SDN*1 provides flexibility and agility to network services. However, to deploy SDN within existing ICT infrastructures, a number of legacy network functions, e.g. IP routing, must be developed onto each SDN application. To realize highly-deployable SDN software switch, we are developing an framework which enables to extend the network functions into Lagopus software switch*2.

**Features**
- Highly deployable within existing ICT infrastructures by supporting legacy network functions: routing protocols, VRF, redundancy, management interfaces, etc.
- Can be run on various platforms for performance requirements: small platform (CPE), high performance server, virtual machine, etc.
- Realizing over 10Gbps high-performance packet processing by leveraging state of the art computer architectures: multi-core / processor, high-performance bus, etc.

**Application Scenarios**
- VPN routers: CPE and aggregation router (left figure)
- Virtual switch for NFV infrastructures enables flexible flow control for service chaining
- Per-service and/or per-source traffic control for security and monitoring applications
- Flexible flow copy for video streaming

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*1 SDN (Software-Defined Networking): A technology to control networks by software to realize flexible network services.
*2 Lagopus open source community site: [http://www.lagopus.org/](http://www.lagopus.org/)