

Database Implementation Working Group

Ginny Listman
Working Group Chair



Agenda

- * ERX Status
- * Database Cleanup
- * Authentication
- * Referral Server in WHOIS

ERX Timeline

START:
Old Class B
IP Network
Transfer

Completed:

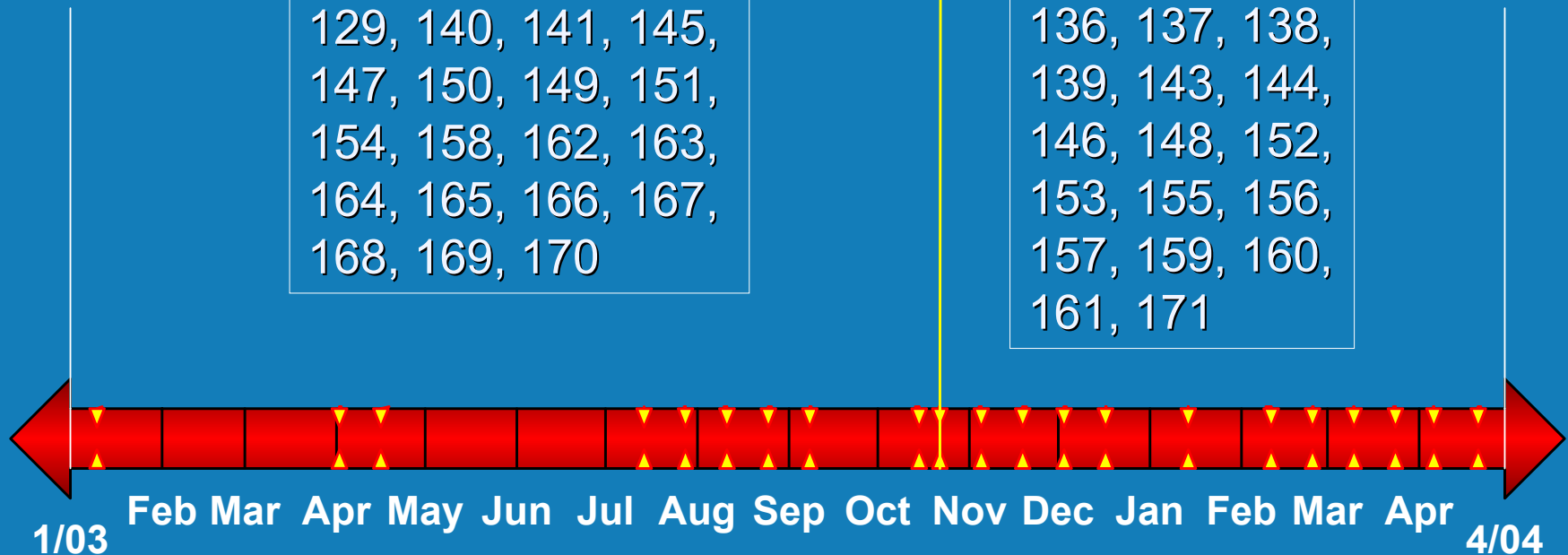
129, 140, 141, 145,
147, 150, 149, 151,
154, 158, 162, 163,
164, 165, 166, 167,
168, 169, 170

Today

Scheduled:

128, 130, 131,
132, 134, 135,
136, 137, 138,
139, 143, 144,
146, 148, 152,
153, 155, 156,
157, 159, 160,
161, 171

END:
Old Class B
IP Network
Transfer



<http://www.arin.net/registration/erx/index.html>

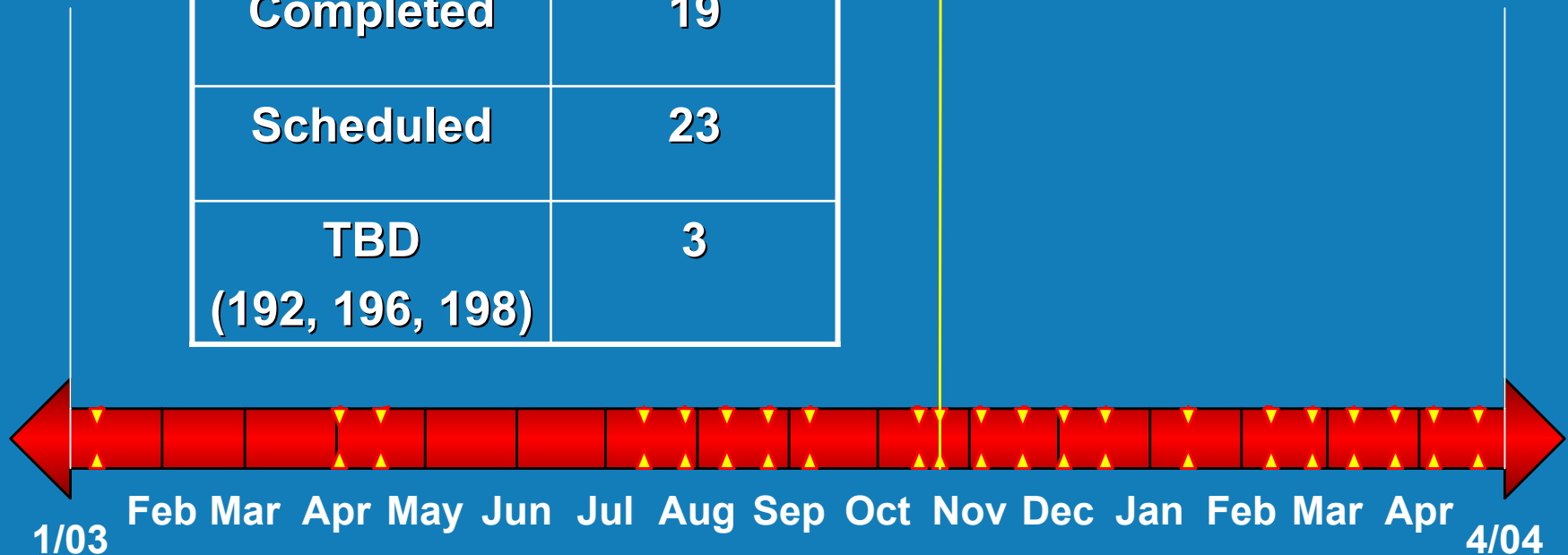
ERX Timeline

START:
Old Class B
IP Network
Transfer

| Status | Number of /8s |
|------------------------|------------------|
| Completed | 19 |
| Scheduled | 23 |
| TBD (192, 196, 198) | 3 |

Today

END:
Old Class B
IP Network
Transfer



<http://www.arin.net/registration/erx/index.html>

Database Cleanup

* What it should be:

- ▶ 100% of orgs should have POCs
- ▶ Reassignments without in-addr name servers should be simple reassignments

* What it is:

- ▶ 79% of orgs have POCs
 - ▶ 16% of orgs with direct allocations/assignments have POCs
 - ▶ 87% of orgs with reassignments/reallocations only have POCs
- ▶ 30% of networks are detailed reassignments without in-addr name servers

Orgs without POCs

- * **ARIN promoting POCs from resources if:**
 - ▶ All resources are sub-delegations
 - ▶ Resource POC handles are the same
- * **ARIN will send out notification to directly assigned or allocated resource POC for any org without POCs**

Should It Be a Simple Reassignment?

- * **Downstream network must:**
 - ▶ Be a reassignment (no reallocations)
 - ▶ Not have distinct name servers from parent
- * **Requestor must not desire to retain any POC linkage**
- * **Reassignments with missing and/or invalid information, e.g. `nomailbox@nowhere`**

Converting Detailed to Simple

* Provide one of the following:

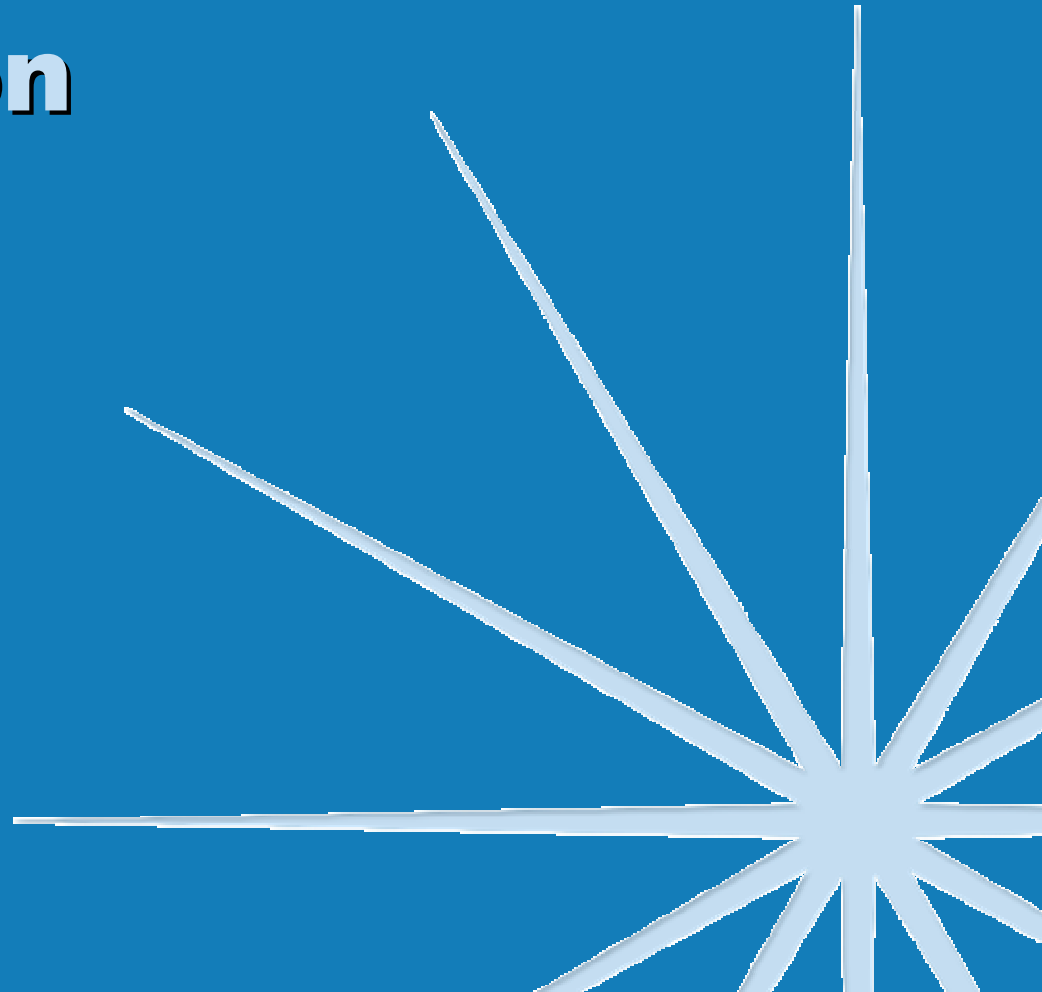
- ▶ List of downstream detailed-reassignment Net Handles
- ▶ List of upstream allocations for which ALL detailed-reassignment networks would be converted
- ▶ Org ID for which all allocations' downstream detailed-reassignment networks would be converted

* No additional criteria will be accepted

Ad Hoc Process

- * Upon request, ARIN will provide a list of all "candidate detailed-reassignments"
- * ISP provides handles to be converted
- * Customer records will be created without POCs
- * Org records will be removed
- * POC records may be orphaned and be retained for 180 days

Cryptographic Authentication



Overview

- * **Goals**
- * **Requirements**
- * **Scope**
- * **System at deployment**
- * **Progress**

Goals

* Improve legitimacy of inbound mail

- ▶ Is it source-authentic?
- ▶ Is it unaltered?

* Improve integrity of database

* Improve authenticity of outbound information

- ▶ Did ARIN issue it?
- ▶ Is it unaltered?

Requirements

- * **Verify sender identity**
- * **Ensure unaltered content**
- * **Improve customer confidence**
- * **Demonstrate stewardship**
- * **Adhere to applicable IETF RFCs**
- * **Follow industry BCPs**
- * **Permit future extensibility**

Scope of current project

* Secure template-based registration

- ▶ Inbound templates
- ▶ Inbound prose requests

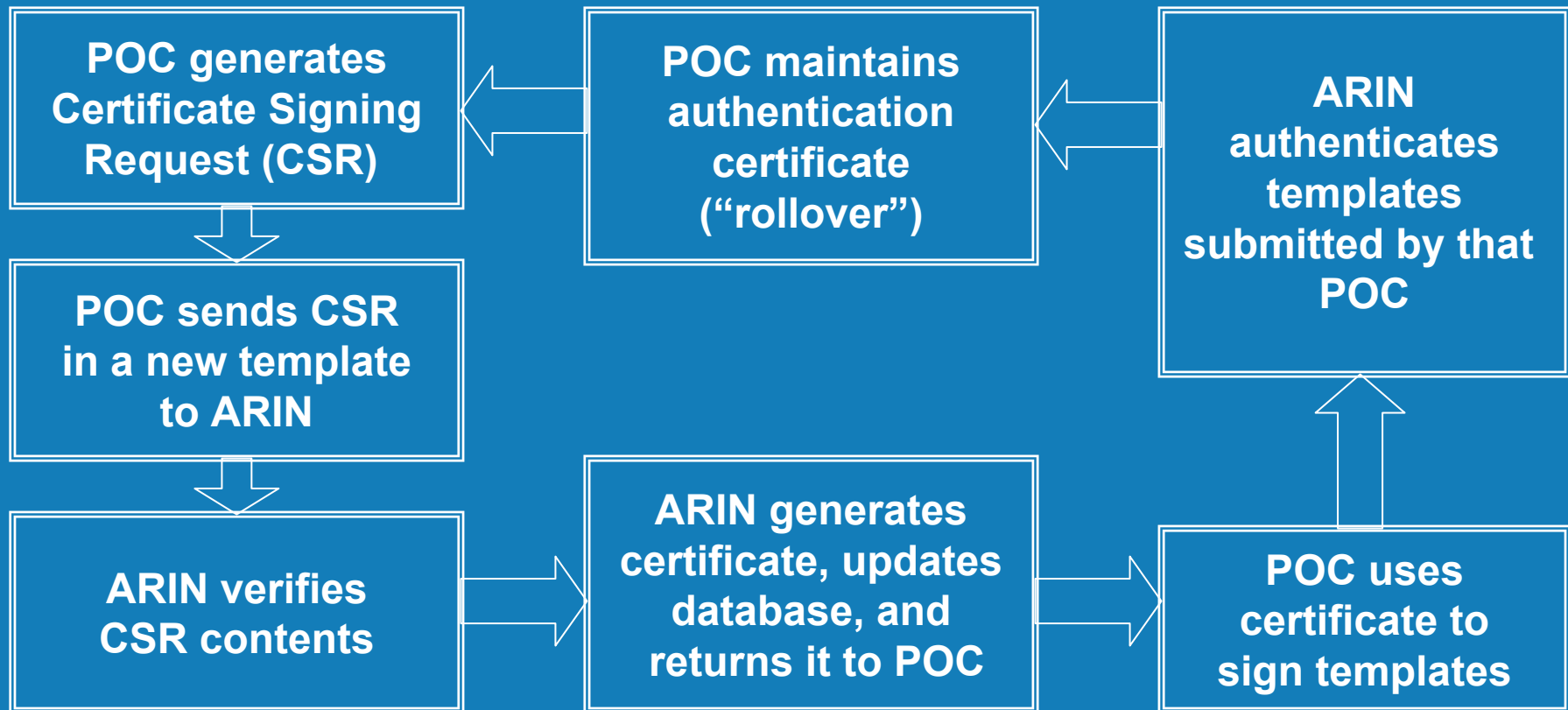
* Establish ARIN CA

- ▶ Identification procedures
- ▶ Workflow

* Secure outbound communication

- ▶ E-mail responses
- ▶ Certificate issuance

System at Deployment



Beta Testing

* Certification

- ▶ Applying for a certificate
- ▶ Generating certificates
- ▶ Installing certificates

* Using certificates

* Revocation and Renewal

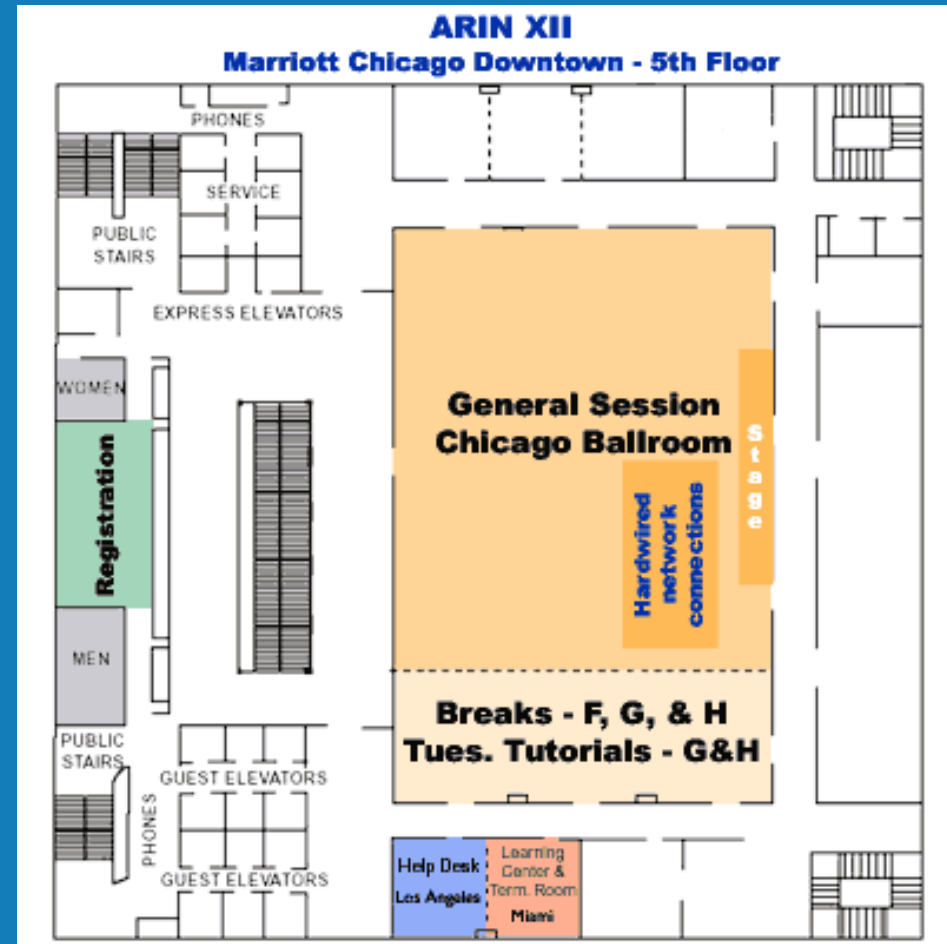
See For Yourself!

Two demonstrations:

Wednesday 5:00PM

Thursday 5:00PM

Learning Center
(Miami)



Thank You