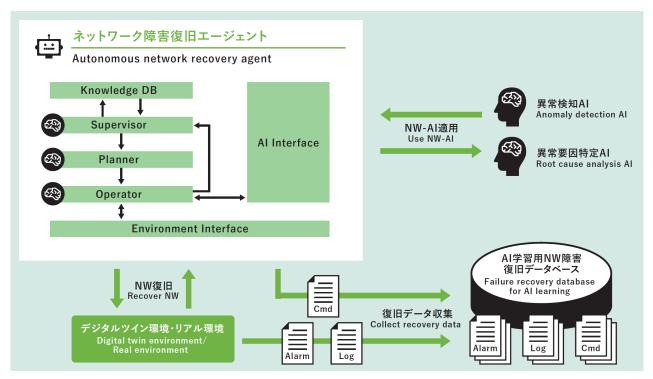


Al autonomously recovers network failures, reducing operational workload and downtime

Autonomous network recovery agent

Background and Technical Challenges

Network failures are becoming increasingly diverse and complex, requiring advanced expertise and quick decisions from identifying the point of failure to choosing the right recovery procedure. When multiple or cascading failures occur, human observation, analysis. and execution take time, during which the impact on services can expand.



R&D Goals and Outcomes

All agents monitor network conditions in real time and autonomously execute recovery measures using appropriate network AI, aiming for fully automated network operations.

Key Technologies

01 Core Technologies

- Recovery Planning Engine: Real-time failure analysis and automatic generation of optimal recovery steps.
- Al Autonomous Learning Platform: Prelearns failure patterns in a digital twin and builds a library of countermeasures.

02 Key Differentiators

We have developed a network failure recovery agent capable of directly controlling network devices. On a digital twin equivalent to a commercial environment, we demonstrated full automation from fault detection to recovery without human intervention.

Use Cases Infor	rmation Technology (IT)	R&D phase Research	
Technology Sched	ule FY25-26	Commercialization Schedule	FY27-29

[Exhibitors]

NTT Network Service Systems Laboratories,

Communication Traffic, Quality and Operation Research Project

[Co-exhibitors]

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