

# Building SDN Compatibility in Legacy Devices for OEM



## Our Client

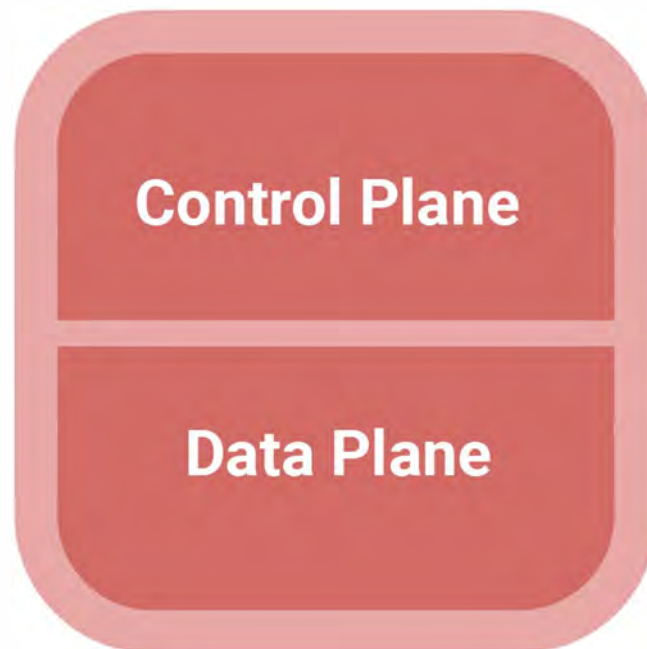
A global network solution provider who develop and manufacture network equipment for fixed and mobile broadband services.

## Why they needed us

The number of network device an engineer had to manage was growing exponentially for their customers. So, it made business sense for their customers to use SDN. It meant that our client had to make their devices SDN compatible and not only that, they had to upgrade their already deployed devices to be SDN compatible.

## What we did

We made the existing router SDN compatible by enabling the ability for the data plane to be controlled by a central SDN controller. This was done by implementing both OpenFlow 1.0 and 1.3 specifications. Now the router could be controlled centrally and it could function as a stand-alone router too.

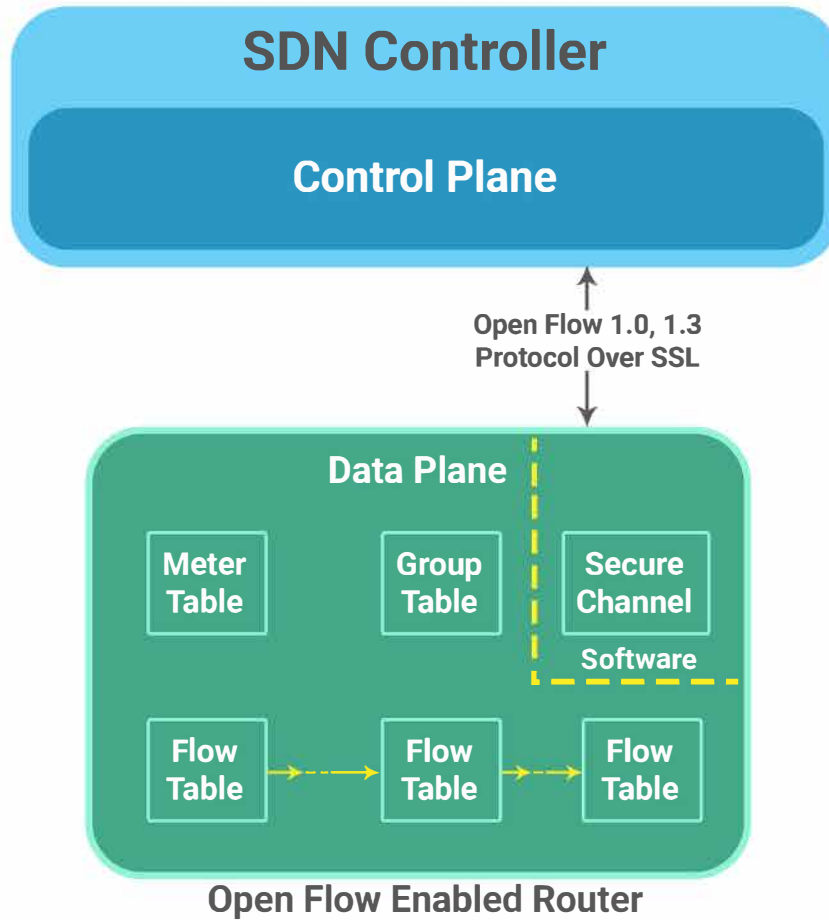


## Legacy Router

We implemented multiple flow tables, group tables and actions in the router to support

- Standard IPv4 routing and ECMP in L3 layer
- Standard Ethernet Bridging, Port based VLAN and Multicast in L2 layer
- MPLS-TP, MPLS LER/LSR, L2VPN – VPWS and Protection Switching in MPLS layer

We developed Group tables for supporting Meter-SrTCM, TrTCM and Channel-Channel - Multiple Controllers, TCP/UDP/TSL



## How they benefited

Since their devices now supported simplified network management, which meant reduced operational expenditure, there was a significant increase in sales.

Since their devices supported both 1.0 and 1.3 specification of OpenFlow, they could be used on networks which support either specification.

The OEM's reputation increased as a leader in bleeding edge technology adoption.

---

### About Redeem Systems

*Redeem Systems is a pure-play Engineering and Digital Services Company with focus on mission critical highly engineered + high availability systems. Our global presence spans Asia-Pacific, Middle-east, Europe and North-America.*

*Our focus verticals include – Tele-communications, Medical Electronics and Aerospace & Strategic Electronics.*

*Our Product Engineering competencies include Product Design and Development, Verification & Validation, Emerging Markets Strategy and Product Life-Cycle Extension through Value Analysis and Value Engineering*

*Our Digital competencies are focused on Industrial Internet-of-Things (IIoT), Engineering Big Data Analytics and Software Defined Networking (SDN)/ Network Functions Virtualization (NFV).*