

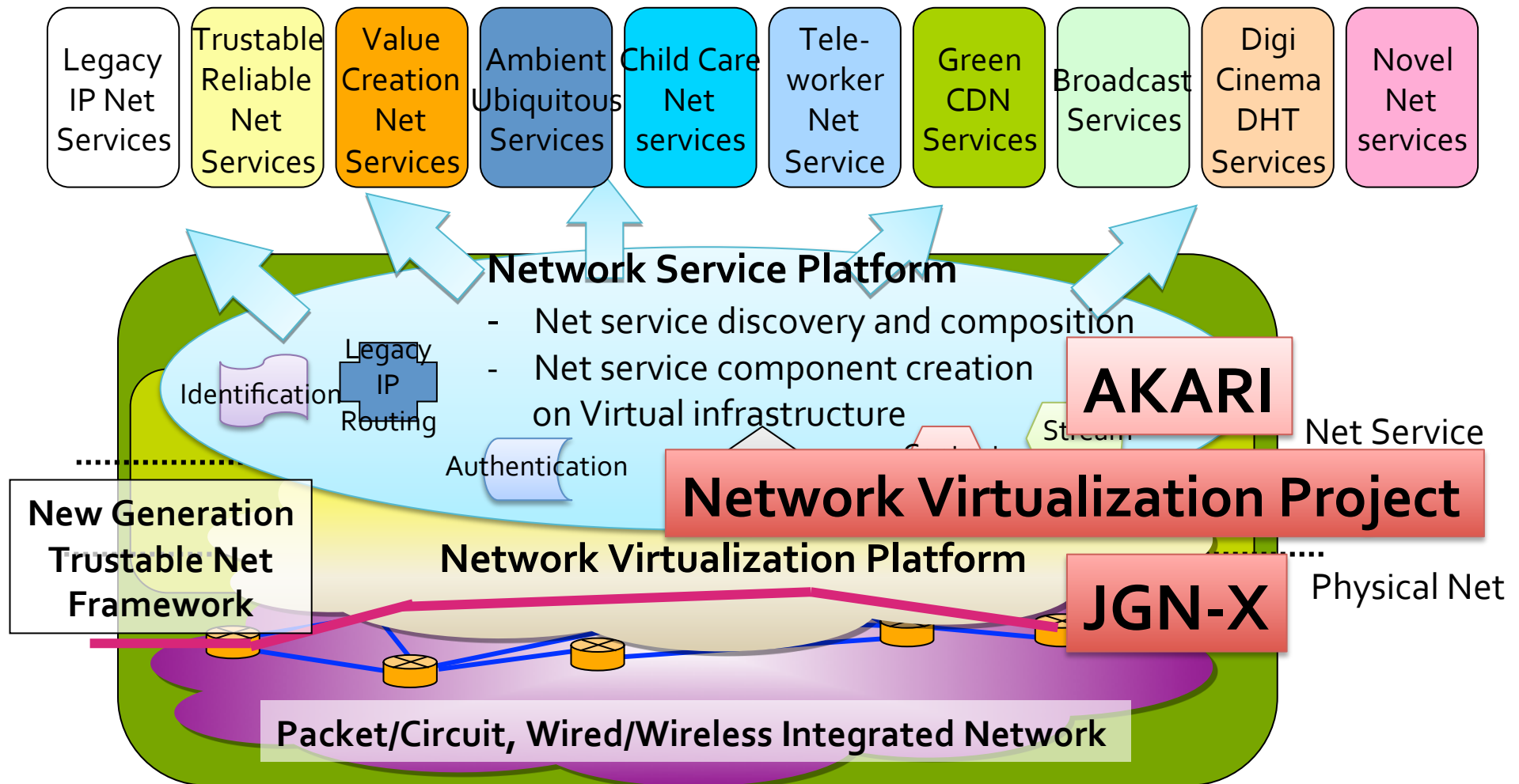
New Generation Network (NwGN) Research Activities In Japan

1. Overview (Aki Nakao)
2. JGN-X (Eiji Kawai)
3. Network Virtualization (Aki Nakao)

Aki Nakao
University of Tokyo / NICT
2011/7/27

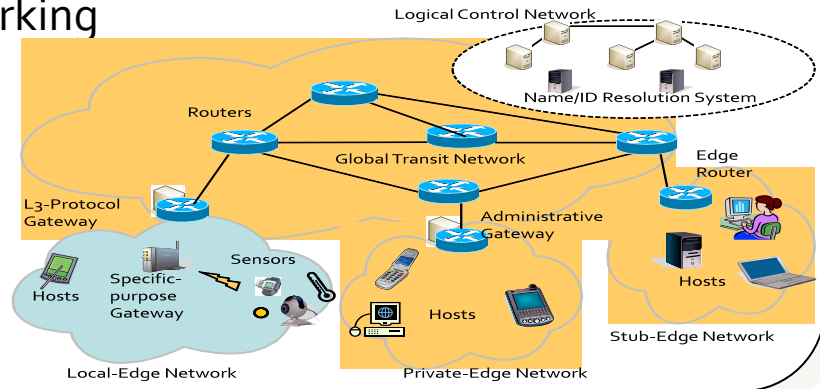
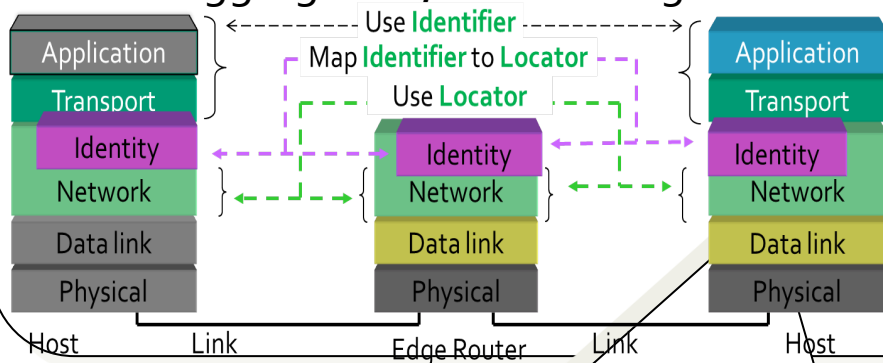
Envisioned Model of NwGN

- An infrastructure for delivering network services
- Meta-architecture enables to use an optimum network architecture for a network service

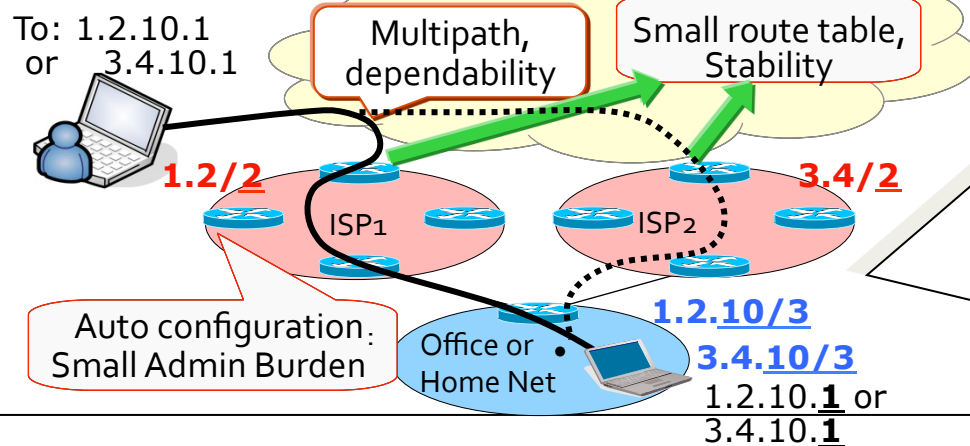


New-Generation Network from AKARI

ID/Locator Split Architecture: No limitation for location of "things", support mobile communication, multi-homing, route aggregation, and heterogeneous networking

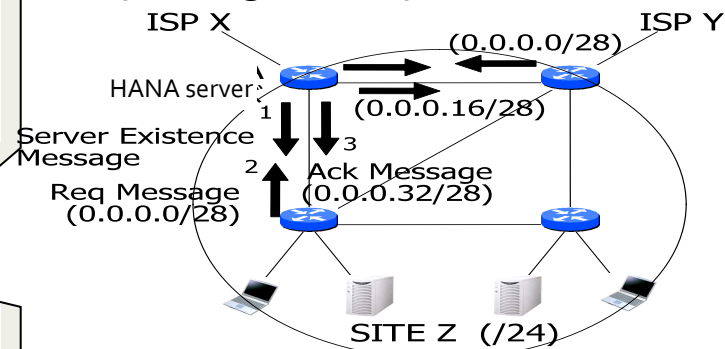


Hierarchical Locators Assign for Route Aggregation: Small size of L3 routing table → energy saving, high-speed locator lookup, eze multi-homing, high availability



Automatic Locator-Assignment:

- Simplify L3 Net operation
- Avoid human errors
- Layer degeneracy



HANA: Hierarchical & Automatic Number Assignment for Locators