SVTA Configuration Interface Project

IETF-117 (July 2023)

The SVTA Configuration Interface Plan

- **Problem Statement:** The need for an industry-standard API and configuration metadata model becomes increasingly important as content and service providers:
  - Continue to leverage multiple CDNs
  - Leverage Open Caching Systems that need to interoperate with CDNs
  - Automate their operations

- **Scope:** CDNs and Open Caching Systems have similar configuration metadata definitions and challenges - let's tackle them together in a single standard.

- **Don't start from scratch:** Extend the IETF CDNI work started many years ago

- **Share:** Contribute our extensions back to the IETF to be incorporated onto the CDNI standard. That's why we are here today.

SVTA Configuration Interface V 2.0

Part 1: Overview & Architecture
Part 2: CDNI Metadata Model Extensions

- 2.a Metadata Expression Language [IETF 118]
- 2.b Processing Stages Metadata [IETF 118]
- 2.c Cache Control Metadata [IETF 117] draft-power-cdni-cache-control-metadata-01
- 2.d Source Access Control Metadata [IETF 119]
- 2.e Client Access Control Metadata [IETF 119]
- 2.f Edge Control Metadata [IETF 117] draft-siloniz-cdni-edge-control-metadata-01
- 2.g Open Caching Metadata [IETF 119]
- 2.h Private Features Metadata [IETF 119]
- 2.i Protected Secrets Metadata [IETF 117] draft-rosenblum-cdni-protected-secrets-metadata-01

Part 3: Simple Configuration Metadata API (adds PUT capability to RFC8006 MI Interface)
Part 4: Service Configuration Model (a layer above HostIndex for common definitions)
Part 5: Metadata Capabilities (FCI.MetadataExtended for granular advertisements)
Part 6: Orchestration API (Decouples configuration publishing and deployment)
Part 7: Terraform Interface (Industry Standard Terraform Resource definitions for SVTA/CDNI)

Configuration Interface V 2.0 Architecture