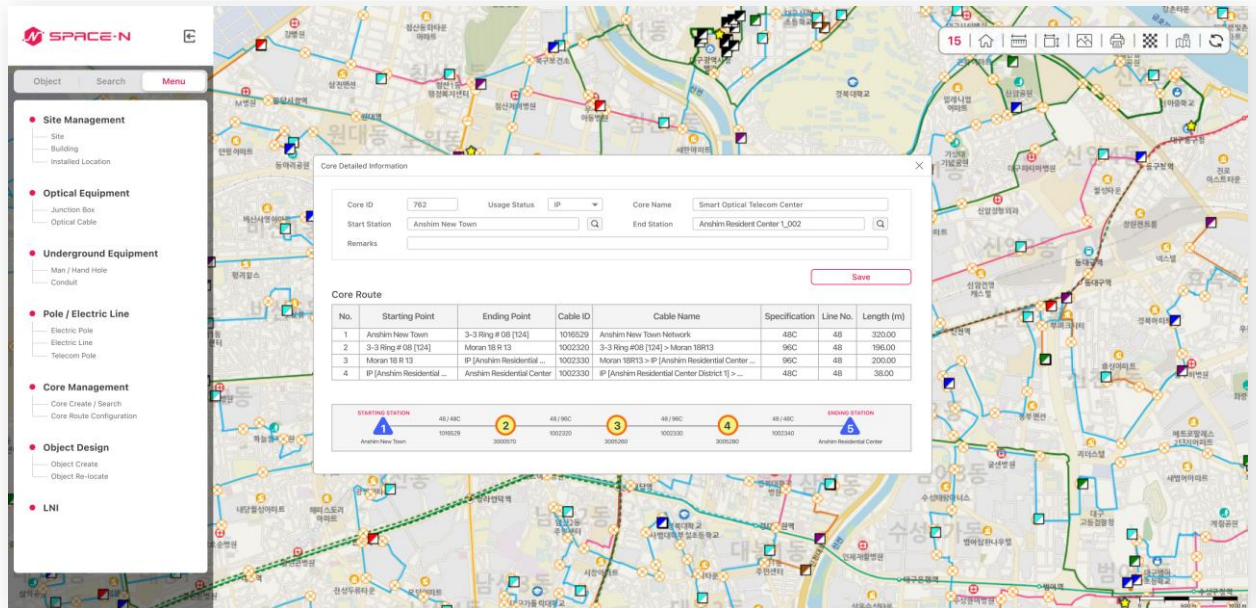
- Understand complex data intuitively through a visualized dashboard.

Customizable dashboard

- Personalize dashboard to meet the specific needs of each industry and task.

Configuration data integration

Integrated equipment data enhances management convenience and issue traceability.



E2E integration of equipment information

- Integrate data of all components of equipment to prevent data fragmentation.
- Simplify management by unifying various equipment data into one platform.

Hierarchical management of equipment configuration

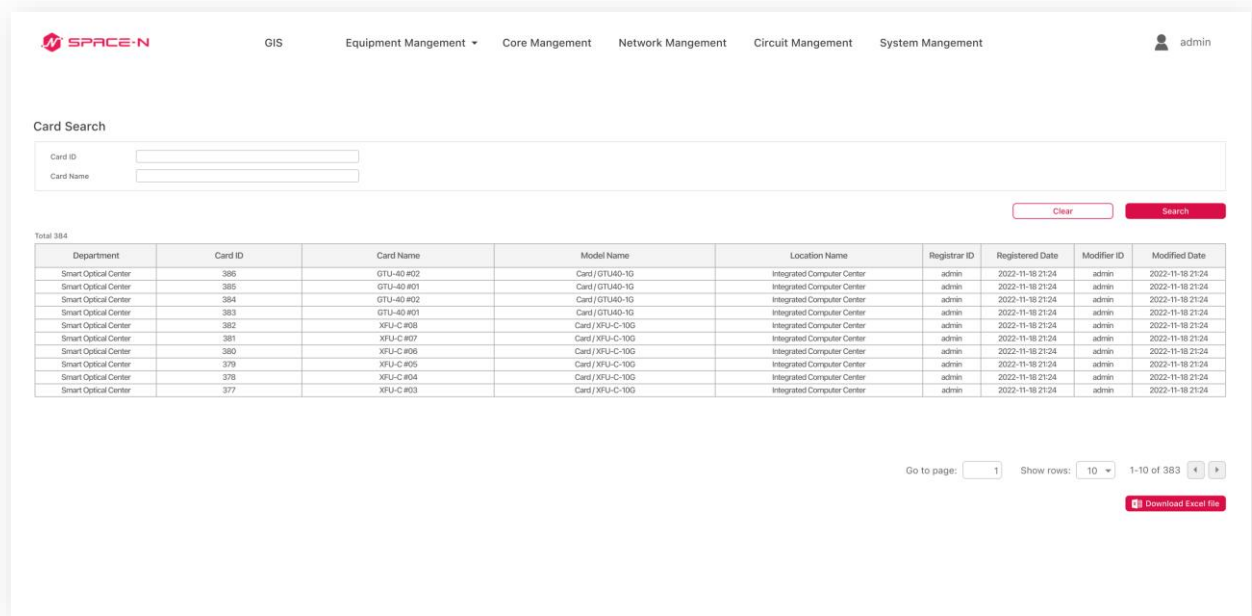
- Manage multiple types of configuration (e.g., separation of logical-physical layers).

Identification of information for failure recovery

- Identify point of failure and impact range in real-time.

Equipment asset management

Usage status of equipment assets can be managed transparently in one solution.



Asset information management

- Manage the specifications and usage status of all equipment in one place.
- Support decision-making and simplify compliance work based on accurate records.

Asset lifecycle management

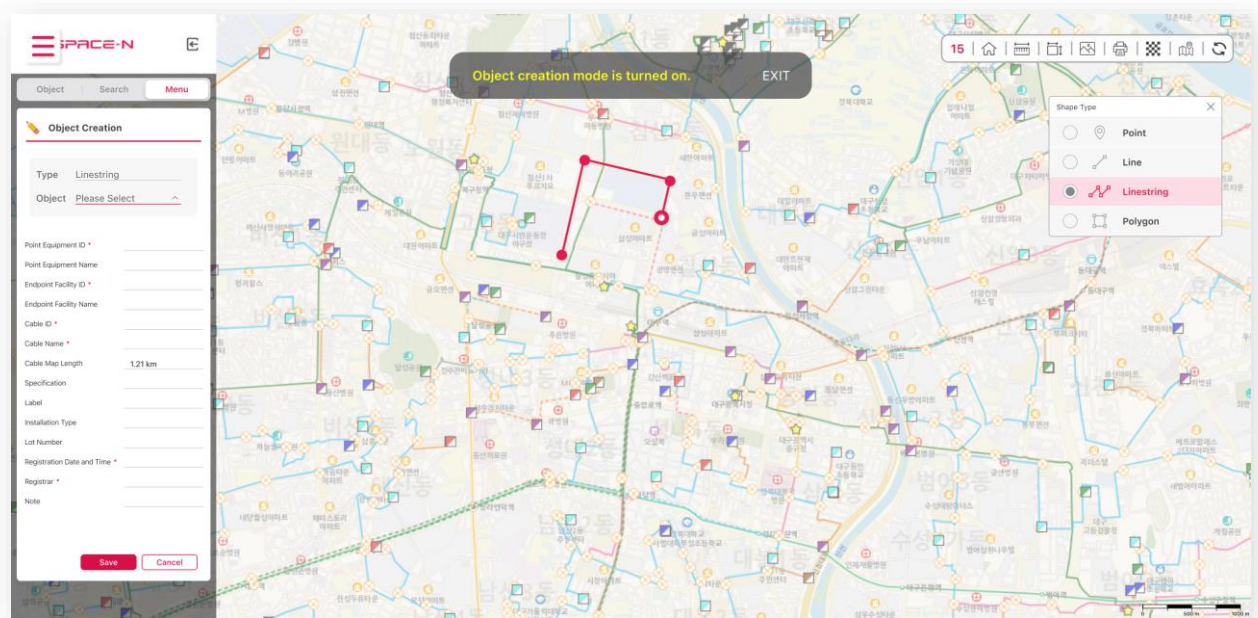
- Manage the lifecycle of equipment assets from registration – operation to disposal.
- Integrate with ERP for transparent asset operation and prevent redundant investment.

Visualization of equipment location and status

- Understand the operation status of equipment on maps with visualized information.

Field aligned GIS-based design

Equipment location and connection can be designed on maps for on-site resource planning.



Optimal design based on maps

- Easily create and modify objects on maps.
- Automatically generate the optimal route by entering the start and end points.

Resolution of discrepancies between field work and design

- Automatically calculate the required length of cable or pipe from map point distances.

Flexible management tools adjustable to the industry

- Customize object and layer structures according to the needs of industry and tasks.

Core Value

Equipment management task can be transformed through the SPACE-N solution.



Failure Responsiveness

Minimize downtime by identifying the cause and impact in real-time



E2E Integration

Manage network inventory data of logical and physical areas in a single tool



Investment Efficiency

Reduce operational costs by optimal network design and resource management

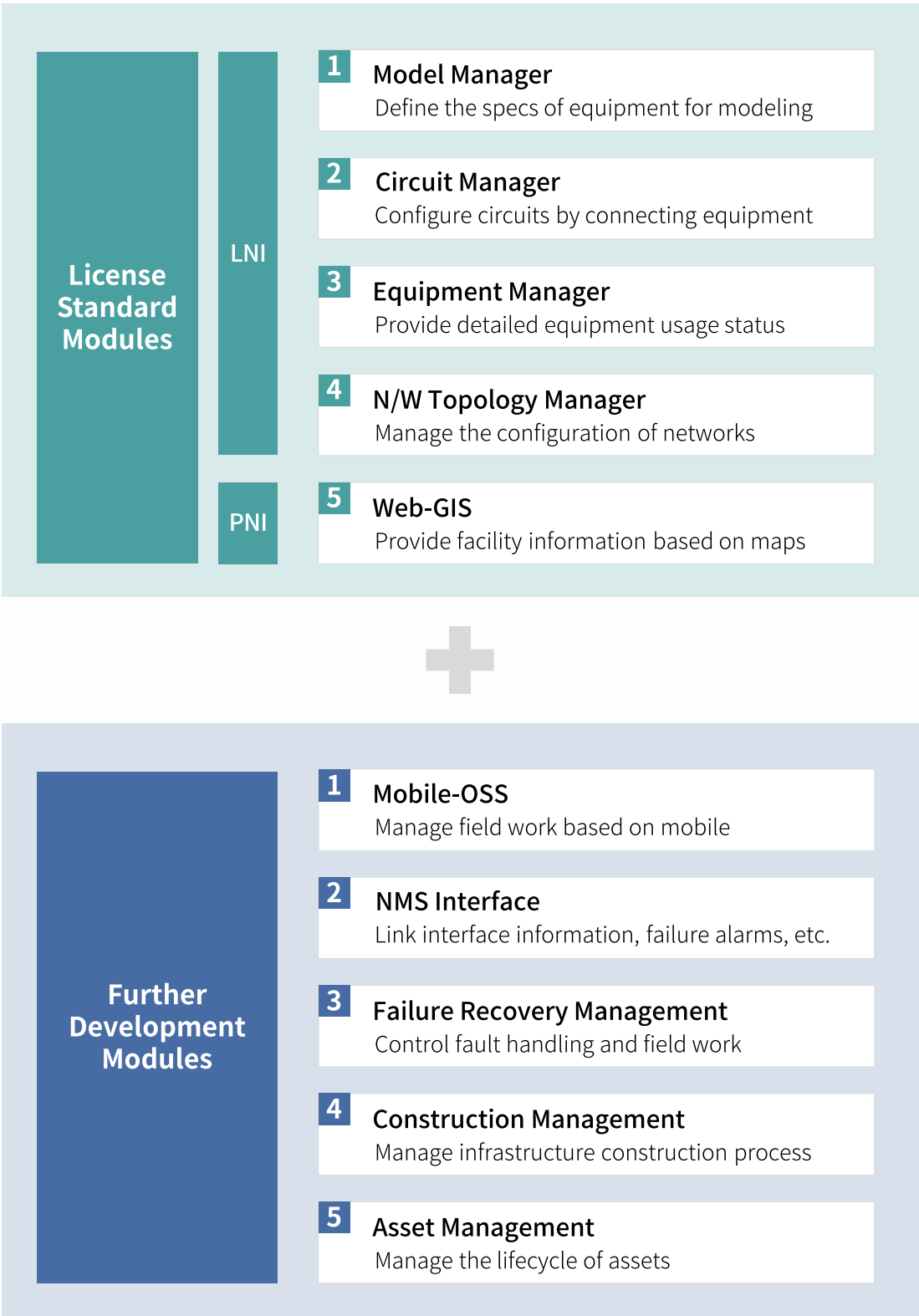


User Convenience

Provide high-level visualization and easy object management tools

Module Diagram

Each module can be provided individually and can be customized for customers.



Applicable Industries and References

SPACE-N can be applied across various industries operating infrastructure networks.

Telecommunication



Telco company



City



Factory

...

Utility



Electricity



Gas



Water

...



Korean Top 3
MNO Company

New Geographic
Information System (NGIS)



대구광역시
DAEGU METROPOLITAN CITY

Korean
Metropolitan City

Private Network
Management System

LG CNS: Digital Growth Partner

Empowering your business with transformative insights from our technical expertise and vast experience in Korea's competitive market

Annual Revenue

\$4.2 Billion

IT Service Experience

30 + years

Employees

22,000 +

LG CNS + Professional partners

Certified Experts

2,000 +

Global Subsidiaries

11 Countries

Global Partnership





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