



Identifier Technology Health Indicators (ITHI) - Numbers Community Update

John Curran
NRO Chair

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Overview

- The goal of ITHI is to develop metrics to measure the health of the Internet's unique identifier systems
- The Regional Internet Registries (RIRs) agreed to facilitate development of such metrics for the Internet Number Registry System
- Registration service staff at the 5 RIRs have been tasked to develop an initial ITHI strategy and draft metrics for the Internet Number Registry system – this initial set of metric definitions can be used as a basis for community consultation

ITHI Work Status

- Initial Definitions and Risk document draft completed – completed
- Internal RIR review – underway and to be completed 1Q2017
- Release of discussion draft to the community for consultation – to be completed 2Q2017
- Final ITHI metrics document release by 3Q2017



Scope of Internet Number Registry ITHI Metrics

- Metrics for the measurement phase of this project are to include all Internet Number Resources (INRs) administered by each RIR and included in the NRO extended delegated statistics.
- Specifically excluded are those INRs reserved by IANA for the technical community, special purposes and future delegations.



Draft - Internet Number Registry ITHI Metrics

	Definition	Measurement	Measurement Unit	Comments
Comprehensive	Complete (all required data is available)	Are all INRs administered by each RIR accounted for in the NRO extended delegation statistics?	<ul style="list-style-type: none"> X number of INRs administered missing out of total INRs in the NRO extended stats file? Percentage of completeness translated by number above 	Goal is to be 100%, include legacy INRs
		Is INRs registration / resource holder data available for all INRs accounted for in the NRO extended delegation statistics? [1]	<ul style="list-style-type: none"> Legal Name and address = 50%, POC Information = 50% [2] Required resource holder data: Legal name and associated legal address, point of contact (email, phone any of these) 	Goal to be determined after first measurement, initially exclude legacy INRs not under contract, possibly this could be included in a Phase 2
	Unique (no duplicated data)	Are any INRs administered by each RIR duplicated in the NRO extended delegation statistics?	<ul style="list-style-type: none"> X number of INRs administered overlapping out of total INRs in the NRO extended stats file? Percentage of completeness translated by number above 	Goal is to be 100% (0% overlapping) [2]
Correct	Matching official sources for legal name and address	Does the required registration / resource holder data listed for the INRs holder match official sources	<ul style="list-style-type: none"> Legal name and address 50% of total correctness 	To be 100% correct, records must have legal name and address matching official sources and both functioning and reachable relevant party
	Functioning and reaching a relevant party	Is the required registration/resource holder contact data listed for the INR holder functioning and reachable relevant party?	<ul style="list-style-type: none"> Point of contact: email / phone 50% of total correctness 	
Current	Confirmed to be up to date or recently updated [3]	Has the required resource holder data listed for the INR holder recently been confirmed to be up-to-date or updated? [4]	Give a weight to each data point to reach a total score out of 100% <ul style="list-style-type: none"> 50% legal name and address 50% point of contact 	A recent contact moment from, (e.g. Email) also counts as up-to-date confirmation

2001:610:240:0 193:0:0:202 62:109:128 195:048:02:03 178:12:02:02 2001:010:240 193:0:0:203 195:048:02:03
 62:109:128 195:048:02:03 2001:610:240 193:0:0:203 2001:610:240:0 193:0:0:202
 193:0:0:203 2001:610:240:0 193:0:0:203 62:109:128 195:048:02:03 403:0:0:202 2001:610:240 193:0:0:203
 2001:610:240:0 193:0:0:202 2001:610:240:0 193:0:0:203 2001:610:240:0 193:0:0:202 2001:610:240:0 193:0:0:203



Internet Number Registry ITHI Metrics Table - Notes

1. Required resource holder data is what do all RIRs measure: Legal name, associated legal address, point of contact (email, phone any of these)
2. There are 2 data points required for each resource holder. Each point could be given 50% to make a total 100%. The weight could also be different for the data points, depending on their importance.
3. Two days/measurements in a row is a problem, one is not. Let's think about how often to measure, once a day like the extended delegated stats, for example.
4. The definition of 'Recently' differs per RIR so measurement should be based on each of the RIR's defined practices per approved policies and procedures



Questions?