

Large Space IPv4 Trial Usage Program
for Future IPv6 Deployment
ACTIVITIES UPDATE

Aug. 29, 2001

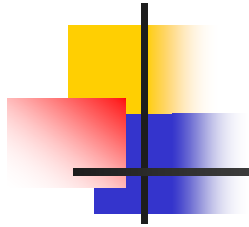
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TOPIC

- What is “Large Space IPv4 Trial Usage Program for Future IPv6 Deployment”?
 - In Past
 - Recalling: Objectives, address space, basic scheme
 - Things have been done since the last meeting.
 - Registry Operation
 - New conditions in Contract
 - Address Leasing Guideline
 - Address Handling and Reporting Scheme
 - Program Timetable
 - The current
 - Started allocation



What is “Large Space IPv4 Trial Usage Program For Future IPv6 Deployment”?



In Past

- “Time-Limited” IPv4 Address Allocation Policy
 - Presented by Dr. Esaki of WIDE Project at the last 11th APNIC Open Policy Meeting
 - Explained Basic Leasing Policy
 - Received no objection at the last AMM (APNIC Member Meeting)



In Past (cont.)

Objectives

- Revitalizing the historically allocated address space
- Providing the challenge field for coming IPv6
 - Boosting up development of the “end-to-end” application
 - Exploring new services and business
 - Transferring trial to IPv6 infrastructure with the practical application and service
 - Forming IPv6 address administration scheme in JP

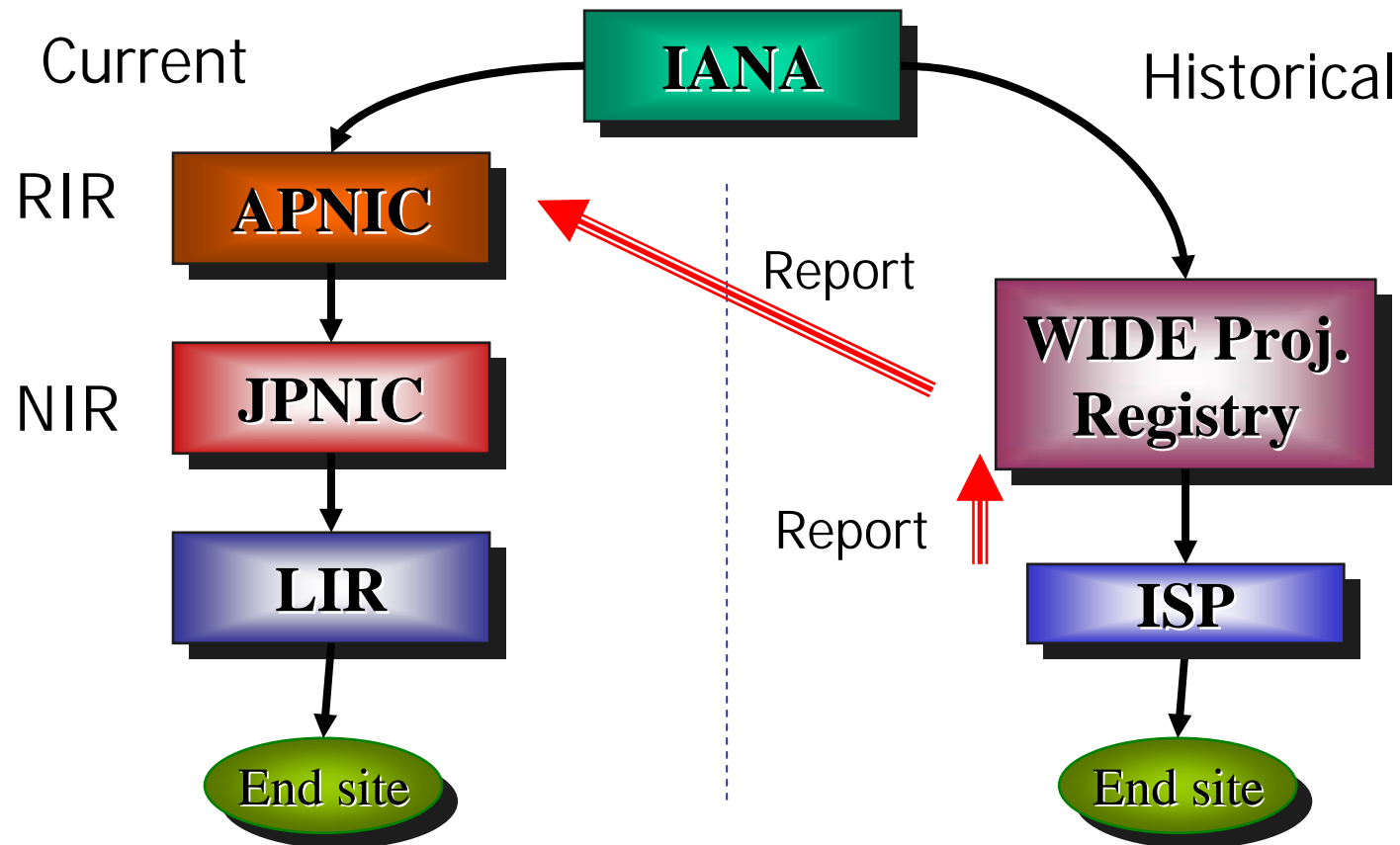


In Past (cont.)

- Address Space Handling
 - The space historically allocated from IANA is utilized for this program.
 - The target address space: NET43 allocated to WIDE Project at present
 - The organization handling the historically allocated address space does the registry operating work to LIR in somehow.
 - Allocation to LIR is restricted in time of use by the contract
 - All address must be returned by the end of 2005 (transfer to IPv6)
 - The returned address will be returned to free block

In Past (cont.)

- Basic Address handling scheme





In Past (cont.)

- At the last meeting,
 - Received No Objection about the proposal at the meeting
 - Promised to report the activities update not only to APNIC but to public

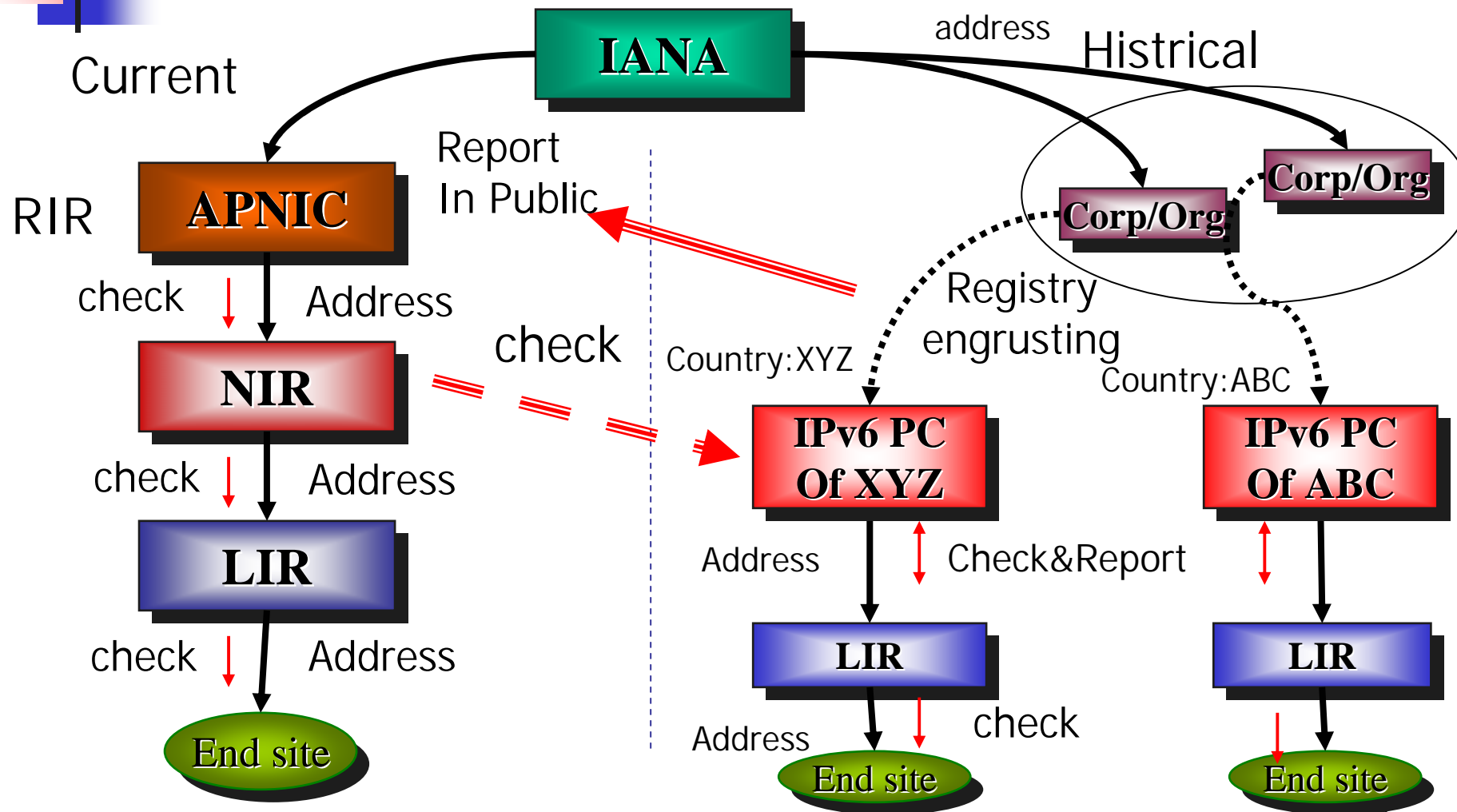


Go on to the next step

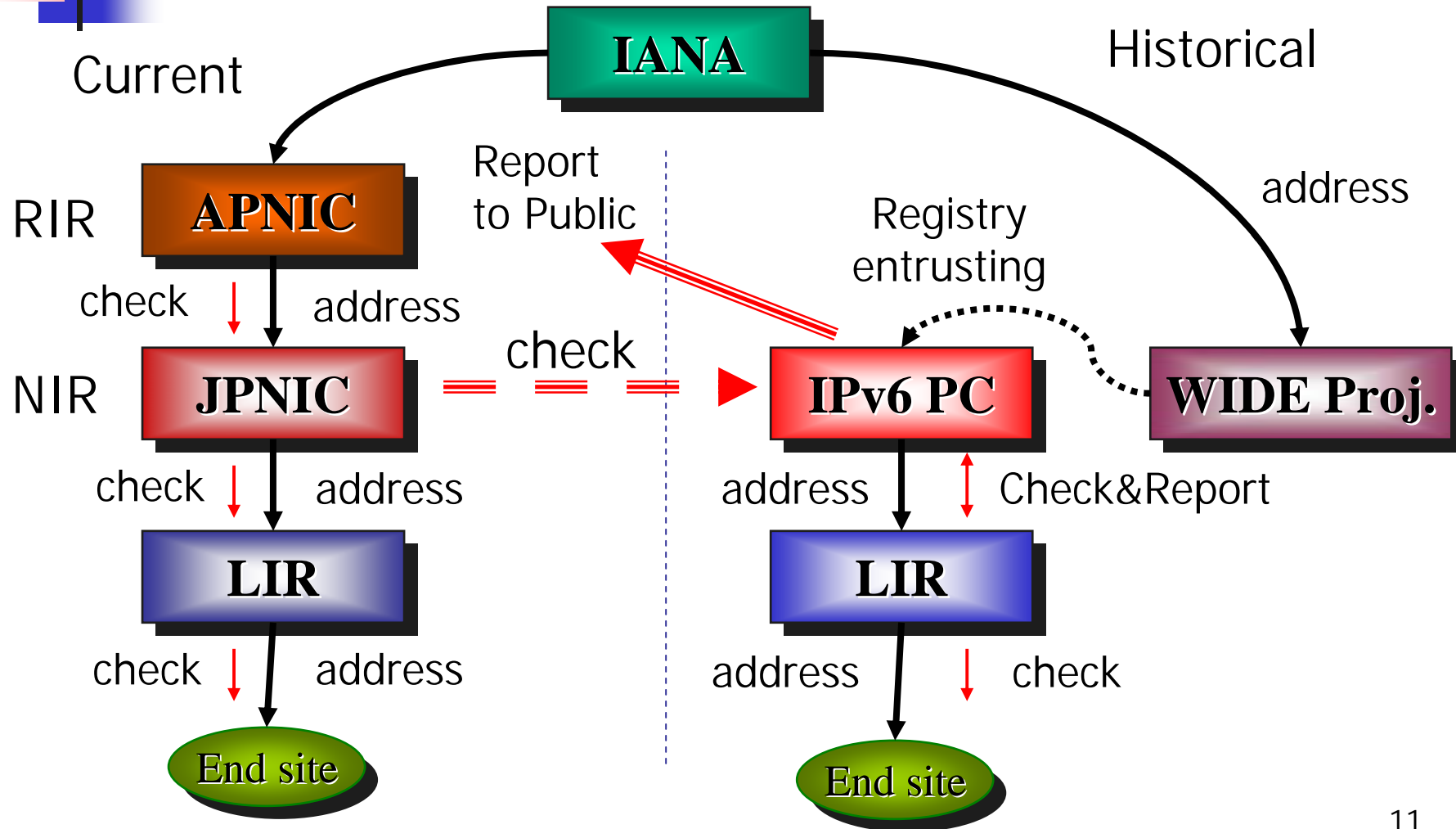
So, we proceed to set up the program.

- Things have been done since the last meeting.
 1. Image the project scheme in General
 2. Define the project scheme in Japan
 - Set the organization entrusted the registry work by WIDE Project
 - Create the address leasing contract
 - Detail the address leasing guideline
 3. Start the test allocation

Project scheme in general



Scheme in Japan: Address Handling and Reporting Scheme





Trial Usage IPv4 Address space handling:

- The space historically allocated from IANA is utilized for this program.
- The organization handling the historically allocated address space entrusts the registry work to LIR with “IPv6 Promotion Council of Japan”.
- Allocation to LIR is restricted in time of use by the contract
- All address must be returned by the end of 2005 (transfer to IPv6)
 - The returned address will be returned to free block
- NIR supervise the registry work of IPv6 PC of Japan



Registry Operation

Registry Work

(entrusted to **IPv6 Promotion Council of Japan**)

- Contract conclusion
- Allocation of address for the need of next 6 months
- Status check of address usage in every three month
- Status check of address assignment after one year past, and then the registry have a right to publicize it and/or a right to get the assigned address back if unused.
- Close relation with JPNIC as well as WIDE Project
- Report to APNIC and at other open opportunities



New Conditions in Contract

- Introduction of “Time-Limited Lease”
 - Contract conclusion is required prior to apply the trial address space leasing.
 - Agree to **become a member of IPv6 Promotion Council of Japan**
 - Conclude the address lease program contract
 - Yearly leasing (automatic extension)
 - **Return** by Dec. 2005
 - * After returning to the original organization, address will be returned to free block
 - Agree to **transfer** the user’s services **to IPv6**
 - Agree to **report** the actual utilization of address in **every three months**



Address Leasing Guideline

Allocation Criteria

- a. Be IPv4 address for this program remaining
- b. Be a member of IPv6 Promotion Council of Japan
- c. Have concluded the program contract (must be a legal entity)
- d. Be the experimental usage with the written plan
 - For IPv6 transition
 - Plan must show using up /16 space within 6 months from the initial allocation.
- e. Have peering connections with four or more providers (or planned to be so within 3 months)



Address Leasing Guideline (cont.)

Cont:

f. Have ability to execute office procedure and technical operation for assignment of addresses

- Details are clipped.
- Subsequent Allocation is **80% rule**.
- **No subleasing** is permitted.
- Order to **return** unassigned addresses if usage is **not satisfy with the condition in RFC2050** after 6 month and a year
- **Erase the Name Server Reverse Lookup Configuration** at the registry and compensate the applicants if violated



Address Leasing Guideline (cont.)

- In the same manner, assignment criteria has been set. (details are clipped)
- **This policy will comply with the existing address policy** which keeps conservation of address and aggregation of routing information.
 - RFC2050, RFC1519(CIDR), RFC2008



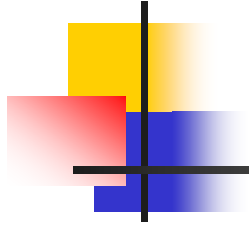
Program timetable

- First phase :
 - July 1, 2001 - December 31, 2001
 - With the part of 43/8
- Second phase :
 - January 1, 2002 -December 31, 2002
 - Examination of extending the program to another IPv4 address space
- The allocated IPv4 address space must return before December 31, 2005.



Just started!

- Started Allocation:
 - To three pilot cases in July 2001, prior to official start on August
 - Now, receiving applications



Thank you for listening,
and We will update you next time as well.

Any question and comment?