

§ 170.315(j)(20) Workflow triggers for decision support interventions—clients

Test Procedure

This Test Procedure illustrates the test steps required to certify a Health IT Module to this criterion. Please consult the most recent ASTP/ONC Final Rule on the [Certification Regulations page](#) for a detailed description of the certification criterion with which these testing steps are associated. ASTP/ONC also encourages developers to consult the Certification Companion Guide in tandem with the test procedure as it provides clarifications that may be useful for product development and testing.

Note: The tests step order does not necessarily prescribe the order in which the tests should take place.

Revision History

Version #	Description of Change	Version Date
1.0	Initial publication	9/5/2025

Regulation Text

§ 170.315(j)(20) Workflow triggers for decision support interventions—clients.

Support the requirements applicable to a “CDS Client” according to at least one of the implementation specifications in § 170.215(f) including the following:

- (i) *Registration.* Support registration capabilities applicable to “CDS Clients”.
- (ii) *Authentication and authorization.* Support authentication and authorization, including the following:
 - (A) Support for client authentication using JSON web tokens (JWT).
 - (B) Support for data access authorization of a “CDS Service” using access tokens.
- (iii) *Workflow triggers.* Support the execution of decision support workflow triggers.
- (iv) *Information exchange.* Send a decision support request to a “CDS Service,” including support for the following:
 - (A) *Resource access via API.* Support access to HL7 FHIR Resources via a RESTful API to support decision support intervention workflows according to the “FHIR Resource Access” section.
 - (B) *Receive and display response.* Support the receipt of a decision support response, including support for the display of the contents of a decision support response to an end-user.

Standard(s) Referenced

Paragraph (b)(4)(i)

§ 170.215(f)(1) [HL7® CDS Hooks Implementation Guide, Version 2.0.1—STU 2 Release 2](#)

Required Tests

Paragraph (j)(20)

System Under Test	Test Lab Verification
<p>The health IT developer demonstrates the Health IT Module supports the following capabilities as a “CDS Client” in accordance with an implementation specification at § 170.215(f):</p> <ol style="list-style-type: none"> 1. CDS-1: Registration with a “CDS Service” including all configuration necessary to invoke a CDS Hook, authenticate as a client, and authorize FHIR resource access. 2. CDS-2: Trigger an invocation of a “CDS Service” in accordance with a CDS Hook. 3. CDS-3: Authentication as a client with a “CDS Service” using JSON web tokens (JWT). 4. CDS-4: Authorization of a “CDS Service” to have the FHIR resource access necessary to enable the “CDS Service” including provisioning an access token. 5. CDS-5: FHIR resource access to enable a “CDS Service.” This may include supporting FHIR resource “read” and “search” requests from the “CDS Service.” 6. CDS-6: As applicable, processing and display of clinical decision support provided by a “CDS Service.” 	<p>The tester verifies the Health IT Module supports the following capabilities as a “CDS Client” in accordance with an implementation specification at § 170.215(f):</p> <ol style="list-style-type: none"> 1. CDS-1: Registration with a “CDS Service” including all configuration necessary to invoke a CDS Hook, authenticate as a client, and authorize FHIR resource access. 2. CDS-2: Trigger an invocation of a “CDS Service” in accordance with a CDS Hook. 3. CDS-3: Authentication as a client with a “CDS Service” using JSON web tokens (JWT). 4. CDS-4: Authorization of a “CDS Service” to have the FHIR resource access necessary to enable the “CDS Service” including provisioning an access token. 5. CDS-5: FHIR resource access to enable a “CDS Service.” This may include supporting FHIR resource “read” and “search” requests from the “CDS Service.” CDS-6: As applicable, processing and display of clinical decision support provided by a “CDS Service.”

Testing Tool

Inferno Framework (link to be provided at a later date)

Test Tool Documentation (link to be provided at a later date)