

HITSP Healthcare Associated Infection (HAI) Report Component

HITSP/C75



Healthcare Information Technology Standards Panel

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1.0 INTRODUCTION

1.1 OVERVIEW

The Healthcare Associated Infection Report Component specifies a standard for electronic submission of Healthcare Associated Infection (HAI) reports to the National Healthcare Safety Network (NHSN) of the Centers for Disease Control and Prevention (CDC). HITSP has adopted the HL7 Implementation Guide for CDA Release 2: NHSN Healthcare Associated Infection (HAI) Reports, Release 1 for this construct.

1.2 COPYRIGHT PERMISSIONS

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1.3 REFERENCE DOCUMENTS

This section provides a list of key reference documents and background material.

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

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 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 to claim conformance.

This construct offers four Content Subsets for which referencing HITSP Interoperability Specification(s) will define the conformance criteria:

- Blood Stream Infection (BSI)
- Intensive Care Unit (ICU)
- Surgical Site Infection (SSI)
- Multi-Drug-Resistant Organism (MDRO)



2.0 COMPONENT DEFINITION

2.1 CONTEXT OVERVIEW

The purpose of this Component is to support reporting of statistics on healthcare associated infections to public agencies.

The text for the HL7 Implementation Guide for CDA Release 2: NHSN Healthcare Associated Infection (HAI) Reports, Release 1 specification begins here:

A standard for electronic submission of Healthcare Associated Infection (HAI) reports to the National Healthcare Safety Network (NHSN) of the Centers for Disease Control and Prevention (CDC). This Draft Standard for Trial Use (DSTU) defines the overall approach and method of electronic submission and develops constraints defining specific HAI report types. As reports are modified and new report types are defined, additional constraints will be developed and published by CDC and HL7.

CDC remains the authority on NHSN data collection protocols. Occurrences such as specific reportable procedures (even those without complications) and events such as a bloodstream infection, either confirmed by a positive blood culture or supported by a patient's clinical symptoms, are reportable to the CDC when healthcare enterprises choose to participate in NHSN. This specification opens the channel for data submission by all applications compliant with the data coding requirements defined here.

The text for the HL7 Implementation Guide for CDA Release 2: NHSN Healthcare Associated Infection (HAI) Reports, Release 1 specification ends here.

Four HAI report types are defined in the HAI Implementation Guide and generic and specific constraints are applied to each:

- Blood Stream Infection (BSI)
- Intensive Care Unit (ICU)
- Surgical Site Infection (SSI)
- Multi-Drug-Resistant Organism (MDRO)

2.1.1 COMPONENT CONSTRAINTS

Table 2-1 Component Constraints

Constraint	Constraint Section
No applicable constraints	

2.1.2 COMPONENT DEPENDENCIES

Table 2-2 Component Dependencies

Standard/HITSP Component	Depends On (Name of standard/HITSP Component that it depends on)	Dependency Type (Pre-condition, Post-condition, General)	Purpose (Reason for this dependency)
No applicable dependencies			



2.2 RULES FOR IMPLEMENTING

2.2.1 DATA MAPPING

At this time, HITSP has determined not to further constrain the data elements and structure defined in the HL7 Implementation Guide for CDA Release 2: NHSN Healthcare Associated Infection (HAI) Reports, Release 1.

Table 2-3 Data Mapping

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

2.3 STANDARDS

2.3.1 REGULATORY GUIDANCE

Table 2-4 Regulatory Guidance

Regulation	Description
No applicable regulatory guidance	

2.3.2 SELECTED STANDARDS

Table 2-5 Selected Standards

Standard	Description
Health Level Seven (HL7) HL7 Version 3 Standard: Clinical Document Architecture (CDA), Release 2	The HL7 Clinical Document Architecture is an XML-based document markup standard that specifies the structure and semantics of clinical documents for the purpose of exchange. CDA is one instantiation of HL7's Version 3.0 Reference Information Model (RIM) into a specific message format. Of particular focus for HITSP Interoperability Specifications are message formats for Laboratory Results and Continuity of Care (CCD) documents. Release 2 of the HL7 Clinical Document Architecture (CDA) is an extension to the original CDA document markup standard that specifies the structure and semantics of clinical documents for the purpose of exchange. CDA R2 includes a prose document in HTML, XML schemas, data dictionary, and sample CDA documents. CDA R2 further builds upon other HL7 standards beyond just the Version 3.0 Reference Information Model (RIM) and incorporates Version 3.0 Data Structures, Vocabulary, and the XML Implementation Technology Specifications for Data Types and Structures. For more information visit www.hl7.org
Health Level Seven (HL7) Implementation Guide for CDA Release 2: NHSN Healthcare Associated Infection (HAI) Reports, Release 1	The Healthcare Associated Infection Report Implementation Guide describes a standard for electronic submission of Healthcare Associated Infection (HAI) Reports to the National Healthcare Safety Network (NHSN) of the Centers for Disease Control and Prevention (CDC). It defines the overall approach and method of electronic submission and prescribes constraints defining specific HAI report types. Further information can be retrieved from www.hl7.org

2.3.3 INFORMATIVE REFERENCE STANDARDS

Table 2-6 Informative Reference Standards

Standard	
No applicable informative reference standards	



3.0 APPENDIX

The following sections include relevant materials referenced throughout this document.

No additional information at this time.



4.0 DOCUMENT UPDATES

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

4.1 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).

5455

Minor editorial changes were made to this document.

4.2 DECEMBER 18, 2008

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

4.3 JUNE 30, 2009

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

4.4 JULY 8, 2009

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

