

ARIN
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VIRTUAL MEETING

ARIN IRR Update

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Internet Routing Registry (IRR) Project Overview



- New IRR project started 2019 Q2
- Community stakeholder involvement
- Deployed 10 June 2020
- Now two processes for creating objects
 - IRR-email using existing email template processor
 - IRR-online using ARIN Online (new)

IRR Update Process



- IRR Data Migration
- Creation of new services for validated IRR entries within ARIN
- Integration of IRR into ARIN Online:
 - Development of user interface in ARIN Online for creating and editing new IRR objects

IRR Migration



- All existing objects were migrated into one of two datasets:
 - **ARIN**: these objects are validated as meeting ARIN's requirements
 - **ARIN-NONAUTH**: unvalidated objects
- Validation included:
 - Verification the organization is authorized to create the record
 - Verification the registration associated with the object is under an (L)RSA

Ongoing IRR-Email Integration



- The migration process runs multiple times per day to move objects created or updated in IRR-email to the new database
 - Validated objects will be moved to the ARIN data set.
 - Unvalidated objects will be moved to the ARIN-NONAUTH data set
- No new maintainers are accepted in the IRR-email system

Initial Deployment for Authenticated IRR Objects



- Users can now create, update,* & delete the following object types via ARIN Online:
 - route/route6
 - aut-num
 - as-set/route-set
- Existing users can continue using the IRR-email interface

*Only IRR objects created in ARIN Online can be edited in ARIN Online

Important Notes about IRR



- Existing users who continue using the IRR-email interface **must only** use the IRR-email interface
- When submitting objects using the IRR-email interface, users must use ARIN as the source
- When the first IRR transaction is made via ARIN Online, access to IRR-email will be removed
- Existing users of the IRR-email interface must acknowledge a warning message before being allowed to continue in ARIN Online

Differences in Service Between Authenticated/Unauthenticated IRR Objects



- Unauthenticated IRR Objects
 - Can only be modified using email templates
 - No new maintainers will be added to the email template system
- Authenticated IRR Objects
 - Existing maintainers can continue to use email templates
 - ARIN Online can be used by:
 - Existing maintainers
 - New maintainers
- Both authenticated/unauthenticated will be published via FTP and NRTM

Near Real-Time Mirroring (NRTM)

- ARIN now offers two NRTM streams using existing systems:
 - ARIN: validated IRR data
 - ARIN-NONAUTH: unvalidated IRR data
- Current users were notified of the need to make configuration changes to pull from **both** of these streams to continue receiving all ARIN IRR data
- The existing “ARIN” NRTM stream had its serial number reset on deployment (10 June 2020)
- All Orgs using NRTM **must** use the new serial number

FTP



- ARIN now offers two FTP sources:
 - ARIN: validated IRR data
 - ARIN-NONAUTH: unvalidated IRR data
- Current FTP users need to update their configurations to pull from both ARIN-NONAUTH and ARIN sources

Future IRR Functionality



- Creation of an Application Programming Interface (API) to manage IRR records (EOY 2020)
- IRR development is scheduled to continue throughout 2020 with a dedicated team

Feedback

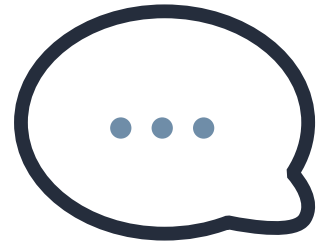


- Why are my objects considered “NONAUTH”?
 - Not covered by a Registration Services Agreement (RSA)
 - Resources are not associated with correct OrgID in the ARIN database
 - Maintainer not associated with correct OrgID
- Updates are not fast enough
 - Changed to once every 30 minutes

???

Thank you.

Any Questions?



Discussion

