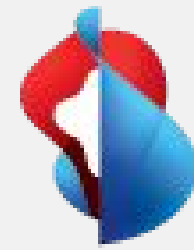




OVS-DPDK for IP-TV live at Swisscom

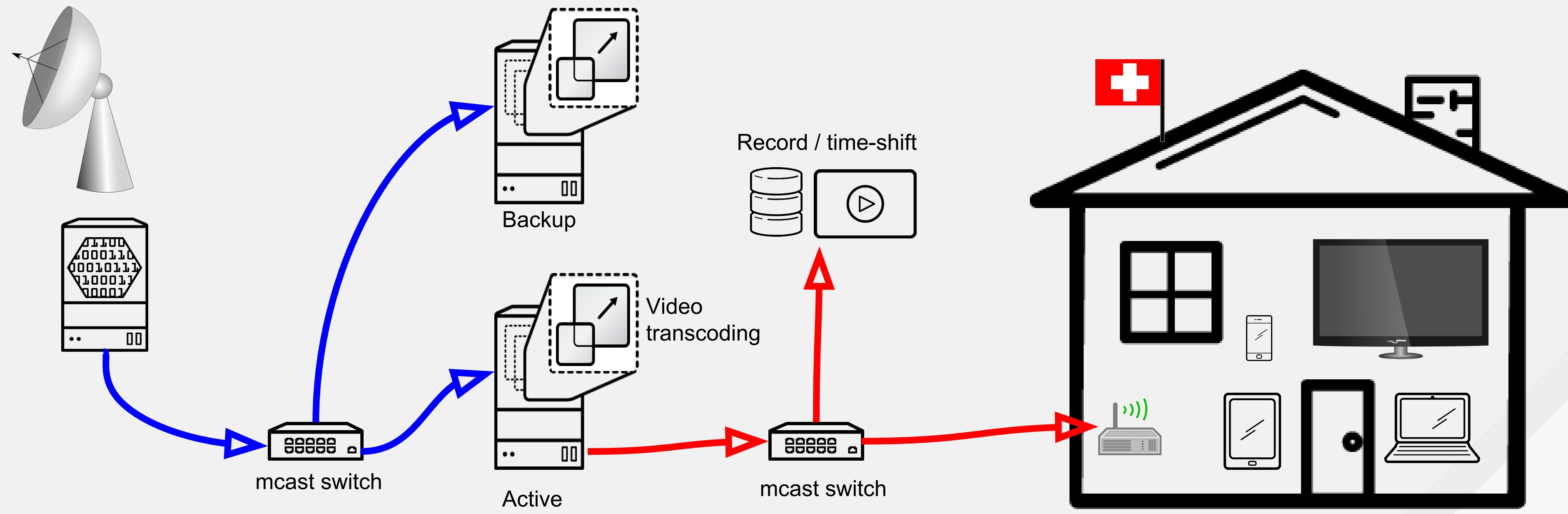
Franck Baudin, Principal Product Manager - OpenStack NFV

November, 2017 - OVS Conference



IP TV architecture at **swisscom**

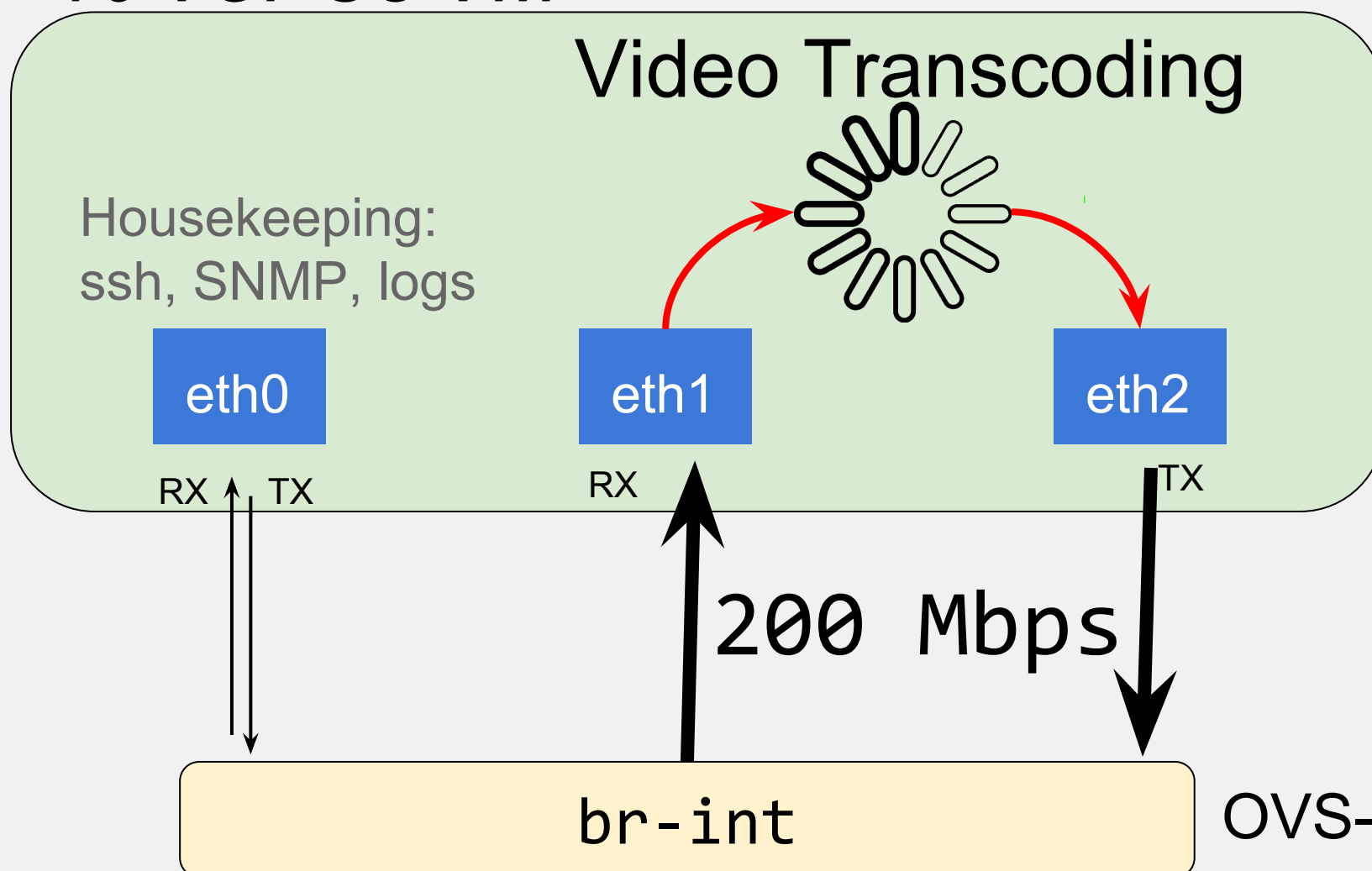
Simplified, per TV channel



Zoom on one (active VM)

One VM == one TV channel == one input mcast stream + one output mcast stream

10 vCPUs VM



```
[root]# ovs-appctl mdb/show br-int
port  VLAN  GROUP          Age
  5     2    239.186.60.1   14
  8     2    239.186.60.1    1
  3     1    querier        27
```

```
ovs-vsctl set Bridge br-int mcast_snooping_enable=true
ovs-vsctl set Bridge br-int other_config:mcast-snooping-disable-flood-unregistered=true
```

OVS-DPDK

Why?

- Kernel OVS performances were fine but...
- ...Kernel OVS came with spurious packet loss that were not identified

How many cores?

- 1 core (so 2 PMDs, two hyperthreads) only!

How many queues?

- Just one per vNIC, as we have only one flow *in* and only one flow *out*

Key Takeaways



Customers are watching TV thanks to OVS-DPDK and its multicast support

OVS-DPDK usage make sense even with moderate traffic workload when zero packet loss matters

Thanks to the OVS community for keeping multicast working fine (and possibly better) in the future :-)



Thank you!
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