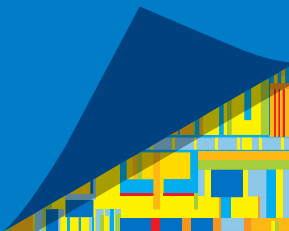




# Single Virtio

Communications & Storage  
Infrastructure Group



# Agenda

- Why?
- Status
- Items to integrate

# Why need single virtio

- 3 virtio PMD driver implementations
  - lib/librte\_pmd\_virtio(short name as virtio A)
  - virtio\_net\_pmd by 6win(short name as virtio B)
  - virtio by Brocade/vyatta(short name as virtio C)
  
- reduce the maintaining cost and time
  - Maintainer
  - Developer
  
- user reduce time on trying their application with 3 variants

# What's the status

- Virtio A has covered all features of virtio B
  - Both are open source on dpdk.org.
  - Similar feature set/behavior
  - No extra effort needed if merge virtio B into virtio A
  
- Some difference between virtio A and virtio C
  - Has 2 original patch set (from Stephen) for merging from virtio C into virtio A
    - Have no complete source code of virtio C
  
- RFC almost ready
  - RFC patch set already contain all content of the first original patch set .
  - Working on adding new items from second original patch set.

# Items to integrate

- 4 new features
  - soft vlan encap/decap functions
  - Link State interrupt
  - Mac filter
  - VLAN filter
- Perf
  - Weaker barrier
- Misc. (Code cleanup)
  - Function to setup PCI resource
  - Remove unnecessary adapter structure
  - Remove redundant vq\_alignment
  - States handling to match Linux kernel
    - Restart dev after stop?
  - Etc.

# Thanks!