Demo: Multiple-namespace Resolution

### Scenario: Communication in Heterogeneous Wireless Networks

- In existing solution, the communication between different network is often bridged by IP.
- Carrying messages by IP brings overhead.

### **Our Solution**

- In our new solution, messages are carried by Ethernet frames with specified name for routing.
- The gateway(Multiple-namespace-enabled router) process the resolution and routing. At the same time, the packet may be converted to corresponding format for current network.
- Traditional switch(link-layer Device) can be placed on the link between two Multiple-namespace-enabled routers.

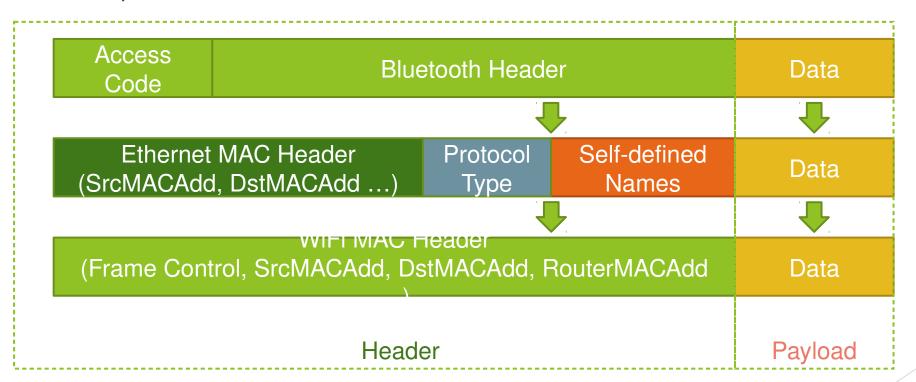
# Demo Topology

## Link-layer Frame Format

SrcMACAdd   DstMACAdd	Protocol Type   SrcName   DstName	Payload
MAC Header	Data	

#### **Translation**

- Modify the MAC Headers of Packets/Frames in MAC layer/Link-layer
- Example: Bluetooth->Ethernet->WiFi



### Performance

