

# HITSP Patient Identification Management Service Collaboration

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HITSP/SC110



Healthcare Information Technology Standards Panel

*Submitted to:*

**Healthcare Information Technology Standards Panel**

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**Security, Privacy and Infrastructure Tiger Team**



## DOCUMENT CHANGE HISTORY

Version Number	Description of Change	Name of Author	Date Published
0.0.1	Review Copy	Security, Privacy and Infrastructure Tiger Team	June 30, 2009
1.0	Released for Implementation	Security, Privacy and Infrastructure Tiger Team	July 8, 2009

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## 1.0 INTRODUCTION

### 1.1 SERVICE COLLABORATION OVERVIEW AND SCOPE

The 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 <sup>1</sup>
HITSP/SC110 - Patient Identification Management	Provides the ability to request identity lookup and/or cross-reference	Request Patient Identification	R

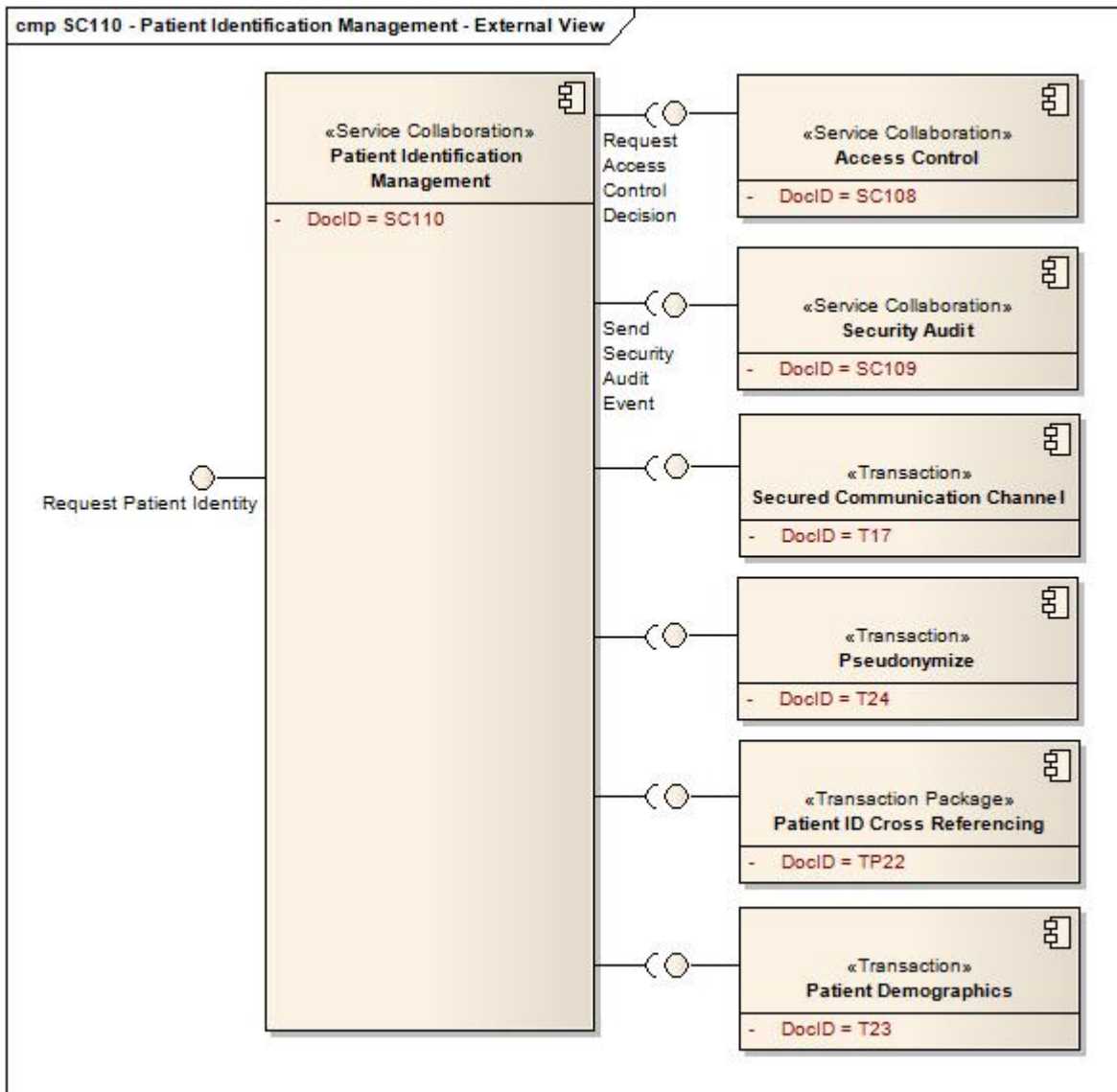
### 1.3 EXTERNAL VIEW (i.e., "black box" diagram)

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.

<sup>1</sup> Optionality = "R" for Required, "R2" for Required if Known or "O" for Optional, or "C" for Conditional. Conditional footnotes are further described below.



Figure 1-1 Patient Identity Management External View Diagram



### 1.3.1 SERVICE COLLABORATION SOURCE CONSTRUCTS

**Table 1-2 List of Constructs**

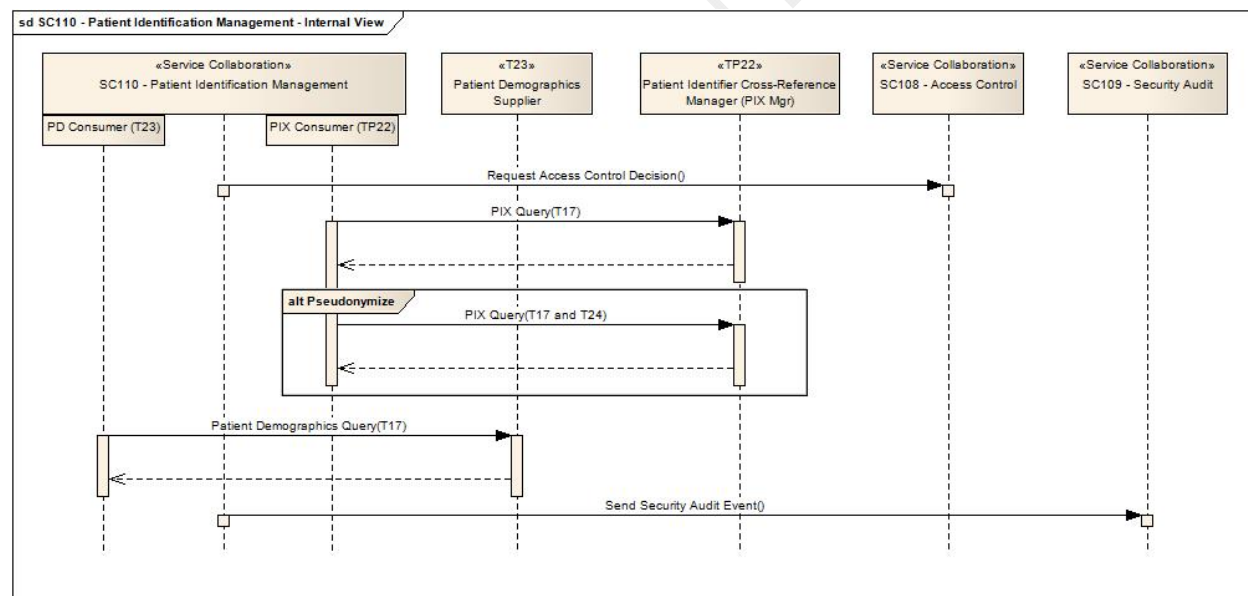
Construct	Required/Optional <sup>2</sup>
HITSP/T17 - Secured Communication Channel	R
HITSP/TP22 - Patient ID Cross-Referencing	O [C1]
HITSP/T23 - Patient Demographics Query	O [C1]
HITSP/T24 - Pseudonymize	O[C1]
HITSP/SC108 - Access Control	R
HITSP /SC109 - Security Audit	R

[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**



<sup>2</sup> Optionality = “R” for Required, “R2” for Required if Known or “O” for Optional, or “C” for Conditional



#### 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	PIX Consumer	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/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
3	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
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
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	Actor	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.

