Toward a Risk Management Framework for the DNS

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Who we are

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A risk management framework is

not a risk or threat assessment

but what you put the assessment into

that helps you manage risks

and prioritise actions and investments

to mitigate the risks
Risk frameworks in the wild
## How we will build it

<table>
<thead>
<tr>
<th>Step</th>
<th>Complete</th>
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<tbody>
<tr>
<td>Come to Toronto to gather information</td>
<td>✔️</td>
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<tr>
<td>Develop principles to cover DNS Risk Management</td>
<td>✔️</td>
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<tr>
<td>Analyse candidate frameworks against principles</td>
<td>✔️</td>
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<tr>
<td>Tailor it to fit multistakeholder environment</td>
<td>✔️</td>
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<tr>
<td>Test it using example risks from DSSA WG</td>
<td>✔️</td>
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<tr>
<td>Present it at Beijing</td>
<td>✔️</td>
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RMF Principles

• ICANN is a unique identity, embedded in a community of interest
• The DNS is a technically unique and important system
• Provide a means to fostering an enduring risk culture within ICANN
• Avoid a monoculture
• Adapt not reinvent
• Process is not a substitute for thought
• Cover risks that are within ICANN’s sphere of concern, but not necessarily under its control
Westlake Governance Principles

• For practitioners, by practitioners

• Outputs must be actionable

• Actions must be measurable
One Size Does Not Fit All

Controllable Risks
One Size Does Not Fit All

- Controllable Risks
- External Events
One Size Does Not Fit All

Controllable Risks

External Events

Strategic Risks

Risk framework - controllable risks

Controllable Risks

1. Identify Risk (brainstorming)
2. Assessment (analysis, deep dive)
3. Likelihood Impact
4. Options
5. Technical Mitigation
6. Rules & Protocols
7. Monitor compliance
Risk framework - external events

**Controllable Risks**

1. **Identify Risk** (brainstorming)
   - **Assessment** (analysis, deep dive)
     - Likelihood Impact
     - Options
     - Technical Mitigation
     - Rules & Protocols
     - Monitor compliance

2. **Classify**

**External Events**

1. **Assessment** (wargaming, scenario planning)
   - Likelihood Impact
   - Prioritise
   - Defend (manage impact)
   - Monitor
Taxonomy of Risk

Controllable Risks

External Events

ICANN (Board has direct influence)

ICANN COMMUNITY (ICANN seeks consensus)

WIDER INTERNET COMMUNITY (ICANN communicates)
Who does what: external events

**LEGEND: TASKS**

- ICANN
- ICANN Community

**ICANN only**

- Options to defend → Prioritise → Defend (manage impact) → Monitor → Reassess

**ICANN community**

- Options to defend → Prioritise → Defend (manage impact) → Monitor → Reassess

**Wider Internet community**

- Options to defend → Communicate → Defend (manage impact) → Monitor → Reassess

Assessment

(analysis, deep dive)

Who is involved?
Who does what: strategic risks
(Consequences of a business decision)
Taxonomy of Risk - Examples

Controllable Risks
- Technical Attacks
- DNS S/W
- DDOS
- GTLDs

External Events
- DNS replaced
- Governance change

Strategy Risks
- ICANN
- IPv6
- Open content

WIDER INTERNET COMMUNITY
- ICANN COMMUNITY

(Board has direct influence)
(ICANN seeks consensus)
(ICANN communicates)
## Next steps

<table>
<thead>
<tr>
<th>Step</th>
<th>Status</th>
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<tbody>
<tr>
<td>Present proposed RMF at Beijing</td>
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<tr>
<td>Seek community and staff feedback on the proposed RMF</td>
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<td>Further testing of RMF using example risks from DSSA WG</td>
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<td>Agree with ICANN staff Principles for developing:</td>
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<tr>
<td>- Risk Triggers</td>
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<td>- Escalation processes</td>
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<td>- Mitigation or response actions</td>
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<td>Revise RMF as appropriate</td>
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<tr>
<td>Assess preparedness of staff</td>
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<tr>
<td>Present final RMF at Durban</td>
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Let’s talk

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