The Impact of AI Agent on Network Infrastructure

Side Meeting@IETF 123 Madrid
Thursday, July 24 18:00-20:00, El Escorial

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Note Well

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- BCP 9 Internet Standards Process)
- BCP 25 Working Group processes)
- BCP 25 Anti-Harassment Procedures)
- BCP 54 Code of Conduct)
- BCP 78 Copyright)
- BCP 79 Patents, Participation)
- https://www.ietf.org/privacy-policy/(Privacy Policy)

Motivation

Agent2Agent Communication (A2A, ANP, and MCP)
Agent for Operator Network Operator Network for Agent

Agent Service Object:

- Agent to customer
- Agent to enterprise
- Agent to network Infra (O&M,6G)

Scenarios

- **AI Agent served for customer**
  - Agent interaction through the global Internet using 3GPP \WiFi\broadband networks
- **AI Agent served for enterprise**
  - Agent interaction through the global Internet using 3GPP \WiFi\broadband networks
  - Agent interaction through private line/office/Industrial networks for enterprise
- **AI Agent served for network infra**
  - Autonomic O&M through AI Agent built into Devices
  - Network Management Agent
  - AI Agent for 6G core network reconstructed.

Scope

- How operator network need to evolve to support the AI agent communications;
- How AI agent will be applied within operator network, such as in intelligent operations and management.

Agenda

18:00-18:05 Opening & Scope Introduction: Mengyao Han (China Unicom)

18:05-18:20 AI Agent Protocol: Jonathan Rosenberg (Five9)

Part1. Operator Network for AI Agent Communication

18:20-18:30 Problem Statement and Gap Analysis for Agent-enabled 6G Network: Yaomin Zhang (China Unicom)

18:30-18:45 Data Aware Inference & Training Network: Arashmid Akhavain (Huawei Canada)

18:45-19:00 ETSI ENI ISG's view on Agentic AI based 6G Core Network: Xueli An (ETSI)

Part2. AI Agent for Operator Network O&M

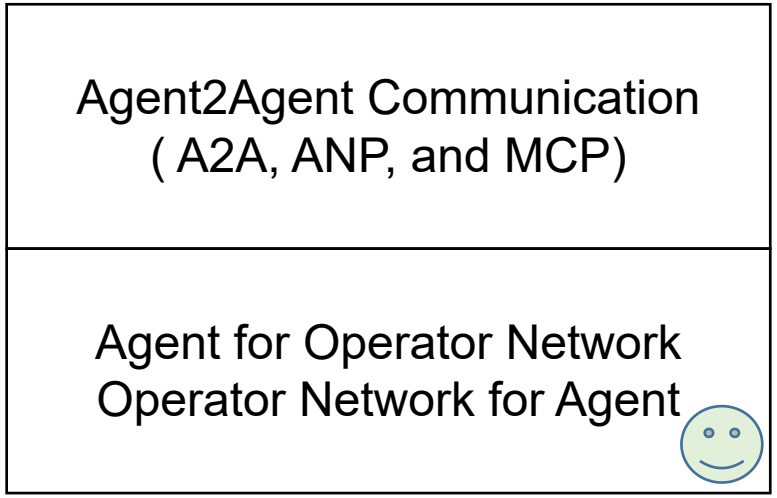
19:00-19:05 AI base Network Management Agent (NMA): Concepts and architecture: Xing Zhao (CAICT)

19:05-19:15 Agentic LLM for Device Automation: Mingzhe Xing (Zhongguancun Laboratory)

19:15-19:30 AI Agent in Network Devices: Toerless Eckert/Bing Liu（ANIMA Perspective）

19:30-20:00 Open Discussion & Summary

Open disscussion-1: Scope



Is this scope clear enough?

Any comments?

Open disscussion-2:Scenarios

Scenarios

- **AI Agent served for customer**
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Do you think the scenarios are well defined?

Any other scenarios?

Any identited problems under these scenarios?