



**HL7/IHE Specification: Service-oriented Device
Point-of-care Interoperability (SDPi) Technical
Framework, Edition 1**

January 2025

HL7 STU Ballot

**Sponsored by:
Devices Work Group**

Copyright © 2024 Health Level Seven International ® ALL RIGHTS RESERVED. The reproduction of this material in any form is strictly forbidden without the written permission of the publisher. HL7 and Health Level Seven are registered trademarks of Health Level Seven International. Reg. U.S. Pat & TM Off.

Use of this material is governed by HL7's [IP Compliance Policy](#).

IMPORTANT NOTES:

HL7 licenses its standards and select IP free of charge. **If you did not acquire a free license from HL7 for this document**, you are not authorized to access or make any use of it. To obtain a free license, please visit <http://www.HL7.org/implement/standards/index.cfm>.

If you are the individual that obtained the license for this HL7 Standard, specification or other freely licensed work (in each and every instance "Specified Material"), the following describes the permitted uses of the Material.

A. HL7 INDIVIDUAL, STUDENT AND HEALTH PROFESSIONAL MEMBERS, who register and agree to the terms of HL7's license, are authorized, without additional charge, to read, and to use Specified Material to develop and sell products and services that implement, but do not directly incorporate, the Specified Material in whole or in part without paying license fees to HL7.

INDIVIDUAL, STUDENT AND HEALTH PROFESSIONAL MEMBERS wishing to incorporate additional items of Special Material in whole or part, into products and services, or to enjoy additional authorizations granted to HL7 ORGANIZATIONAL MEMBERS as noted below, must become ORGANIZATIONAL MEMBERS of HL7.

B. HL7 ORGANIZATION MEMBERS, who register and agree to the terms of HL7's License, are authorized, without additional charge, on a perpetual (except as provided for in the full license terms governing the Material), non-exclusive and worldwide basis, the right to (a) download, copy (for internal purposes only) and share this Material with your employees and consultants for study purposes, and (b) utilize the Material for the purpose of developing, making, having made, using, marketing, importing, offering to sell or license, and selling or licensing, and to otherwise distribute, Compliant Products, in all cases subject to the conditions set forth in this Agreement and any relevant patent and other intellectual property rights of third parties (which may include members of HL7). No other license, sublicense, or other rights of any kind are granted under this Agreement.

C. NON-MEMBERS, who register and agree to the terms of HL7's IP policy for Specified Material, are authorized, without additional charge, to read and use the Specified Material for evaluating whether to implement, or in implementing, the Specified Material, and to use Specified Material to develop and sell products and services that implement, but do not directly incorporate, the Specified Material in whole or in part.

NON-MEMBERS wishing to incorporate additional items of Specified Material in whole or part, into products and services, or to enjoy the additional authorizations granted to HL7 ORGANIZATIONAL MEMBERS, as noted above, must become ORGANIZATIONAL MEMBERS of HL7.

Please see <http://www.HL7.org/legal/ippolicy.cfm> for the full license terms governing the Material.

Ownership. Licensee agrees and acknowledges that **HL7 owns** all right, title, and interest, in and to the Materials. Licensee shall **take no action contrary to, or inconsistent with**, the foregoing.

Licensee agrees and acknowledges that HL7 may not own all right, title, and interest, in and to the Materials and that the Materials may contain and/or reference intellectual property owned by third parties ("Third Party IP"). Acceptance of these License Terms does not grant Licensee any rights with respect to Third Party IP. Licensee alone is responsible for identifying and obtaining any necessary licenses or authorizations to utilize Third Party IP in connection with the Materials or otherwise. Any actions, claims or suits brought by a third party resulting from a breach of any Third Party IP right by the Licensee remains the Licensee's liability.

Following is a non-exhaustive list of third-party terminologies that may require a separate license:

| Terminology | Owner/Contact |
|--|---|
| Current Procedures Terminology (CPT) code set | American Medical Association https://www.ama-assn.org/practice-management/cpt-licensing |
| SNOMED CT® | SNOMED CT® International; http://www.snomed.org/snomed-ct/get-snomed-ct or info@ihtsdo.org |
| Logical Observation Identifiers Names & Codes (LOINC®) | Regenstrief Institute |
| International Classification of Diseases (ICD) codes | World Health Organization (WHO) |
| NUCC Health Care Provider Taxonomy code set | American Medical Association. Please see www.nucc.org . AMA licensing contact: 312-464-5022 (AMA IP services) |
| Medical Device Communication Nomenclature (MDC) | The Institute of Electrical and Electronics Engineers, Inc. (IEEE) |

January 2025 Ballot – SDPi, Edition 1 – Overview

This Service-oriented Device Point-of-care Interoperability (SDPi) Technical Framework, Edition 1, specification is the result of a multi-year joint HL7-IHE Gemini project. This specification was balloted in HL7 January 2024 & May 2024 ballot cycles, resulting in a successful “passing” ballot. For this January 2025 ballot cycle, all comments from 2024 have been applied in release 2.0.0 of the SDPi specification.

For anyone approaching the extensive SDPi specification, it is a daunting task to understand where to start and what to focus on. For this JAN2025 ballot cycle, please focus review on the following areas of the specification:

1. IHE SDPi-P Profile, Managed Discovery Option

- a. A new profile option – the first for the SDPi profiles – has been added to support “Managed Discovery” (see section *1:10.2.1 Managed Discovery Option*);
- b. This option provides a secure approach for participating service “consumer” systems to discover the presence (or absence) of participating service “provider” systems. This is a more secure option than the default WS-Discovery “ad hoc” approach, which is performed apart from secure exchanges and utilizes broadcast messaging;
- c. In addition to the option section mentioned above, a new Discovery Proxy actor has been defined along with two new transactions and related TF-2A messaging examples.

2. HL7 FHIR Gateway – 1st Release

- a. A first, very simple reference from the SDPi FHIR Gateway specification to the related HL7 PoCD FHIR Implementation Guide has been added (see section *2:B.5 SDPi FHIR Gateway*);
- b. Please review both the SDPi reference and the related IG content.

3. Enhanced Requirements Modeling Information

- a. The conceptual overview of how requirements are modeled in the specification has been significantly expanded;
- b. Please review this content in section *Appendix 1:A Requirements Management for Plug-and-Trust Interoperability*, and especially section *1:A.4 SDPi Requirements Modeling & Integration*;
- c. The approach described will be implemented in subsequent 2025 releases of the SDPi specification; so early feedback on the approach described will be very helpful to the project team.

Of course, ballot review is welcomed for **all** the content in this release!

Note that this joint Gemini SDPi content is maintained in *mirrored* Github repositories: [IHE DEV.SDPi](#) & [HL7 DEV.SDPi](#). Unique for this release is the process by which HL7 Ballot Jira issues are linked to IHE DEV.SDPi Github Issues (which are then linked back to the source Jira issue), enabling tracking for all the changes that were made to the source document, along with who made those changes and who reviewed them pre-release. Review the release-specific CHANGELOG.md in Github to trace from changes to the specification back to the HL7 ballot JIRA ticket resolution that they applied.

Thank you in advance for your review of the SDPi, Edition 1 specification!