

HITSP Patient Demographics Query Transaction

HITSP/T23



Healthcare Information Technology Standards Panel

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1.0 INTRODUCTION

1.1 OVERVIEW

The HITSP Patient Demographics Query Transaction is intended to provide a list of patients and their demographics' query and a list of patient(s) and their demographics identified response message pair (QBP^Q22, RSP^K22) for use wherever such needs exist.

This Transaction does not include messages for other purposes; e.g., patient enrollment/identification, patient visit/encounter (e.g., Patient Demographics and Visit Query/Response), patient identity updated, or obtain patient identifiers. Messages for such other purposes are provided by other specifications.

This Transaction extracts the Health Level Seven (HL7) Version 2.5 Query and Response data mapping. The underlying basis for this extraction can be found in the Patient Demographics Query Integration Profile from the Integrating the Healthcare Enterprise (IHE) IT Infrastructure Technical Framework.

1.2 COPYRIGHT PERMISSIONS

COPYRIGHT NOTICE

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1.3 REFERENCE DOCUMENTS

A list of key reference documents and background material is provided in the table below. These documents can be retrieved from www.hitsp.org.

Table 1-1 Reference Documents

Reference Document	Document Description
HITSP Acronyms List	Lists and defines the acronyms used in this document
HITSP Glossary	Provides definitions for relevant terms used by HITSP documents
TN900 – Security and Privacy	TN900 is a reference document that provides the overall context for use of the HITSP Security and Privacy constructs
TN903 – Data Architecture	TN903 is a reference document that provides the overall context for use of the HITSP Data Architecture constructs

1.4 CONFORMANCE

This section describes the conformance criteria, which are objective statements of requirements that can be used to determine if a specific behavior, function, interface, or code set has been implemented correctly.

1.4.1 CONFORMANCE CRITERIA

In order to claim conformance to this construct specification, an implementation must satisfy all the requirements and mandatory statements listed in this specification, the associated HITSP Interoperability Specification, its associated construct specifications, as well as conformance criteria from the selected base and composite standards. A conformant system must also implement all of the required interfaces within the scope, subset or implementation option that is selected from the associated Interoperability Specification.

Claims of conformance may only be made for the overall HITSP Interoperability Specification or Capability with which this construct is associated.



1.4.2 CONFORMANCE SCOPING, SUBSETTING AND OPTIONS

A HITSP Interoperability Specification or Capability must be implemented in its entirety for an implementation to claim conformance to the specification. HITSP may define the permissibility for interface scoping, subsetting or implementation options by which the specification may be implemented in a limited manner. Such scoping, subsetting and options may extend to associated constructs, such as this construct. This construct must implement all requirements within the selected scope, subset or options as defined in the associated Interoperability Specification or Capability to claim conformance.



2.0 TRANSACTION DEFINITION

2.1 CONTEXT OVERVIEW

The Integrating the Healthcare Enterprise (IHE) Patient Demographics Query (PDQ) Integration Profile transaction is intended for use wherever Health Level Seven (HL7) messages are suitable to identify patients from a list of potentials. The IHE PDQ Integration Profile Transaction involves a request by a Patient Demographics Consumer for demographic information about patients whose demographic data matches data contained in the query message. The request is sent as a Patient Demographics query and received by a Patient Demographics Supplier. The Patient Demographics Supplier immediately processes the query and sends a Patient Demographics response to the Patient Demographics Consumer that originated the query. This response contains a list of patient demographics for matching patients if any were found.¹ The process flows in the IHE PDQ Integration Profile transaction are shown in the IHE IT Infrastructure Technical Framework, Revision 6.0 or later, Volume 2 (IHE-ITI TF-2), Section 3.21.4.

In addition, the Pediatric Demographics option makes use of six additional demographic fields to aid record matching in databases with many pediatric records. If Pediatric Demographics are to be utilized, the additional demographic fields needed are shown in IHE IT Infrastructure (ITI) Technical Framework Supplement 2008-2009, Pediatric Demographics, Draft for Trial Implementation (August 22, 2008).

2.1.1 INTERFACES

Table 2-1 Interfaces

Interface	Description	Used in Component/ Standard	Transaction/Content	T/C Optionality
Patient Demographics Consumer	Queries the Patient Demographics Supplier for a list of patient demographic information, if any, and receives a list of corresponding patient demographic information from the Patient Demographics Supplier	IHE-ITI TF-2 Section 3.21.2	Patient Demographics Query [ITI-21]	R
			Patient Demographics and Visit Query [ITI-22]	O
Patient Demographics Supplier	Receives the query for a list of corresponding patient demographics from the Patient Demographics Consumer, sends a list of corresponding patient demographic information to the Patient Demographics Consumer, maintains one or more Patient Information Sources of patient demographics data	IHE-ITI TF-2 Section 3.21.2	Patient Demographics Query [ITI-21]	R
			Patient Demographics and Visit Query [ITI-22]	O

Optionality Legend: "R" for Required, "O" for Optional, or "C" for Conditional

2.1.2 INTERFACE INTERACTIONS

Interface interactions in the IHE PDQ Integration Profile transaction are shown in IHE-ITI TF-2, Section 3.21.2.

¹ IHE-ITI TF-2 §3.21.1



2.1.3 CONDITIONS AND ASSUMPTIONS

Table 2-2 Context

Assumptions, Pre-conditions, Post-conditions, and Triggers	Type of Context
It is expected that the security framework under which this Transaction operates is in accordance with the Interoperability Specification that references this construct. Therefore, all applicable HITSP Security and Privacy constructs are implemented as required	Pre-condition
Patient Demographics Consumer contains patient demographic data suitable for matching	Pre-condition
Patient Demographics Supplier maintains a list of patient demographic data suitable for matching and providing matching plus additional patient demographic data to the Patient Demographics Consumer. Security and Privacy policies will set limits on the release of patient demographics information to Patient Demographics Consumers	Pre-condition
Triggers for Patient Demographics Consumer as described in IHE-ITI TF-2, Section 3.21.4.1.1	Trigger
Triggers for Patient Demographics Supplier as described in IHE-ITI TF-2, Section 3.21.4.2.1	Trigger
Patient Demographics Consumer expanded patient demographic data for one or more patients where found by the Patient Demographics Supplier	Post-condition
Patient Demographics Supplier none beyond providing outputs related to this Transaction	Post-condition

2.1.3.1 REQUIRED OUTPUT

Table 2-3 Required Output

Required Output	Format/Usage
Patient Demographics Consumer has no specific outputs related to this Transaction	N/A
Patient Demographics Supplier outputs a Patient Demographics Response message containing, where applicable, demographic data for one or more patients; where no list of applicable patient demographics data are found, indicators in the message as to the reason no data were provided	See Section 2.1.4 for message requirements

2.1.4 DATA FLOWS

Table 2-4 Data Mapping

Standard Data Element	Description	Limit/Range of values	Data Source	Destination	Requirements/Pre-conditions	Additional Specification for Component
No applicable data flows						

Optionality Legend: "R" for Required, "RE" for Required if Known or "O" for Optional, or "C" for Conditional

Below are transaction level constraints:

T23-[MSG-1-1] The Patient Demographics Consumer interface **SHALL** be able to communicate the data elements necessary for the Patient Demographics Supplier to be able to process the received query and return demographic information for matching patients

T23-[MSG-1-2] The Patient Demographics Supplier **SHALL** be able to create a possibly empty list of matching patient demographic information solely based on the data elements received in the query message from the Patient Demographics Consumer

T23-[MSG-1-3] The PID segment **SHALL** be constrained as described in the data flows Table 2-8

Consistent with the process flows discussed in Section 2.1, there are two data flows for the IHE PDQ Integration Profile Transaction:

T23-[MSG-1-4] The Patient Demographics Query to obtain Patient Demographics data, from Patient Demographics Consumer to Patient Demographics Supplier, **SHALL** follow the IHE



transaction to as specified in the IHE PDQ Integration Profile IHE-ITI TF Version 6.0 or later.

T23-[MSG-1-5]

The Patient Demographics Response to a query to return Patient Demographics data from Patient Demographics Supplier to Patient Demographics Consumer **SHALL** follow the IHE transaction as specified in the IHE PDQ Integration Profile IHE-ITI TF Version 6.0 or later.

Details of these two data flows are contained in the two subsections below.

To better understand the data flows described in the two subsections below, the following definitions are applicable:

- Patient Demographics Supplier: See explanation in Section 2.1.1, Interfaces
- Patient Information Source: A collection of patient demographic data from one or more Patient ID Domains
- Patient ID Domain: A collection of patient demographic data from a single Assigning Authority

2.1.4.1 QUERY – CONSUMER TO SUPPLIER

The query portion of the IHE Patient Demographics Query Transaction (QBP^Q22), is described in IHE-ITI TF-2, Section 3.21.4.1.2. It consists of three segments: MSH, QPD and RCP.

Use of the QPD segment is described in IHE-ITI TF-2, Section 3.21.4.1.2.2. HITSP constraints on this usage are:

- | | |
|---------------|--|
| T23-[DE-1-1] | QPD-2 SHALL contain a unique value from the Patient Demographics Consumer that identifies each specific query message; an incrementing number may be used if desired. |
| T23-[MSG-1-6] | QPD-3.1 SHALL include the required values as specified in Table 3.21-3 of the IHE PDQ Integration Profile IHE-ITI TF-2 Revision 6.0 or later. |
| T23-[MSG-1-7] | QPD-3.1 MAY include optional values as specified in IHE TF Supplement 2009-2010 Pediatric Demographics (Draft for Trial Implementation) for optional values of QPD-3.1 for Pediatrics appropriate for HL7 Version 2.5 ² . |

2.1.4.2 RESPONSE – SUPPLIER TO CONSUMER

The Patient Demographics response portion of the IHE Patient Demographics Query Transaction is described in IHE-ITI TF-2, Section 3.21.4.2.2. For HITSP, it consists of up to six segments: MSH, MSA, ERR, QAK, QPD, and PID.

Use of the QPD segment is described in IHE-ITI TF-2, Section 3.21.4.2.2.4.

Use of the PID segment is described in IHE-ITI TF-2, Section 3.21.4.2.2.5.

Table 2-5 shows additional HITSP Constraints on this usage.

² For an example of encoding a patient ID using an OID, see IHE ITI TF-2, Section 4.1.7, Table 4.1-3 (see CX data type). Management of OIDs is illustrated in the IHE ITI TF-2, Appendix B



Table 2-5 HITSP Additional PID Segment Constraints

Constraint ID	HL7 V2 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
TP22-[DET-1-1]	PID 5.3 - Middle Names	1.05 - Person Name	R2	T23-[DE-1.05-1] If more than one middle name is available, all available middle names SHALL be concatenated with separating spaces in this transaction
TP22-[DET-1-2]	PID 10.3 - Name of Coding System number 1 (Race)	1.10 – Race	O	C154-[DE-1.10-1] Race SHALL be coded as specified in HITSP/C80 Section 2.2.1.2.7 Race
TP22-[DET-1-3]	PID 10.4 - Alternate Identifier (Race)	1.10 – Race	O	C154-[DE-1.10-1] Race SHALL be coded as specified in HITSP/C80 Section 2.2.1.2.7 Race
TP22-[DET-1-4]	PID 10.5 - Alternate Text (Race)	1.10 – Race	O	C154-[DE-1.10-1] Race SHALL be coded as specified in HITSP/C80 Section 2.2.1.2.7 Race
TP22-[DET-1-5]	PID 11.1.1 - Street or Mailing Address	1.03 Person Address	O	
TP22-[DET-1-6]	PID 11.1.2 - Street Name	1.03 Person Address	O	
TP22-[DET-1-7]	PID 11.1.3 - Dwelling Number	1.03 Person Address	O	
TP22-[DET-1-8]	PID 11.2 - Other Designation	1.03 Person Address	O	T23-[DE-1.03-1] Person Address MAY be used for second line of Street Address
TP22-[DET-1-9]	PID 11.3 – City	1.03 Person Address	O	
TP22-[DET-1-10]	PID 11.4 - State/Province	1.03 Person Address	O	C154-[DE-1.03-1] The state part of an address in the United States SHALL be recorded using HITSP/C80 Section 2.2.1.1.1 State
TP22-[DET-1-11]	PID 11.5 - ZIP/Postal Code	1.03 Person Address	O	C154-[DE-1.03-2] The postal code part of an address in the United States SHALL be recorded using HITSP/C80 Section 2.2.1.1.2 Postal Code
TP22-[DET-1-12]	PID 11.6 – Country	1.03 Person Address	O	C154-[DE-1.03-3] The country part of an address SHALL be recorded using HITSP/C80 Section 2.2.1.1.3 Country
TP22-[DET-1-13]	PID 13 - Phone Number – Home	1.04 - Person Phone/Email/URL	O	T23-[DE-1.04-1] If repetition occurs, then first occurrence SHALL be the primary telephone number used for patient contact ³
TP22-[DET-1-14]	PID 13.5 - Country Code (Phone Number – Home)	1.04 - Person Phone/Email/URL	O	
TP22-[DET-1-15]	PID 13.6 - Area/City Code	1.04 - Person Phone/Email/URL	O	
TP22-[DET-1-16]	PID 13.7 - Local Number	1.04 - Person Phone/Email/URL	O	
TP22-[DET-1-17]	PID 22.3 - Name of Coding System #1 (Ethnic Group)	1.11 – Ethnicity	O	C154-[DE-1.11-1] Ethnicity SHALL be coded as specified in HITSP/C80 Section 2.2.1.2.2 Ethnicity

³ HL7 version 2.5 §3.4.2.13



Constraint ID	HL7 V2 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
TP22-[DET-1-18]	PID 22.6 – Name of Alternate Coding System (Ethnic Group)		O	
TP22-[DET-1-19]	PID 22.4 - Alternate Identifier (Ethnicity)	1.11 – Ethnicity	O	C154-[DE-1.11-1] Ethnicity SHALL be coded as specified in HITSP/C80 Section 2.2.1.2.2 Ethnicity
TP22-[DET-1-20]	PID 22.5 - Alternate Text (Ethnicity)	1.11 – Ethnicity	O	C154-[DE-1.11-1] Ethnicity SHALL be coded as specified in HITSP/C80 Section 2.2.1.2.2 Ethnicity

Optionality Legend: “R” for Required, “O” for Optional, or “C” for Conditional

There are no additional HITSP constraints on the additional elements as specified in the Pediatrics Demographics option supplement.

2.2 LIST OF HITSP CONSTRUCTS

Table 2-6 List of HITSP Constructs

Construct Name	Description	Transaction/Content
No applicable constructs		

2.2.1 CONSTRUCT DEPENDENCIES

Table 2-7 Construct Dependencies

Construct	Depends On (Name of Component that it depends on)	Dependency Type (Pre-condition, post-condition, general)	Purpose (Reason for this dependency)
HITSP/T23 - Patient Demographics Query	HITSP/C154 - Data Dictionary	General	Identifies HITSP Data Elements that map to the HL7 Data Elements constrained by this Component
HITSP/T23 - Patient Demographics Query	HITSP/C80 - Clinical Document and Message Terminology	General	Identifies HITSP Vocabularies that constrain the HL7 Data Elements in this Component

2.2.2 ADDITIONAL CONSTRAINTS ON REQUIRED CONSTRUCTS

Table 2-8 Additional Constraints on Required Constructs

Data Element	Construct	Constraint	Constraint Type (Pre-condition, post-condition, general)	Purpose (Reason for this constraint)
No applicable constraints				

2.3 STANDARDS

2.3.1 REGULATORY GUIDANCE

Table 2-9 Regulatory Guidance

Regulation	Description
No applicable regulatory guidance	



2.3.2 SELECTED STANDARDS

Table 2-10 Selected Standards

Standard	Description
Health Level Seven (HL7) Version 2.5, Chapter 2 – Control, Chapter 3 – Patient Administration, Chapter 5 – Query	The HL7 Version 2.5 Messaging Standard is an application protocol for electronic data exchange in healthcare. It and prior versions have widespread use in the U.S. and internationally. Both message formats and value sets/code tables (e.g., diagnosis type, gender, patient class, result status, specimen collection method, abnormal flags, observation result status codes interpretation, timestamp format) are contained in the standard. For more information visit www.hl7.org
Integrating the Healthcare Enterprise (IHE) IT Infrastructure Technical Framework (ITI-TF) Revision 6.0 or later, Patient Demographics Query (PDQ) Integration Profile	Provides ways for multiple distributed applications to query a central patient information server for a list of patients, based on user-defined search criteria, and retrieve a patient's demographic (and, optionally, visit or visit-related) information directly into the application. For more information visit www.ihe.net
Integrating the Healthcare Enterprise (IHE) IT Infrastructure Technical Framework (ITI-TF) Supplement –2009-2010, Pediatric Demographics, Draft for Trial Implementation (August 10, 2009)	The experience of immunization registries and other public health population databases has shown that matching and linking patient records from different sources for the same individual person in environments with large proportions of pediatric records requires additional demographic data. Pediatric Demographics makes use of the following six additional demographic fields to aid record matching in databases with many pediatric records. The latest version of the IHE Technical Framework is available at www.ihe.net

2.3.3 INFORMATIVE REFERENCE STANDARDS

Table 2-11 Informative Reference Standards

Standard	Description
No applicable informative reference standards	



3.0 APPENDIX

The following sections include relevant materials referenced throughout this document.

No additional information at this time.

RELEASED FOR IMPLEMENTATION



4.0 DOCUMENT UPDATES

The following sections provide the details of updates made to this document.

4.1 MAY 11, 2007

This document is now Released for Implementation.

4.2 MARCH 19, 2008

This document has been updated to include the HITSP Security and Privacy constructs and has been updated to reflect the new template.

The following changes have been made to the construct:

- Updated Section 2.3 Standards: Replaced ITI-TFV2 Revision 3.0 with IHE-ITI-TFV2 Revision 4.0
- Reconciled IHE-ITI-TFV2 Revision 3.0 from earlier edition to IHE-ITI-TFV2 Revision 4.0

4.3 MARCH 27, 2008

Upon approval by the HITSP Panel on March 27, 2008, this document is now Released for Implementation.

4.4 JULY 11, 2008

Updated to place standards into 3 categories: Regulatory, Selected, and Informative References, and clarify standards listing for IHE PDQ.

4.5 AUGUST 20, 2008

This document has been modified to reflect the updated HITSP approach to categorizing standards as Regulatory Guidance, Selected Standards, and Informative References.

The following standard was updated from:

- Integrating the Healthcare Enterprise (IHE) IT Infrastructure Technical Framework (ITI-TF) Revision 4.0

to:

- Integrating the Healthcare Enterprise (IHE) IT Infrastructure Technical Framework (ITI-TF) Revision 4.0, Patient Demographics Query (PDQ) Integration Profile

4.6 AUGUST 27, 2008

Upon approval by the HITSP Panel on August 27, 2008, this document is now Released for Implementation.

4.7 SEPTEMBER 26, 2008

This document has been modified to include an a new option that was added to the underlying IHE profile for Pediatrics Demographics query, as documented in Section 2.0 above. This option is available for Interoperability Specifications to include as additional requirements for implementation.



4.8 DECEMBER 10, 2008

The changes in this construct address the following comments received during the Public Comment and Inspection Testing period (September 29 – October 24, 2008).

No comments were received.

Minor editorial changes were made to this construct.

4.9 DECEMBER 18, 2008

Upon approval by the HITSP Panel on December 18, 2008, this document is now Released for Implementation.

4.10 JUNE 30, 2009

Revised the document based on HITSP/TN903 Data Architecture.

- Section 2.1.4.2
 - Updated race data element components 10.4 and 10.5 to reference HITSP/C80 Vocabulary for Race
 - Updated race data element components 22.4 and 22.5 to reference HITSP/C80 Vocabulary for Ethnicity

Minor editorial changes were made to this document. Removed boilerplate text for simplification. The term “actor” was replaced with “interface”.

4.11 NOVEMBER 9, 2009

Revised the document based on HITSP/TN903 Data Architecture and input from the Security, Privacy and Infrastructure Domain Technical Committee.

- Table 2-1 Transaction Constraints – contents deleted and reformatted. Content moved to other sections of the document as appropriate
- The word “Store and” has been deleted from the “Patient Demographics Consumer” constraint
- References to IHE-ITI TF Revision 4.0 were updated to reflect “IHE-ITI TF Revision 6.0 or later”
- References to “ISO Object Identifier (OID)” have been deleted throughout the document
- IHE TF Supplement 2008-2009 Pediatric Demographics (Draft for Trial Implementation) has been changed to “IHE TF Supplement 2009-2010 Pediatric Demographics (Draft for Trial Implementation)”
- Table 2-8:
 - The constraint for PID 10.3, PID10.4, and PID 10.5, 11.4, 11.5, 11.6, 22.3, 22.4, 22.5, have been updated to reference HITSP/C80
 - PID 11.4 has been modified to reflect HITSP/C80 and to be specific to the United States
 - Table 2-10 Addition of Construct Dependencies

4.12 JANUARY 18, 2010

- The document has been updated to reflect changes made to the HITSP Transaction Template Version 2.7

4.13 JANUARY 25, 2010

Upon approval by the HITSP Panel on January 25, 2010, this document is now Released for Implementation.

