

New and Revised SMPTE Standards

SMPTE is pleased to announce the availability of SMPTE ST 2138-50 *Catena – Authenticity - Integrity - Access Control - Confidentiality and Availability*, as a Public Committee Draft (PCD) for review and commenting, accessible at: <https://github.com/SMPTE/st2138-50>.

SMPTE ST 2138-50 is the second in the SMPTE ST 2138 Catena Suite to become available as a Public Committee Draft, joining the earlier release of PCD SMPTE ST 2138-10 *Catena – Model*, which is also open for review and commenting: <https://github.com/SMPTE/ST-2138-10>.

SMPTE ST 2138-50 Details

Security, when it comes to control of media devices, is no longer a “nice to have.” It is a requirement.

This document is focused on how to securely use the control protocol specified in ST 2138-10 with respect to authenticity, integrity, access control, confidentiality and availability.

This document is applicable to how the following are to be supported by compliant devices and services:

- Authenticity
 - ◇ Clients can verify that communications are from the device and no other source.
 - ◇ Devices can verify that the access tokens accompanying each request were issued by the authorization server in the token’s iss claim.
- Integrity – Clients can trust that communications from a compliant device or service have not been tampered with in transit.

- Which OAuth2 Access Control flows are used by clients and supported by a compliant device or service.
- Access Control
 - ◇ The responsibility of the device to provide Policy Enforcement Point functionality, and how this responsibility may optionally be divided between devices and gateways.
 - ◇ Access revocation functionality required by the device.
 - ◇ Correct handling in the event of access token expiry.
- Confidentiality – Confidentiality of data in transit.
- Availability – How timely access to device capabilities is promoted by using JWS rather than opaque access tokens, thereby avoiding round trips by devices to the Authorization server’s introspection endpoint.

Please also visit the SMPTE ST 2138 Catena landing page (<https://www.smpte.org/standards/st2138>) to learn more about the Catena Suite of standards and the SMPTE Public Committee Drafts page (<https://www.smpte.org/public-committee-drafts>) to review drafts of other SMPTE standards documents.

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