

Internet Assigned Numbers Authority
Monthly Report
January 15, 2008

*For the Reporting period of
December 1, 2007 – December 31, 2007*

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Executive Summary

This monthly report provides statistical information of IANA operations as they relate to the IETF. Also included are the deliverables for this reporting period in accordance with the SLA signed between ICANN and the IETF effective 1 January 2007.

Statistics

As outlined in the IETF-IANA SLA, IANA is tasked with collecting and reporting on IETF-related statistics. The IETF-IANA continues to work to come to an agreement regarding what the statistical output should look like. IANA will continue to provide the set of statistics below using the agreed upon format. There continue to be some points below that are not fulfilled in this month's report due to complications with the way the requests are processed.

Below you will find the line item from the SLA of the statistics requested, a description of what queue's statistics are being provided to fulfill that deliverable and an analysis of the data for each queue. The actual charts representing the data can be found at <http://www.iana.org/reporting-and-stats/index.html>.

Current issues that remain are how the tool deals with merged tickets and queue changes. IANA is currently working on a possible adjustment to some of the charts to account for these ticket issues, which should allow for the numbers to match from month to month. Any adjustments in the charts will be agreed upon within the IETF-IANA committee before appearing as part of the set of charts for this report.

For this month's statistics, the charts were generated using a graphing tool. Full automation has not yet been reached however and IANA continues to work through the remaining challenges to fully automate the statistic reports and charts. IANA recognizes that the various formats of the graphs, which are generated by the tool, are not optimal. Improvement to the scale, colors, fonts and other visual features continue to be reviewed.

Types of charts for each queue found at <http://www.iana.org/reporting-and-stats/index.html>:

- Month to month comparison histogram of requests created/closed/open
- Month to month comparison histogram of age groups of closed tickets
- This month's absolute age of closed requests
- Month to month comparison histogram of age groups of open tickets
- This month's absolute age and current state of open requests
- Month to month comparison of mean, median and standard deviation for processing times of closed tickets

IESG approved documents (a)

There are 2 processes that involve documents that have been approved for publication as an RFC where IANA has involvement. The first is when a document is approved by the IESG or the RFC-Editor indicates that they will be publishing the document. IANA reviews the document to determine what actions need to be performed if any. The second is when the RFC-Editor notifies IANA that an RFC-number has been assigned and IANA needs to update references in registries that were updated with new registries and/or assignments.

Requests in the “drafts-approval” queue begin at the time IANA receives a notification of an approval or intent to publish a document and end when the RFC-Editor has acknowledged receipt of the notification of completed actions by IANA. The requests in the “drafts-update-refs” queue begins at the time the RFC-Editor notifies IANA of the RFC number assigned to a document that had actions performed by IANA and ends with IANA updating all references to the document in IANA registries.

DRAFTS-APPROVAL QUEUE

IANA completed a total of 17 requests for the month of December (3 of which were NO IC). 100% of the total requests (including documents with NO IC) were completed within the goal of 14 IANA days or less. For the 14 documents that had IANA actions, 1 document had a total processing time over 3 weeks (71 days). This document was on hold for 30 days waiting for the Area Director and Expert to make sure the requested assignment was approved and then after multiple reminders to the author, an Area Director had to sign-off on the document actions as no response was received.

As of the last day of December, there was 1 request open for 63 days. This request is currently on hold, waiting for another document to be approved before IANA can complete the actions.

DRAFTS-UPDATE-REFS QUEUE

Note: This type of request is not clearly identified in the SLA. Updating references would be most appropriately fit into the parameter requests not requiring technical review. A suggested goal for IANA completion time would be a maximum of 7 days.

IANA completed a total of 20 requests for the month of December. 100% of the requests were completed within the 7 IANA day goal range. The highest number of total processing days for these requests was 3. As of the end of the month, there were 0 requests open requests.

Review of documents on IESG telechat agendas (b)

IANA reviews all documents that appear on the IESG telechats, which occur every other week. There are 2 ways the review of documents is tracked. The first is through IANA's participation during the IESG Last Call of a document (the “drafts-lastcall” queue). The second is through the IESG Evaluation of documents (the “drafts-evaluation” queue).

Requests begin at the time IANA receives a notification of Last Call or Evaluation from the IESG and ends with IANA submitting official comments to the IESG. Below you will find the statistics for both the “drafts-lastcall” and “drafts-evaluation” queues. Each request in the statistics represents a separate/individual Last Call or Evaluation, even if the Last Call or Evaluation is being repeated.

DRAFTS-LASTCALL QUEUE

Note: For the drafts-lastcall queue there are no processing goals described in the SLA. Last Calls are sent to IANA with a due date. IANA’s goal is to submit official comments by that due date. Most Last Calls are between 2 to 4 weeks. There are some, usually ones that are being Last Called for the second or third time, which have 1-week time frames. This would give the IANA a range of 7 to 28 days to complete a review and submit comments, depending on the time frame given for each Last Call.

A total of 18 requests were completed for the month of December. 88% of the requests were completed within their time goals (breakdown below). The 2 requests not completed within their 2-week goal range were 1 day over, however they were both sent in by the due date.

Last Call Time Frame	Total Requests	Completed on time
2 weeks	4	2
3 weeks	9	9
4 weeks	4	4
5 weeks	1	1

As of the end of the month there were 4 open requests. All open requests were still within the goal times.

DRAFTS-EVALUATION QUEUE

Note: For the drafts-evaluation queue there are no processing goals described in the SLA. Evaluations are sent to IANA with no due date, however IANA’s goal is to submit the official comments within 1 week of receipt. If the Evaluation is received less than a week before the document is discussed on the telechat, the goal is to send a response before the telechat takes place. In the event that providing a response is not possible as there was not sufficient time to review the document before the telechat, IANA will request more time.

A total of 21 requests were completed in the month of December. 95% of the requests had IANA days of 7 or less. The IANA days do not include the time that the document is waiting for Last Call to finish. There was 1 request that had a total of 15 IANA days. The large amount of days was due to an extensive review as the document was creating a new review process. The total number of processing days for the same request was 33 due to the request waiting for the Last Call to end.

As of the last day of the month there were 6 open requests. This Evaluation was not ready to be sent as IANA was waiting for the Last Call period to finish.

New Media (MIME) type requests (c)

IANA receives requests for registration of new Media types. Also received, but rarely, are modification and deletion requests for Media types. All of these are processed in the “iana-mime” queue. These requests begin with the receipt of an application for (or modification/deletion of a Media type and end with the request being resolved with a successful registration, removal or modification. In some cases the requests are closed due to withdrawal of the request by the requester or via administrative closure, typically due to lack of response from the requester. We understand that MIME Media types are currently referred to as just “Media Types”. The queue “iana-mime” however, was named prior to this change.

IANA-MIME QUEUE

A total of 4 requests were closed in the month of December. 100% of the closed requests have been completed with an IANA time as outlined in the processing goals of 14 days or less. Two of the completed requests had total processing times of 33 and 35 days. The majority of the time spent on these request was with the expert.

At the end of the month, there were a total of 4 open requests. Two requests were waiting on the expert for a response. The other two were with the requester and IANA (ready for registration). The maximum number of days any of these requests had been in IANA time as of the end of the month was 3 days. Two of the requests waiting on the requester had a total processing time of 85 and 51 days as of the end of December. The majority of the time spent on these requests has been with the requester and expert.

Modification to and/or deletions of Media (MIME) type requests (d)

All media type requests are processed in the “iana-mime” queue. This queue includes a field to designate the request is for a new type or the modification or deletion of an existing type. These total statistics for the media type queue are found above in the “New Media type requests” section. In any given month there are little or no requests for deletion or modification of media types.

New Port number requests (e)

IANA receives requests for assignment of new user port numbers. These requests are processed in the “iana-ports” queue. Port requests begin with the receipt of an application for a user port number and end with the request being resolved with a successful registration, withdrawn by the requester, or administratively closed.

IANA-PORTS QUEUE

Note: Previously the “expert review” time was being counted as IANA time as the review was completed by IANA internal experts. Starting July 1, 2007, this time is reported as

third-party (other) time, as IANA is requesting the IESG designate an official expert for this process.

There were a total of 6 requests closed in the month of December. 100% of those requests were processed with an IANA time within the 14-day goal. Of the 6 requests that were closed this month, 1 request had a total processing time of 62 days. The majority of the life of this request was spent with the requester and it was eventually administratively closed as the request was handled by a different ticket.

As of the end of the month there were 18 requests that remained open. All of these had IANA days of 5 or less and most requests were waiting on the requester. Of the 18 requests still open, 4 have been open more than 30 days (33, 36, 71 and 83). For all of these requests the majority of the time has been with the requester and expert.

Modification to and/or deletions of Port number requests (f)

PORT-MODIFICATION QUEUE

IANA receives requests for modification of existing port numbers. Also received, but are rare, are deletion requests. Both of these are processed in the “port-modifications” queue. These requests begin with the receipt of a modification (or deletion) request and end with the request being resolved with a successful modification (or removal) or closed due to withdrawal or administrative closure.

During this reporting period, there were a total of 7 closed requests. 100% of these requests were completed within the goal processing time of 7 IANA days or less. There were 2 requests that had total processing times of 51 days and 1 request at a total of 59 days. These were due to unresponsiveness from the requester.

There were 11 open requests at the end of the month. For any of these open requests the most the IANA days was at was 7 days. The longest open request as of the end of the month was 63 days. Of the total number of days, 56 were with the requester.

New Private Enterprise Number (PEN) requests (g)

All PEN (Private Enterprise Numbers) type requests are processed in an automated program that does not go through IANA’s ticketing system. The tool includes new, modification and deletion requests. The tool does not yet produce statistics similar to what is available for the other protocol parameter queues. Raw data shows that 170 new PENs were assigned in December 2007.

Modification to and/or deletions of PEN requests (h)

Modifications and/or deletions of PENs occur in a separate tool in which the statistics production is not yet available. More information can be found above in the “New Private Enterprise Number (PEN) requests” section. Raw data shows that 21 existing PENs were modified in December 2007.

Requests for the creation and/or deletion of registries (i)

IANA receives requests for the creation of registries through documents that will be published as RFCs. There is no separate queue for tracking the creation of registries, separately from actions that are approved via RFC publication. For more information, please see the above section “IESG approved documents”. Further discussion is needed to determine if different statistics need to be produced for registry creation/deletion.

Requests relating to other IETF-created registries for which the request rate is more than five per month (j)

For those registries where there are more than 5 requests per month, IANA creates a separate queue for tracking those tickets. Currently there is two request types where IANA has created separate queues: TRIP ITAD Numbers and Multicast addresses.

Although not requested by the SLA, also included in this report are statistics on the general protocol parameter queue. This queue contains all other requests for assignments and registrations in the other IANA maintained protocol parameter registries.

IANA-TRIP QUEUE

There were a total of 26 IANA-TRIP requests closed in the month of December. 100% of the closed requests had an IANA time of 7 days or less. There were 2 requests with a total processing time of 63 days and 1 request with a total of 64 days. For all these requests, they were administratively closed due to a non-responsive requester. Not more than 1 day for these requests was spent with IANA.

For the 9 requests that remain open at the end of the month, 1 are waiting on the requester to respond and have been for the life of the request (49 days as of the end of December). Seven requests are waiting on IANA and are ready for assignment. There is 1 request that is being delayed due to internal processes.

IANA-MULTICAST QUEUE

There were no requests closed during the month of December. Four tickets remain open at the end of the month. These requests are all waiting on the expert and have no more than 1 day on the IANA clock. As of the end of December, the maximum total days on longest open request was 42. There have been multiple communications between the expert and the requester in reviewing this request. Most of the request’s time has been with the expert, who is pinged weekly, every time the expert takes the action for the ticket.

IANA-PROT-PARAM QUEUE

Note: The IANA-PROT-PARAM queue is for all the miscellaneous requests that are not processed in a separate queue due to the lack of volume for any one type of request. These requests can be first-come first-served, expert review, IESG approval or another

review method. In the SLA, processing goals are determined on the type of request. However, for this queue there is no separation of request type.

There were a total of 23 requests closed during the month of December. 100% of these were processed within the appropriate IANA time goals (see breakdown below). For all closed request, the largest processing total time was 6 days.

There were 3 requests open as of the end of the month. There was 1 request waiting on the designated expert and 1 request being processed by IANA. For the remaining open request, IANA is waiting for a message for instructions from the IESG. As of the end of December, the total time for this request was 56 days. For all of the open requests, the maximum IANA time on any one request at the end of the month was only 4 days. All other time spent in the queue is with the requester, expert or other party.

Request Type	Number of Requests	IANA goal time	Requests completed within goal
First Come First Serve	2	7 days or less	2
Expert Review	21	14 days or less	21

There were more than 5 requests for language subtag registrations/modifications. We will continue to watch for trends for these types of requests. If we find after consecutive months we are receiving more than 5 requests per month a new queue will be created. In summary, the IANA time for general protocol parameter requests are within the established goals for each of the request types.

Deliverables

In accordance with the SLA, the IANA is reporting on the following deliverables due within eleven (11) months of implementation of this agreement:

- 1) Provide publicly accessible, clear and accurate periodic statistics (continual)
- 2) Track and publicly report on a monthly basis (monthly report - continual)
- 3) Single points of failure documentation to IETF-IANA Working Group (continual)
- 4) Review terms of agreement

Provide publicly accessible, clear and accurate periodic statistics

See “Statistics” section of this report and also <http://www.iana.org/reporting-and-stats/index.html>.

Track and publicly report on a monthly basis (monthly report)

The SLA describes 3 items IANA will provide monthly reports. These items are outlined below along with a description of actions taken for each.

- a. Resource allocation statistics as described in SLA item 20

In item 20 of the SLA, there is a detailed list of statistics to be produced for the monthly report. The agreed upon partial statistics are found in the “Statistics” section of this report.

- b. The utilization of all identified finite resources defined within ICANN/IANA registries

The IANA is undertaking a project to review all registries to identify those that are finite and additionally those that are in danger of being exhausted. As of the end of this reporting period, no registries have been identified as being in danger of exhaustion. IANA will continue to report findings in future monthly reports.

- c. Efforts that have addressed single points of failure/expertise (see item 3 in the SLA)

Single points of failure documentation to IETF-IANA Working Group (continual)

In conjunction with the monthly report, the IANA submits a separate document to the IETF-IANA Group documenting what steps have taken place to examine all known single-points of failure related to the IETF work. For those known single-points of failure, IANA will describe what actions were taken to correct where the point existed or what plan has been put in place for future resolution. During this reporting period, no single-point of failure was identified.

Review terms of Agreement

Over the last few months the IANA-IETF Working Group have been discussing revisions to this agreement. Completed deliverables will be removed and new deliverables will be added. Revisions are being made to various statistical reports based on discussions. After the final version of the document is agreed upon, it will be signed and implemented.

Conclusions

This is the last report for the reporting period of 2007. IANA has met the processing goals for the 12th month. IANA will be using a new tool for generating statistics and charts beginning in the first report for 2008 data. This should slightly improve the accuracy as well as greatly improve the visual representation of the statistics.

