ITHI: Identifier Technology Health Indicators

Defining Metrics

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ITHI Names
For each “Problem Area”, we will put in place a 3-stage pipeline.
**Candidate Metric Related to Data (in-)Accuracy**

<table>
<thead>
<tr>
<th>M1</th>
<th>Data (In-)Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>M1 encompass 2 sub-metrics</strong></td>
<td></td>
</tr>
<tr>
<td>M1.1</td>
<td>Number of “validated complaints” per million registrations</td>
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<tr>
<td></td>
<td>A “validated complaint” is a complaint received by the ICANN compliance department that has been acted on. In other words, this is not an obviously frivolous complaint.</td>
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<tr>
<td>M1.2</td>
<td>whois.icann.org/en/whoisars</td>
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</tbody>
</table>
Candidate Metrics Related to Abuse

<table>
<thead>
<tr>
<th></th>
<th>Number of abuses in the ICANN DAAR* feeds for each TLD</th>
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</thead>
<tbody>
<tr>
<td>M2</td>
<td></td>
</tr>
<tr>
<td>M2.1</td>
<td>Spam</td>
</tr>
<tr>
<td>M2.2</td>
<td>Phishing</td>
</tr>
<tr>
<td>M2.3</td>
<td>Malware</td>
</tr>
<tr>
<td>M2.4</td>
<td>Botnet</td>
</tr>
</tbody>
</table>

(*)DAAR: Domain Abuse Activity Reporting: https://www.icann.org/octo-ssr/daar
<p>| M3 | The overhead to the minimum traffic that would be required in a “best case” scenario where all DNS resolvers were only asking for TLDs that exist and would respect the associated TTLs. |
| M4 | Usage &amp; Leakage, as seen at Recursive Servers |</p>
<table>
<thead>
<tr>
<th>M5</th>
<th>% of top 10k DNS resolvers interfering with end-user DNS traffic</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5.1</td>
<td>% of top 10k resolvers giving falsified answers</td>
</tr>
<tr>
<td>M5.2</td>
<td>% of top 10k resolvers intercepting port 53</td>
</tr>
</tbody>
</table>

M5 encompasses 2 sub-metrics.
ITHI Protocol Parameters

Scoped to DNS Related Registries
<table>
<thead>
<tr>
<th>M6</th>
<th>DNS Protocol Parameter Usage</th>
</tr>
</thead>
</table>

M6 encompass the list of parameters and their frequencies plus a list of unregistered parameters (and their frequencies).
| M7 | # of DNSSEC-Signed TLDs |