



ICANN



IANA Status Report

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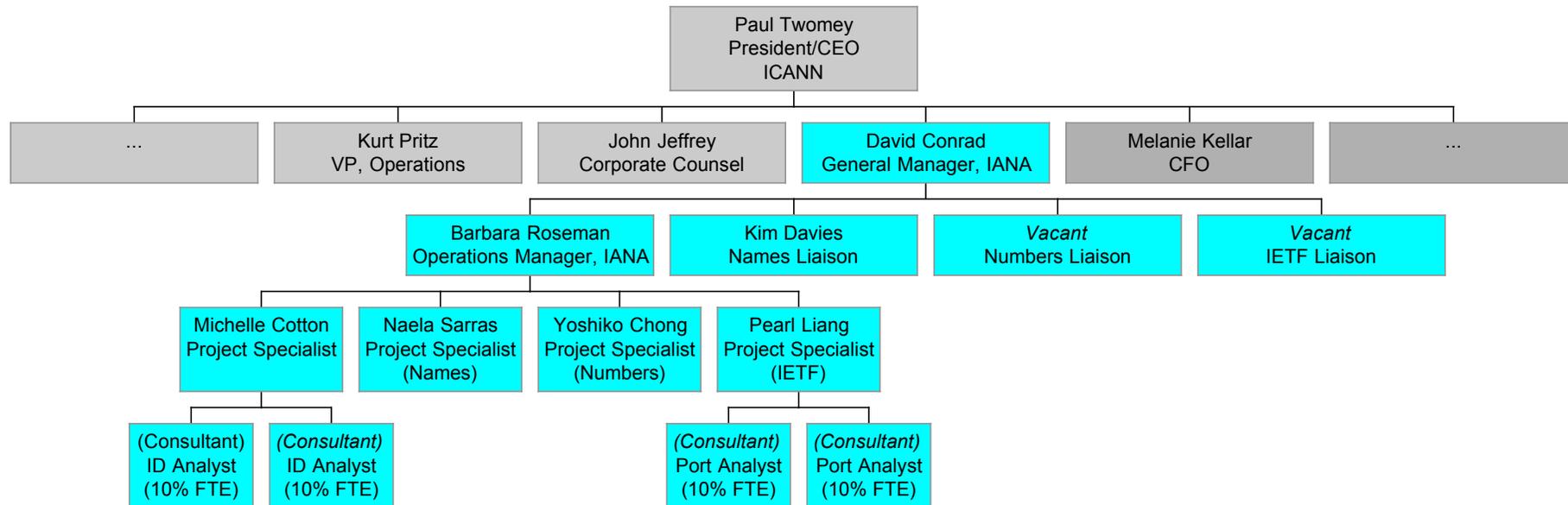
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IANA General Manager

IANA Functions

- Management of resources:
 - IPv4, IPv6 and Autonomous System Number Registries (in cooperation with the Regional Internet Registries):
 - Protocol parameter registries (in cooperation with IETF/IESG/IAB):
 - Internet Drafts and RFC standards process;
 - Identifier registry creation and maintenance;
 - Ports and Personal Enterprise Numbers (PENs) assignments.
 - Maintain .ARPA and .INT domain registrations and registries:
 - Root zone management:
 - Maintain Top Level Domain registration and zone delegation information
 - Validate and process TLD change requests;
 - Verify minimal proper DNS server requirements;
 - Maintain public “Whois” and internal delegation process/procedure information for TLDs.

IANA Organization



Current Activities

- Administrative
 - Migration to RT Ticketing system
 - Archiving IANA data
 - Paper → PDF → OCR → Document Management System
 - IANA web redesign
 - Automated Report Generation
- IANA Process Automation
 - “eIANA”
 - Using NASK software specified by CENTR
 - PEN allocation
- IPv4 Address Allocation Registry Cleanup
 - See draft-huston-ipv4-iana-registry
- 24x7 Call Center support
- Hiring
 - Numbers Liaison, IETF Liaison

New Home Page (Proposal)



SELECT A NAVIGATIONAL TRACK: [About IANA](#) [Domain Names](#) [Number Resources](#) [Protocol Assignments](#)

Welcome. For the latest updates to the IANA, subscribe to our [RSS FEED](#).

[SITE MAP](#) [LANGUAGES](#)



The Internet Assigned Numbers Authority

The Internet Assigned Numbers Authority (IANA) is responsible for the global coordination of the DNS Root, IP Addressing, and other Internet Protocol Resources. Our site is organized into three primary navigational tracks:

| Domain Names | Number Resources | Protocol Assignments |
|---|---|--|
| <p>IANA manages the DNS Root Zone (assignments of ccTLDs and gTLDs), as well as the .int registry, and the .arpa zone.</p> <ul style="list-style-type: none">Root Zone Management.int Registry.arpa RegistryIDN Practices Repository | <p>IANA coordinates the global IP and AS number space, and allocates these to Regional Internet Registries.</p> <ul style="list-style-type: none">IP Address AllocationAS Number AllocationInternet Abuse FAQ | <p>IANA is the central repository for protocol assignment registries used in many internet protocols.</p> <ul style="list-style-type: none">Protocol RegistryApply for assignment |

Search The Site

Enter a domain name, IP Address, RFC Number or keywords to quickly find the relevant information on the IANA site.

IANA. THE INTERNET ASSIGNED NUMBERS AUTHORITY - 4676 Admiralty Way, Suite 330 - Marina del Rey, CA 90292. - [CONTACT US](#)

New Root Management Page (Proposal)



New Protocol Parameters (Proposal)



IANA - IANA Matrix

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Internet protocol and parameter requests



IANA Registry Matrix

This page provides information about the procedures for assignments and registrations in IANA registries. These registries can be found on the [IANA website](#).

PROTOCOL ASSIGNMENTS

| | | | | | | | | |
|---|---|--------------|---|---|---|---|---|--|
| A | B | C | D | E | F | G | H | |
| I | J | K | L | M | N | O | P | |
| Q | R | S | T | U | V | W | X | |
| Y | Z | MOST POPULAR | | | | | | |

APPLICATION FORMS

[SITE MAP](#) [LANGUAGES](#)

| A | RELATED REGISTRY | DEFINING RFC | REGISTRATION/ASSIGNMENT PROCEDURES | APPLICATIONS |
|---|---|--------------------------|---|-----------------------|
| | Access-Types | | | |
| | Access-Types | RFC-freed-mime-p4-04.txt | Multiple registration procedures. See section 2 of RFC-freed-mime-p4-04.txt | APPLY |
| | Ad Hoc On Demand Distance Vector (AODV) | | | |
| | AODV Message Types | RFC3561 | Standards action. (section 12) | APPLY |
| | Extension Type | RFC3561 | Standards action. (section 12) | APPLY |
| | Address Family Numbers | | | |
| | Address Family Numbers | (?) | (?) | APPLY |
| | Address Resolution Protocol (ARP) Parameters | | | |
| | Hardware Types | RFC826 | (?) | APPLY |
| | Inverse Address Resolution Protocol Operation Codes | RFC826 | (?) | APPLY |
| | Protocol Type | RFC826 | See the following registry: http://www.iana.org/assignments/ethernet-numbers | APPLY |
| | Applicable Exchange Core (APEX) Parameters | | | |
| | APEX Endpoint Applications | RFC3340 | Expert review (Appendix B) | APPLY |
| | APEX Options | RFC3340 | Expert review (Appendix B) | APPLY |
| | APEX Services | RFC3340 | Expert review (Appendix B) | APPLY |
| | Application Access Protocol (ACAP) Parameters | | | |
| | ACAP Capabilities | RFC2244 | Recommended working group review (section 7.1) | APPLY |
| | ACAP Response Codes | RFC2244 | Recommended working group review (section 7.2) | APPLY |
| | Dataset Classes | RFC2244 | RFC (standards track or experimental) (section 7.3) | APPLY |
| | Vendor Subtree | RFC2244 | FCFS (section 7.4) | APPLY |

eIANA



A screenshot of a web browser window displaying the eIANA application. The browser's address bar shows the URL 'http://iana.nask.waw.pl/eiana/login.do'. The page header includes the 'eIANA' logo on the left and the 'NASK' logo on the right, with the text 'You are logged in as IANA Logout' next to it. A 'MENU' sidebar on the left lists: Home, TLD Status, TLD History, Notifications, Administration, Monitoring, and OpenPGP HOWTO. The main content area is titled 'Tasklist' and contains a table with two columns: 'Task Form Link' and 'Process'. A single entry is visible: 'PENDING_DATABASE_UPDATE' in the 'Task Form Link' column and 'Modify Secondary Name Servers' in the 'Process' column. Below this, there is a section for 'Start New Process Execution' with a 'Process Link' sub-section listing various administrative tasks such as 'Create New TLD', 'Replace TLD Manager', 'Replace Administrative Contact', 'Replace Technical Contact', 'Modify Primary Name Server', 'Modify Secondary Name Servers', 'Modify Administrative Contact Attributes', 'Modify Technical Contact Attributes', 'Modify URL for Registration Services', 'Modify Whois Servers', 'Modify TLD Manager Attributes', and 'Replace OpenPGP Keys'. The footer of the page reads 'NASK Research and Academic Computer Network' and '© Copyright by NASK 2005'.

Near-Term Future Activities

- Administrative
 - XMLizing registries
 - Address Registry “whois” service
- IANA Process Automation
 - DNSSEC
 - Port allocation
- “Customer Satisfaction Survey”

On the Horizon Activities

- “IANA Certificate Authority”
 - Ask Geoff, George, and Randy
- Improved authentication mechanisms
 - Hardware tokens?
- Root Zone Management via EPP
 - In cooperation with VeriSign
- Automated {in-addr,ip6}.arpa delegation
 - Similar to eIANA
- Registry availability programmatically via...
 - BEEP? XML-RPC? SOAP?
- IANA Infrastructure improvements

Summary

- The IANA function allocates and maintains registries for a variety of resources, including protocol parameters, IP addresses, and domain names
- IANA has added staff and is improving services as quickly as possible
 - “Every day and in every way [we’re] getting better and better” -- Émile Coué
- We’re pretty busy now
- We’re going to be pretty busy for a while
- **Suggestions for improvement welcome!!**

Questions?

