

# IHE Change Proposal

## Tracking information

IHE Domain:	IT Infrastructure
Change Proposal ID:	CP-ITI-1297
Change Proposal Status:	Completed
Date of last update:	9 16 July 2025
Person assigned:	steven.nichols@gehealthcare.com

## Change Proposal Summary Information

HL7 Gender Harmony Transaction Updates			
Submitter's Name(s) and email address(es):	steven.nichols@gehealthcare.com		
Submission Date:	1 February 2024		
Profile(s) affected:	PDQm, PIXm, PDQ, PMIR, Metadata used in Document Sharing profiles		
Actor(s) affected:	See below		
IHE Technical Framework or Supplement modified:	ITI		
Volume(s) and Section(s) affected:	Vol, Vol2 and Vol3		
<p>Detailed Rationale for Change:</p> <p>The HL7 Gender Harmony Project developed a logical model to include information in electronic health records that supports the care of gender and sex diverse patients. This model includes requirements and examples for encoding sex and gender in HL7 v2.9.1, FHIR R5, and CDA.</p> <p>See <a href="#">The HL7 Cross Paradigm Implementation Guide: Gender Harmony</a></p> <p>See <a href="#">FHIR IG statistics</a> for usage details</p> <p>See <a href="https://hl7.org/fhir/R5/patient.html#gender">https://hl7.org/fhir/R5/patient.html#gender</a> FHIR extensions</p> <p>Note: While the HL7 Gender Harmony Project did not address v3, the ITI Technical Committee has acknowledged the importance of incorporating sex and gender information in XCPD for enhanced cross-community patient discovery. However, due to the absence of provisions within the base standard, no immediate action is being taken.</p> <p>Below is an inventory of ITI transactions that were considered for adoption of the HL7 information model.</p>			
Profile	Std.	Transaction	Plan / Rationale
PDQ	v2		Add note explaining optionality of GSP and GSR in ITI-21.

PAM	v2	ITI-30	No change, since PID-8 is optional.
XCA / XDS	v2	ITI-18	Add note explaining optionality of GSP and GSC in the sourcePatientInfo Slot.
PIX	v2	ITI-9	N/A
PIX XPID	v2	ITI-10 ITI-64	N/A
PCF	v2	Appendix P	None, In a future CP, advanced <a href="#">Data Segmentation for Privacy</a> could be added.
PIX PDQ	v2	Appendix R	N/A
XDR XDS	ebRIM	ITI-41	Add note explaining optionality of GSP and GSC in the sourcePatientInfo Slot.
PIXv3 PDQv3 XCPD	v3	ITI-44 ITI-47 ITI-55	N/A - Gender Harmony did not address the HL7 v3 model, however transactions include the following note: <i>"..this attribute does not include terms related to clinical gender which is a complex physiological, genetic and sociological concept that requires multiple observations in order to be comprehensively described"</i>
PDQm	FHIR R4 (Patient)	ITI-78 ITI-119	Add individual-genderIdentity, individual-pronouns and individual-recordedSexOrGender extensions to PDQmPatient Add Gender Harmony to Referenced Standards.
mCSD	FHIR R4 (Practitioner)	ITI-90 ITI-91	The Gender Harmony extensions are not prohibited; individual-genderIdentity could be added to practitioner in a future CP.
PIXm	FHIR R4 (Patient)	ITI-83 ITI-104	Add dependency to PDQmPatient. Add Gender Harmony to Referenced Standards.
PMIR	FHIR R4 (Patient)	ITI-93	PMIR relies on PDQmPatient profile.
PCF	FHIR R4 (Consent)	ITI-108	N/A - Gender identity would not directly serve as an access permission or restriction, but might be used in consent-related scenarios.

BPPC XDS-SD XDW	The document use of Gender Harmony encoding in content profiles is not addressed in this CP.

## Proposed Change(s)

*Add the following section after Vol1:41.6.2 Use with the Internet User Authorization (IUA) Profile. Include a hyperlink to the Gender Harmony HL7 Cross Paradigm Implementation Guide*

### 1:41.6 PIXm Cross Profile Considerations

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#### 1:41.6.3 Use with the HL7 Cross Paradigm Implementation Guide: Gender Harmony - Sex and Gender Representation

When a person's gender identity, pronouns or recorded sex or gender are to be represented within the Patient resource, actors implementing this capability SHALL encode them as defined in the HL7 Cross Paradigm Implementation Guide: Gender Harmony - Sex and Gender Representation, Edition 1.

*Append the following to Vol1:38.6 PDQm Cross-Profile Considerations Profile. Include a hyperlink to the Gender Harmony HL7 Cross Paradigm Implementation Guide*

### 1:38.6 PDQm Cross-Profile Considerations

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When a person's gender identity, pronouns or recorded sex or gender are to be represented within the Patient resource, actors implementing this capability SHALL encode them as defined in the HL7 Cross Paradigm Implementation Guide: Gender Harmony - Sex and Gender Representation, Edition 1.

*Update Vol2:3.78 Mobile Patient Demographics Query [ITI-78] as follows:  
Include a hyperlink to the Gender Harmony HL7 Cross Paradigm Implementation Guide*

#### 2:3.78.3 Referenced Standards

HL7 FHIR Release 4

**HL7 Cross Paradigm Implementation Guide: Gender Harmony - Sex and Gender Representation, Edition 1**

*Update Vol1:2:3.119 Patient Demographics Match [ITI-119] as follows:*

*Include a hyperlink to the Gender Harmony HL7 Cross Paradigm Implementation Guide*

**2:3.119.3 Referenced Standards**

HL7 FHIR Release 4

**HL7 Cross Paradigm Implementation Guide: Gender Harmony - Sex and Gender Representation, Edition 1**

*Update Vol2:3.83 Mobile Patient Identifier Cross-reference Query [ITI-83] as follows:*

*Include a hyperlink to the Gender Harmony HL7 Cross Paradigm Implementation Guide*

**2:3.119.3 Referenced Standards**

HL7 FHIR Release 4

**HL7 Cross Paradigm Implementation Guide: Gender Harmony - Sex and Gender Representation, Edition 1**

*Update Vol2:3:104 Patient Identity Feed FHIR [ITI-104] as follows:*

*Include a hyperlink to the Gender Harmony HL7 Cross Paradigm Implementation Guide*

**2:3.104.3 Referenced Standards**

HL7 FHIR Release 4

**HL7 Cross Paradigm Implementation Guide: Gender Harmony - Sex and Gender Representation, Edition 1**

*Add Gender Harmony Extensions to Resource Profile: PDQm Patient Profile as follows.  
Changes are within the black border.*

*Editorial Note:*

*Modify PDQmMatch.fsh as follows:*

*...*

*\* extension contains*

*<http://hl7.org/fhir/StructureDefinition/patient-mothersMaidenName> named MothersMaidenName 0..1 **and***

*<http://hl7.org/fhir/StructureDefinition/individual-genderIdentity> named genderIdentity 0..\* **and***

*<http://hl7.org/fhir/StructureDefinition/individual-pronouns> named pronouns 0..\* **and***

<http://hl7.org/fhir/StructureDefinition/individual-recordedSexOrGender> named *recordedSexOrGender 0..\**

...

## Resource Profile: PDQm Patient Profile

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## Formal Views of Profile Content

Description of Profiles, Differentials, Snapshots and how the different presentations work.

Differential Table   Key Elements Table   Snapshot Table   Statistics/References   All

This structure is derived from Patient [↗](#)

Name	Flags	Card.	Type	Description & Constraints
Patient	<b>C</b>	0..*	Patient	Information about an individual or animal receiving health care services <b>iti-pdqm-linkstatus:</b> If Patient.link is present, then Patient.active SHALL be present
implicitRules		0..0		
Slices for extension		0..*	Extension	Extension <b>Slice:</b> Unordered, Open by value:url
MothersMaidenName	<b>S</b>	0..1	string	Mother's Maiden name <b>URL:</b> <a href="http://hl7.org/fhir/StructureDefinition/patient-mothersMaidenName">http://hl7.org/fhir/StructureDefinition/patient-mothersMaidenName</a>
genderIdentity	<b>S</b>	0..*	(Complex)	The individual's gender identity <b>URL:</b> <a href="http://hl7.org/fhir/StructureDefinition/individual-genderIdentity">http://hl7.org/fhir/StructureDefinition/individual-genderIdentity</a>
pronouns	<b>S</b>	0..*	(Complex)	The pronouns to use when communicating about an individual. <b>URL:</b> <a href="http://hl7.org/fhir/StructureDefinition/individual-pronouns">http://hl7.org/fhir/StructureDefinition/individual-pronouns</a>
recordedSexOrGender	<b>S</b>	0..*	(Complex)	A recorded sex or gender property for the individual <b>URL:</b> <a href="http://hl7.org/fhir/StructureDefinition/individual-recordedSexOrGender">http://hl7.org/fhir/StructureDefinition/individual-recordedSexOrGender</a>
modifierExtension		0..0		
identifier		1..*	Identifier	An identifier for this patient
system		1..1	uri	Assigning Authority ID or other identification namespace
value		1..1	string	The value that is unique
active	<b>S C</b>	0..1	boolean	Whether this patient's record is in active use
name	<b>S C</b>	0..*	HumanName	A name associated with the patient <b>iti-pdqm-patname:</b> Either Patient.name.given and/or Patient.name.family and/or Patient.name.text SHALL be present or a Data Absent Reason Extension SHALL be present.
telecom	<b>S</b>	0..*	ContactPoint	A contact detail for the individual
birthDate	<b>S</b>	0..1	date	The date of birth for the individual
address	<b>S</b>	0..*	Address	An address for the individual
link	<b>S C</b>	0..*	BackboneElement	Link to another patient resource that concerns the same actual person
type		1..1	code	replaced-by   replaces   refer   seealso

Add Gender Harmony Extensions to Resource Profile: PIXm Patient constraints for Feed and add a dependency to PDQmPatient as follows. Changes are within the black border.

*Editorial Note:*

Add the following dependency to `sushi-config.yaml`

`ihe.iti.pdqm:`

`id: iheitipdqm`

`uri: https://profiles.ihe.net/ITI/PDQm/ImplementationGuide/ihe.iti.pdqm`

`version: current`

Modify `PIXm.fsh` as follows:

Profile: *PIXmPatient*

Parent: ***Patient IHE.PDQm.Patient***

...

- mustSupport for identifier, name, telecom, gender birthDate, address and managingOrganization"

\* modifierExtension 0..0

\* identifier ***01..\**** MS

...

## Resource Profile: PIXm Patient constraints for Feed

...

## Formal Views of Profile Content

Description of Profiles, Differentials, Snapshots and how the different presentations work.

This structure is derived from [PDQmPatient](#)

Name	Flags	Card.	Type	Description & Constraints
Patient		0..*	PDQmPatient	Information about an individual or animal receiving health care services
identifier	S	1..*	Identifier	An identifier for this patient
name		1..*	HumanName	A name associated with the patient
gender	S	0..1	code	male   female   other   unknown
managingOrganization	S	0..1	Reference(Organization)	Organization that is the custodian of the patient record

[? Documentation for this format](#)

Modify Vol2:3.93.4.1.1 Trigger Events [ITI-93] as follows:  
 Include a hyperlink to the PDQm Patient resource profile in the final text.

### 2:3.93.4.1 Mobile Patient Identity Feed Request Message

The Mobile Patient Identity Feed message is a FHIR message with the new and updated Patient Resource(s).

#### 2:3.93.4.1.1 Trigger Events

A Supplier triggers a Mobile Patient Identity Feed Request to a Consumer when it detects, according to domain policy, a change in the Patient Master Identity (see ITI TF-1: 49), i.e., create, update, merge, delete.

A patient’s “Patient Master Identity” contains:

- a unique identifier for the patient (Patient.id in the FHIR Patient Resource) that is assigned by the Patient Identity Registry in the domain.
- zero or more business identifiers for the patient, e.g., local patient ID(s), driver's license number, etc. (Patient.identifier in the FHIR Patient Resource).
- other information to identify the patient in the ~~FHIR Patient Resource~~ **PDQm Patient resource profile**.

*Note: The Consumer is identified either by a subscription in the Subscribe to Patient Updates [ITI-94] transaction or by a configuration.*

*Modify Vol2:3.21.4.2.2 Message Semantics [ITI-21] (PDQ) as follows:*

*Include a hyperlink to the Gender Harmony HL7 Cross Paradigm Implementation Guide*

### 3.21.4.2.2 Message Semantics

The Patient Demographics Response is conducted by the RSP^K22 message. The Patient Demographics Supplier shall generate this message in direct response to the QBP^Q22 message previously received. This message satisfies the Application Level, Original Mode Acknowledgement for the HL7 QBP^Q22 message.

The segments of the message listed without enclosing square brackets in the table below are required. Detailed descriptions of all segments listed in the table below are provided in the following subsections. Other segments of the message are optional.

**Table 3.21-6: RSP Segment Pattern Response**

RSP	Segment Pattern Response	Chapter in HL7 2.5
MSH	Message Header	2
MSA	Message Acknowledgement	2
[ {ERR} ]	Error	2
QAK	Query Acknowledgement	5
QPD	Query Parameter Definition	5
[ { PID	Patient Identification	3
[ PD1 ]		
[ QRI ] }	Query Response Instance	5
[ DSC ]	Continuation Pointer	2

**Note: The segments GSP (Gender, Sex, and Pronouns) and GSR (Gender, Sex, and Recorded Sex or Gender) are optional. If returned, actors SHALL encode them in accordance with the HL7 Cross Paradigm Implementation Guide: Gender Harmony - Sex and Gender Representation, Edition 1. For guidance, refer to the HL7 v2 Gender Harmony Examples.**

*Modify Vol3:4.2.3.2.23 DocumentEntry.sourcePatientInfo as follows:*

*Editorial note: add hyperlinks for HL7v2.9.1 and HL7 v2 Gender Harmony Examples.*

#### **4.2.3.2.23 DocumentEntry.sourcePatientInfo**

##### **Description:**

This attribute contains demographics information at the time of submission of the patient to whose medical record this document belongs.

This information typically includes: the patient first and last name, sex, and birth date. Policies at the creating entity may require more or less specific information and format.

This patient information is not intended to be updated once the document is registered (just as the document content and metadata itself will not be updated without replacing the previous document). As sourcePatientInfo may have been updated by the source actor, it may no longer be in use within the Document Source (EHR-CR). It is only intended as an audit/checking mechanism and has occasional use for Document Consumer Actors.

##### **Coding:**

Coded as an ebRIM Slot. If present, each rim:Value contains a Field (see Table 4.2.3.1.7-2 for a description of the Field datatype). Multiple rim:Value elements may exist for the same field name as a way to implement repetition; there shall be at most one rim:Value element for each of the PID-7 and PID-8 fields. ~~Only field defined for the PID segment shall be used.~~

Maximum length of each rim:Value is 256 characters. The sourcePatientInfo attribute should include:

- PID-3 - (source patient identifier list)
- PID-5 - (source patient name)
  - If multiple patient names are present, then PID-5.7 (Name Type Code) and PID-5.8 (Name Representation Code) should be valued in each entry.
- PID-7 - (source patient date of birth)
- PID-8 - (source patient gender)

The sourcePatientInfo attribute should not include values for PID-2 (patient id), PID-4 (alternate patient id), PID-12 (country code), or PID-19 (social security number).

**Note:** *The sourcePatientInfo Slot may optionally include gender identity, pronouns, recorded gender and sex, or sex parameter for clinical use. If represented, actors SHALL encode relevant fields using the GSP (Gender, Sex, and Pronouns) segments (specifically GSP-4, GSP-5, and GSP-7), the GSR segments (specifically GSR-4, GSR-5, GSR-6, GSR-7, and GSR-8) and the GSC (Sex Parameter for Clinical Use) segments (specifically GSC-4, GSC-6, and GSC-7), in accordance with HL7v2.9.1, as valid at the time of document creation. For implementation guidance and examples, refer to the HL7 v2 Gender Harmony Examples.*