

HITSP Patient Identification Management Service Collaboration

HITSP/SC110



Healthcare Information Technology Standards Panel

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DOCUMENT CHANGE HISTORY

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1.0 INTRODUCTION

1.1 SERVICE COLLABORATION OVERVIEW AND SCOPE

The Healthcare Information Technology Standards Panel (HITSP) Patient Identification Management Service Collaboration provides the ability to lookup and/or cross-reference patient identities. This Service Collaboration utilizes the following constructs or applicable:

- HITSP/TP22 Patient ID Cross-Referencing Transaction Package to deal with identifying and cross-referencing different attributes for the same patient
- HITSP/T23 Patient Demographics Query Transaction to provide a 'list of patients and their demographics' query and 'patient(s) and their demographics identified' response message pair (QBP^Q22, RSP^K22) for use wherever such needs exist
- HITSP/T24 Pseudonymize to provide access to use specific pseudonyms for patients
- Necessary Security and Privacy constructs to assure appropriate access control and enforcement of privacy policies

For more information about the underlying capabilities, pre-conditions, post-conditions, data flows and other detailed information, please refer to the constructs that are used by this Service Collaboration.

The Service Collaboration document illustrates one internal view diagram and sequence table for each service interface. The diagrams are descriptive and the sequences are not mandatory. They may be affected by policy, chosen architecture, and implementation details. Conformance is measured against the underlying constructs.

1.2 SERVICE COLLABORATION INVOCATION

Table 1-1 Service Collaboration Transactions and Data

Service Collaboration	Service Collaboration Description	Interface	Interface Optionality
HITSP/SC110 - Patient Identification Management	Provides the ability to request identity lookup and/or cross-reference	Request Patient Identification	R
HITSP/SC110 - Patient Identification Management	Provides the response to requests for identity lookup and/or cross-reference	Respond to Patient Identification	R

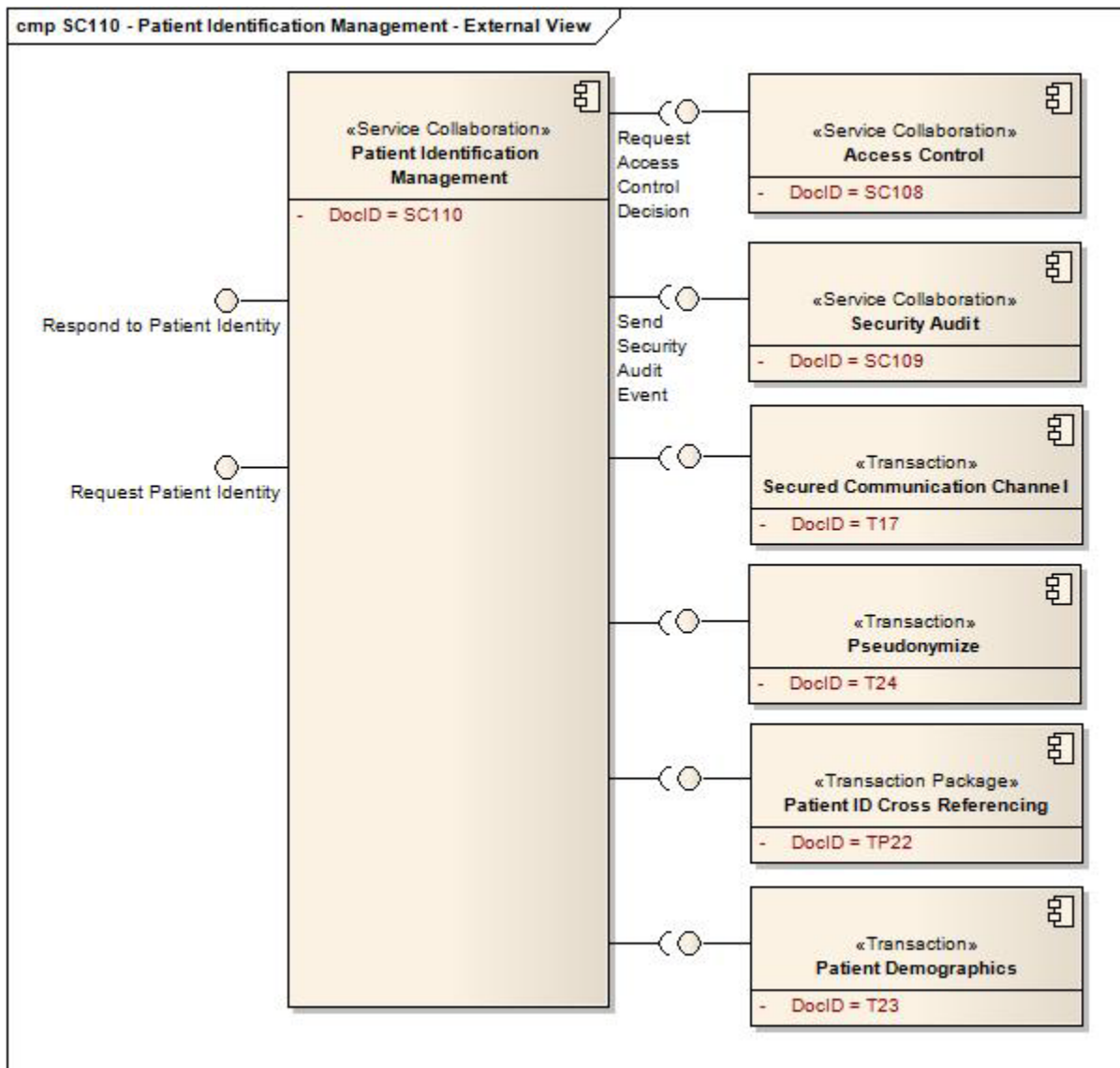
Optionality Legend: "R" for Required, "O" for Optional, or "C" for Conditional

1.3 EXTERNAL VIEW (i.e., "Black Box" Diagram)

There is one example diagram included for each service interface. The diagrams are descriptive and the sequences are not mandatory. They may be affected by policy, chosen architecture, and implementation details. Conformance is measured against the underlying constructs.



Figure 1-1 Patient Identity Management External View Diagram



1.3.1 SERVICE COLLABORATION SOURCE CONSTRUCTS

Table 1-2 List of Constructs

Construct	Description
HITSP/T17 - Secured Communication Channel	The HITSP Secured Communication Channel Transaction provides the mechanisms to ensure the authenticity, integrity, and confidentiality of transmissions, and the mutual trust between communicating parties. Its objectives include providing: mutual node authentication to assure each node of the others' identity; transmission integrity to guard against improper information modification or destruction while in transit; and transmission confidentiality to ensure that information in transit is not disclosed to unauthorized individuals, entities, or processes
HITSP/TP22 - Patient ID Cross-Referencing	The HITSP Patient ID Cross-Referencing Transaction Package is used for identifying and cross-referencing different attributes for the same patient. It contains a query for cross-reference and patient identity feed transactions. These transactions are used to identify patients from a list of potentials, and/or to communicate patient demographic data
HITSP/T23 - Patient Demographics Query	The HITSP Patient Demographics Query Transaction is intended to provide a 'list patients and their demographics' query / 'patient(s) and their demographics identified' response message pair (QBP^Q22, RSP^K22) for use wherever such needs exist. This Transaction document 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 Integrating the Healthcare Enterprise IT Infrastructure Technical Framework, Patient Demographics Query integration profile
HITSP/T24 – Pseudonymize	The HITSP Pseudonymize Transaction describes a framework for including Pseudonymization Services where the use of "dummy" or pseudo references to specific patients or providers is required. Pseudo-identifiers are intended to allow accessibility to clinical information, while safeguarding any information that may compromise the privacy of the individual patient or provider. Using pseudo-identifiers can assist in compliance with HIPAA regulations regarding suppression of patient identification information
HITSP/SC108 - Access Control	The HITSP Access Control service provides the mechanism for security authorizations which control the enforcement of security policies including: role-based access control, entity based access control, context based access control, and the execution of consent directives
HITSP/SC109 - Security Audit	The HITSP Security Audit Service Collaboration describes the mechanism to record security relevant events in support of policy, regulation, or risk analysis. It also provides the mechanism to determine the record format to support analytical reports that are needed

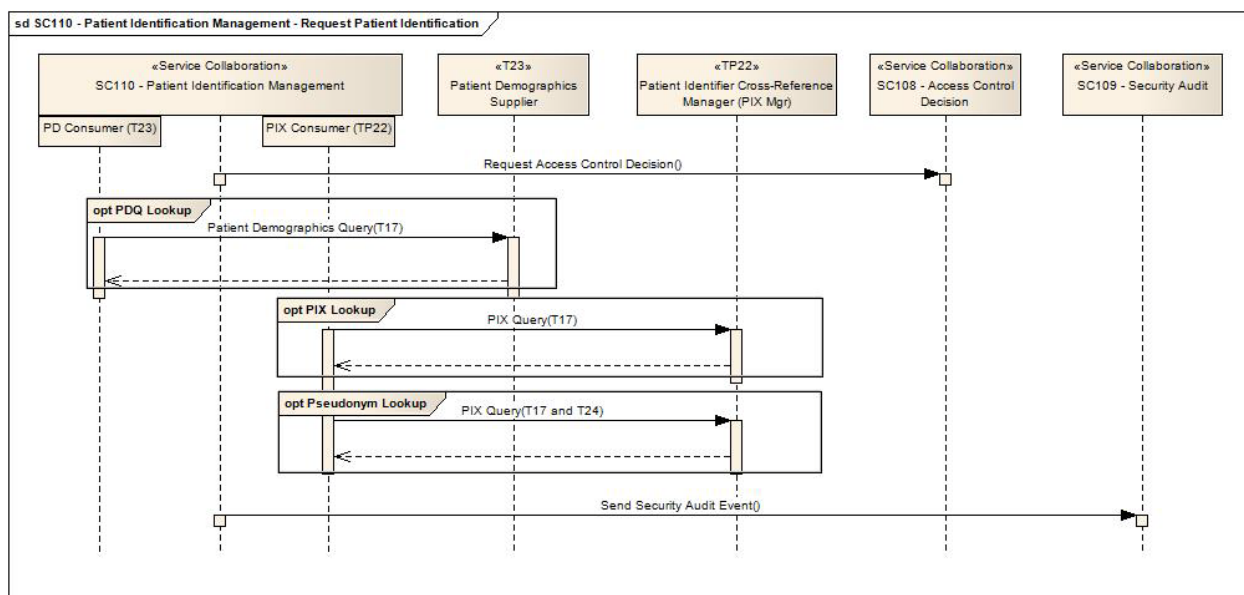
[C1]: Implementation choice must be made to select at least on of the following HITSP constructs: HITSP/TP22 Patient ID Cross Referencing, HITSP/T23 Patient Demographics Query, or HITSP/T24 Pseudonymize.



1.4 INTERNAL VIEW DIAGRAM WITH SEQUENCING (i.e., “White Box” Diagram)

1.4.1 INTERFACE: REQUEST PATIENT MANAGEMENT IDENTIFICATION

Figure 1-2 Request Patient Management Identification Internal View Diagram



1.4.1.1 SEQUENCE DETAILS

Table 1-3 Request Patient Identification – Pre-conditions

Pre-conditions	Uses SC, T, TP or C	Interface	Purpose
Patient Identities among which cross-referencing may be performed, have been communicated to the PIX Manager Interface	HITSP/TP22 - Patient ID Cross-Referencing	Patient Identifier Cross-Reference Manager	Patient identities have been cross-referenced

Table 1-4 Request Patient Identification – Sequence of Constructs

Step Number	Uses SC, T, TP or C	Interface	Transaction	Purpose
1	HITSP/SC108 - Access Control	Request Access Control Decision		To assure that the user has authorization to request patient identification
2	HITSP/T23 - Patient Demographics Query	Patient Demographics Consumer	Patient Demographics Query [ITI-21]	If demographics are needed or if demographics are provided this step is used to lookup the patient by/with demographics
3	HITSP/TP22 - Patient Identity Cross-Reference	Patient Identifier Cross-Reference Consumer	PIX Query [ITI-9]	If cross-referencing is desired this step is used to cross-reference the provided patient identifier into the requested patient identity domain
4	HITSP/T24 - Pseudonymize	Patient Identifier Cross-Reference Consumer	PIX Query [ITI-9]	If cross-referencing to/from a pseudonym identity domain this step is used to cross-reference the provided patient identifier into/out of the requested pseudonym identity domain



Step Number	Uses SC, T, TP or C	Interface	Transaction	Purpose
5	HITSP/SC109 - Security Audit	Send Security Audit Event		Record the success/failure of the patient identification

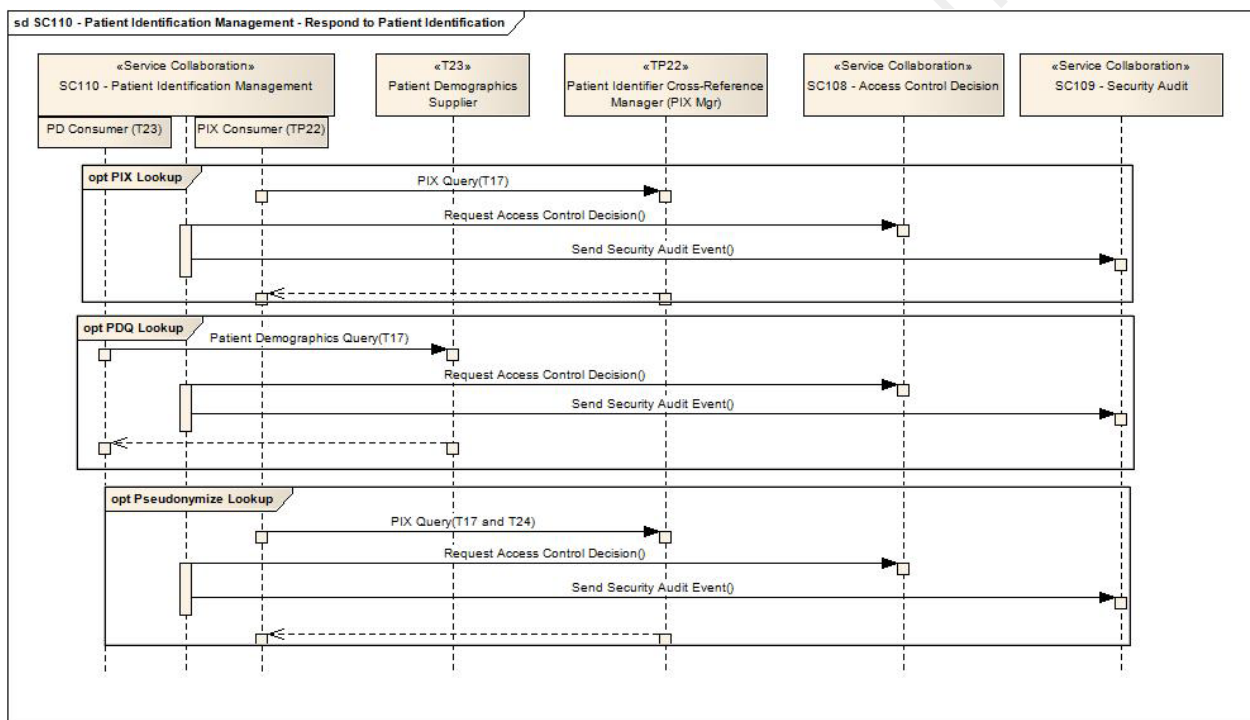
Table 1-5 Request Patient Identification – Post-conditions

Post-conditions	Uses SC, T, TP or C	Interface	Purpose
None			

1.4.2 INTERFACE: RESPOND TO PATIENT MANAGEMENT IDENTIFICATION

The following sequence places all four inbound transactions in one Service Collaboration Interface. As with any Service Collaboration this interface sequence and diagram is descriptive. An implementation may choose to support any one or more of these inbound transactions as long as they are compliant with the underlying construct (HITSP/TP22, HITSP/T23, and HITSP/T24).

Figure 1-3 Respond to Patient Management Identification Internal View



1.4.2.1 SEQUENCE DETAILS

Table 1-6 Request Patient Identification – Pre-conditions

Pre-conditions	Uses SC, T, TP or C	Interface	Purpose
Patient Identities among which cross-referencing may be performed, have been communicated to the PIX Manager Interface	HITSP/TP22 - Patient ID Cross-Referencing	Patient Identity Feed [ITI-8]	Patient identities have been cross-referenced



Table 1-7 Request Patient Identification – Sequence of Constructs

Step Number	Uses SC, T, TP or C	Interface	Transaction	Purpose
1	HITSP/T17 - Secured Communication Channel	Secure Node		To receive a secure communications channel for the incoming request
2	HITSP/TP22 - Patient Identity Cross-Reference	Patient Identifier Cross-Reference Manager	Patient Identity Feed [ITI-8]	If a new Patient Identities which cross-referencing may be performed is created or updated it is communicated to the PIX Manager Interface
			PIX Query [ITI-9]	If cross-referencing is desired this step is used to request a cross-reference of the provided patient identifier into the requested patient identity domain
3	HITSP/T23 - Patient Demographics Query	Patient Demographics Supplier	Patient Demographics Query [ITI-21]	If demographics are needed or if demographics are provided this step is used to lookup the patient by/with demographics
4	HITSP/T24 - Pseudonymize	Patient Identifier Cross-Reference Manager	PIX Query [ITI-9]	If cross-referencing to/from a pseudonym identity domain this step is used to request the cross-reference from the provided patient identifier into/out of the requested pseudonym identity domain
5	HITSP/SC108 - Access Control Service	Request Access Control Decision		To ensure that the system requesting this Service Collaboration has the right to use the data for this patient
6	(Internal)			Lookup the requested data
7	HITSP/SC109 - Security Audit	Send Security Audit Event		To record the success or failure of the relevant information about the HITSP/TP21 Transaction
8	(on incoming request channel)	(Depends on request)		Return the requested Data or error

Table 1-8 Request Patient Identification – Post-conditions

Post-conditions	Uses SC, T, TP or C	Interface	Purpose
None			



2.0 DOCUMENT UPDATES

The following sections provide the history of all changes made to this document.

2.1 JUNE 30, 2009

No changes. This is the first published version of the document.

2.2 JULY 8, 2009

Upon approval by the HITSP Panel on July 8, 2009, this document is now Released for Implementation.

2.3 JANUARY 18, 2010

- Added Service side interface: "Respond To Patient Management Identification"
- Minor editorial corrections to sequence diagrams and sequence tables
- Document has been updated to HITSP Service Collaboration template version 1.0

2.4 JANUARY 25, 2010

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

