V2_SOGI_EXCH_INFORM_R1.2_2023SEP

HL7 Specification - V2: Sexual Orientation and Gender Identity (SOGI) Data Exchange Profile Release 1.2

September 2023

HL7 Informative Document

Sponsored by:
V2 Management Group

Copyright © 2023 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.

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 Trademark. 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)

© 2023 Health Level Seven International. All rights reserved.

Table of Contents

SOGI Observation-Based Data Exchange Profile **3**

Revision Log: **3**

SOGI_Component - ID: 2.16.840.1.113883.9.281 ..... **3**

HL7 Working groups that had opportunity to review prior to publication: 4

Out of Scope 4

Details for implementation 4

Indicating use of this profile 4

OBX representation for Sexual Orientation (SO) 4

OBX representation for Gender Identity (GI) 5

OBX representation for Pronouns 5

Updates to Message Structures 5

SOGI Observation-Based Data Exchange Profile

Revision Log:

5/23/2022: Updated the ORM message structure to show the PATIENT_OBSERVATION_Group to precede the Visit group.

7/12/2023: Updated to remove the “short-term” modifier and enhance existing guidance per V2-25412.

SOGI_Component - ID: 2.16.840.1.113883.9.281

This profile component can be used in ANY message structure in ANY version, when data about Sexual Orientation (SO) and Gender Identity (GI) data relating to the patient needs to be exchanged. This approach may be used with trading partner agreement as an alternative to the

© 2023 Health Level Seven International. All rights reserved.

guidance provided in the Gender Harmony Cross-paradigm IG. For a subset of Gender Harmony related concepts, this guidance supports sending

- A coded value
- An optional text comment

HL7 Working groups that had opportunity to review prior to publication:

V2 Management (Author), Order & Observation (main domain affected), Public Health (provided input for Immunization), Conformance, Infrastructure and Messaging, Financial Management, Patient Administration, Patient Care, Vocabulary, Structured Documents, Pharmacy; endorsed by the US Realm Steering Committee

Out of Scope

This profile does not address the sending of either Recorded Sex or Gender values or Sex Parameter for Clinical Use.

Details for implementation

Indicating use of this profile

Populate one occurrence of MSH-21 as follows: 'SOGI^^2.16.840.1.113883.9.281^ISO'

OBX representation for Sexual Orientation (SO)

- OBX-2 SHALL indicate a coded data type (typically either CE or CWE)
- OBX-3 SHALL use LOINC 76690-7 Sexual orientation
- OBX-5 SHALL be sent as coded values with minimum support as described in HL70823 in Chapter 2C of V2.9.1 for the universal realm
- OBX-11 may use the following values: 'F', 'C'
- OBX-14 should be populated with the date/time the answer was recorded from the patient
- If used, OBX-29 SHALL be populated with 'QST'

Examples:

Multiple values for Sexual Orientation with different valid concepts - Note that a given individual may have multiple observations:

OBX|1|CWE|76690-7^Sexual orientation^LN|1|20430005^Heterosexual^SCT||||||F|||20220404||||||||||||QST

© 2023 Health Level Seven International. All rights reserved.

OBX|2|CWE|76690-7^Sexual orientation^LN|2|OTH^Other^NULLFL^^^^^^questioning sexuality||||||F|||20220404|||||||||||||QST

OBX representation for Gender Identity (GI)

- OBX-2 SHALL indicate a coded data type (typically either CE or CWE)
- OBX-3 SHALL use LOINC 76691-5 Gender Identity
- OBX-5 SHALL be sent as coded values with minimum support of Gender Harmony defined values when available www.hl7.org/permalink/?ValueSetGenderIdentity for the universal realm
- OBX-11 may use the following values: 'F', 'C'
- OBX-14 should be populated with the date/time the answer was recorded from the patient
- If used OBX-29 SHALL be populated with 'QST'

Examples:

Multiple values for Gender Identity:

OBX|1|CWE|76691-5^Gender Identity^LN|1|446141000124107^Female identity^SCT^LA22879-3^Identifies as female^LN||||||F|||20220404|||||||||||||QST

OBX|2|CWE|76691-5^Gender Identity^LN|2|446131000124102^Genderqueer^SCT^LA22882-7^Identifies as non-conforming gender^LN||||||F|||20220404|||||||||||||QST

OBX representation for Pronouns

- OBX-2 SHALL indicate a coded data type (typically either CE or CWE)
- OBX-3 SHALL use LOINC 90778-2 Personal pronouns - Reported
- OBX-5 SHALL be sent as coded values
    - An example Personal Pronouns value set is available for consideration as Gender Harmony defined values www.hl7.org/permalink/?ValueSetPersonalPronouns, however appropriate values are likely to vary by location – trading partners must agree upon a specific value set to exchange
- OBX-11 may use the following values: 'F', 'C'
- OBX-14 should be populated with the date/time the answer was recorded from the patient
- If used OBX-29 SHALL be populated with 'QST'

Examples:

Single value for Pronouns:

OBX|1|CWE|90778-2^Personal Pronouns - Reported^LN|1|LA29520-6^they/them/their/theirs/themselves^LN||||||F|||20220404|||||||||||||QST

Updates to Message Structures

© 2023 Health Level Seven International. All rights reserved.

The default behavior for a message is to insert the PATIENT_OBSERVATION segment group defined like this, unless the domain already has an existing solution defined (e.g. Immunization):

Segments	Description	Status	Chapter
[{	--- PATIENT_OBSERVATION begin		
OBX	Observation for Patient		7
[{ PRT }]	Participation (for Patient_Observation) - if used base version		7
[{ NTE }]	Notes and Comments (for Patient_Observation)		2
}]	--- PATIENT_OBSERVATION end		

If available, systems will populate one or more PATIENT_OBSERVATION groups to share Sexual Orientation or Gender Identity data. Note that a given individual may have multiple observation groups for either Sexual Orientation or Gender Identity. That is, an individual may identify with either multiple Sexual Orientations and/or Gender Identities. Receiving systems should be prepared to accept messages where the PATIENT_OBSERVATION group repeats using the same value in OBX-3 for either Sexual Orientation or Gender Identity. Zero or more NTE segments in the same PATIENT_OBSERVATION segment group will allow any free texts associated with the value reported in the preceding OBX-5.

Specifically for Lab messages

OML^O21 - showing v2.5.1 base structure with this profile bolded in the message structure definition

Segments	Description	Status	Chapter
MSH	Message Header		2
[{ SFT }]	Software		2
[{ NTE }]	Notes and Comments		2
[	--- PATIENT begin		
PID	Patient Identification		3
[PD1]	Additional Demographics		3

© 2023 Health Level Seven International. All rights reserved.

[{ NTE }]	Notes and Comments (for Patient ID)		2
[{ NK1 }]	Next of Kin/Associated Parties		3
[{	**--- PATIENT_OBSERVATION begin**		
OBX	**Observation for Patient**		**7**
[{ PRT }]	**Participation (for Patient_Observation) - if used base version**		**7**
[{ NTE }]	**Notes and Comments (for Patient_Observation)**		**2**
}]	**--- PATIENT_OBSERVATION end**		
[	--- PATIENT_VISIT begin		
...	as before		

When using this profile, the optional repeating PATIENT_OBSERVATION segment group is sent immediately preceding the PATIENT_VISIT segment group. The PATIENT_OBSERVATION segment group will contain:

- A required OBX segment
- Optional, repeating PRT segments if implemented in the base standard
- Optional, repeating NTE segments

ORM_O01 - showing v2.5.1 base structure with this profile bolded in the message structure definition

Segments	Description	Status	Chapter
MSH	Message Header		2
[{ NTE }]	Notes and Comments		2
[	--- PATIENT begin		
PID	Patient Identification		3
[PD1]	Additional Demographics		3
[{ NTE }]	Notes and Comments (for Patient ID)		2
[{	**--- PATIENT_OBSERVATION begin**		
OBX	**Observation for Patient**		**7**
[{ PRT }]	**Participation (for Patient_Observation) - if used base version**		**7**
[{ NTE }]	**Notes and Comments (for Patient_Observation)**		**2**

© 2023 Health Level Seven International. All rights reserved.

}]	**--- PATIENT_OBSERVATION end**		
[	--- PATIENT_VISIT begin		
...	as before		

When using this profile, the optional repeating PATIENT_OBSERVATION segment group is sent immediately preceding the PATIENT_VISIT segment group. The PATIENT_OBSERVATION segment group will contain:

- A required OBX segment
- Optional, repeating PRT segments if implemented in the base standard
- Optional, repeating NTE segments

ORU_R01 - showing v2.5.1 base structure with this profile bolded in the message structure definition

Segments	Description	Status	Chapter
MSH	Message Header		2
[{ SFT }]	Software		2
[{ NTE }]	Notes and Comments		2
[	--- PATIENT_RESULT begin		
[	--- PATIENT begin		
PID	Patient Identification		3
[PD1]	Additional Demographics		3
[{ NTE }]	Notes and Comments (for Patient ID)		2
[{ NK1 }]	Next of Kin/Associated Parties		3
[{	**--- PATIENT_OBSERVATION begin**		
OBX	**Observation for Patient**		7
[{ PRT }]	**Participation (for Patient_Observation) - if used base version**		7
[{ NTE }]	**Notes and Comments (for Patient_Observation)**		2
}]	**--- PATIENT_OBSERVATION end**		
[	--- PATIENT_VISIT begin		
...	as before		

© 2023 Health Level Seven International. All rights reserved.

An optional repeating PATIENT_OBSERVATION segment group already exists before the PATIENT_VISIT group in the ORU message in version 2.7 and up, consisting of a required OBX segment and an optional, repeating PRT segment.

When using this profile, the optional repeating NTE segment is added following the PRT segment.

For Immunization related messages in v2.5.1 in the US:

American Immunization Registry Association (AIRA) already had created guidance on how to report patient level data in vaccination messages - see page 4 of this document: https://repository.immregistries.org/files/resources/5938386822754/message_structure_guidance_document_v1_1__formatted.pdf

Implementers should follow the guidance per the document and build the OBX segments for SOGI as per the guidance on this page above

© 2023 Health Level Seven International. All rights reserved.