

A Proposal of “IRR Mirroring Policy”

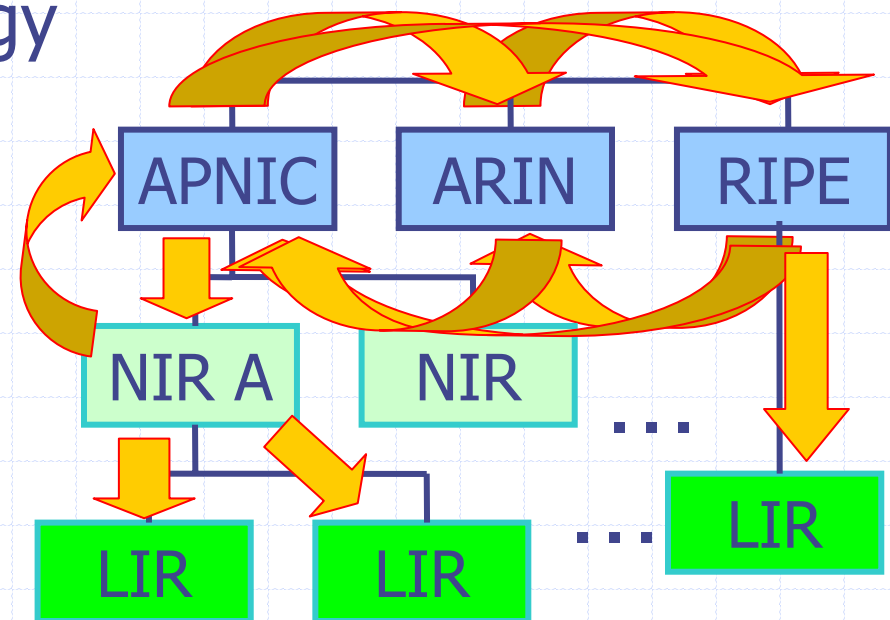


Junichi Matsumoto
JPNIC IRR-planning team
Japan Telecom CO., LTD.

1. Review

IRR hierarchical topology

- ◆ **Consensus at 13th APOPM**
- ◆ An IRR Operational Model, which was like a hierarchical topology of registry system



1. Review

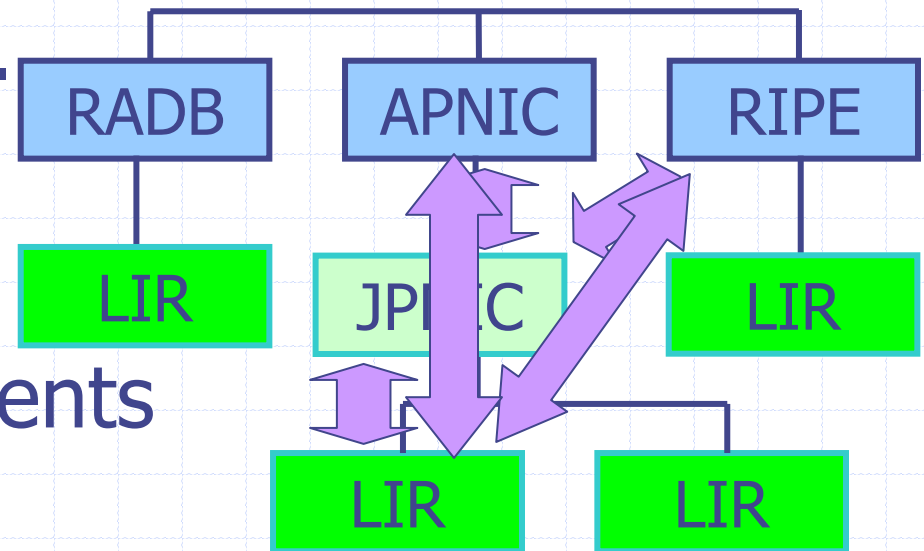
◆ Characteristics of this model

1. RIR/NIR IRR exchange and share their own database.
 - RIR/NIR share “PUBLIC database”
2. LIRs receive the shared PUBLIC database.
 - A LIR needs to mirror just one RIR/NIR

2. Issues

Collecting Issue

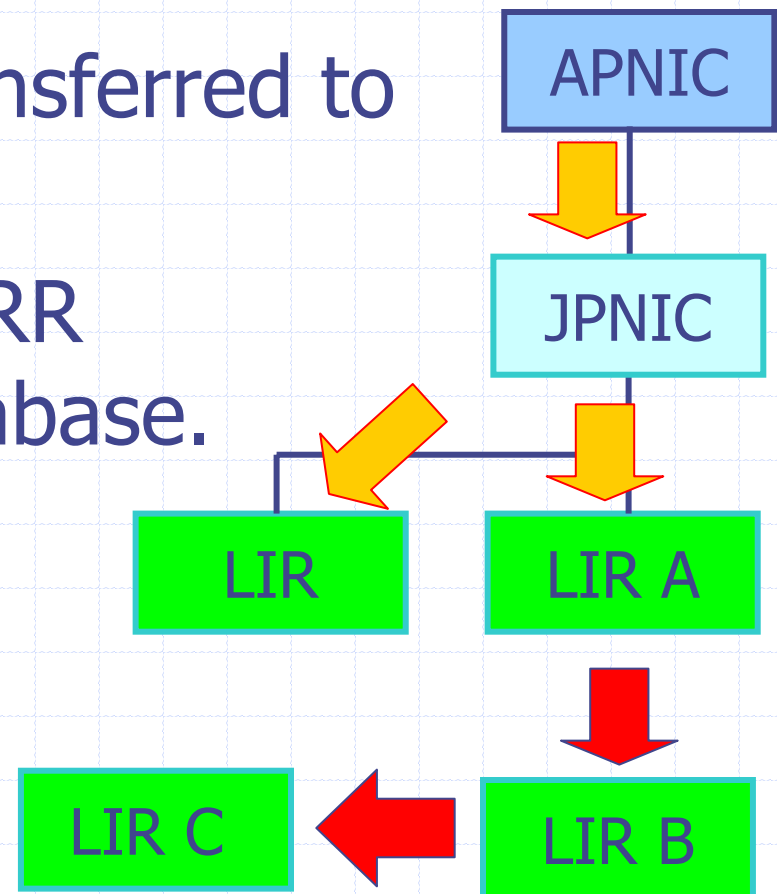
- ◆ An IRR needs negotiations with several IRRs to receive database.
- ◆ Too many bi-lateral agreements are needed!



2. Issues

Distributing Issue

- ◆ IRR's database is transferred to unintentional IRRs.
- ◆ Unknown owner of IRR might abuse the database.



3. Proposal

- ◆ **Define and deploy “IRR Mirroring Policy”**

- ◆ The policy shall include;

1. **RIRs and NIRs exchange and share their PUBLIC database.**
2. **RIR/NIRs transfer shared PUBLIC database to downstream IRR by their decision.**
3. **LIR’s IRR receives PUBLIC database from an upstream IRR, but cannot transfer the database.**

4. Implementation process

◆ Defining and deploying process

◆ 1st Step

Defining the detail of this common policy

◆ 2nd Step

Proposing the common policy at APOPM

◆ 3rd Step

Deploying this policy among RIRs and NIRs.



Discussion