

# ETRI Virtualized Programmable Platform

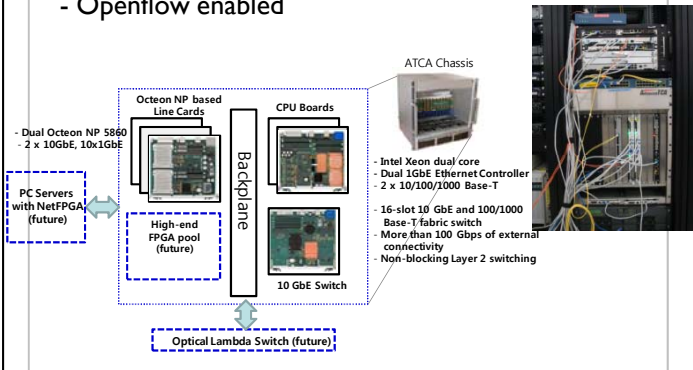
ETRI www.etri.re.kr

KISTI www.kisti.re.kr

ProtoGENI

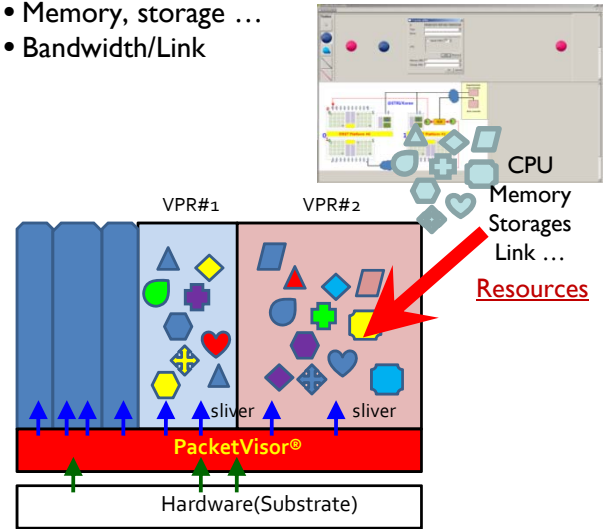
## ETRI Platform Specification

- NP-based hardware platform
- Virtualized programmable substrate that operate at high speed (ATCA hardware)
- Virtualized programmable routers
  - **Researcher-defined "Silver-based Virtual Routers"**
- Common Platform APIs
  - Programming APIs for Researchers
  - Open substrate interfaces
- Capabilities and functions
  - **Dynamic End-to-end Slice Operations**
  - **Control Framework APIs (protoGENI-compatible)**
  - Openflow enabled



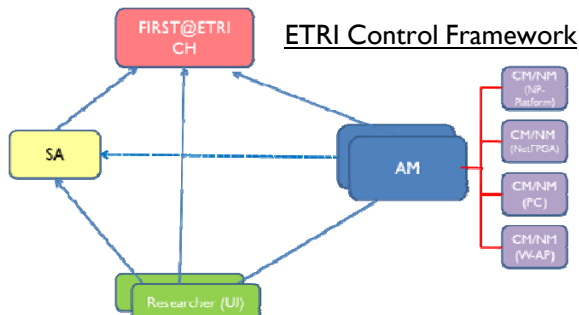
## ETRI Packetvisor®

- Load multiple images (experiments) on 1 CPU Core
- Multiple slivers scheduling
- **Dynamic CPU resource allocation on slivers**
- I/O queues virtualization
- Memory, storage ...
- Bandwidth/Link

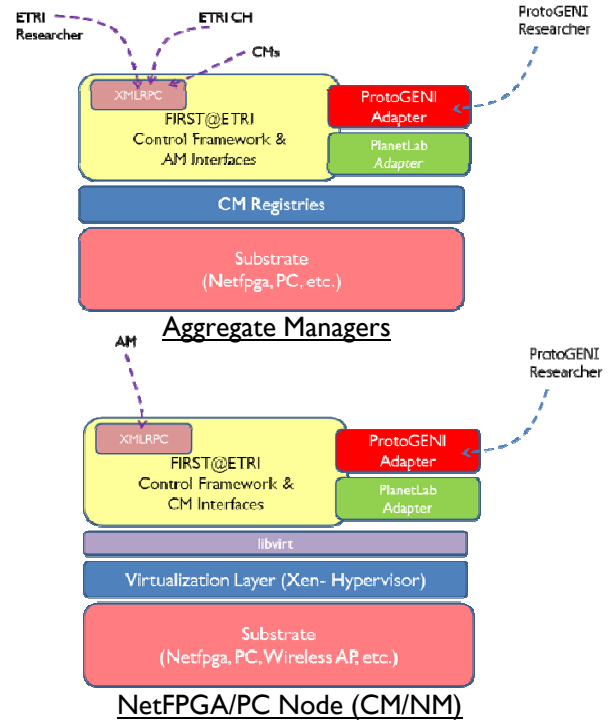
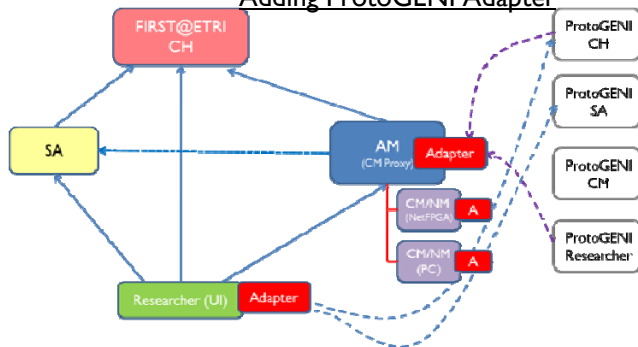


VPR - Virtualized Programmable Router

## ProtoGENI Integration in ETRI Platform



### Adding ProtoGENI Adapter



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