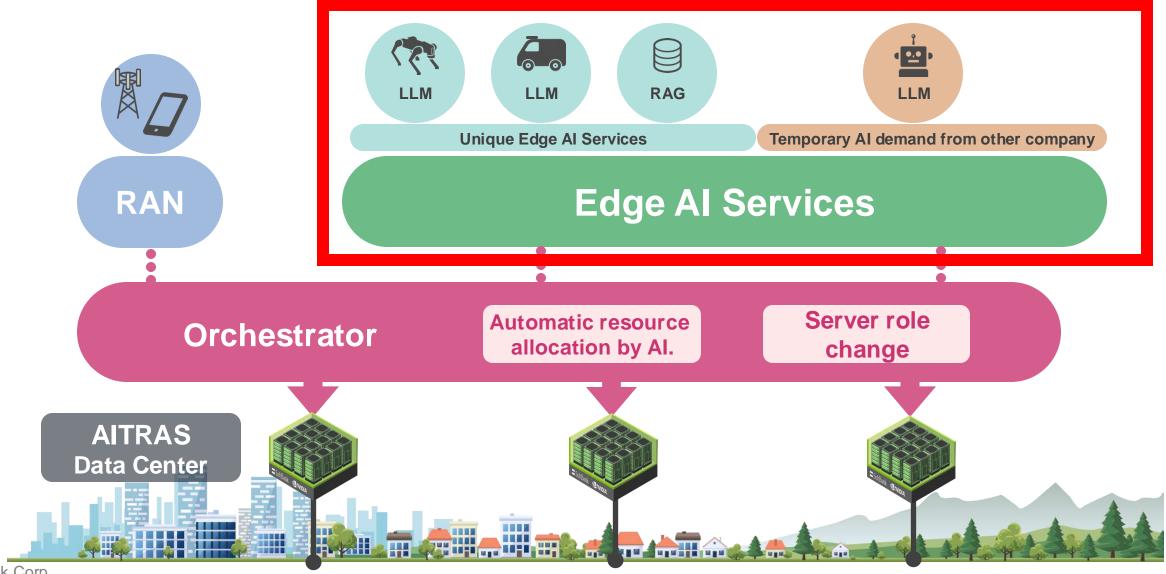


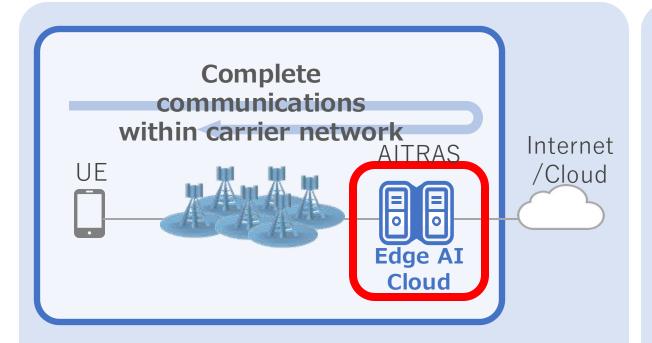
Technologies Elements of AITRAS





AITRAS Edge AI Features

~Supporting the realization of innovative AI services~



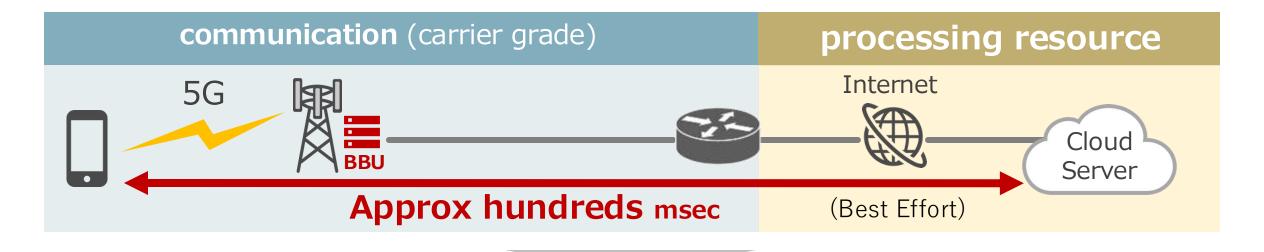
Provide low latency & high security Edge AI Cloud

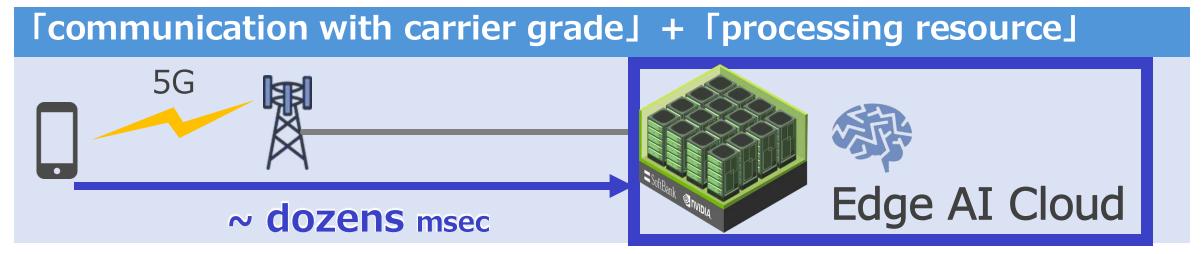


Enabling rapid development with NVIDIA AI Enterprise



Low Latency and Highly Secure Edge Al Cloud made possible by a telecom operator



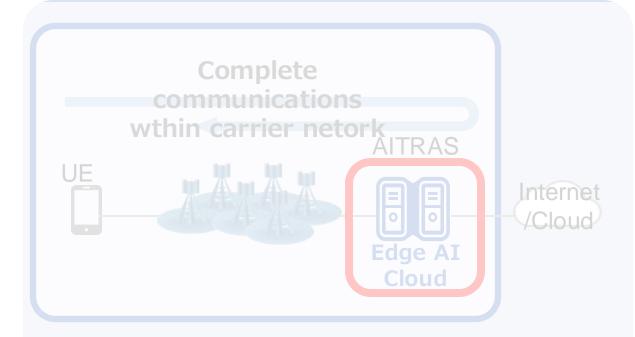


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AITRAS's Edge Al Features

-Enabling Innovative Al Services-



Privide low latency & high security

Edge AI infrastructure



Enabling rapid development with NVIDIA AI Enterprise



Enabling Rapid Development with NVIDIA AI Enterprise

Business logic, company data



NVIDIA AI Enterprise

Edge Al Cloud



NIMS* Microservice

CUDA-x Microservice

AI Application Framework

End-to-End AI Development Tools

Infrastructure Management and Optimization

AITRAS enables rapid AI sercvice development



Collaboration with NVIDIA AI
Enterprise
Functions that powerfully support AI
development

Low latency & high security
Edge AI Cloud

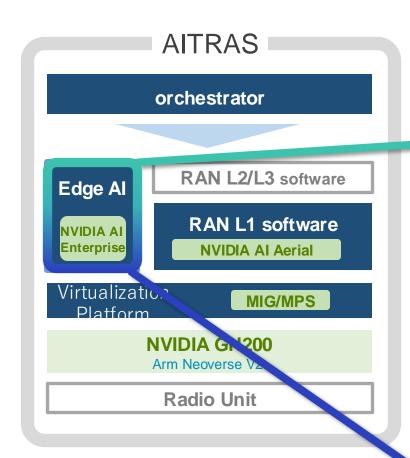








AITRAS Edge Al Use Cases











- SoftBank original Al serveice
- Remote support auto driving
- **◆** Cloud LLM robot
- ◆ RAG Menu@Edge

For 3rd Party Edge Al Cloud

Serverless API Powered by NVIDIA AI Enterprise @Edge

Al Models

OSS LLM

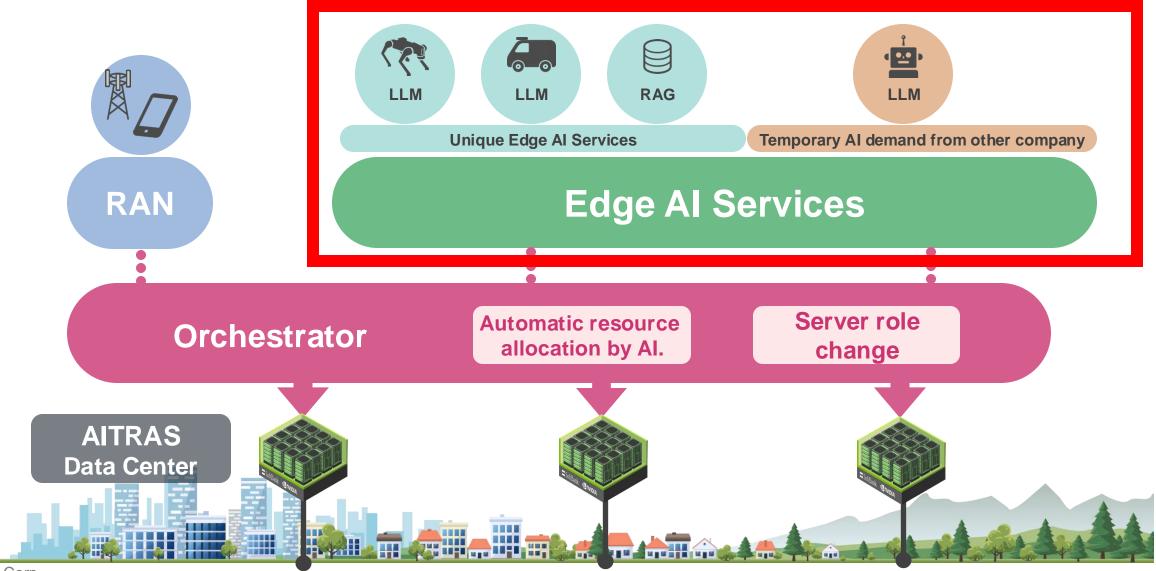
Partner LLM

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NVIDIA AI Enterprise

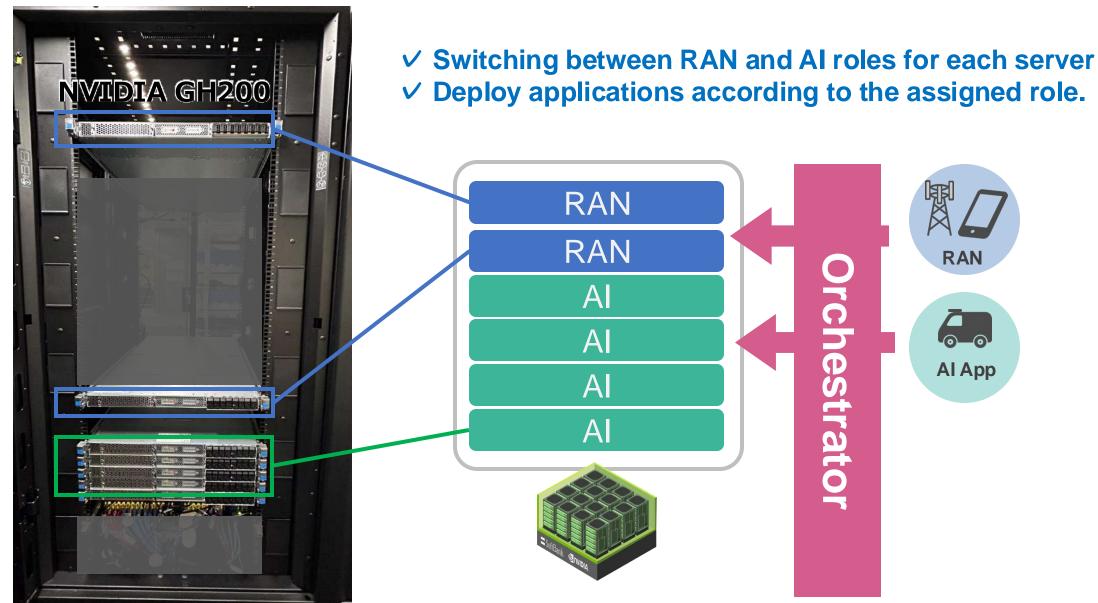


Technology Elements of AITRAS



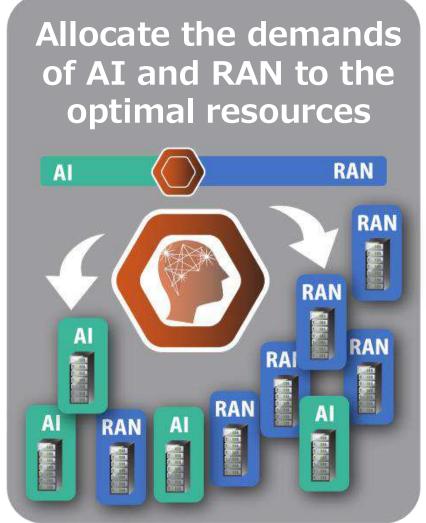


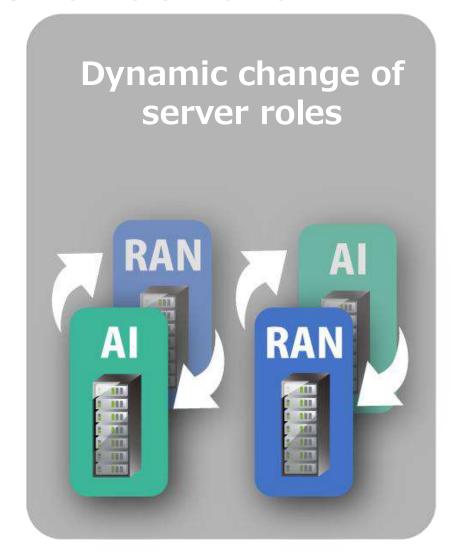
AITRAS Orchestrator Basic Functions





Two Important Functions of the AITRAS Orchestrator

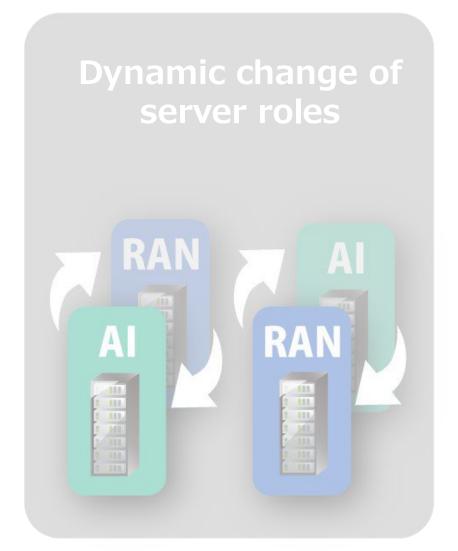




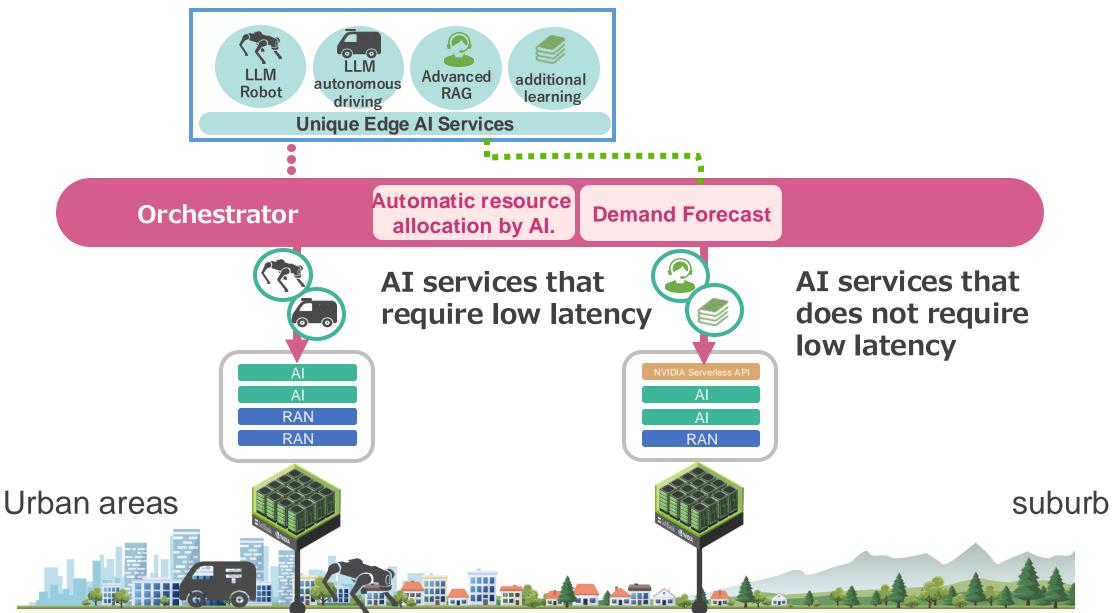


Two Important Functions of the AITRAS Orchestrator

Allocate the demands of AI and RAN to the optimal resources RAN AI RAN RAN RAN RAN AI RAN

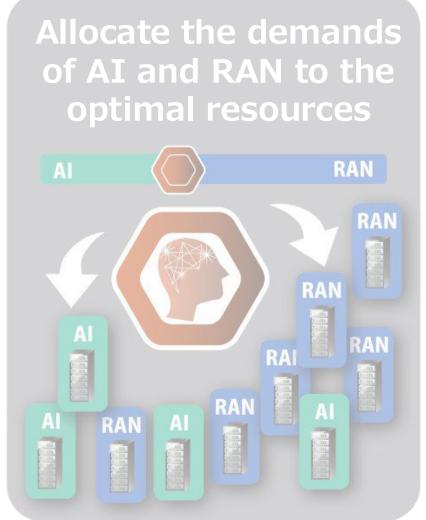


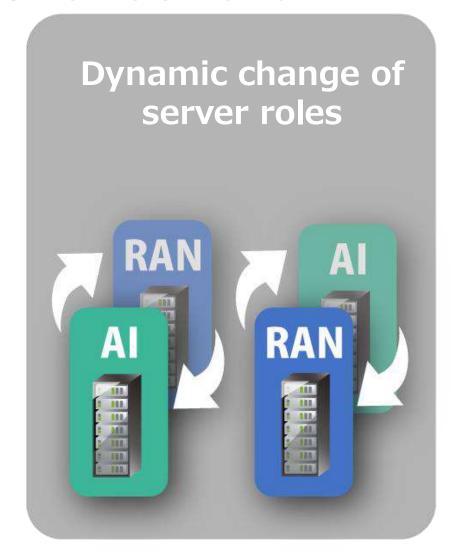
Assigning Services According to Use





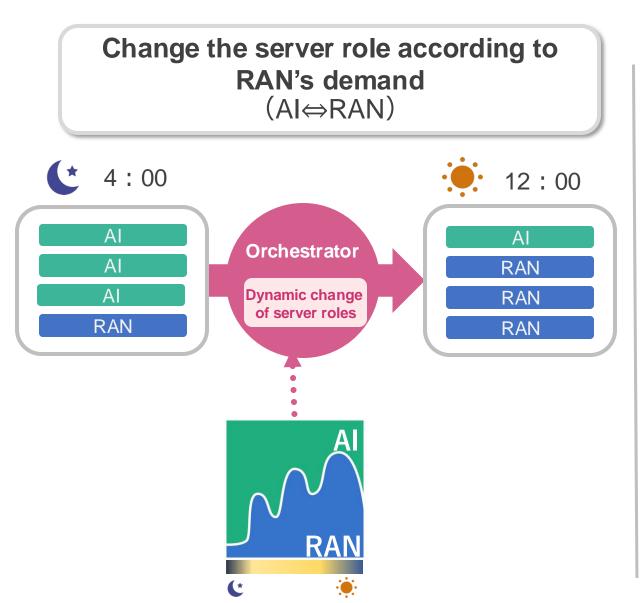
Two Important Functions of the AITRAS Orchestrator



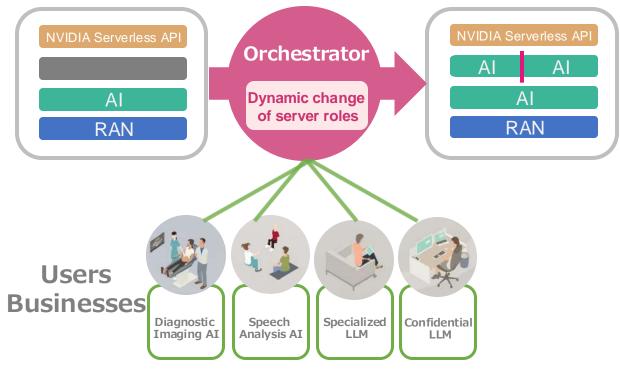




Optimally change the role of the server



Split GPUs on demand (Multi-Instance GPU:MIG)

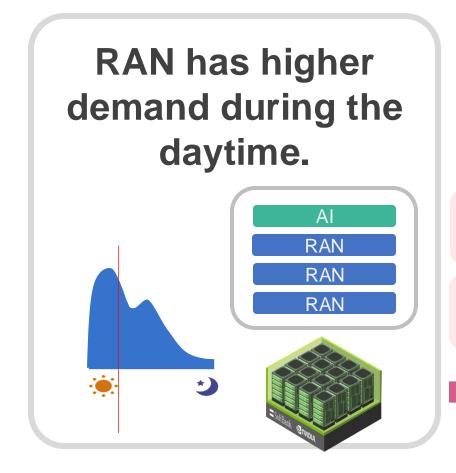




Demo

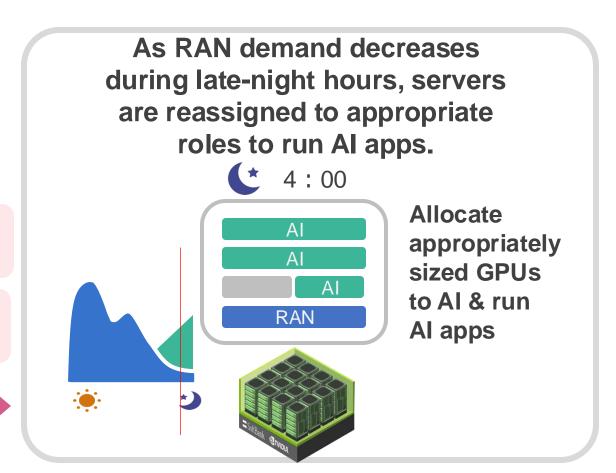


Demo Scenario



Dynamic change of server roles

Automatic resource allocation by Al



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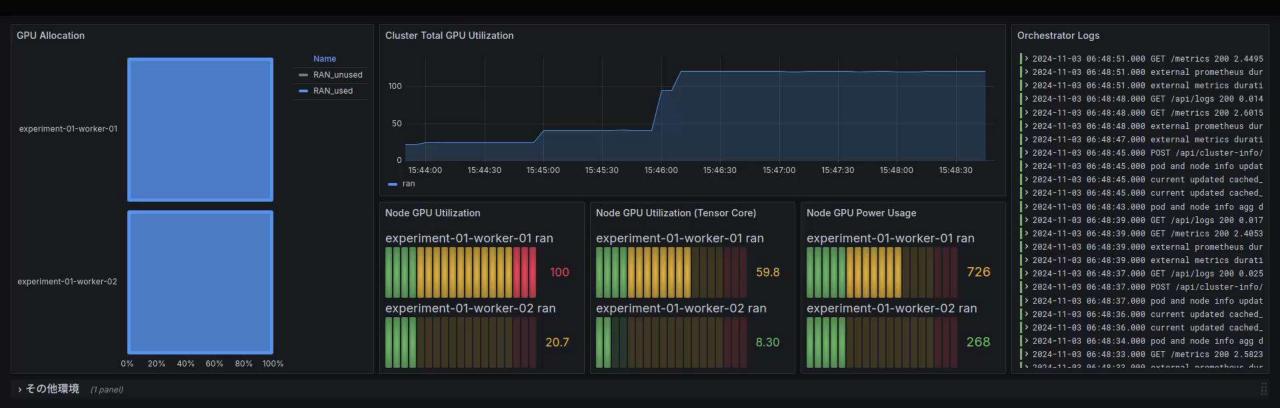
Demo Screens

Node type and GPU allocation status

GPU Usage Graph



CUDA cores, Tensor cores, Instantaneous value of node power consumption Orchestrator operation log

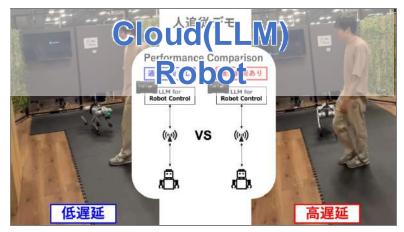


AI-RANオーケストレーターが管理するクラスターに2つのノードが存在し、 RANのアプリケーションがそれぞれデプロイされています。

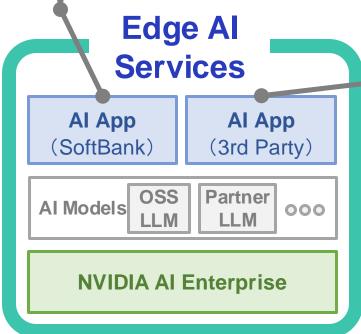


Use Cases with NVIDIA AI Enterprise@AITRAS









Serverless API powered by NVIDIA AI Enterprise @edge

