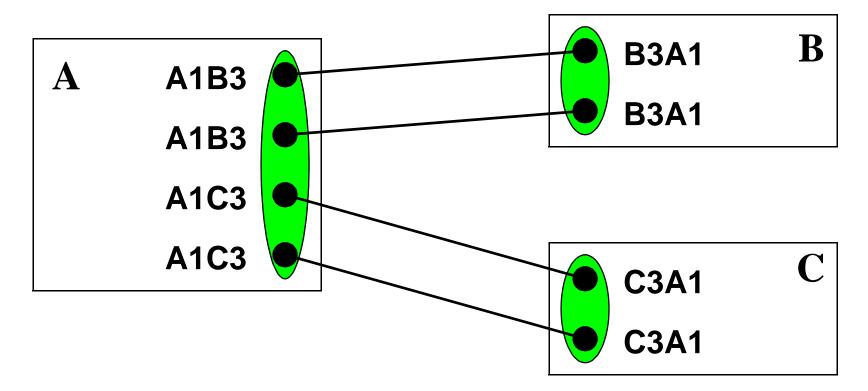
## **Dynamic Port Keys**

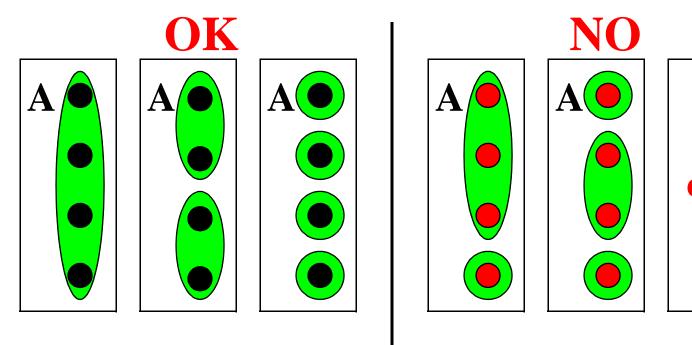
• Keys change to reflect hardware capabilities (e.g. line speed), not connection topology.



November 10, 1998

- Keys change to reflect hardware capabilities connection topology.
- Except that hardware limitations may force changes based on connection topology.

## Suppose hardware limits aggregation

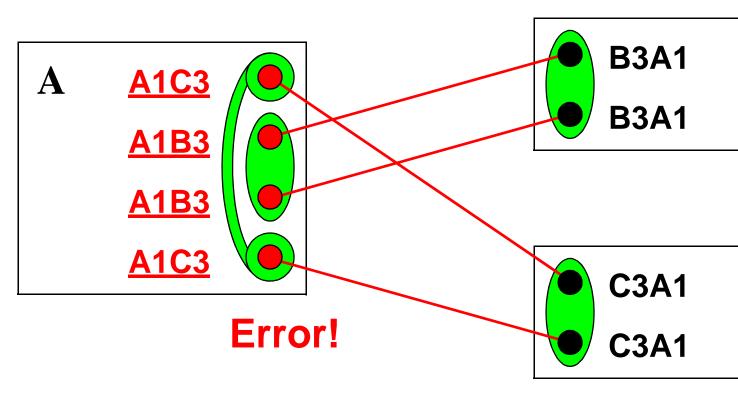


### **Dynamic Port Keys**

IEEE 802.3ad Link Aggregation

November 10, 1998 Norman Finn

- Keys change to reflect hardware capabilities connection topology.
- Except that hardware limitations may force changes based on connection topology.



## **Suppose we cross wires:**

#### **Dynamic Port Keys**

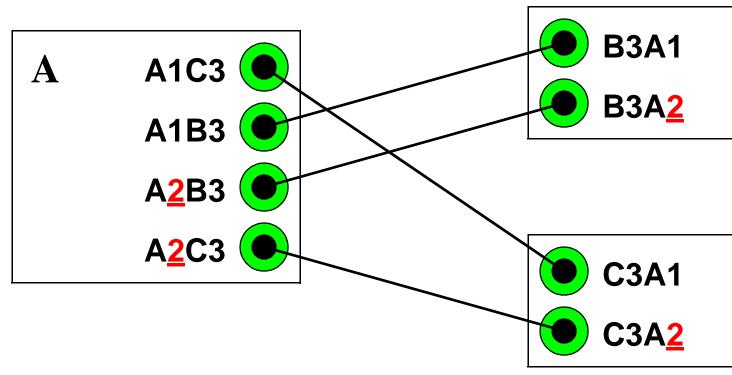
IEEE 802.3ad Link Aggregation

November 10, 1998

Norman Finn

- Keys change to reflect hardware capabilities connection topology.
- Except that hardware limitations may force changes based on connection topology.

Changing A's port keys prevents an illegal ag



### **Dynamic Port Keys**

IEEE 802.3ad Link Aggregation

November 10, 1998

Norman Finn

- But, if keys can change, an instability is poskey change causes his keys to change, which keys to change back to their original state, v causes ...
- A fix:

If we insist that key changes caused by the control topology only proceed in the direction of more aggregation to less aggregation, then we can convergence.

• Of course, if the hardware configuration characteristic the operator intervenes, the keys may change in the direction of less-to-more aggregation.

Dynamic Port Keys IEEE 802.3ad Link Aggregation November 10, 1998 Norman Finn

# **Dynamic Port Key Change Ru**

- Keys change to reflect hardware capabilities connection topology.
- Except that hardware limitations may force changes based on connection topology.
- Key changes caused by the connection topol only proceed in the direction of more aggreg less aggregation.

Dynamic Port Keys

IEEE 802.3ad Link Aggregation

November 10, 1998 Norman Finn