



**HL7 Short Term Solution - V2: Sexual Orientation
and Gender Identity (SOGI) Data Exchange Profile**
Release 1

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HL7 Informative Document

**Sponsored by:
V2 Management Group**

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Terminology	Owner/Contact
Current Procedures Terminology (CPT) code set	American Medical Association https://www.ama-assn.org/practice-management/cpt-licensing
SNOMED CT	SNOMED 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)

Short Term: SOGI Data Exchange Profile

V2 Management Group

Exported on 04/26/2022

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1 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. It will be superseded when the Gender Harmony Cross-paradigm IG has been balloted and published. It supports sending

- A coded value
- An optional text comment

1.1 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

1.2 Out of Scope

This profile does not address the sending of either Recorded Sex or Gender values or Sex for Clinical Use, nor is it binding to long-term solutions proposed in future balloted versions of the v2 base standard.

1.3 Details for implementation

1.3.1 Indicating use of this profile

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

1.3.2 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](https://loinc.org/76690-7/)¹
- OBX-5 SHALL be sent as coded values with minimum support of Gender Harmony defined values when available <ADD LINK>
 - **For the US:** OBX-5 SHALL support at minimum the [values coded as per USCDI v2](https://www.healthit.gov/isa/taxonomy/term/2741/uscdi-v2)²; additional values may need to be added to support local regulations and use of SNOMED CT to encoded them is encouraged; local codes are allowed by trading partner agreement
- 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'

1.3.2.1 Examples:

Multiple values for Sexual Orientation with different validNote that a given individual may have multiple observations:

¹ <https://loinc.org/76690-7/>

² <https://www.healthit.gov/isa/taxonomy/term/2741/uscdi-v2>

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

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

1.3.3 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](https://loinc.org/76691-5/)³
- OBX-5 SHALL be sent as coded values with minimum support of Gender Harmony defined values when available <ADD LINK @RobMcClure> for the universal realm
 - **For the US:** OBX-5 SHALL support at minimum the [values coded as per USCDI v2](https://www.healthit.gov/isa/taxonomy/term/2736/uscdi-v2)⁴; additional values may need to be added to support local regulations and use of SNOMED CT to encoded them is encouraged; local codes are allowed by trading partner agreement
- 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'

1.3.3.1 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^LN|||||F|||20220404|||||||||QST

1.3.4 Updates to Message Structures

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		

³ <https://loinc.org/76691-5/>

⁴ <https://www.healthit.gov/isa/taxonomy/term/2736/uscdi-v2>

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 preceeding OBX-5.

1.3.4.1 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
[[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		

Segments	Description	Status	Chapter
...	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_VISIT begin		
PV1	Patient Visit		3
[PV2]	Patient Visit - Additional Info		3
]	--- PATIENT_VISIT end		
[{	--- INSURANCE begin		
IN1	Insurance		6
[IN2]	Insurance Additional Info		6
[IN3]	Insurance Add'l Info - Cert.		6

Segments	Description	Status	Chapter
}}	--- INSURANCE end		
[GT1]	Guarantor		6
[[AL1]]	Allergy Information		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 end		
{	---ORDER 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		

Segments	Description	Status	Chapter
[	--- 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		

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.

1.3.4.2 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