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POLICY  
FORUM



# SSAC Work Session

DNSSEC Operational Considerations WP

10 June 2026

# Agenda

- Overview of Progress
- Discussion of Early Findings
- Review of Remaining Sections
- Timeline Milestones

# Overview of Progress



1 Introduction



2 DNSSEC Functional Elements and Motivating Factors



3 Current State Analysis



4 Determinants for Signing



5 Determinants for Validations



6 Findings



7 Recommendations

# Overview of Progress

## **1 Introduction**

## **2 DNSSEC Functional Elements and Motivating Forces**

2.1 The Benefits and Utility of DNSSEC

2.2 Functional Elements with Signing

2.3 Functional Elements with Validation

## **3 Current State Analysis**

3.1 DNSSEC Deployment Status

3.2 DNSSEC Outage Events

3.3 DNSSEC Software, Tooling & Automation

## **4 Determinants for DNSSEC Signing**

4.1 Deployment scenarios and risk profiles

4.2 Technical determinants

4.3 Non-technical determinants

4.4 Security determinants

## **5 Determinants for DNSSEC Validation**

5.1 Deployment scenarios and risk profiles

5.2 Technical determinants

5.3 Non-technical determinants

## **6 Findings**

## **7 Recommendations**

# Early Findings

## Registrar support

Registrars play an important role in promoting DNSSEC deployment (e.g., the availability of DS uploading channels, supported algorithms, automation and tooling)

## Tooling & automation

Tooling and automation have significantly offloaded DNSSEC operational complexities

## Financial incentives & other non-technical issues

Financial incentives are notably effective as non-technical considerations Knowledgeable individuals or teams to manage DNSSEC issues is lacking for some organizations

## Impacts vary by context

Domains with many delegations and high-profile domains can have a greater impact

# Remaining Sections

## Sec. 4 Determinants for Signing

### Technical Determinants

- 4.2.5 Infrastructure
- 4.2.6 Overhead and performance
- 4.2.7 Outsourcing

### Nontechnical Determinants

- 4.3.1 Knowledge, expertise, & personnel
- 4.3.4 User expectations and social influencers
- 4.3.5 Promotional Efforts

## Sec. 5 Determinants for Validation

### Technical Determinants

- 5.2.2 Infrastructure

### Nontechnical Determinants

- 5.3.1 Knowledge & expertise
- 5.3.2 Regulatory and compliance issues
- 5.3.3 User expectations and social influencers
- 5.3.4 Promotional Efforts

# Timeline Milestones



# Questions?

**SSAC-RSSAC Community Open Mic**  
**Thursday 14:45–16:00**

# Thank you!