

Proposal of Policy for Mirroring on IRR

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Junichi Matsumoto

Japan Telecom Co., Ltd.

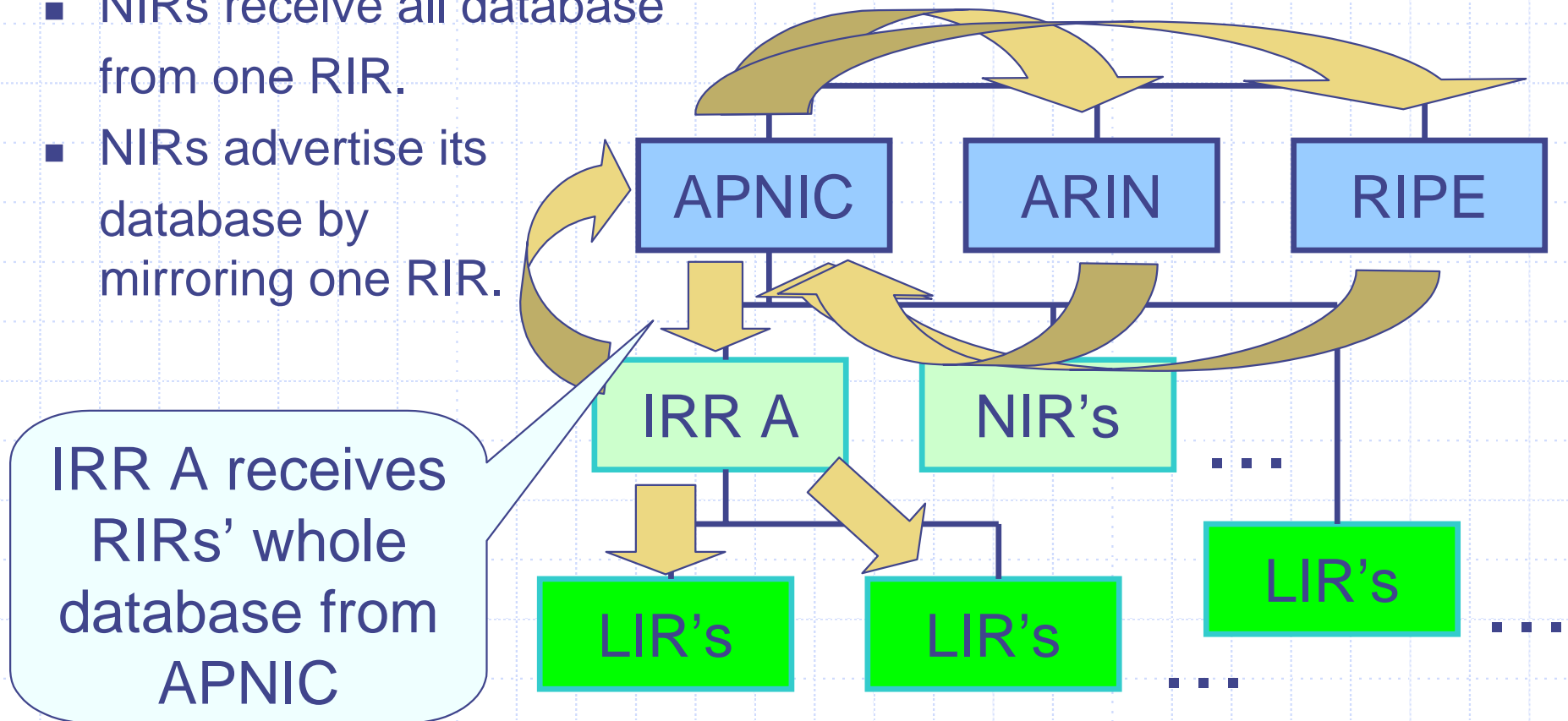
JPNIC IRR-Planning Team

Goal

One of our goals to improve IRR's utility is:

◆ **To realize hierarchical mirroring topology.**

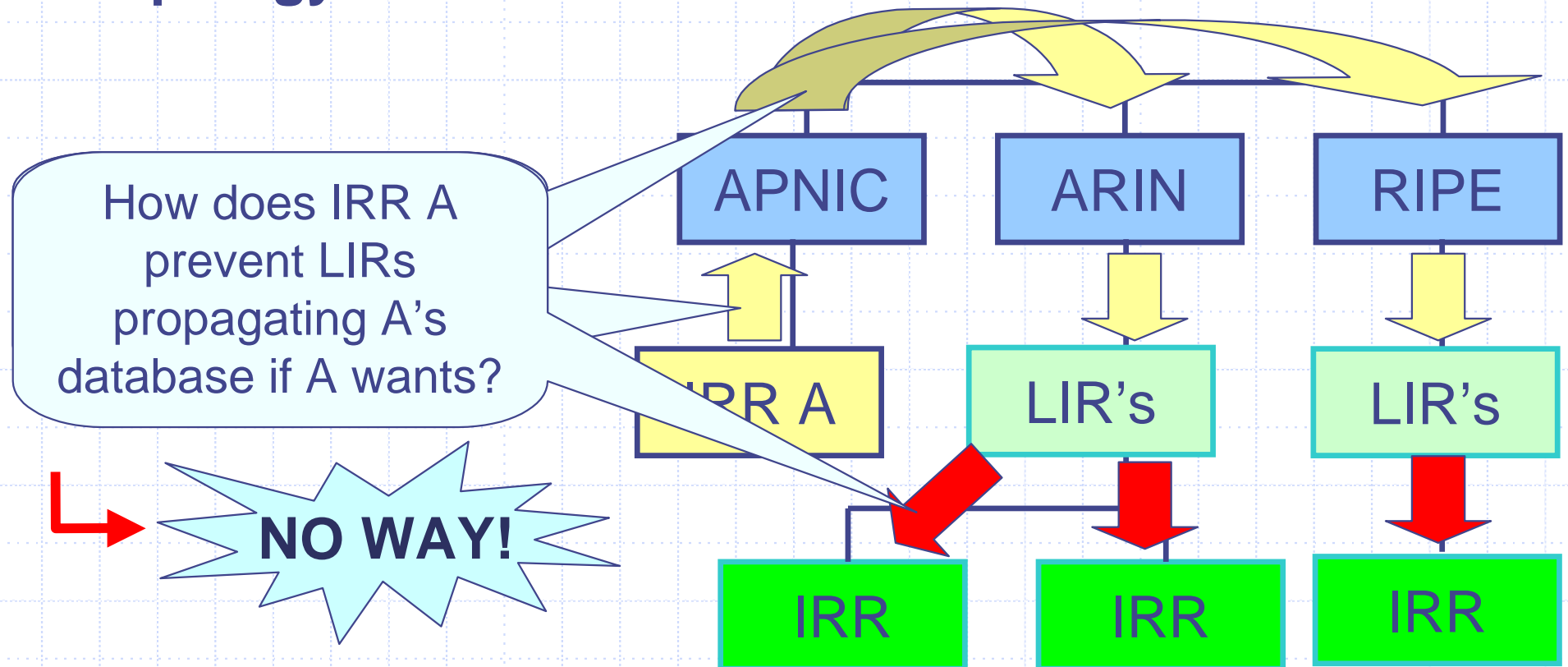
- NIRs receive all database from one RIR.
- NIRs advertise its database by mirroring one RIR.



Problem

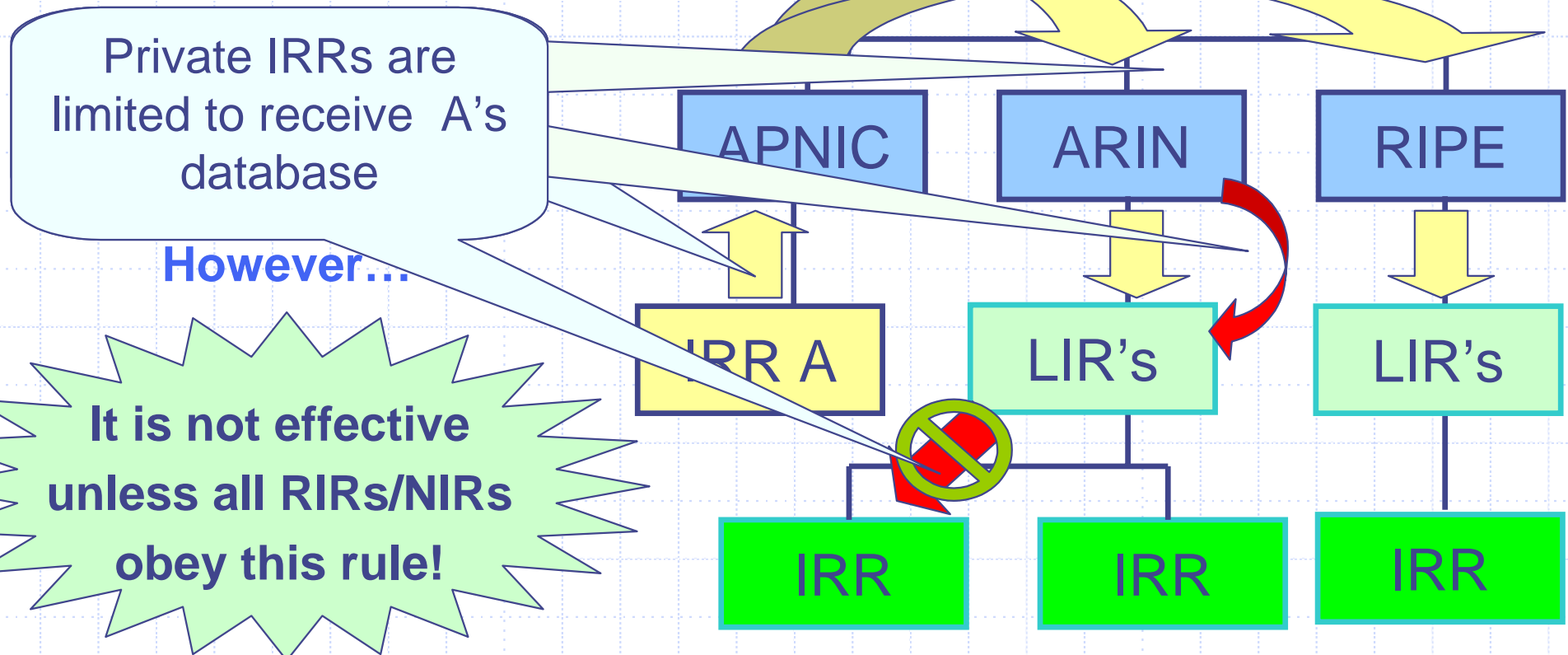
A problem of this topology is:

= An IRR's database spreads unlimitedly under this topology.



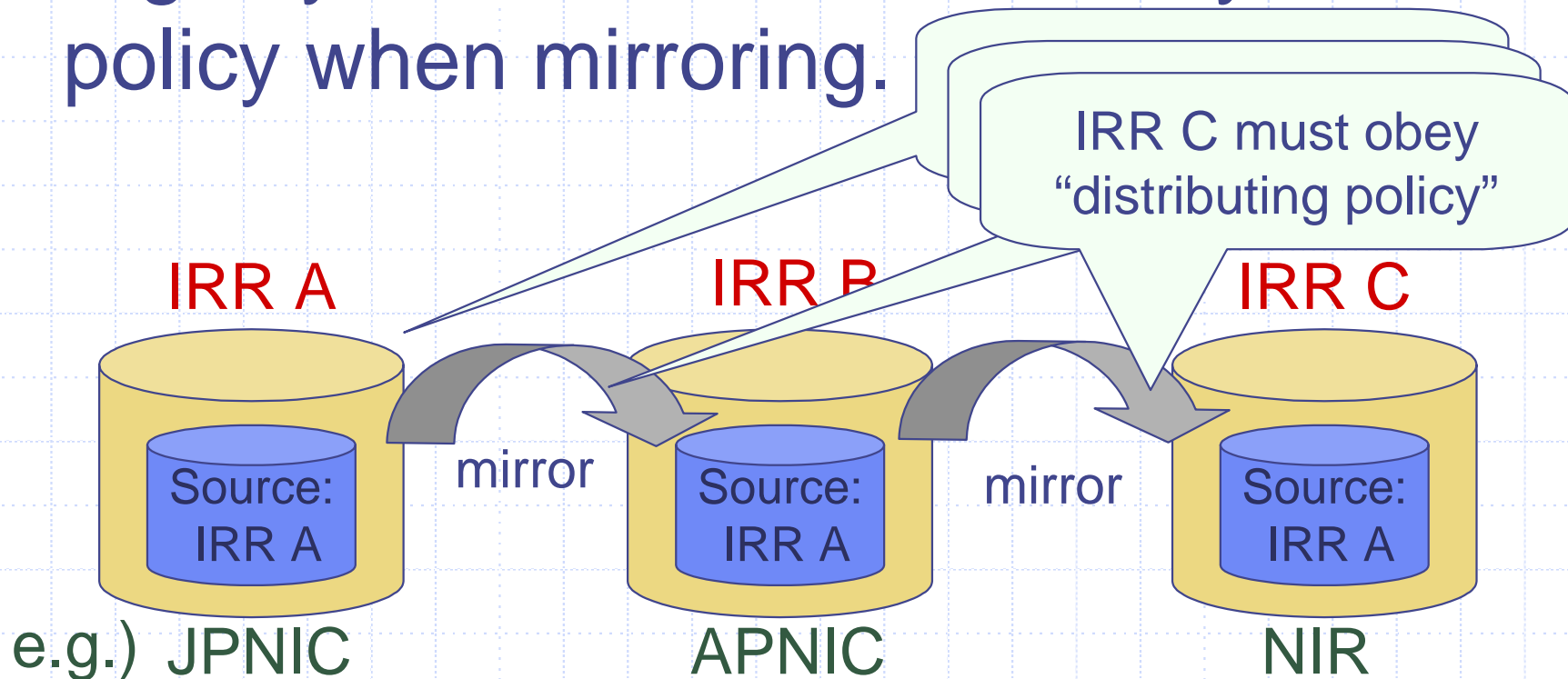
Solution

Therefore...Making a new rule to limit spreading of IRR database
→ **RIRs'/NIRs' IRR limit LIRs' to transfer their databases!**



Proposal

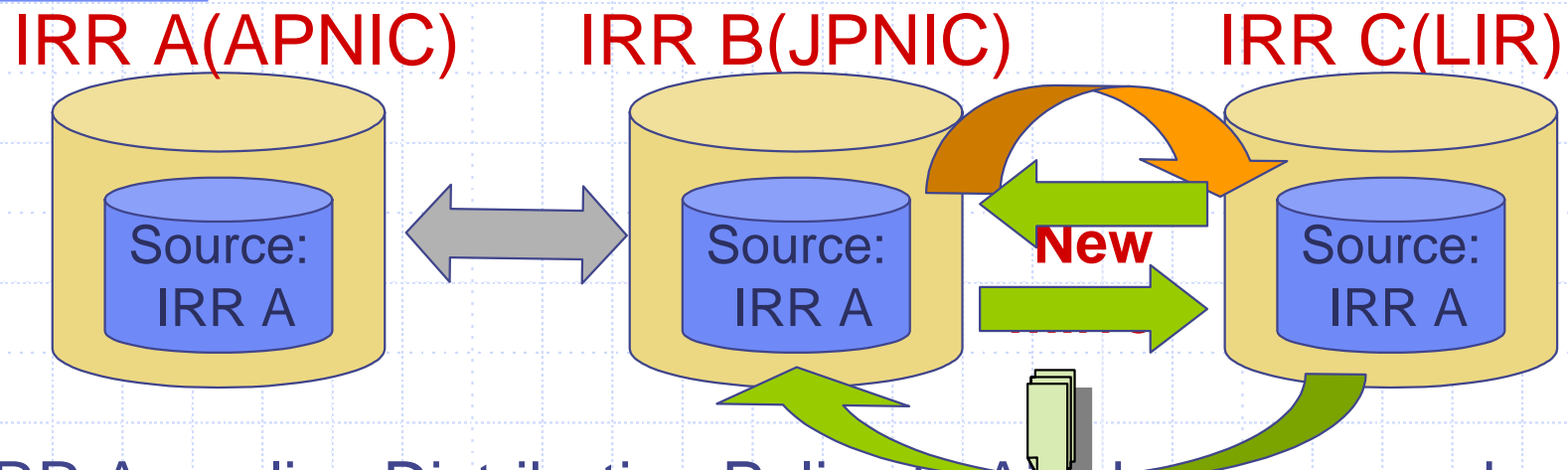
- ◆ A registry managing database should have “Distributing Policy,” and the registry makes other IRRs obey the policy when mirroring.



Distributing policy

- ◆ The right of distributing IRR's database is limited by RIR/NIR. RIR/NIR require LIR to obey this policy when mirroring.
- ◆ This policy is applied if and only if the source of database's IRR wishes.
 - Some IRRs do not care the limitation of spreading database

Process



(IRR A applies Distributing Policy to A's database, and IRR B obeys A's Distributing Policy.)

1. IRR C asks IRR B to mirror and transfer A's database.
2. IRR B informs IRR C that IRR A applies Distributing Policy
3. IRR B requires IRR C to obey Distributing Policy. At this time, IRR B might require IRR C to submit the agreement.
4. IRR B allows IRR C to get A's database by the new mirror.

Sample Policy

JPNIC policy

- JPNIC applies “Distributing Policy” to JPIRR database.
- JPNIC requires JP region’s LIRs’ to submit a letter to obey this policy when mirroring with JPNIC.
- For details:

[http://www.nic.ad.jp/en/ip/irr/
jpirr-mirroring-policy.html](http://www.nic.ad.jp/en/ip/irr/jpirr-mirroring-policy.html)

Implementation

- ◆ This proposal will be implemented until 2nd Quarter 2004 if we reach a consensus.
- ◆ This proposal implemented by all RIRs/NIRs.
 - Do we need to travel other regions' policy meetings to recognize this? 😊

Question?



Mirroring in AP region

Get JPNIC's database via APNIC!

