

# HITSP Emergency Message Distribution Service Collaboration

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HITSP/SC116



Healthcare Information Technology Standards Panel

*Submitted to:*

**Healthcare Information Technology Standards Panel**

*Submitted by:*

**Security, Privacy and Infrastructure Technical Committee**



## DOCUMENT CHANGE HISTORY

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## 1.0 INTRODUCTION

### 1.1 SERVICE COLLABORATION OVERVIEW AND SCOPE

Emergency Message Distribution performs a multicast notification to specifically identified populations, such as emergency departments. This Service Collaboration combines these HITSP specifications:

- HITSP/SC108 Access Control
- HITSP/SC109 Security Audit
- HITSP/T17 Secured Communication Channel
- HITSP/T63 Emergency Message Distribution Element

For more information about the underlying Capabilities, pre-conditions, post-conditions, data flows and other detailed information, please refer to the constructs that are composed 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/SC116	Multicast notification to specifically identified populations	Send Emergency Message Distribution Element	R
HITSP/SC116	Multicast notification to specifically identified populations	Receive Emergency Message Distribution Element	R

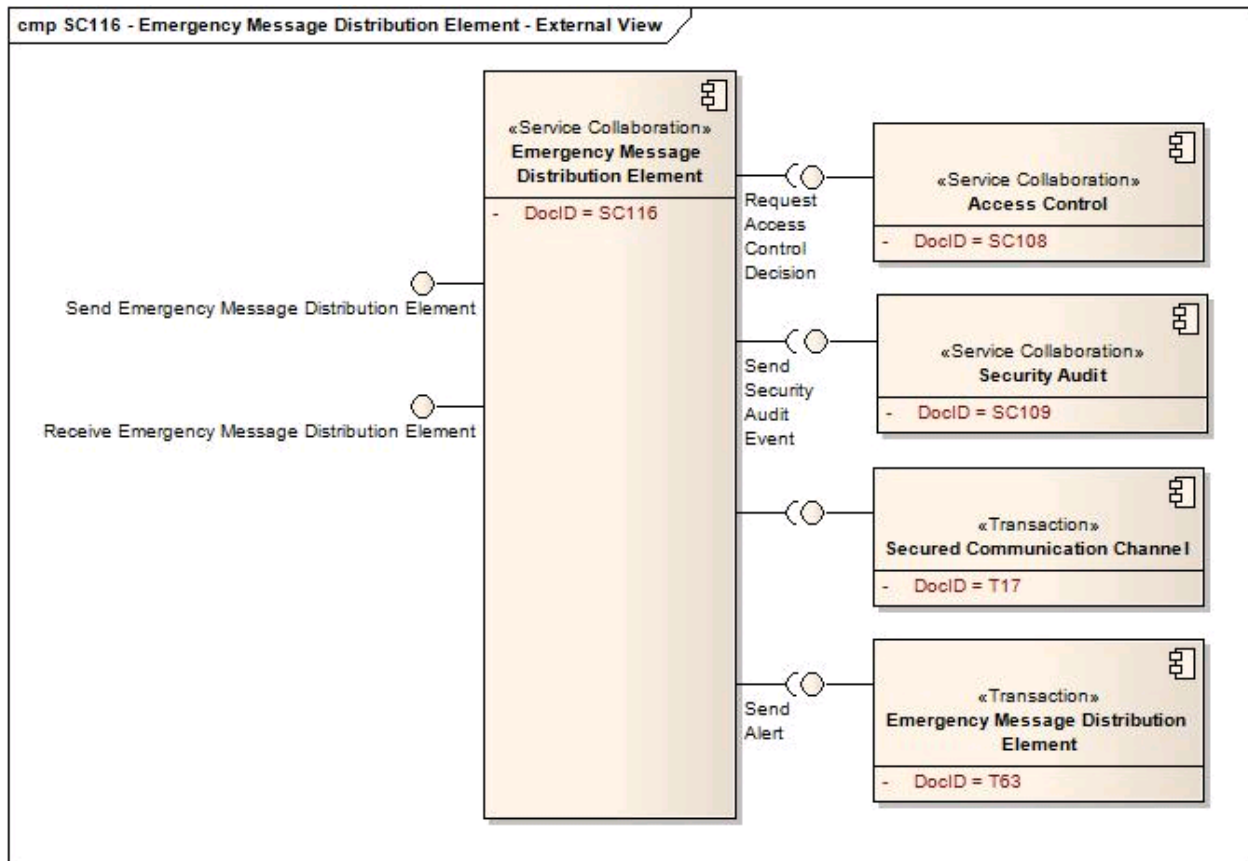
Optionality Legend: "R" for Required, "R2" for Required if Known or "O" for Optional, or "C" for Conditional

### 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 Emergency Message Distribution External View Diagram**



### 1.3.1 SERVICE COLLABORATION SOURCE CONSTRUCTS

**Table 1-2 List of Constructs**

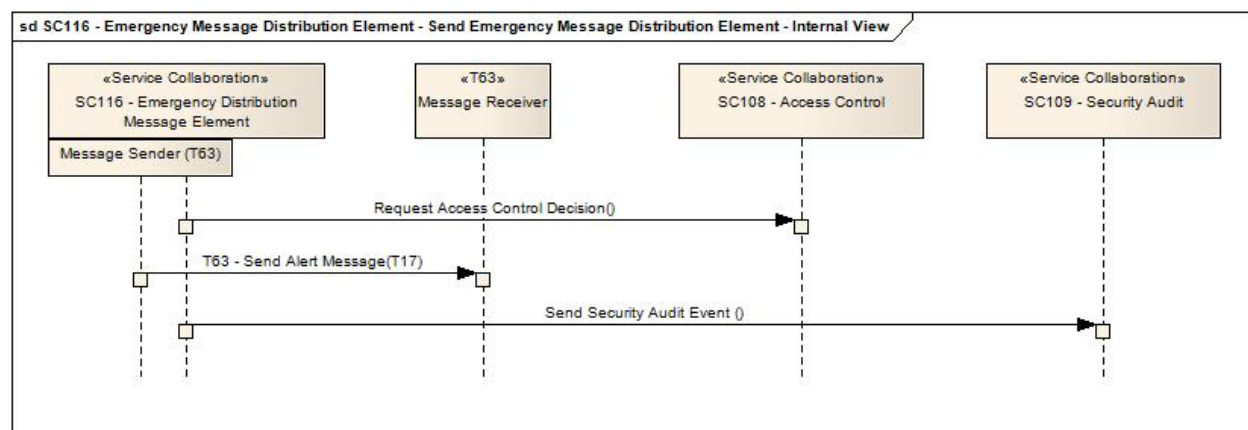
Construct	Description
HITSP/SC108 - Access Control	The HITSP Access Control service provides the mechanism for security authorizations which control the enforcement of security policies including: role-based access control, entity based access control, context based access control, and the execution 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
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/T63 - Emergency Message Distribution Element	The HITSP Emergency Message Distribution Element Transaction selects the Emergency Data Exchange Language (EDXL) Distribution Element (DE) v1.0 standard, and is a multicast notification message sent to an identified population (assume this is not to the general public, but to specifically identified populations, such as emergency departments)



## 1.4 INTERNAL VIEW DIAGRAM WITH SEQUENCING (I.E., “WHITE BOX” DIAGRAM)

### 1.4.1 INTERFACE: SEND EMERGENCY MESSAGE DISTRIBUTION ELEMENT

Figure 1-2 Send Alert Internal View



#### 1.4.1.1 SEQUENCE DETAILS

Table 1-3 Send Emergency Message Distribution Element – Pre-conditions

Pre-condition	Uses SC, T, TP or C	Interface	Purpose
None			

Table 1-4 Send Emergency Message Distribution Element – Sequence of Constructs

Step Number	Uses SC, T, TP or C	Interface	Purpose
1	HITSP/SC108 - Access Control	Request Access Control Decision	To obtain permission to send the message
2	HITSP/T17 - Secured Communication Channel	Node	To establish a secure path for sending the message
3	HITSP/T63 - Emergency Message Distribution Element	Alert Message Transmitter	To send the message
4	HITSP/SC109 - Security Audit	Send Security Audit Event	To record the message-sending event

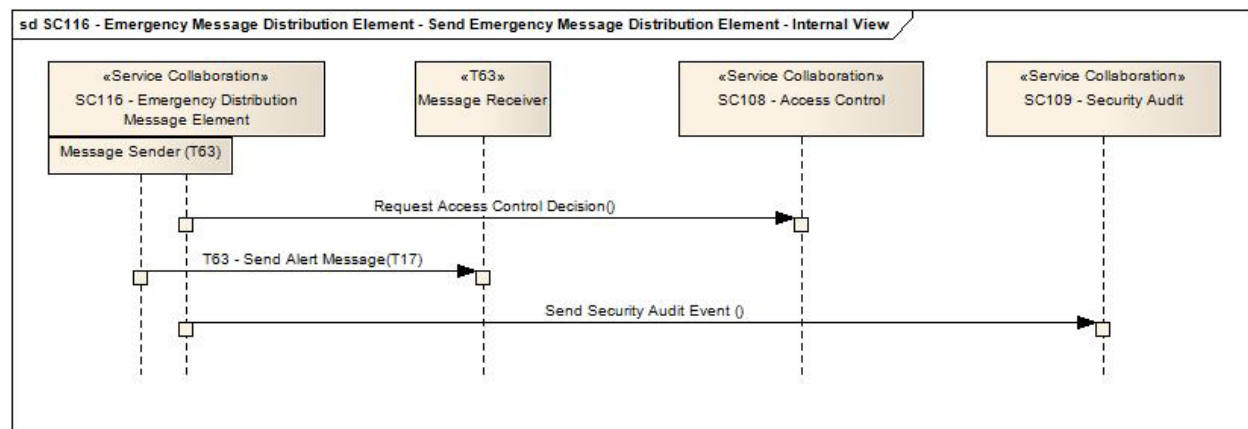
Table 1-5 Send Emergency Message Distribution Element – Post-conditions

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



## 1.4.2 INTERFACE: RECEIVE EMERGENCY MESSAGE DISTRIBUTION ELEMENT

**Figure 1-3 Receive Emergency Message Distribution Element Internal View**



### 1.4.2.1 SEQUENCE DETAILS

**Table 1-6 Receive Emergency Message Distribution Element – Pre-conditions**

Pre-condition	Uses SC, T, TP or C	Interface	Purpose
None			

**Table 1-7 Receive Emergency Message Distribution Element – Sequence of Constructs**

Step Number	Uses SC, T, TP or C	Interface	Purpose
1	HITSP/T17 - Secured Communication Channel	Node	To establish a secure path for receiving the message
2	HITSP/T63 - Emergency Message Distribution Element	Alert Message Receiver	To receive the message
3	HITSP/SC108 - Access Control	Request Access Control Decision	To assure permission to receive the message from the sending system
4	HITSP/SC109 - Security Audit	Send Security Audit Event	To record the message has been received

**Table 1-8 Receive Emergency Message Distribution Element – Post-conditions**

Post-condition	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**

Editorial fixes to the diagrams to reflect the sequence given in the tables

### **2.4 JANUARY 25, 2010**

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

