

GenAI Client

 ManiSkill

Robot
Simulation



Chat Client
Simulation



RTI Time Synchronization
Interface

ns3-ai
interface

Shared
Memory

ns3-ai
interface

Client Application

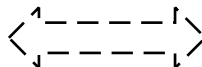
RTI Time
Synchronization

Data Encoder/Decoder

Data Fragmentation/
Reassembly

Send/Receive

Network
Communication



GenAI Server



VLA Service



Qwen-VL

VLM Service



LLM Service



RTI Time Synchronization
Interface

ns3-ai
interface

Shared
Memory

ns3-ai
interface

Server Application

RTI Time
Synchronization

Data Encoder/Decoder

Data Fragmentation/
Reassembly

Send/Receive

Ns-3

Request

Response

Node
A

Network

Node
B