

AkitaIX Report & ANOG UPDATE

秋田県工業技術センター/ANOG

佐々木信也

bomber@akita-iri.pref.akita.jp

AGENDA

- AKITA IX 「@NAP」 report
concept/architecture/spec.
- ANOG update
what's ANOG? reprise :-)
NAMAHAIGE project
Open Hardware!

AKITA IX 「@NAP」

- Concept
 - 秋田県庁による2002年度事業
 - 民間事業者に委託
 - 民間企業のアイデアフル活用
 - 事業の加速化
 - 低コスト化
 - 対民間と対行政との機器の価格差?!

AKITA IX 「@NAP」

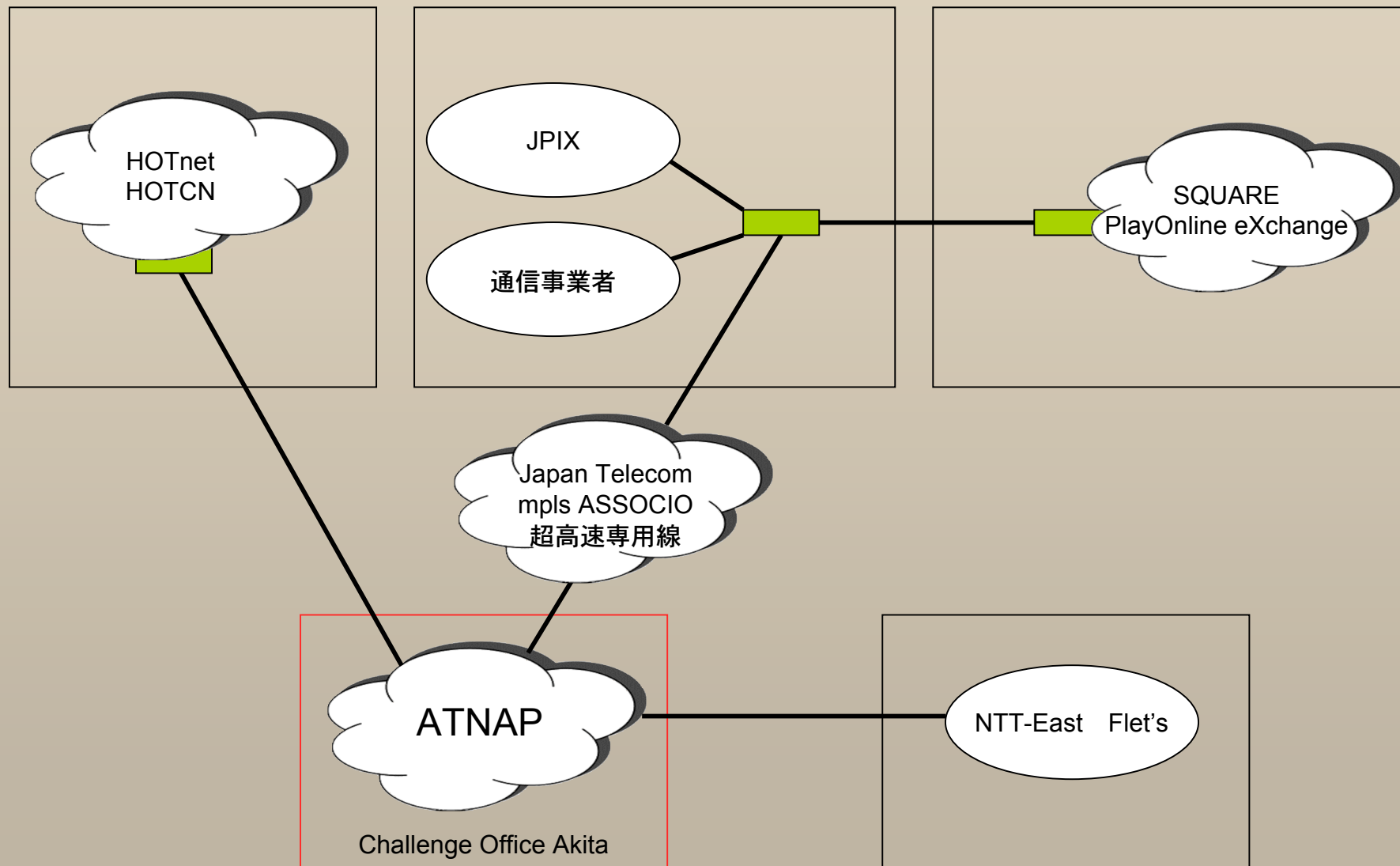
- Architecture
 - Based on MPLS architecture
 - Require TE Pending?
 - Equal OC48 uplink
 - Using Multi Vender Equipment
 - LDP or RSVP for Label distribution
 - Include iDC
 - Etc...

AKITA IX REPORT & あのくupdate



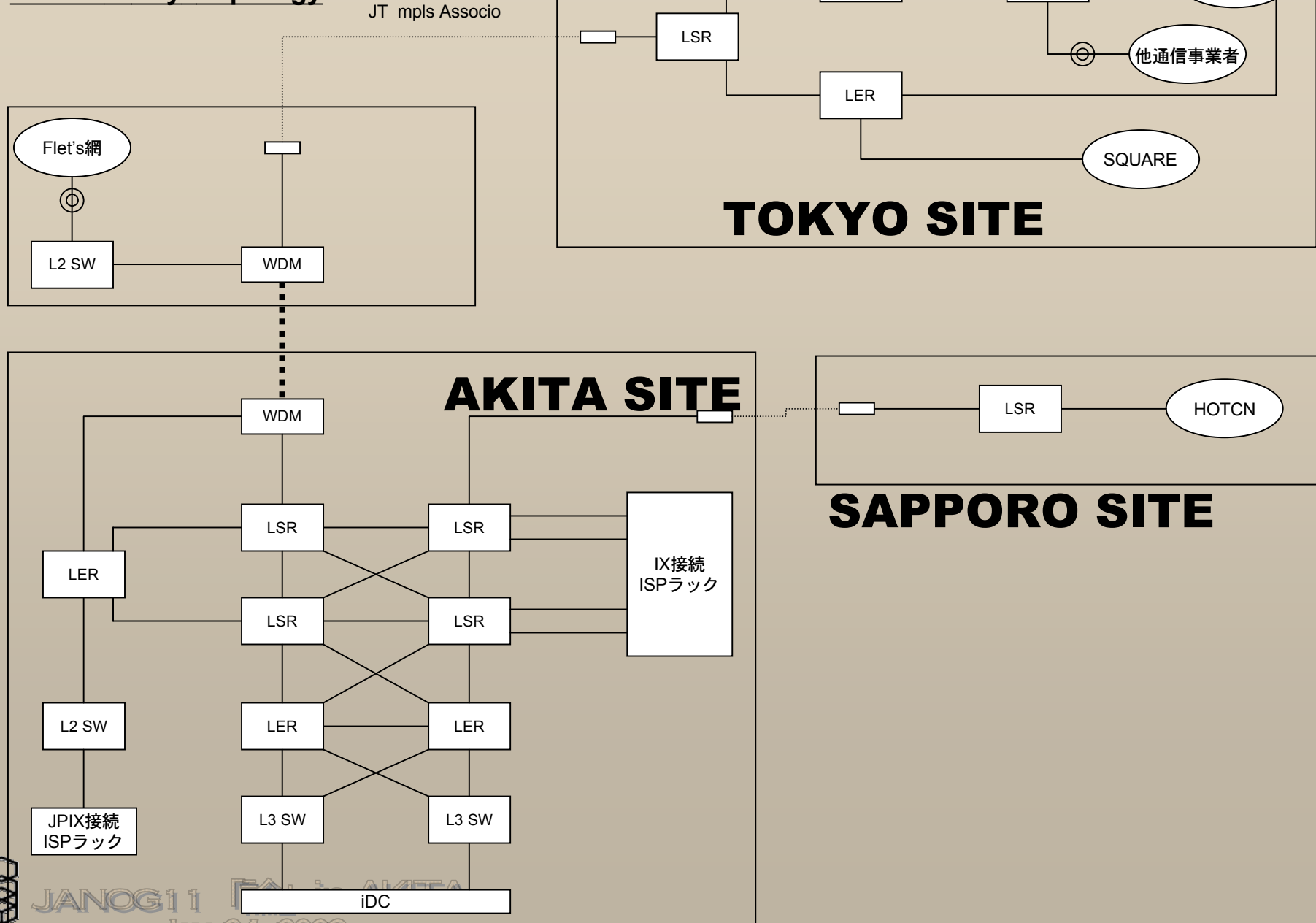
JANOG11 在 AKITA
JAN. 24, 2003

ATNAP ネットワーク構成 (接続概念図)



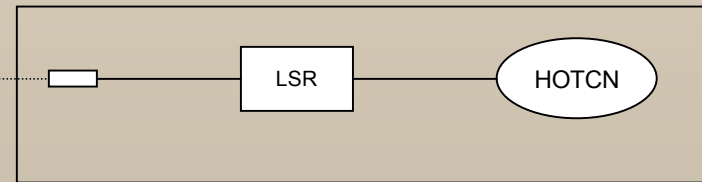
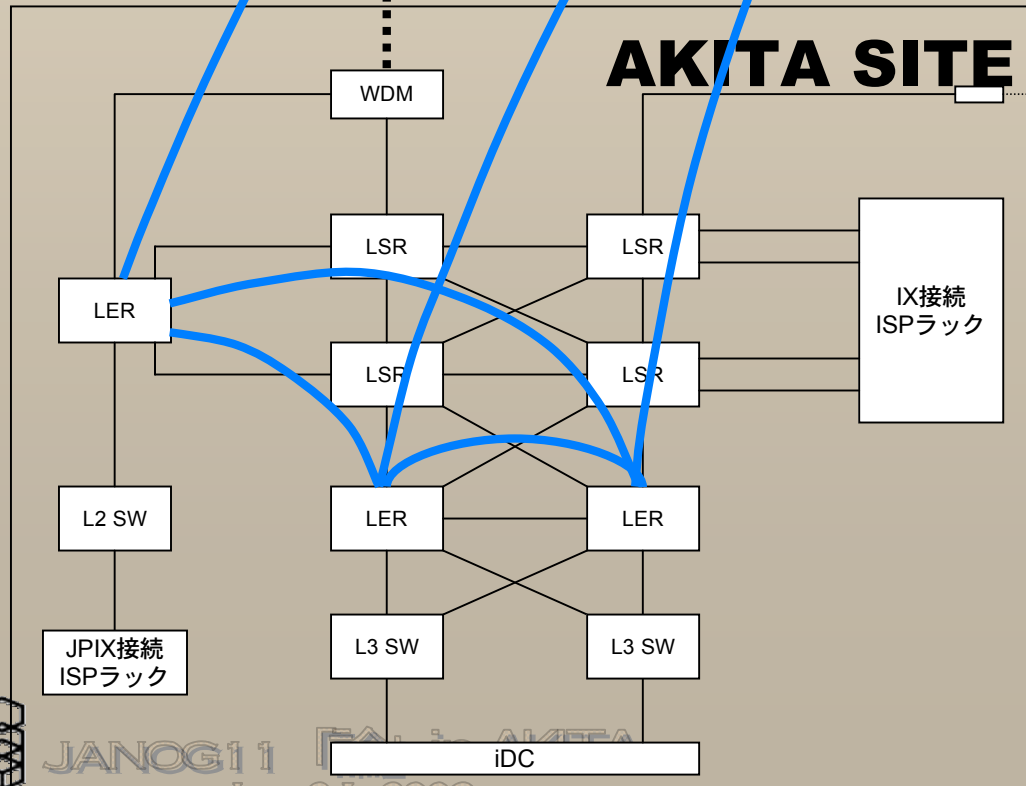
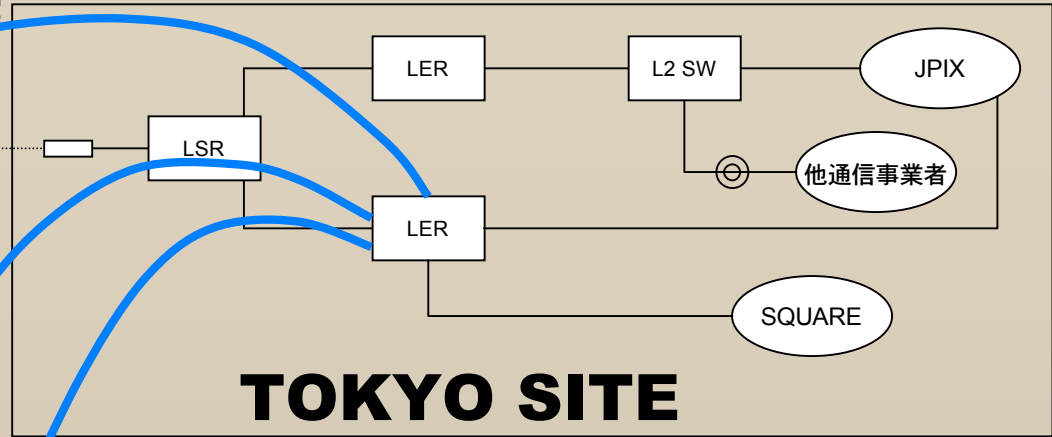
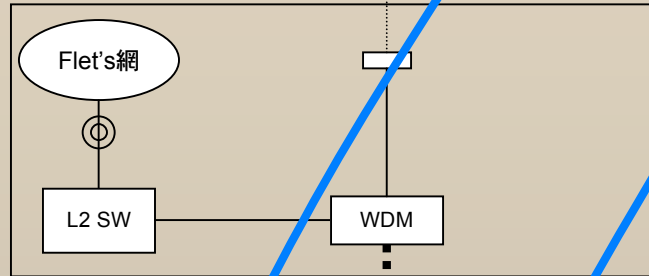
AKITA IX REPORT & あのくupdate

ATNAP Phy. Toporogy

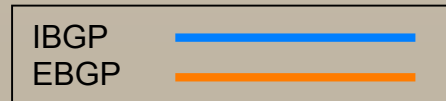


ATNAP Phy. Toporogy

BGP CONNECTION

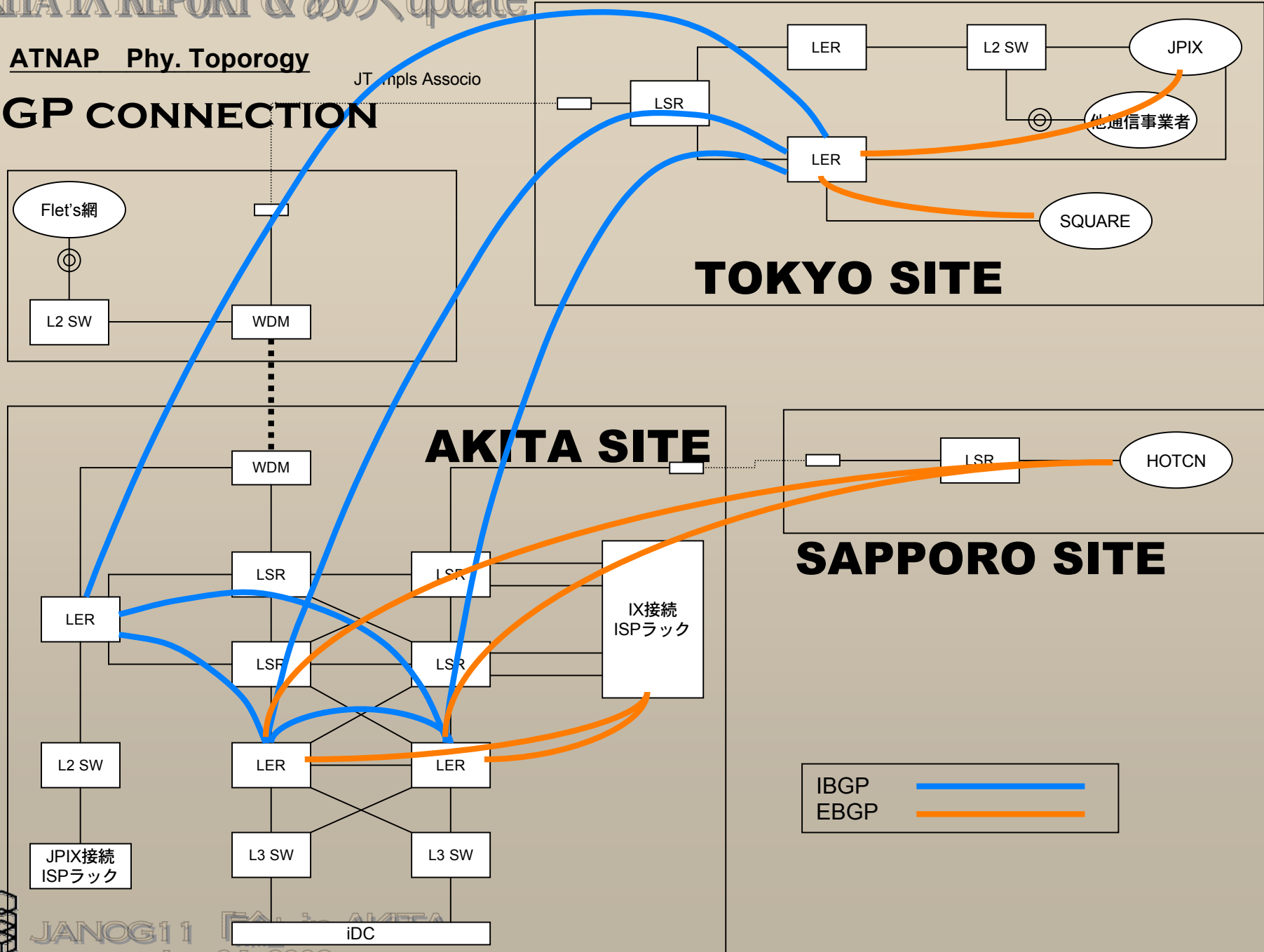


SAPPORO SITE



ATNAP Phy. Toporogy

BGP CONNECTION

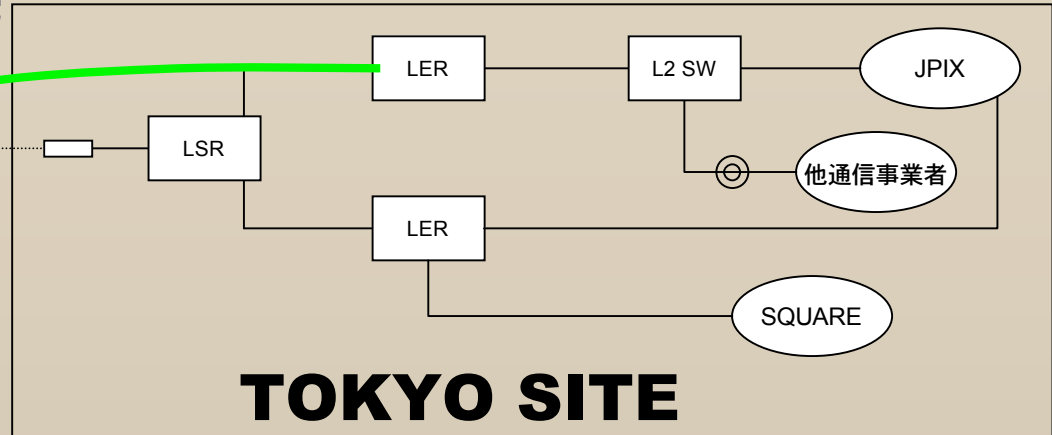
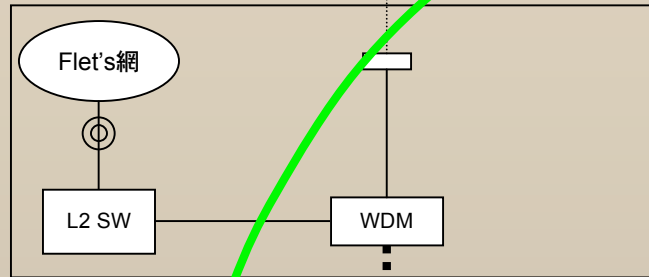


IBGP ————
EBGP ————

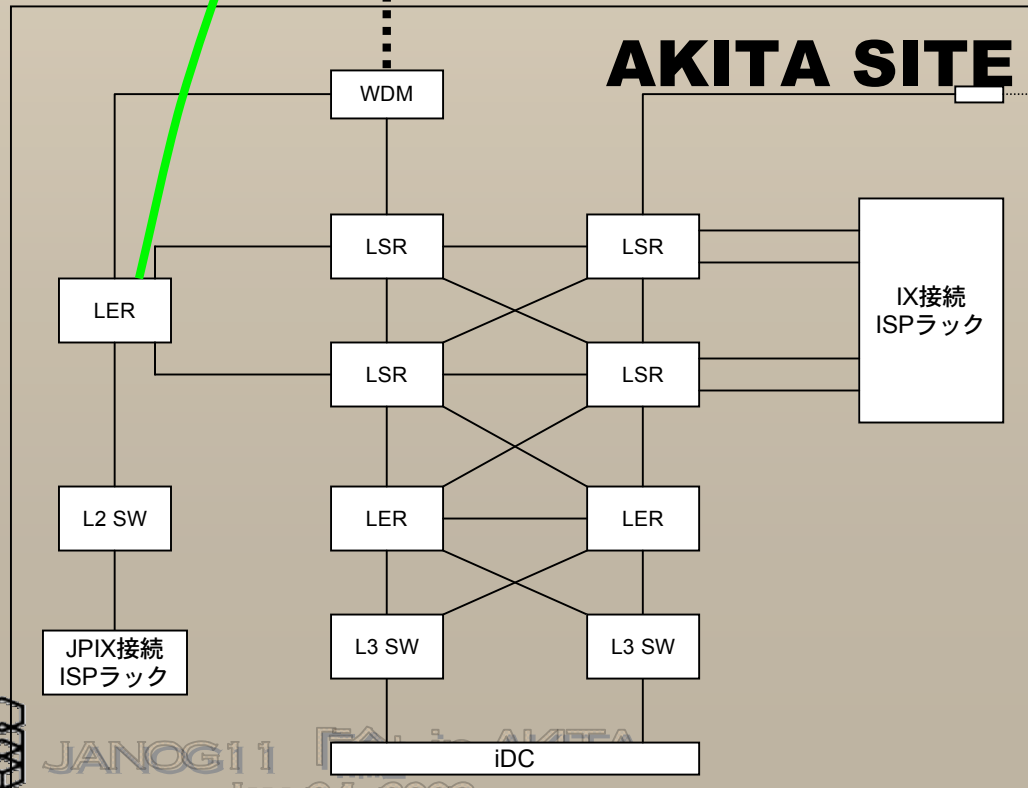
AKITA IX REPORT & あのupdate

ATNAP Phy. Toporogy

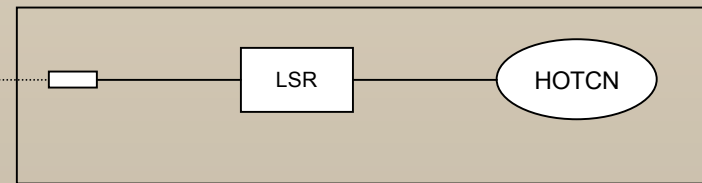
MPLS PATH



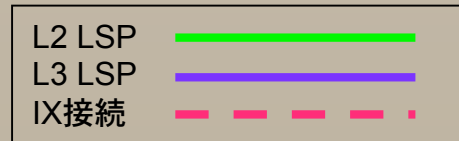
TOKYO SITE



AKITA SITE



SAPPORO SITE



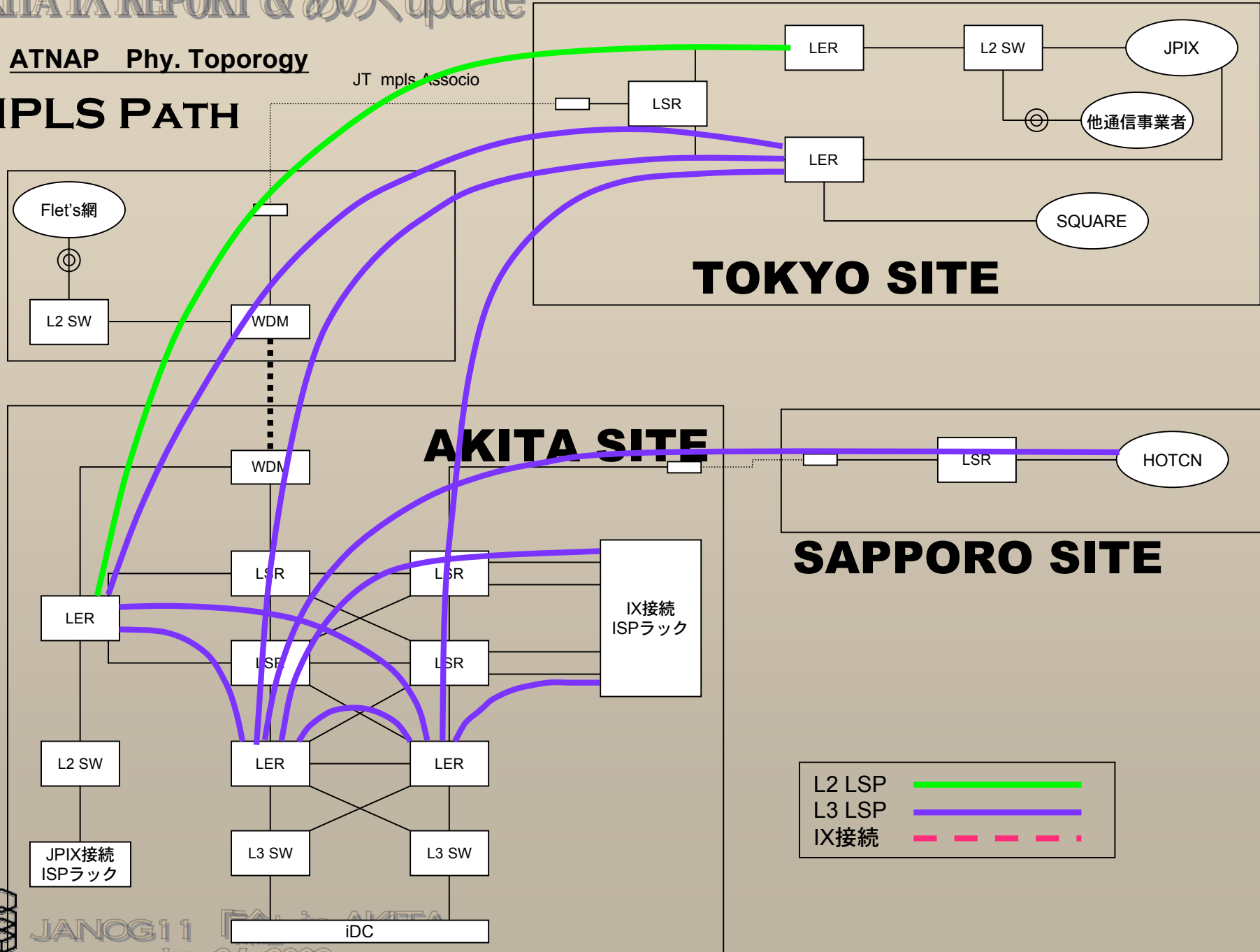
JANOG11

JAN 24, 2003

AKITA IX REPORT & あのくupdate

ATNAP Phy. Toporogy

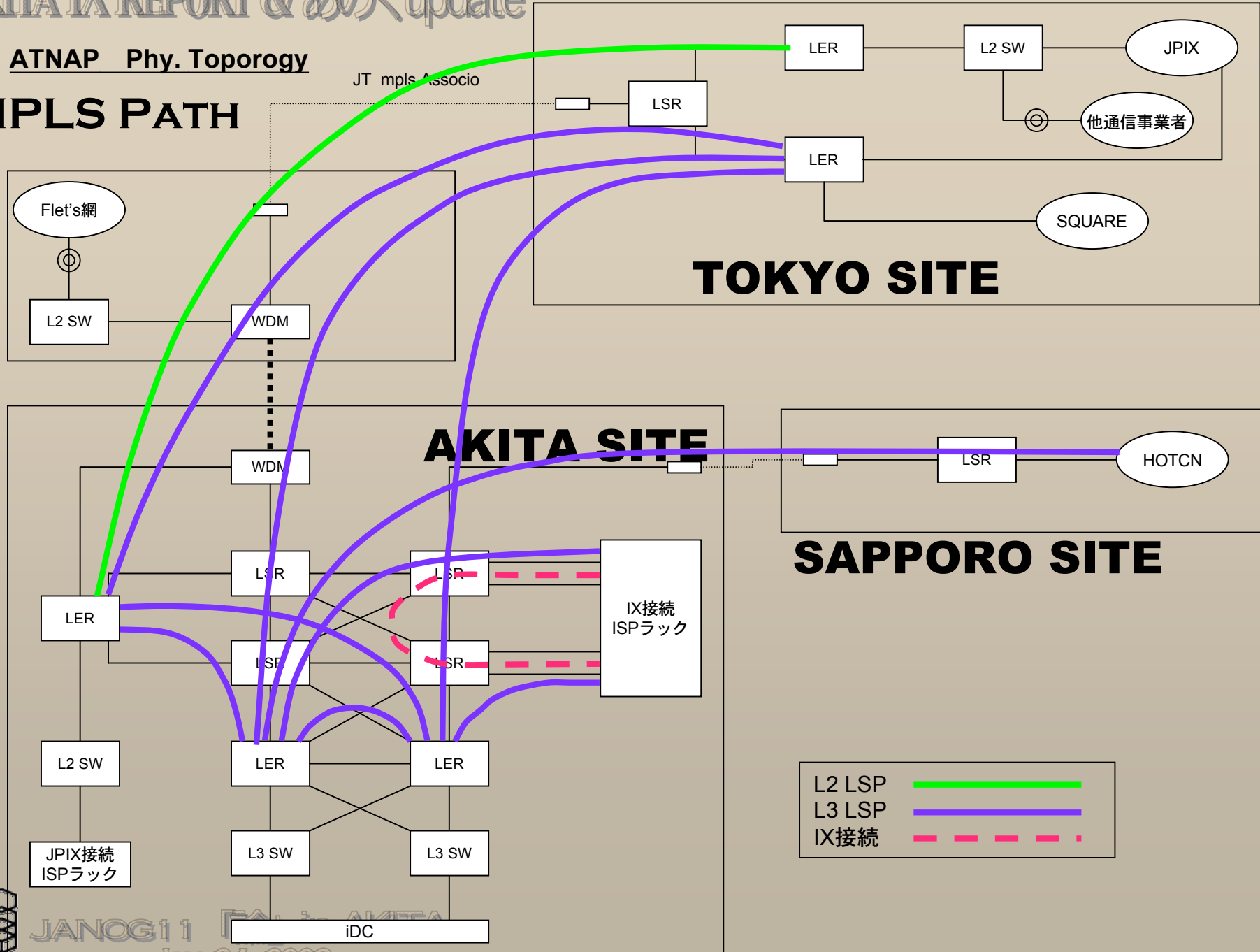
MPLS PATH



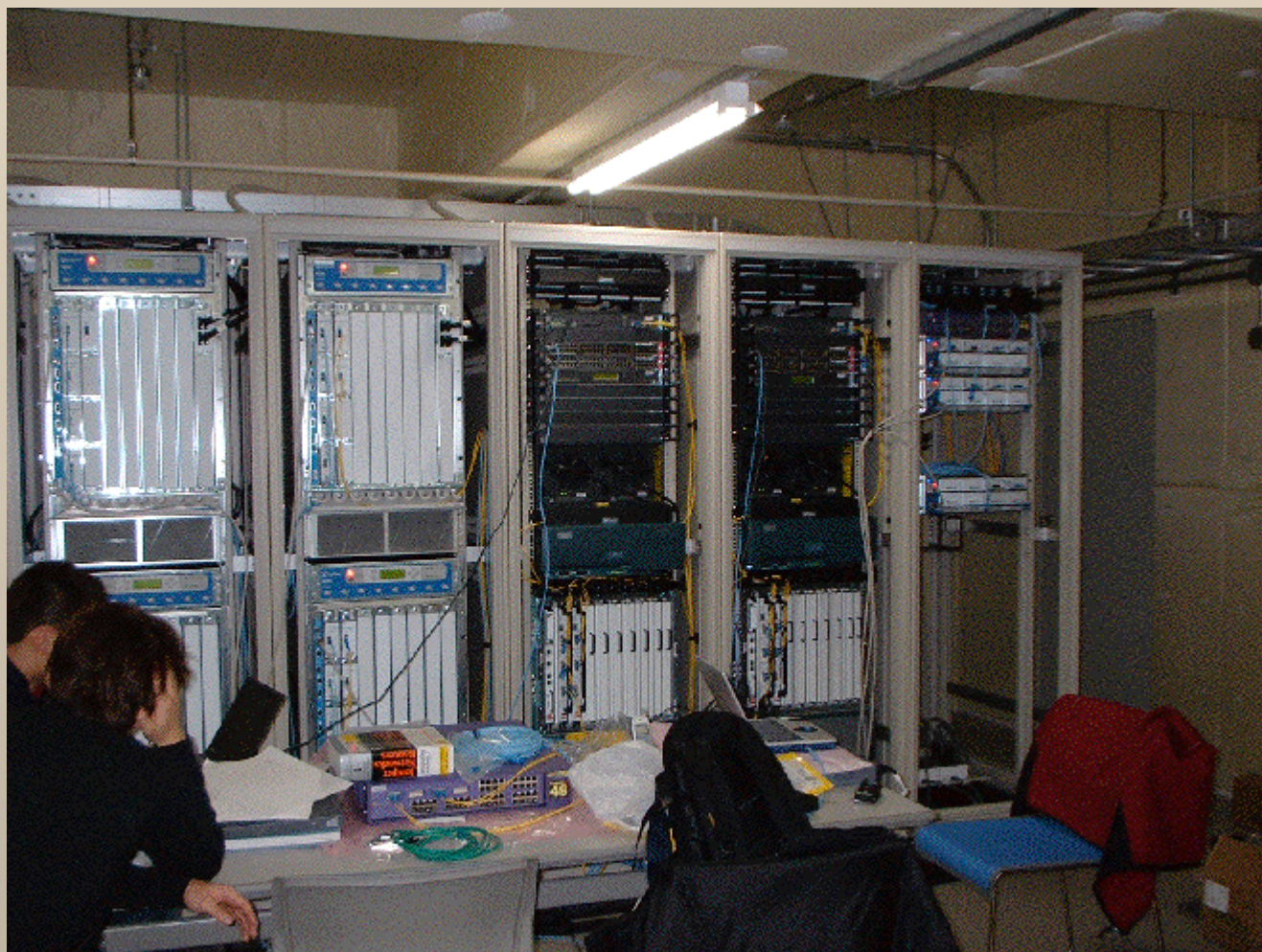
AKITA IX REPORT & あのupdate

ATNAP Phy. Toporogy

MPLS PATH



AKITA IX REPORT & あのくupdate



JANOG11 「論」 in AKITA
JAN. 24, 2003

AKITA IX REPORT & あのくupdate



JANOG11 「論」 in AKITA
JAN. 24, 2003

AKITA IX REPORT & あのくupdate



JANOG11 「論」 in AKITA
JAN. 24, 2003

ANOG update

- What's ANOG?
 - Akita Network Operators' Group
 - Since 1998
 - About 50 members(only?)
 - <http://anog.akita-iri.pref.akita.jp/>
 - JANOG8
 - But.. NOT active :-)

NAMAHAGE proj.

- Network Appliance Dev. proj.
- 地Router?!
- TARGET...
 - MPLS edge device
 - BGP support
 - Under middle range..
 - So.....

NAMAHAGE proj.

- Using Network processor for Traffic management
 - INTEL/Mot.(C-port)/IBM/etc...
 - NPU-IP on FPGA
 - Active Node application
 - Using SearchEngine Co-Processor
 - Cypress/IDT/etc...

NAMAHAGE proj.

- Software
 - Embedded Linux(RealTime Kernel Ext.)
 - AKITA-IRI Original
 - Montavista
 - VxWorks/uTRON based?
 - ZEBRA or ZebOS
 - FPGA core Architecture(HDL/VHDL)

NAMAHAGE proj.

- But..
 - Project halted... :(
- However.. :)
 - Wanna RESTART proj.!
 - Open Hardware
 - Open HDL(using FPGA)
- Restart this project with US?

AkitaIX Report & ANOG UPDATE

THANK YOU! :)