MPLS-IX and Inter-IX Operation

> Satoru Matsushima <satoru@ft.solteria.net> Japan Telecom

Agenda

- MPLS-IX Overview
- JT MPLS-IX
- Current Operation Status
- Inter-IX Overview
- Inter-IX Current Status

MPLS-IX Overview





MPLS-IX Benefits

- Media Independent
 - Using any Layer-2 media is possible.
 - Connecting among different media is possible.
 - E.g, ATM<->Ethernet, Ethernet<->POS
- Scalable Distributed IX
 - Easy Path(LSP) setting.
 - Without path configuration of each MPLS routers.
 - IX can build IP(Layer-3) Backbone.
 - IX only have to have IX topology.
 - Participants also have BGP and peer's routes.
- Interworking among current IX is possible.



A Commercial MPLS-IX

- mplsASSOCIO
- "ASSOCIO" means that:
 - "AS" + "Socio"
- Launched in Nov. 2002



Inter-IX Operation

Inter-IX?

IXP(s) interworking each other

 An IX customer can make peering w/ other IXP customers

Joint effort w/ WIDE DIX-IE







BGP Specification (RFC3107)

- Carrying label information in BGP-4
 - MP_BGP UPDATE
 - Capability value -> AFI:1, SAFI:4
 - Labeled unicast MP-NLRI -> AFI:1, SAFI:4
- Consult to make connectivity toward the neighbor.



satoru@ft.solteria.net