

# ANS – Agent Name Service

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- AI Agents – Autonomous AI programs, operating independent of human supervision
- Estimated >1 billion Agents on the Internet by 2030
  - Compared to ~350 million registered domain names
- Agentic AI will transform how we locate and use online services





## Can you trust AI Agents?

- Family uses an AI Agent to plan and book a vacation. Agent makes all arrangements and accepts payment.
- When the family arrives at the airport, there are no tickets. Hotel does not have their reservation. Money is gone, and so is the Agent.
- The technology to do this exists today. The infrastructure to prevent it does not.
- But these problems are not new, and solutions already exist.

Enter ANS...

- ANS= Agent Name Service, a proposed standard to name and verify AI Agents
- ANS is built using infrastructure and standards
  - ANS = DNS + SSL
- ANS is open and subject to existing governance (ICANN, IETF, CA/B)



## How it Works



- **Register:** payments.example.agent -> endpoint + public key
- **Resolve:** Query ANS -> recv endpoint + capabilities
- **Verify:** SSL confirms identity
- **Connect:** Communicate securely, human-agent or agent-agent

Let's get our engineers connected

## We face three potential futures:

- **Chaos:** No standard for Agent Identification and Trust
  - No Interoperability
  - Diminished trust
  - Agentic AI kills the commercial Internet
- **Closed Gardens:** Proprietary Standards by 2-3 players
  - Pay to play (app store fees)
  - Opaque governance
  - Captive markets
- **Open Standards:** How the Internet was built, and how it thrives
  - DNS/SSL remain the foundation of a trusted Internet economy

# Get Involved

- **Adopt**
  - Build ANS support into your DNS/SSL services
- **Define**
  - Help refine the ANS protocol to optimize security, utility and performance
- **Promote**
  - Engage with IETF and champion ANS at ICANN and CA/B