

IHE Change Proposal

Tracking information

IHE Domain:	IT Infrastructure
Change Proposal ID:	CP-ITI-1297
Change Proposal Status:	Submitted
Date of last update:	1 October 2024
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:	See below			
Actor(s) affected:	See below			
IHE Technical Framework or Supplement modified:	ITI			
Volume(s) and Section(s) affected:	Volume 2 (see transactions below)			
Detailed Rationale for Change: The HL7 Gender Harmony Project has developed a logical model to include information in electronic health records that supports the care of gender and sex diverse patients. For more information, visit HL7 Gender Harmony. This model includes requirements and examples for encoding sex and gender in HL7 v2.9.1, FHIR R5, and CDA. See The HL7 Cross Paradigm Implementation Guide: Gender Harmony See FHIR IG statistics for usage details FHIR introduced extensions. See also https://hl7.org/fhir/R5/patient.html#gender. 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. Public comment is sought on this approach. Below is an inventory of ITI transactions that could be considered for the adoption of the HL7 information model. While the inclusion of Gender Harmony elements is not mandated, the CP aims to introduce a conditional requirement, stipulating that if concepts related to sex and gender are included, they must adhere to the methods defined by the Gender Harmony Project.				
Profile	Std.	Transaction	Comment	Plan
PDQ	v2		Example @PID.5.1.1^SMITH~@PID.8^F	None - v2.9.1 in Public Review until 29 July 2024
PAM	v2	ITI-30	PID-5 required; PID-8 optional	None
XCA / XDS	v2	ITI-18	Example	None
PIX	v2	ITI-9	PIX Query	None
PIX XPID	v2	ITI-10 ITI-64	PID-5-Patient Name shall have a value of " "	None
PCF	v2	Appendix P	Explicit Advanced Consent examples	None, In a future cp, we could consider adding advanced Data Segmentation for Privacy

PIX PDQ	v2	Appendix R	Mapping of HL7v2.5 to HL7v3 for PIX and PDQ	None
XDR XDS	ebRIM	ITI-41	sourcePatientInfo	None – ITI Technical Committee considered adding a sourcePatientInfo example, doing so does not add value.
PIXv3 PIXv3 XCPD	v3	ITI-44 ITI-47 ITI-55	Text "...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"	None - see above
PDQm	FHIR R4 (Patient)	ITI-78	Search Parameters include gender token	Add individual-genderIdentity (c.f. Mother's Maiden Name). Include note in markdown FHIR does not include a search parameter . JIRA ticket FHIR-46412
mCSD	FHIR R4 (Practitioner)	ITI-90 ITI-91	Include Practitioner demographics	Add informative statement in markdown regarding pronouns and gender identity for Practitioner (c.f. Mother's Maiden name) Add editorial notes in CP: structure definition profile for xx add this extension. (person, related person, patient, practitioner examples)
PIXm	FHIR R4 (Patient)	ITI-104	Examples include gender	None
PMIR	FHIR R4 (Patient)	ITI-93	Examples include gender	Add note regarding pronouns and gender identity for Practitioner (c.f. Mother's Maiden name)
PCF	FHIR R4 (Consent)	ITI-108	Gender identity would not directly serve as an access permission or restriction, but might be used in consent-related scenarios.	None

Proposed Change(s)

Modify Vol2:3.78.4.1.2.1 as follows:

2:3.78.4.1.2.1 Search Parameters

The Patient Demographics Consumer MAY supply, and the Patient Demographics Supplier SHALL be capable of processing all parameters listed below. All parameter values SHALL be appropriately encoded per RFC3986 "percent" encoding rules. Note that percent encoding does restrict the character set to a subset of ASCII characters which is used for encoding all other characters used in the URL. Patient

Demographics Suppliers MAY choose to support additional parameters beyond the subset listed below. Any additional parameters supported SHALL be supported according to the core FHIR specification. Such additional parameters are considered out of scope for this transaction. Any additional parameters not supported SHOULD be ignored, See <http://hl7.org/fhir/R4/search.html#errors>.

FHIR defines methods of supporting multiple parameter values in an AND and OR relationship. The Patient Demographics Supplier SHALL support both AND and OR relationships. See FHIR specification on Composite Search Parameters <http://hl7.org/fhir/R4/search.html#combining> for more information on how to handle multiple parameter values.

Parameter	definitions
<code>_id</code>	This parameter of type <code>string</code> , when supplied, represents the resource identifier for the Patient Resource being queried. See ITI TF-2: Appendix Z.2.3 for use of the <code>string</code> data type. Note: A search using <code>_id</code> is always an exact match search.
<code>active</code>	This parameter of type <code>token</code> , when supplied, specifies the active state. The active state indicates whether the patient record is active. Note: use <code>active=true</code> .
<code>family and given</code>	These parameters of type <code>string</code> , when supplied, specify the name of the person whose information is being queried. For this parameter the Patient Demographics Consumer MAY use either family name, given name or a combination of both names to filter by family, given or family and given names respectively. See ITI TF-2: Appendix Z.2.3 for use of the <code>string</code> data type.
<code>identifier</code>	This repeating parameter of type <code>token</code> , when supplied, specifies an identifier associated with the patient whose information is being queried (e.g., a local identifier, account identifier, etc.). See ITI TF-2: Appendix Z.2.2 for use of the <code>token</code> data type.
<code>telecom</code>	This parameter of type <code>token</code> , when supplied, specifies the telecommunications details.
<code>birthdate</code>	This parameter of type <code>date</code> , when supplied, specifies the birth date of the person whose information is being queried. See http://hl7.org/fhir/R4/search.html#date for guidance and pitfalls when working with date search parameters.
<code>address</code>	This parameter of type <code>string</code> , when supplied, specifies one or more address parts associated with the person whose information is being queried. For details on matching rules, see ITI TF-2: Appendix Z.2.3.
<code>address-city</code> , <code>address-country</code> , <code>address-postalcode</code> , <code>address-state</code>	These parameters of type <code>string</code> , when supplied, specify a match against the specified address part associated with the person whose information is being queried. Note that national conventions for addresses might affect utility of these fields.
<code>gender</code>	This parameter of type <code>token</code> , when supplied, specifies the administrative gender of the person whose information is being queried. For this parameter item, a single administrative gender code from value set http://hl7.org/fhir/R4/valueset-administrative-gender.html SHALL be specified as the only value of the token. See ITI TF-2: Appendix Z.2.2 for use of the <code>token</code> data type.

mothersMaidenName	This parameter of type <code>string</code> , when supplied, specifies the mother's maiden (unmarried) name, commonly collected to help verify patient identity. This is search extension defined in FHIR Expression: <code>Patient.extension(http://hl7.org/fhir/StructureDefinition/patient-mothersMaidenName).</code>
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For example

GET

<https://server.example.com/fhir/Patient?family=MOHR&given=ALICE&active=true&gender=female>

Accept: application/fhir+json; fhirVersion=4.0

The Patient Demographics Supplier MAY supply the patient's gender identity.

Parameter	definitions
genderIdentity	<u>This parameter of type <code>string</code>, when supplied, specifies the patient's gender identity, commonly collected to help verify patient identity. This is search extension defined in FHIR</u> Expression: <u><code>Patient.extension(http://hl7.org/fhir/StructureDefinition/individual-genderIdentity).</code></u>

Add Section Vol2: 3.78.4.2.2.3 as follows:

2:3.78.4.2.2.3 Patient's Gender Identity

Patient Demographics Suppliers MAY include the patient's gender identity, if known, in this extension:

<https://hl7.org/fhir/extensions/StructureDefinition-individual-genderIdentity.html>.

Add the following note to 2:3.90.4.4 Retrieve Care Services Resource Response as follows:

2:3.90.4.1.2 Message Semantics

A Care Services Selective Consumer initiates a search request using HTTP GET or POST as defined at <http://hl7.org/fhir/R4/http.html#search> on the mCSD Resources. The Care Services Selective Supplier shall support both GET and POST based searches. The query parameters are identified below. A Care Services Selective Consumer may query any combination or subset of the parameters.

A Care Services Selective Supplier shall support responding to a request for both the JSON and the XML messaging formats as defined in FHIR. A Care Services Selective Consumer shall accept either the JSON or the XML messaging formats as defined in FHIR. See ITI TF-2: Z.6 for more details.

A Care Services Selective Supplier shall implement the parameters described below for the mCSD resources it supports. A Care Services Selective Supplier may choose to support additional query parameters beyond the subset listed below. Any additional query parameters supported shall be supported according to the core FHIR specification.

See ITI TF-2: Appendix W for informative implementation material for this transaction.

Note: If a person's gender identity is to be represented within the Practitioner resource, the Care Services Selective Supplier SHALL encode it using the individual-genderIdentity extension (<http://hl7.org/fhir/StructureDefinition/individual-genderIdentity>) as defined in FHIR. This ensures consistent and standardized representation of gender identity information across implementations.

<i>Add the following note to 2:3.93.4.1.2 Message Semantics as follows:</i>

2:3.93.4.1.2 Message Semantics

A Supplier initiates a FHIR message request using HTTP POST as defined at <https://www.hl7.org/fhir/R4/messaging.html> on a Bundle Resource.

A Supplier shall create a Bundle Resource of type **message** constrained as specified in Section 2:3.93.4.1.2.1 and conforming to the PMIR Feed MessageDefinition.

A Supplier shall be able to send a request for both the JSON and the XML messaging formats as defined in FHIR. A Consumer shall support accepting either the JSON or the XML messaging formats as defined in FHIR depending on the Subscription or configuration of the Consumer. See ITI TF-2: Appendix Z.6 for more details.

See ITI TF-2: Appendix W for informative implementation material for this transaction.

Note: If a person's gender identity is to be represented within the Patient resource, the Supplier SHALL encode it using the individual-genderIdentity extension (<http://hl7.org/fhir/StructureDefinition/individual-genderIdentity>) as defined in FHIR. This ensures consistent and standardized representation of gender identity information across implementations.