

## Motivation for Demo

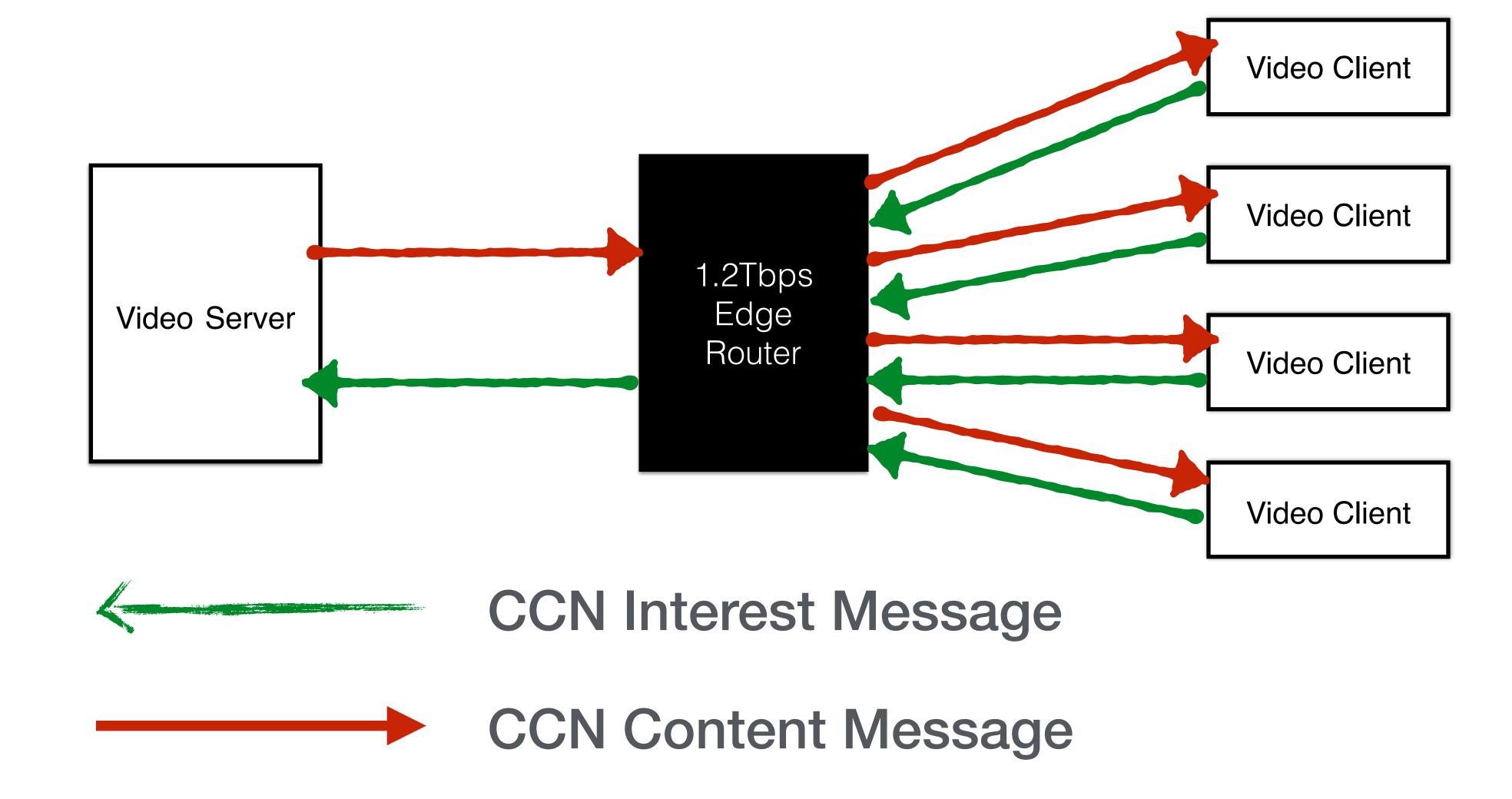
According to the latest news report from Cisco, "2014 Complete VNI Global IP Traffic Forecast for 2013-2018",

Video is predicated to amount for 84% of all the Internet traffic by 2018

What better choice than streaming CCN video across a Carrier Edge router while running IP traffic as well?



## Interest/Content Protocol





# Demo Ingredients

#### CCN Producers:

• 10 VMs running on Intel Xeon Server running

#### CCN Consumers:

- 10 "Raspberry Pi"
- Open Source VLC (VideoLan Client) plugin

### Parc Distillery software

- Protocol Stack
- Metis forwarder

#### Datapath:

Parc Hybrid Router Research Platform



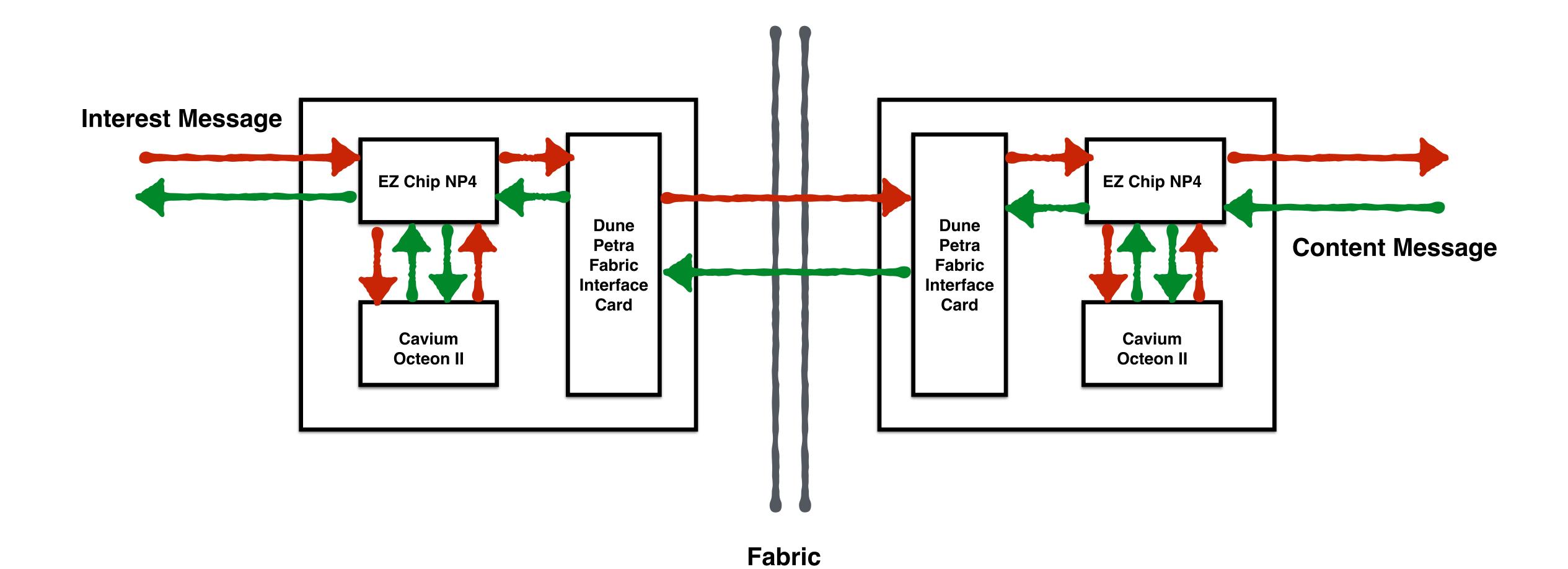
## PARC Router Platform



CE Edge Router with L2/L3/MPLS NSR/NSF architecture with ingress/egress QoS 6RU (4 linecard) and 16RU (12 linecard) Models Each Linecard supports 40-100GE of front port at wiretapped Backplane supports 200GE/slot

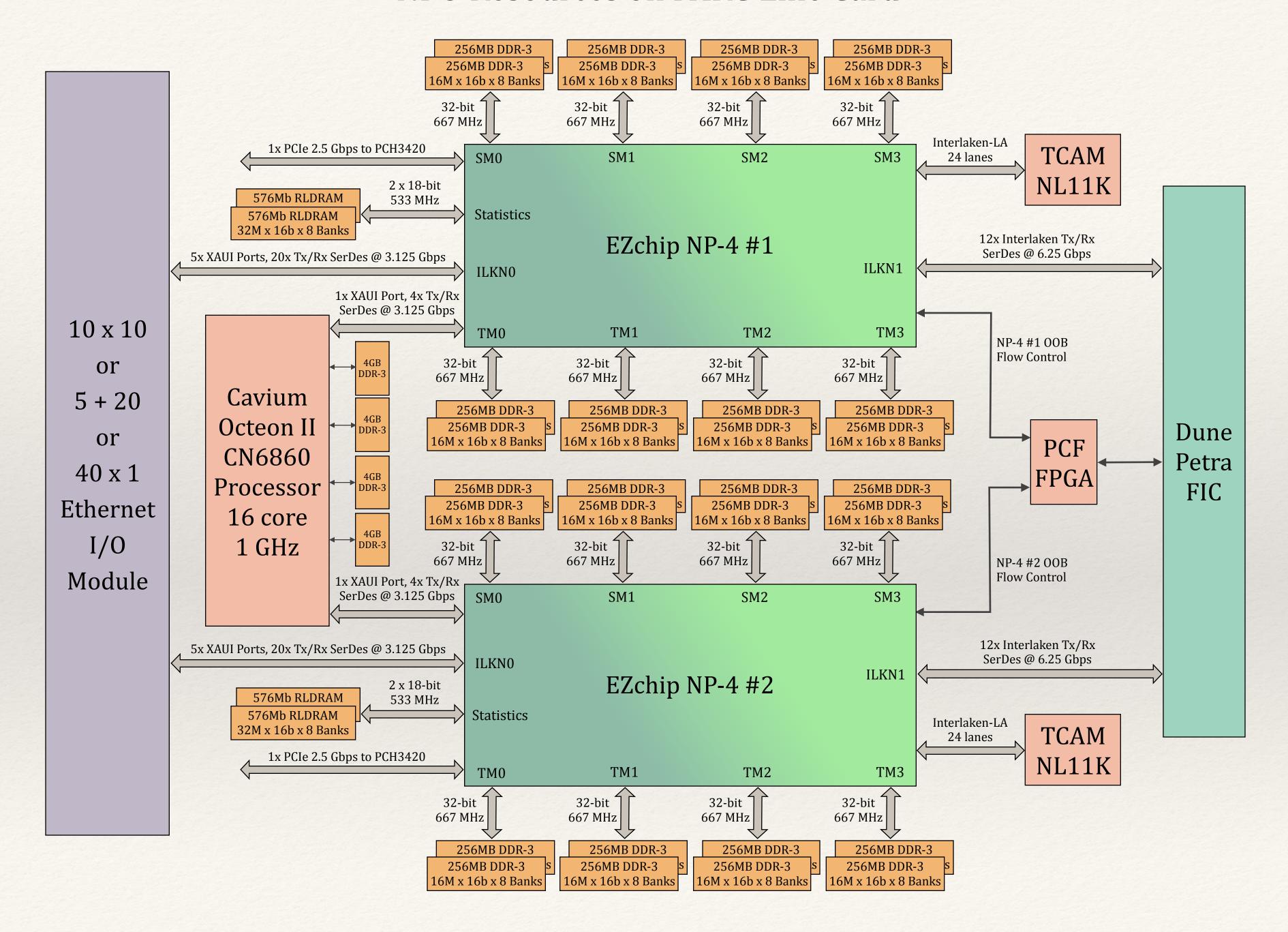


# Router Datapath





#### NPU Resources on PARC Line Card



## Conclusions/Future Directions

CCN came up quickly on both low end consumer and carrier equipment

CCN over Ethernet can be added to Carrier Routers as a software upgrade

PARC research platforms are available for CCN developers

Coming Research Topics using PARC research platform

- Network Caching
- Scale optimization



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# Thank you

http://www.ccnx.org/