SERVICE LEVEL EXPECTATION FOR IANA ROOT ZONE MANAGEMENT

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# DESIGN TEAM REPORT

## Background

The Service Level Expectation (SLE) Design Team group is comprised of three gTLD Registry representatives and three ccTLD Representatives, and was asked review the current IANA root management operations, to record where ICANN is performing well and identify any gaps and issues that it considered in need of further clarification.

The group conducted an historical analysis based on two factors: an analysis of the current Service Level Agreement that NTIA has with IANA, and an analysis of real world transaction activity. The source of this second data set was based on two categories: published IANA performance reports, data (September 2013 to January 2015 with approximately 565 total data points ), and transaction logs provided by ccTLD registries interacting with the IANA root management function.

The DT is not proposing any changes to the current work flow process., but is suggesting that there is a requirement placed on IANA, (as part of the Implementation Phase of the CWG Stewardship Proposal) to measure, record and report additional details of transaction times for each Root Zone Management process.

Such transparency will provide factual information to assist the CSC, IFRT and the Community to determine and confirm that IANA is continuing to provide non-discriminatory service to the naming community. Further, by having clarity as to process, it can be confirmed that IANA staff may not be the cause of the delay in the execution of the change request. On other occasions due to the wide time window for current SLEs, there is an opportunity for — or the perception for — certain TLD Managers to have preferential treatment and change requests completed in a specified time.

## Principles

These are guiding principles agreed by the Design Team that help define the expectation for the monitoring and reporting environment, and guide the definition of the individual criteria used for reporting and assessment of the naming-related portions of the IANA Functions:

1. **Attributable measures.** Where practical, individual metrics should be reported attributing time taken to the party responsible. For example, time spent by IANA staff processing a change request should be accounted for distinctly from time spent waiting for customer action during a change request.
2. **Overall times.** Notwithstanding the previous principle, there is value in overall metrics being reported to identify general trends associated with end-to-end processing times.
3. **Relevance.** There should be a distinction between metrics that should be collected to support general analysis, versus which are the critical metrics that are considered important to set specific thresholds for judging breaches in ICANN’s ability to provide an appropriate level of service.
4. **Clear definition.** Each metric should be sufficiently defined such that there is a commonly held understanding on what is being measured, and how an automated approach would be implemented to measure against the standard.
5. **Definition of thresholds.** The definition of specific thresholds for a performance criteria should be set based on analysis of actual data. This may require first the definition of a metric, a period of data collection, and later analysis by the community before defining the threshold.
6. **Review process.** The service level expectations should be reviewed periodically, and adapted based on the revised expectations of the community and updates to the environment. They should be mutually agreed between the community and the IANA Functions Operator.
7. **Regular reporting.** To the extent practical, metrics should be regularly reported in a near real-time fashion.

## Assumptions

1. Service Level Expectations (SLEs) for a registry are normally based on specific transactions sent by a client to the registry. The metric for that transaction is generally of the form of “Transaction A must complete within X period Y percent of the time measured over Z”, for example, “a root zone update must complete within 72 hours 95% of the time measured on a monthly basis”.
2. For metrics which are considered key reporting requirements, but for which this type of measurement is not considered viable (e.g. due to infrequency of the type of request), provisions are made for an exception-based reporting model. When there is an exception in such a category, there is an obligation to report on the incident.
3. For the purposes of designing the Service Level Expectations, the current process is simplified to six key stages for all change requests (notification is implicit in each stage):
	1. Accept change request submissions from customers;
	2. Verify the change passes documented technical verification checks;
	3. Obtain consent from relevant contacts to proceed with the change;
	4. Verify the change request meets policy and procedural requirements;
	5. Obtain authorization from NTIA to proceed with the change;
	6. Implement the change and notify the change requester of completion of the change.
4. Root Zone Management processes for routine change requests are largely automated. This automation includes:

	1. A web based interface for submitting change requests to the IANA Function Operator. The web based interface authenticates the credentials presented by the change requester and facilitates the creation of root zone file and root zone database change requests.
	2. Near-real time confirmation email to the initiator of the change request of its safe receipt by the IANA system. Note, in certain circumstances, the request is initiated by other means such as fax or written letter. In these situations, email may not necessarily be used in communications.
	3. Automated technical checks conducted by the IANA system on the change request. These checks ensure conformance of the technical data with agreed minimum standards, and check for errors in the material submitted.
	4. Seeking consent from the relevant contacts for the domain, through an automated email verification process where approval requests are sent to both, at a minimum, the admin and technical contacts at the Registry for both parties to consent to the update. (Note: Some contacts are slow to respond which creates inefficiency in the validation process. In certain circumstances, third party verification is also required, e.g. governmental approvals)
	5. The verified change request is transmitted to NTIA for authorization. For changes that impact the root zone file, the change request is also transmitted to the Root Zone Maintainer. This is performed through online interfaces.
	6. Once confirmed, notification is sent by NTIA to IANA, and for changes that impact the root zone file, to the Root Zone Maintainer authorizing the change request for implementation.
	7. Prior to implementation, the Root Zone Maintainer repeats automated technical compliance checks on the request and once verified, implements the change within the root zone file. This file is typically published twice daily.
	8. On publication of updates to the root zone file, Root Zone Maintainer notifies IANA, who verifies the changes match the requested changes
	9. IANA updates the Root Zone Database and notifies the requester of completion.
5. The processing role currently undertaken by the NTIA will no longer exist in the post-transition environment and those steps will no longer be undertaken.  This means that IANA will have responsibility for triggering implementation at the conclusion of processing and communicating directly with the RZM.
6. IANA’s online systems operate 24 hours a day, 365 days a year, except for maintenance periods, as befits a service that has customers around the globe.
7. In order to review the phases of processing, the following simplified process flow has been produced. The process flow should not be considered a substitute for the complete process flow utilized for managing the Root Zone, however it does illustrate the key phases of processing relevant for the evaluation of service level expectations:



1. While there are many different ways change requests can be categorized, the key areas of distinction between different processing types for the purposes of metrics are as follows:
	1. **Category I (Routine updates impacting Root Zone File)** — Routine change requests that alter the technical data published in the DNS root zone (i.e. changes to NS records, DS records and glue records) . For these changes the process requires IANA, both pre- and post-transition, to engage third parties to implement, publish and distribute changes in the root zone file.
	2. **Category II (Routine updates not impacting Root Zone File)** — Routine change requests that do not alter the DNS root zone file (i.e. contact data and metadata). These changes do not engage third parties as part of implementation, and therefore will have a materially different processing timeframe.
	3. **Category III (Creating or Transferring a gTLD)** — Requests to create (“delegate”) or transfer (“redelegate” or “assign”) a generic top-level domain. These changes require additional processing by IANA to ensure policy and contractual requirements are met associated with a change of control for the TLD. While the key processing is performed elsewhere within ICANN, the IANA processing is significant and therefore distinguishes this type of request from a routine change request.
	4. **Category IV (Creating or Transferring a ccTLD)** — Requests to create or transfer a country-code top-level domain. These changes require additional processing by IANA to ensure policy requirements are met. This processing is performed by IANA staff, and includes performing additional analysis on the change request, producing a report, and having that report reviewed externally. This processing is significant, and is normally substantially longer than a routine change request, and therefore should be distinguished.
	5. **Category V (Other change requests)** — Other non-routine change requests. IANA is required to process change requests that may have special handling requirements, or require additional documentary evidence or additional clarifications from the customer or third parties, that do not afford them the ability to automate. These scenarios include, but are not necessarily limited to:
		1. Customers that require requests to be handled outside the online self service platform, such as those lodging change requests through the exchange of postal mail;
		2. Customers that have placed special handling instructions on file with IANA, or have otherwise asked for special handling for a request that deviates from the normal process, that must be executed manually by IANA staff;
		3. Unique legal or regulatory encumbrances that must be satisfied that require additional processing;
		4. Removing a TLD from service (i.e. retirement or revocation);
		5. Changes that relate to the operation of the root zone itself, including changing the Root Key Signing Key, altering the set of authoritative name servers for the root zone (i.e. the “root servers”), and changes to the “root hints” file.

These types of changes should be categorized distinctly from those requests for which there is a clear regularly-conducted process that adheres to the typical processing path and may be removed from the SLE pool.

1. The sum of the measurements produced from the various measured sub-processes as they pertain to IANA processing must represent 100% of the time under IANA’s control during processing, in order to ensure accurate assessment of the IANA performance.

1. The applicable processing phases against which metrics for change requests should be reported and assessed can be mapped to the SLEs, these categories as follows (Table 1)
2. Non-discriminatory practice – IANA will respond to requests on a first-come, first-served basis. In cases of emergency changes (assume to be concluded within four (4) of an emergency situation being triggered), IANA, should give priority over other change request.  In such circumstance, the situation will be documented.

SLE Mapping Matrix

(Table 1)

|  |  |
| --- | --- |
| **Step** | **Process** |
| Cat IRoutine changes to Root Zone File Data (NS, DS and glue records) | Cat IIRoutine changes to Root Zone Database (Contact details and metadata) | Cat IIIDelegation or Transfer of a Generic Top-Level Domain | Cat IVDelegation or Transfer of a Country-Code Top-Level Domain | Cat VOther non-routine change requests to Root Zone File or Root Zone Database |
| **Submission** |
| Time for ticket confirmation to be sent to requester following receipt of change request via automated submission interface | ● | ● | ● | ● | ◐ |
| Time for lodgment of change request into RZMS by ICANN staff on behalf of request sent by email[[1]](#footnote-3) | ● | ● | ◐ | ◐ | ◐ |
| **Technical Checks(1)** |
| Time to return results for technical checks following submission of request via automated submission interface | ● | ◐ | ◐ | ◐ | ◐ |
|  |  |  |  |  |  |
| **Contact Confirmation**  |
| Time for authorization contacts to be asked to approve change request after completing previous process phase | ● | ● | ◐ | ◐ | ◐ |
| Time for response to be affirmed by IANA  | **~~X~~** | **~~X~~** | **~~X~~** | **~~X~~** | **~~X~~** |
|  |  |  |  |  |  |
| **IANA Review and Processing** |
| Time to complete all other validations and reviews by IANA Functions Operator and release request for implementation | ● | ● | ● | ● | ● |
| Time for third-party review of request (i.e. by ICANN Board of Directors) |  |  |  | ● |  |
| **Technical Checks(2)** |
| Time to return results for technical checks following submission of request via automated submission interface | ● | ◐ | ◐ | ◐ | ◐ |
| **Implementation of Changes** |
| Time for root zone changes to be published following completion of validations and reviews by IANA Functions Operator | ● |  | ◐ | ◐ | ◐ |
| Time to notify requester of change completion following publication of requested changes | ● | ● | ● | ● | ● |

Legend: ● applies in all instances, ◐ applies in some instances - IANA will document any process deviations that result in SLE not being measured.

# SERVICE LEVEL EXPECTATION

## SERVICES DEFINITIONS

|  |  |
| --- | --- |
| **Service Area** | **Service** |
| Root Zone Management System | An online interactive web service for credentialed customers to submit change requests to their root zone database entries, review historical and pending change requests, and perform other related actions. This system also provides related maintenance functions such as customer credential recovery. |
| IANA Website | Publication of materials associated with root zone management, including a representation of the Root Zone Database, related root zone process documentation and reports, and links to the Root Zone File. |
| General Enquiry Service | Response to ad-hoc queries from the public on questions pertaining to Root Zone Management. |

**REPORTING MECHANISMS**

IANA is required to provide the following reporting mechanisms. The availability of the reporting mechanisms are documented below.

| **Access** | **Type of Reporting** | **Metrics or Data Points** | **New/Existing** |
| --- | --- | --- | --- |
| Public | Real-time Dashboard  | Process Volumes | Existing |
| Current SLE Metrics | Existing |
| Visual Performance Indicators (e.g. Green, Yellow, Red)  | New |
|  |  |
| SLE Report | Performance against metrics | Existing |
| Notification of breaches | Existing |
| Explanations of any breaches | Existing |
| Incident Reports[[2]](#footnote-4) | Reporting of incidents | Existing |
| Root cause analysis | Existing |
| Remediation steps | Existing |
| Accuracy | Calculation based upon number of Incidents Reports vs. total volume | Existing |
| Request database (data is of sufficient detail to verify the metric calculations use for the SLE report) | Every request made (that is accepted as a genuine request)  | Existing |
| Timestamps of key points in the request lifecycle |
| Existing |
| The final status of each concluded request | Existing |
| Private (Requesting TLDs Only) | Status tracker (current and historical[[3]](#footnote-5)) | Every request made for the TLD | Existing |
| The current status | Existing |
| Timestamps of key events | Existing |
| What action, if any, the TLD is required to do to move it to the next step | Existing |

**FIELD DEFINITIONS**

The fields in the following tables are as follows:

* **Process**.  The business process that IANA is requested to perform.
* **Metric**.  The individual metric that will be measured as part of the completion of the business process.
* **Target**. The specified target for each individual change request.
* **Type**.  Whether the target specified is a minimum target (compliance must be less than the target) or a maximum target (compliance must not be more than the target).
* **Breach**.  The percentage limit of change requests within the specified period that fail to meet the metric, which if reached is deemed a breach in the SLE.
* **Period**.  The period over which SLE compliance is measured.

**INFORMATIONAL MEASUREMENT AND REPORTING**

These elements reflect activity areas that should be instrumented by the IANA Functions Operator, and disclosed in reporting, either in real-time or in other reports, to inform the community on important parameters relating to the naming-related functions. Real-time reporting will be done via publishing in a publically accessible dashboard and non-real time reporting will be published monthly via incident reports.

| ID | Metric | New/Existing | Mechanism |
| --- | --- | --- | --- |
| ***Overall Request Processing Volumes and Timelines*** |
| A1 | **Total Time** — average end-to-end processing time from submission to completion of change requests, divided across high-level partitioning of request types (such as contact data changes, nameserver changes, delegations/redelegations and root server changes) | Existing (as monthly report) | Publish in dashboard |
| A2 | **Volume** — number of requests performed, divided across high-level partitioning of request types | Existing (as monthly report) | Publish in dashboard |
| A3 | **Final outcome** — number/percentage of requests that are implemented, versus that are closed due to deficiencies, withdrawn by customer, etc. | New | Publish in dashboard |
| A4 | **Time per actor —** average time taken for IANA processing, Root Zone Maintainer processing, waiting on customer response, waiting on ICANN Board (for delegations/redelegations), and other such parties. | New | Publish in dashboard |
| B1 | **Time to perform technical checks** — Time to return results for technical checks following submission of request via automated submission interface | New | Publish in dashboard |
| B2 | **Time from submission to customer action required —** average time for authorization contacts to be asked to approve change request after completing previous process phase | New | Public in dashboard |
| B3 | **Time to complete all other IANA processing —** Time to complete all other validations and reviews by IANA and release request for implementation.  | New | Publish in dashboard |
| B4 | **Time for third-party review** — Time for third-party reviews of requests (i.e. by ICANN Board of Directors) | New  | Publish in dashboard |
| B5 | **Time for root-zone publication** — Time for root zone changes to be published following completion of validations and reviews by IANA. | Existing[[4]](#footnote-6) | Publish in dashboard |
| B6 | **Time for final notification** — Time to notify requester of change completion following publication of requested changes. | New | Publish in dashboard |
| ***Accuracy***  |
| C1 | **Incorrectly implemented requests —** Incidents where data published (i.e. in the root zone) differs from that requested and processed through the process. | Existing (as monthly report) | Produce incident reports |
| ***Online Services Availability and Enquiry Processing***  |
| D1 | **RZMS availability for customers —** percentage availability of the RZMS to allow customers to perform self-service operations via the web interface. | New | Publish in dashboard |
| D2 | **Website availability** — percentage availability of IANA website for consulting documentations and other posted materials. | New | Publish in dashboard |
| D3 | **Directory service availability** — percentage availability of WHOIS server and other registration data publication services | New | Publish in dashboard |
| D4 | **Credential recovery** — timeliness of elements of credential recovery process | New | Publish in dashboard |
| D5 | **Performance metrics availability** — availability of accurate, timely reporting to these standards via dashboard and other mechanisms. | New | Publish in dashboard |
| D6 | **Time to process enquiries** — time to process general enquiries pertaining to root zone management, but not pertaining to interactions in a change request context. | New | Publish in dashboard |

## Service Level Expectations

These elements reflect measures against which specific thresholds should be set, with an expectation that the IANA Functions Operator will normally perform within the threshold, and the inability to meet the threshold will be identified, result in follow-up with the Customer Standing Committee to identify the cause. Regular unexplained inability to meet the thresholds may result in remedial action. The thresholds will be modified over time as part of periodic reviews of the service level expectation.

## PROCESS PERFORMANCE

| Category (Process) |  | Measurement Metric | Threshold | Type | Breach | Period |
| --- | --- | --- | --- | --- | --- | --- |
| **Category I - Routine updates impacting Root Zone File (i.e. NS, DS, glue record changes)** | **Submission** |
|  | Time for automated email to be sent to authorization contacts following receipt of change request via automated submission interface |  |  |  |  |
| **Technical Check (1)** |
|  | Time to return results for technical checks following obtaining required consent from contacts via automated submission interface |  |  |  |  |
| **Contact Confirmation** |
|  | Time for authorization contacts to be notified to approve change request. |  |  |  |  |
|  | Time for response to be affirmed by IANA |  |  |  |  |
| **IANA Review and Processing** |
|  | Time to complete all other validations and reviews by IANA Functions Operator and release request for implementation |  |  |  |  |
| **Technical Check (2)** |
|  | Time to return results for technical checks following obtaining required consent from contacts via automated submission interface |  |  |  |  |
|  **Implementation of Changes**  |
|  | Time for root zone changes to be published following completion of validations and reviews by IANA Functions Operator |  |  |  |  |
|  | Time to notify requester of change completion following publication of requested changes |  |  |  |  |
|  |  |  |  |  |  |  |
| **Category II - Routine updates not impacting the Root Zone File (i.e. Whois)** | **Submission** |
|  | Time for automated email to be sent to authorization contacts following receipt of change request via automated submission interface |  |  |  |  |
| **Technical Check (1)** |
|  | Time to return results for technical checks following obtaining required consent from contacts via automated submission interface |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **Contact Confirmation** |
|  | Time for authorization contacts to be notified to approve change request. |  |  |  |  |
|  | Time for response to be affirmed by IANA |  |  |  |  |
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|  | **IANA Review and Processing** |
|  | Time to complete all other validations and reviews by IANA Functions Operator and release request for implementation |  |  |  |  |
| **Technical Check (2)** |
|  | Time to return results for technical checks following obtaining required consent from contacts via automated submission interface |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **Implementation of Changes** |
|  |  | Time to notify requester of change completion following publication of requested changes |  |  |  |  |
| **Category III - Delegation or Transfer of a gTLD** | **Submission** |
|  | Time for automated email to be sent to authorization contacts following receipt of change request via automated submission interface |  |  |  |  |
| **Technical Check (1)** |
|  | Time to return results for technical checks following obtaining required consent from contacts via automated submission interface |  |  |  |  |
| **Contact Confirmation** |
|  | Time for authorization contacts to be notified to approve change request. |  |  |  |  |
|  | Time for response to be affirmed by IANA |  |  |  |  |
|  | **IANA Review and Processing** |
|  | Time to complete all other validations and reviews by IANA Functions Operator and release request for implementation |  |  |  |  |
|  | Time for third-party review of request (i.e. by ICANN Board of Directors) |  |  |  |  |
| **Technical Check (2)** |
|  | Time to return results for technical checks following obtaining required consent from contacts via automated submission interface |  |  |  |  |
| **Implementation of Changes** |
|  | Time for root zone changes to be published following completion of validations and reviews by IANA Functions Operator |  |  |  |  |
|  | Time to notify requester of change completion following publication of requested changes |  |  |  |  |
| **Category IV - Delegation or Transfer of a Country-Code Top-Level Domain**  | **Submission** |
|  | Time for automated email to be sent to authorization contacts following receipt of change request via automated submission interface |  |  |  |  |
| **Technical Check (1)** |
|  | Time to return results for technical checks following obtaining required consent from contacts via automated submission interface |  |  |  |  |
| **Contact Confirmation** |
|  | Time for authorization contacts to be notified to approve change request. |  |  |  |  |
|  | Time for response to be affirmed by IANA |  |  |  |  |
| **IANA Review and Processing** |
|  | Time to complete all other validations and reviews by IANA Functions Operator and release request for implementation |  |  |  |  |
| **Technical Check (2)** |
|  | Time to return results for technical checks following obtaining required consent from contacts via automated submission interface |  |  |  |  |
| **Implementation of Changes** |
|  | Time for root zone changes to be published following completion of validations and reviews by IANA Functions Operator |  |  |  |  |
|  | Time to notify requester of change completion following publication of requested changes |  |  |  |  |
| **Category V - Other non-routine change requests to Root Zone File or Root Zone Database** |  Other non-routine change requests. IANA is required to process change requests that may have special handling requirements, or require additional documentary evidence or additional clarifications from the customer or third parties, that do not afford them the ability to automate. Examples of these scenarios include, but are not necessarily limited to:1. Customers that require requests to be handled outside the online self-service platform, such as those lodging change requests through the exchange of postal mail;
2. Customers that have placed special handling instructions on file with IANA, or have otherwise asked for special handling for a request that deviates from the normal process, that must be executed manually by IANA staff;
3. Unique legal or regulatory encumbrances that must be satisfied that require additional processing;
4. Removing a TLD from service (i.e. retirement or revocation);
5. Changes that relate to the operation of the root zone itself, including changing the Root Key Signing Key, altering the set of authoritative name servers for the root zone (i.e. the “root servers”), and changes to the “root hints” file.

In such circumstances, IANA may exclude them from the SLE measurement process. If that is done, than IANA must manually document the request and the reason for deviation in the Incident Report. |  |

**ACCURACY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Metric** | **Measurement** | **Threshold** | **Type** | **Breach** |
| Root zone file data published in the root zone matches that provided in the change request | Accuracy | 100% | Min | <100% |
| Root zone database is correctly updated in accordance with change requests (does not include impact of normalization and other processing) | Accuracy | 100% | Min | <100% |

**ONLINE SERVICES AVAILABILITY AND ENQUIRY PROCESSING**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Metric** | **Threshold** | **Type** | **Breach** | **Period** |
| **RZMS availability** — availability of an online interactive web service for credentialed customers to submit change requests to their root zone database entries. |  |  |  |  |
| **Website availability —** availability of root zone management related documentation (i.e. on http://www.iana.org) |  |  |  |  |
| **Directory service availability —** availability of the authoritative database of TLDs |  |  |  |  |
| **Credential recovery —** time to dispatch confirmation email of forgotten username or password | 5 min | Max | 95% | Month |
| **Credential change —** time to implement new password within the system | 5 min | Max | 95% | Month |
| **Dashboard update frequency —** average time to update the dashboard to ensure up-to-date reporting | 30 mins | max | 100% | Month |
| **Dashboard accuracy** — the data presented on the dashboard is accurate | 100% | min | <100% | Month |
| **Dashboard availability —** availability of the dashboard online | 99%1 | min | <99% | Month |
| **SLE report production —** time to produce reports following the conclusion of the reporting period | *Monthly* |  |  |  |
| **SLE report availability —** availability of the SLE reports and associated data online | *<10 days after month end* | *max* | *>10 days* | *Month* |
| **SLE report publication —** schedule of reporting periods | *Monthly* |  |  |  |
| **Time to send acknowledge of enquiry —** time taken to send initial acknowledgement of receipt of a general enquiry pertaining to root zone management (but not pertaining to interactions in a change request context) |  |  |  |  |
| **Time to send initial response to enquiry —**  time taken for staff to respond to enquiry, either in part or in whole. |  |  |  |  |

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Next Steps:

Once the IANA and SLE WG has approved the SLE Document it will be presented to the CWG Members for ratification.

The Ratified SLE document will enable the IANA to prepare an implementation plan and to obtain budget and formulate a proposal for NTIA’s consideration.

Once NTIA has granted approval to the SLE document, IANA staff may need to deploy technical resources to ensure all the prescribed timestamps are captured and documented.

Then it is proposed that there be a period of two to three months for IANA to capture real world data to complete parameters of the SLE.

With real world data ICANN/IANA and the SLE WG will determine the applicable thresholds to be contained in the completed SLE document.

Come the date of transition, there will be a realistic and proven document for the community to be assured that post transition IANA will continue to operate an exemplary service.,

1. [https://community.icann.org/display/gnsocwgdtstwrdshp/DT-A+Service+Levels+Expectations](https://community.icann.org/display/gnsocwgdtstwrdshp/DT-A%2BService%2BLevels%2BExpectations) [↑](#footnote-ref-3)
2. There may be confidentiality requirements pertaining to the level of disclosure of incidents. A protocol should be established with the CSC regarding the level of disclosure that is appropriate for incidents, mindful of preserving confidentiality of individual customer transactions and security considerations for the root management system. [↑](#footnote-ref-4)
3. It is understood historical records for requests lodged prior to the online management system will not be displayed. [↑](#footnote-ref-5)
4. Currently this is reported from the time a request is authorized by NTIA, to the time a request is signaled as completed by the Root Zone Maintainer to ICANN via EPP. This would be altered to be the time the request is transmitted by ICANN to the Root Zone Maintainer, to the time a change is visible via the authoritative root servers. [↑](#footnote-ref-6)