

HITSP Lab Order Message Component

HITSP/C163



Healthcare Information Technology Standards Panel

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TABLE OF CONTENTS

1.0	INTRODUCTION.....	5
1.1	Overview.....	5
1.2	Copyright Permissions.....	5
1.3	Reference Documents.....	5
1.4	Conformance	6
1.4.1	Conformance Criteria	6
1.4.2	Conformance Scoping, Subsetting and Options	6
2.0	COMPONENT DEFINITION.....	7
2.1	Context Overview	7
2.1.1	Component Dependencies	7
2.2	Rules for Implementing.....	7
2.2.1	Data Mapping	7
2.2.1.1	MSH - Message Header Segment	8
2.2.1.2	PID - Patient Identification Segment	8
2.2.1.3	PV1 – Patient Visit Segment	9
2.2.1.4	IN1 – Insurance Segment	10
2.2.1.5	IN2 – Insurance Additional Information Segment	10
2.2.1.6	ORC – Common Order Segment.....	10
2.2.1.7	TQ1 – Timing Quantity Segment.....	11
2.2.1.8	OBR – Observation Request Segment	12
2.2.1.9	OBX – Observation/Result Segment	13
2.2.1.10	SPM – Specimen Segment	13
2.3	Standards	14
2.3.1	Regulatory Guidance	14
2.3.2	Selected Standards	15
2.3.3	Informative Reference Standards.....	15
3.0	APPENDIX	16
4.0	DOCUMENT UPDATES	17
4.1	January 18, 2010	17
4.2	January 25, 2010	17



FIGURES AND TABLES

Table 1-1 Reference Documents	5
Table 2-1 Component Dependencies	7
Table 2-2 Data Mapping - Message Header Segment	8
Table 2-3 Data Mapping - Patient Identification Segment	8
Table 2-4 Data Mapping - Patient Visit Segment.....	9
Table 2-5 Data Mapping - Insurance Segment.....	10
Table 2-6 Data Mapping - Insurance Segment.....	10
Table 2-7 Data Mapping - Common Order Segment.....	11
Table 2-8 Data Mapping - Timing Quantity Segment	11
Table 2-9 Data Mapping - Observation Request Segment.....	12
Table 2-10 Data Mapping - Observation/Result Segment	13
Table 2-11 Data Mapping - Specimen Message Segment	13
Table 2-12 Regulatory Guidance	14
Table 2-13 Selected Standards	15
Table 2-14 Informative Reference Standards	15



1.0 INTRODUCTION

1.1 OVERVIEW

The purpose of this document is to describe the specification of the data elements for a lab order message and a general laboratory response message. This Component cannot be used in isolation, but rather must be used in the context of a relevant Interface Specification and/or Capability such as HITSP/CAP99 Communicate Lab Order Message. The goals supported by this Component are:

- The ability to provide additional information regarding the general laboratory order
- The ability to modify and/or complete the general laboratory order
- The ability to electronically communicate the general laboratory order or modified general laboratory order from the EHR or clinical order entry system to the appropriate laboratory system
- The ability to electronically send an acknowledgement to the ordering clinician, communicating the receipt of the original or modified general laboratory order by the laboratory or Laboratory Information System (LIS)
- The ability to communicate patient or specimen information that is associated with the general laboratory order
- The ability to electronically communicate a modification to the general laboratory order
- The ability to communicate the status of a general laboratory order
- The ability to unambiguously associate an order to a test result

This HITSP Lab Order Message Component is the result of a considered assessment of the current practices in electronic laboratory order management and the requirements of the General Lab Order Extension Harmonization Request. In order to encourage rapid and widespread adoption of this Component, HITSP placed emphasis on the message content in current implementations and the ease with which current implementations can become compliant. The approach HITSP took was in recognition of HL7 Version 2.x message-based laboratory order management in use today.

1.2 COPYRIGHT PERMISSIONS

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1.3 REFERENCE DOCUMENTS

A list of key reference documents and background material is provided in the table below. HITSP-maintained reference documents can be retrieved from the [HITSP Web Site](#).

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



Reference Document	Document Description
TN900 – Security and Privacy	TN900 is a reference document that provides the overall context for use of the HITSP Security and Privacy constructs
TN901 – Clinical Documents	TN901 is a reference document that provides the overall context for use of the HITSP Care Management and Health Records constructs
TN903 – Data Architecture	TN903 is a reference document that provides the overall context for use of the HITSP Data Architecture constructs
General Lab Orders Extension	Functional requirements from ONC for the General Lab Orders Extension

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 or Capability, 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 COMPONENT DEFINITION

2.1 CONTEXT OVERVIEW

This Component specifies standards to be used for a Lab Order Message and a General Laboratory Response Message. This specification is based on the Health Level Seven (HL7) Version 2.5.1 Standard published in April 2007. It has also been substantively informed by IHE Laboratory Technical Framework Revision 2.1 published in August 2008 and the extensive experience of HITSP members in developing laboratory interfaces using HL7 messages.

The HL7 Version 2.5.1 Standard, Chapter 4 - Order Entry, describes the structure and data fields for the OML – Lab Order Message – (Event O21) and ORL – General Laboratory Response Message (Event O22). The IHE Laboratory Technical Framework Volume 2 – Transactions Revision 2.1 further constrains the HL7 Version 2.5.1 Standard. In order to satisfy the General Laboratory Orders Extension, the Health Level Seven (HL7) Version 2.5.1 Standard was used as the base standard of this construct. This document includes additional constraints that were adopted from the IHE Laboratory Technical Framework, Laboratory Testing Workflow profile as applicable to meet the requirements of the Harmonization Request and general laboratory ordering requirements in the United States.

2.1.1 COMPONENT DEPENDENCIES

Table 2-1 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)
HITSP/C163 – Lab Order Message	HITSP/C80 – Clinical Document and Message Terminology	General	Defines terminology requirements
HITSP/C163 – Lab Order Message	HITSP/C154 – Data Dictionary	General	Identifies HITSP Data Elements that map to the HL7 Data Elements constrained by this Component

2.2 RULES FOR IMPLEMENTING

The Health Level Seven (HL7) Version 2.5.1 specification provides the implementation requirements for this Component. The specification defines all of the fields necessary for identifying the order placer and filler, identifying the patient for whom the lab service is being ordered, identifying the lab services being ordered, and the linkage of lab service orders to a specimen

C-163 [MSG-1] – Implementations claiming conformance **SHALL** support the Health Level Seven (HL7) Version 2.5.1 April, 2007 Chapter 4, adhere to all requirements of the base HL7 standard including but not limited to message structure, segment usage and cardinality, and field usage/cardinality as defined therein for Laboratory Order Messages, as well as the HITSP constraints as defined in Section 0

2.2.1 DATA MAPPING

This section describes the specific data elements used by this Component. Due to the potentially large number of data elements in a particular standard, only the fields that HITSP is constraining differently from the Health Level Seven (HL7) Version 2.5.1 Standard will be described in this document.

The HL7 Version 2.5.1 Standard defines all the necessary data structure requirements and contains the field-level detail for the data elements in laboratory order and laboratory order response messages. The minimum data set is represented by all fields and segments set to “R”, “RE”, “C” or “CE”. In addition, it contains fields that may be present depending on local usage, but are not required by the Harmonization Requests. The inclusion of “Not Supported” and/or “Optional” elements in a message should not cause the message to be rejected.



For all constraints applied to the message the reader must refer to the Health Level Seven (HL7) Version 2.5.1 Standard as well as the HITSP constraints defined in through .

2.2.1.1 MSH - MESSAGE HEADER SEGMENT

The HL7 2.5.1 Standard, Chapter 2, Section 2.15.9, Message Header Segment (MSH) is further constrained by this construct according to the following table:

Table 2-2 Data Mapping - Message Header Segment

Constraint ID	HL7 V2.5.1 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
C163[DET1-1]	MSH.3 – Sending Application	N/A	R2	C163-[MC1-1] MSH-3 SHOULD contain an OID that represents the sending application when it is available and needed for routing or informational purposes.
C163[DET1-2]	MSH.4 – Sending Facility	N/A	R	C163-[MC1-2] MSH-4 SHOULD contain an OID that represents the sending facility when it is available and needed for routing purposes
C163[DET1-3]	MSH.5 – Receiving Application	N/A	R2	C163-[MC1-3] MSH-5 SHOULD contain an OID that represents the receiving application when it is available and needed for routing purposes
C163[DET1-4]	MSH.6 – Receiving Facility	N/A	R2	C163-[MC1-4] MSH-6 SHOULD contain an OID that represents the receiving facility when it is available and needed for routing purposes
C163[DET1-5]	MSH.15 – Accept Acknowledgment Type	N/A	C	C163-[MC1-5] MSH.15 SHALL contain the literal value "AL" for order messages. C163-[MC1-6] MSH.15 SHALL be empty for Acknowledgment messages
C163[DET1-6]	MSH.16 – Application Acknowledgment Type	N/A	C	C163-[MC1-7] MSH.16 SHALL contain the literal value "AL" for order messages. C163-[MC1-8] MSH.16 SHALL be empty for Acknowledgment messages

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

2.2.1.2 PID - PATIENT IDENTIFICATION SEGMENT

The HL7 2.5.1 Standard, Chapter 3, Section 3.4.2, Patient Identification Segment (PID) is further constrained by this construct according to the following table:

Table 2-3 Data Mapping - Patient Identification Segment

Constraint ID	HL7 V2.5.1 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
C163[DET2-1]	PID.6 – Mother's Maiden Name	1.12 - Mother's Maiden Name	R2	
C163[DET2-2]	PID.7 – Date/Time of Birth	1.07 - Person Date of Birth	R2	



Constraint ID	HL7 V2.5.1 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
C163[DET2-3]	PID.8 – Administrative Sex	1.06 – Gender	R2	C154-[DE-1.06-1] Gender SHALL be coded as specified in HITSP/C80 Section 2.2.1.2.1. Administrative Gender
C163[DET2-4]	PID.10 – Race	1.10 – Race	R2	C154-[DE-1.10-1] Race SHALL be coded as specified in HITSP/C80 Section 2.2.1.2.7 Race
C163[DET2-5]	PID.11 – Patient Address	1.03 - Person Address	R2	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 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 C154-[DE-1.03-3] The country part of an address SHALL be recorded using HITSP/C80 Section 2.2.1.1.3 Country
C163[DET2-6]	PID.18 – Patient Account Number	1.18- Patient Account Number	C	C163-[DE-1.18-1] Patient Account Number SHALL be specified when account numbers are required for billing purposes
C163[DET2-7]	PID.22 – Ethnic Group	1.11 – Ethnicity	R2	C154-[DE-1.11-1] Ethnicity SHALL be coded as specified in HITSP/C80 Section 2.2.1.2.2 Ethnicity
C163[DET2-8]	PID.31 – Identity Unknown Indicator	1.17 – Identity Unknown Indicator	R2	

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

2.2.1.3 PV1 – PATIENT VISIT SEGMENT

The HL7 2.5.1 Standard, Chapter 3, Section 3.4.3, Patient Visit Segment (PV1) is further constrained by this construct according to the following table:

Table 2-4 Data Mapping - Patient Visit Segment

Constraint ID	HL7 V2.5.1 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
C163[DET3-1]	PV1.2 – Patient Class	16.10 Patient Class	R	C154-[DE-16.10-1] Patient Class SHALL be coded as specified in HITSP/C80 Section 2.2.3.9.5 Patient Class
C163[DET3-2]	PV1.3 – Assigned Patient Location	16.11 - In Facility Location	C	C163-[DE-16.11-1] SHALL be specified when PV1-2 (Patient Class) is valued with “I” for inpatient)
C163[DET3-3]	PV1.4 – Admission Type	16.07 - Admission Type	C	C163-[DE-16.17-1] SHALL be specified when PV1-2 (Patient Class) is valued with “I” for inpatient). C154-[DE-16.07-1] The Admission Type SHALL be coded as specified in HITSP/C80 Section 2.2.3.9.2 Admission Type



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

2.2.1.4 IN1 – INSURANCE SEGMENT

The Insurance Segment (IN1) is useful when billing for the lab procedure is being handled in a system that is external to the Order Placer. This is commonly necessary for eligibility checking and billing for outpatient orders and orders placed with external laboratories.

The HL7 2.5.1 Standard, Chapter 6, Section 6.5.6, Insurance Segment (IN1) is further constrained by this construct according to the following table:

Table 2-5 Data Mapping - Insurance Segment

Constraint ID	HL7 V2.5.1 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
C163[DET4-1]	IN1.4 – Insurance Company Name	5.25 Insurance Company Name	R2	
C163[DET4-2]	IN1.16 – Name Of Insured	5.18 - Subscriber Name	C	C163-[DE-5.18-1] SHALL be specified when IN2-61 (Patient Member Number) is not specified
C163[DET4-3]	IN1.18 – Insured's Date Of Birth	5.19 - Subscriber Date of Birth	C	C163-[DE-5.19-1] SHALL be specified when IN2-61 (Patient Member Number) is not specified
C163[DET4-4]	IN1.49 – Insured's ID Number	5.15 - Subscriber ID	C	C163-[DE-5.15-1] SHALL be specified when IN2-61 (Patient Member Number) is not specified

Optionality = “R” for Required, “R2” for Required if Known or “O” for Optional, or “C” for Conditional

2.2.1.5 IN2 – INSURANCE ADDITIONAL INFORMATION SEGMENT

The Insurance Additional Information Segment (IN2) is useful when billing for the lab procedure is being handled in a system that is external to the Order Placer. This is commonly necessary for eligibility checking and billing for outpatient orders and orders placed with external laboratories.

The HL7 2.5.1 Standard, Chapter 6, Section 6.5.7, Insurance Additional Information Segment (IN2) is further constrained by this Component according to the following table:

Table 2-6 Data Mapping - Insurance Segment

Constraint ID	HL7 V2.5.1 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
C163[DET5-1]	IN2.61 – Patient Member Number	5.08 - Member ID	R2	

Optionality = “R” for Required, “R2” for Required if Known or “O” for Optional, or “C” for Conditional

2.2.1.6 ORC – COMMON ORDER SEGMENT

The HL7 2.5.1 Standard, Chapter 4, Section 4.5.1, Common Order Segment (ORC) is further constrained by this Component according to the following table:



Table 2-7 Data Mapping - Common Order Segment

Constraint ID	HL7 V2.5.1 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
C163[DET6-1]	ORC.1 – Order Control	N/A	R	C163-[MC6-1] The Order Control SHALL be coded as specified in HITSP/C80 Section 2.2.3.6.7 Order Control Code
C163[DET6-2]	ORC.4 – Placer Group Number	24.01 Order Group Number	R2	
C163[DET6-3]	ORC.5 – Order Status	24.02 Order Status	C	C163-[DE-24.02-1] SHALL be specified in all OML and ORL messages sent by the Order Filler C163-[DE-24.02-2]The Order Status SHALL be coded as specified in HITSP/C80 Section 2.2.3.6.8 Order Status
C163[DET6-4]	ORC.8 – Parent	24.03 Parent Order Number	C	C163 [DE 24.03-1] If the order message refers to a reflex order (when ORC.11 Specimen Action Code is populated with "G"), this field SHALL be the order number of the original order from which the reflex order was triggered. C163 [DE 24.03-2]If this field is specified, it SHALL have the same value as OBR-29.
C163[DET6-5]	ORC.9 – Date/Time of Transaction	24.04 Date/Time of Transaction	R	
C163[DET6-6]	ORC.10 – Entered By	24.05 Order Entered By	R2	
C163[DET6-7]	ORC.11 – Verified By	24.06 Order Verified By	R2	
C163[DET6-9]	ORC.29 – Order Type	24.07 Order Setting Type	R2	C163-[DE-24.07-1] The Order Type SHALL be coded as specified in HITSP/C80 Section 2.2.3.6.9 Order Setting Type

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

2.2.1.7 TQ1 – TIMING QUANTITY SEGMENT

The HL7 2.5.1 Standard, Chapter 4, Section 4.5.4, Timing Quantity Segment (TQ1) is further constrained by this Component according to the following table:

Table 2-8 Data Mapping - Timing Quantity Segment

Constraint ID	HL7 V2.5.1 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
C163[DET7-1]	TQ1.7 – Start date/time	24.08 Requested Order Start Date/Time	C	C163-[DE-24.08-1] SHALL be specified when the Order Placer wants to enforce a starting date/time for the execution of the ordered tests



Constraint ID	HL7 V2.5.1 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
C163[DET7-2]	TQ1.9 – Priority	24.09 Order Priority	R	C163-[DE24.09-1] The Priority SHALL be coded as specified in HITSP/C80 Section 2.2.3.6.10 Order Priority

Optionality = “R” for Required, “R2” for Required if Known or “O” for Optional, or “C” for Conditional

2.2.1.8 OBR – OBSERVATION REQUEST SEGMENT

The HL7 2.5.1 Standard, Chapter 4, Section 4.5.3, Observation Request Segment (OBR) is further constrained by this Component according to the following table:

Table 2-9 Data Mapping - Observation Request Segment

Constraint ID	HL7 V2.5.1 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
C163[DET8-1]	OBR.2 – Placer Order Number	24.10 Placer Order Number	R	C163-[DE-x24.10-1] The Placer Order Number SHALL be unique across all orders for the order placer.
C163[DET8-2]	OBR.3 – Filler Order Number	24.11 Filler Order Number	R2	C163-[DE-24.11-1] The Filler Order Number SHALL be unique across all orders for the order filler. C163-[DE-x.xx-2] The Filler Order Number for a particular order SHALL not relate to more than one Placer Order Number.
C163[DET8-3]	OBR.4 – Universal Service Identifier	24.12 Order Code	R	C163-[DE-24.12-1] The Universal Service Identifier SHOULD be coded as specified in HITSP/C80 Section 2.2.3.6.2 Laboratory Order Vocabulary when there is a corresponding code in the value set
C163[DET8-4]	OBR.10 – Collector Identifier	24.16 Specimen Collector ID	R2	
C163[DET8-5]	OBR.16 – Ordering Provider	24.14 Ordering Provider	R	
C163[DET8-6]	OBR.28 – Result Copies To	24.15 Results Distribution List	R2	C163-[DE-24.15-1] when there are persons or care units that need to receive a copy of the results, the Order Placer SHALL provide a value
C163[DET8-7]	OBR.29 - Parent	24.03Parent Order Number	C	C163 [DE 24.03-1] If the order message refers to a reflex order (when ORC.11 Specimen Action Code is populated with “G”), this field SHALL be the order number of the original order from which the reflex order was triggered. C163 [DE 24.03-2]If this field is specified, it SHALL have the same value as ORC-8.

Optionality = “R” for Required, “R2” for Required if Known or “O” for Optional, or “C” for Conditional



2.2.1.9 OBX – OBSERVATION/RESULT SEGMENT

For the purposes of this construct the HL7 Observation/Result Segment is used to relay information pertinent to the order. This includes but is not limited to additional clinical observations and answers to Ask at Order Entry questions.

The HL7 2.5.1 Standard, Chapter 7, Section 7.4.2, Observation/Result Segment (OBX) is further constrained by this construct according to the following table:

Table 2-10 Data Mapping - Observation/Result Segment

Constraint ID	HL7 V2.5.1 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
C163[DET9-1]	OBX.3 – Observation Identifier	15.03 Result Type	R	C163-[DE15.03-1] The Observation Identifier SHOULD be coded as specified in HITSP/C80 Section 2.2.3.6.1.1 Laboratory Tests Result Vocabulary for results in which there is a corresponding code in the vocabulary.
C163[DET9-2]	OBX.6 – Units	15.05 Result Value(<i>units</i>)	R2	C163-[DE15.05-1]The Units SHOULD be coded as specified in HITSP/C80 Section 2.2.3.6.6 Units of Measure Vocabulary when the Value Type (OBX-2) is populated with NM or SN
C163[DET9-3]	OBX.7 – Reference Range	15.07 Result Reference	R2	
C163[DET9-4]	OBX.8 – Abnormal Flags	15.06 Results Interpretation	R2	C154-[DE15.06-1]The Abnormal Flags SHALL be coded as specified in HITSP/C80 Section 2.2.3.6.3.1 V2 Result Normalcy Status Vocabulary
C163[DET9-5]	OBX.14 – Date/Time of the Observation	15.02 Result Date/Time	R2	

Optionality = “R” for Required, “R2” for Required if Known or “O” for Optional, or “C” for Conditional

2.2.1.10 SPM – SPECIMEN SEGMENT

The HL7 2.5.1 Standard, Chapter 7, Section 7.4.2, Specimen Segment (SPM) is further constrained by this Component according to the following table:

Table 2-11 Data Mapping - Specimen Message Segment

Constraint ID	HL7 V2.5.1 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
C163[DET10-1]	SPM.2 – Specimen ID	25.01 Specimen ID	R2	
C163[DET10-2]	SPM.3 – Specimen Parent IDs	25.02 Specimen Parent ID	R2	
C163[DET10-3]	SPM.4 – Specimen Type	25.03 Specimen Type	R	C163-[DE25.03-1] The Specimen Type SHALL be coded as specified in HITSP/C80 Section 2.2.3.6.13 Specimen Type
C163[DET10-4]	SPM.7 – Specimen Collection Method	25.04 Specimen Collection Method	R2	C163-[DE25.04-1]The Specimen Collection Method SHALL be coded as specified in HITSP/C80 Section 2.2.3.6.14 Specimen Collection Method



Constraint ID	HL7 V2.5.1 Data Element	HITSP Data Element Identifier and Name	Optionality	Additional Specification
C163[DET10-5]	SPM.8 – Specimen Source Site	25.05 Specimen Source Site	R2	C163-[DE25.05-1]The Specimen Source Site SHALL be coded as specified in HITSP/C80 Section 2.2.3.2.1 Body Site when the specimen source site is included within the value set.
C163[DET10-6]	SPM.9 – Specimen Source Site Modifier	25.06 Specimen Source Site Modifier	R2	
C163[DET10-7]	SPM.10 – Specimen Collection Site	17.06 - Body Site	O	C163-[DE-17.06-1] The Site SHALL be coded as specified in HITSP/C80 Section 2.2.3.2.1 Body Site
C163[DET10-8]	SPM.16 – Specimen Risk Code	25.07 Specimen Risk	R2	C163-[DE25.07-1]The Specimen Risk Code SHALL be coded as specified in HITSP/C80 Section 2.2.3.6.12 Specimen Risk Code
C163[DET10-9]	SPM.17 – Specimen Collection Date/Time	25.08 Specimen Collection Date/Time	R2	
C163[DET10-10]	SPM.18 – Specimen Received Date/Time	25.09 Specimen Received Date/Time	C	C163-[DE25.09-1] The Specimen Receive Date/Time SHALL be populated in OML messages sent by the Order Filler, if the specimen has been received by the laboratory known
C163[DET10-11]	SPM.20 – Specimen Availability	25.10 Specimen Availability	C	C163-[DE25.10-1] The Specimen Receive Date/Time SHALL be populated in messages sent by the Order Filler
C163[DET10-12]	SPM.21 – Specimen Rejection Reason	25.11 Specimen Rejection Reason	C	C163-[DE25.11-1] The Specimen Rejection Reason SHALL be populated whenever the laboratory rejects a specimen, in messages sent by the Order Filler
C163[DET10-13]	SPM.26 – Number of Specimen Containers	25.12 Number of Specimen Containers	R2	

Optionality = “R” for Required, “R2” for Required if Known or “O” for Optional, or “C” for Conditional

2.3 STANDARDS

2.3.1 REGULATORY GUIDANCE

Table 2-12 lists any regulatory guidance that determines or constrains use of standards. Laboratories are expected to comply with their local regulatory or accreditation requirements that apply to them in addition to those listed in this section.

Table 2-12 Regulatory Guidance

Standard	Description
Clinical Laboratory Improvement Amendments (CLIA) of 1988	Establishes quality standards for all laboratory testing to ensure the accuracy, reliability, and timeliness of patient test results regardless of where the test is performed. The Centers for Medicare and Medicaid Services (CMS) regulates all laboratory testing (except research) performed on humans in the U.S. based on CLIA. For more information visit http://www.fda.gov and http://www.cms.hhs.gov



2.3.2 SELECTED STANDARDS

Table 2-13 Selected Standards

Standard	Description
Health Level Seven (HL7) Version 2.5.1, Lab Order Message (OML) and General Laboratory Response (ORL)	The HL7 Version 2.5.1 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. Of particular focus is for message formats described in Chapters 2, 3, 4, 6 and 7 supporting the OML and ORL messages. For more information visit www.hl7.org
Logical Observation Identifiers Names and Codes (LOINC®)	A database of universal identifiers for laboratory and other clinical observations. The laboratory portion of the LOINC database contains the usual categories of chemistry, hematology, serology, microbiology (including parasitology and virology), and toxicology; as well as categories for drugs and the cell counts typically reported on a complete blood count or a cerebrospinal fluid cell count. Antibiotic susceptibilities are a separate category. The clinical portion of the LOINC database includes entries for vital signs, hemodynamics, intake/output, EKG, obstetric ultrasound, cardiac echo, urologic imaging, gastroendoscopic procedures, pulmonary ventilator management, selected survey instruments, and other clinical observations. For more information visit www.loinc.org
International Health Terminology Standards Development Organisation (IHTSDO) Systematized Nomenclature of Medicine Clinical Terms (SNOMED CT®)	SNOMED CT consists of a technical design, core content architecture, and Core content. SNOMED CT Core content includes the technical specification of SNOMED CT and fully integrated multi-specialty clinical content. The Core content also includes a concepts table, description table, relationships table, history table, ICD-9-CM mapping, and Technical Reference Guide. Additionally, SNOMED CT provides a framework to manage language dialects, clinically relevant subsets, qualifiers and extensions, as well as concepts and terms unique to particular organizations or localities. For more information visit www.ihtsdo.com
Unified Code for Units of Measure (UCUM)	A code system intended to include all units of measures being contemporarily used in international science, engineering, and business. The purpose is to facilitate unambiguous electronic communication of quantities together with their units. The focus is on electronic communication, as opposed to communication between humans. For more information visit http://regenstrief.org

2.3.3 INFORMATIVE REFERENCE STANDARDS

Table 2-14 Informative Reference Standards

Standard Name	Description/Reason for Use
Integrating the Healthcare Enterprise (IHE) Laboratory Technical Framework Revision 2.1, Final Text, August 8, 2008	The Laboratory Technical Framework (LAB TF) defines specific implementations of established standards to achieve integration goals of clinical laboratories with other components of a healthcare enterprise or with a broader community of healthcare providers, hereafter called a healthcare community. For more information visit http://www.ihe.net/



3.0 APPENDIX

No additional information at this time.

RELEASED FOR IMPLEMENTATION



4.0 DOCUMENT UPDATES

This section provides the history of changes made to this document.

4.1 JANUARY 18, 2010

- Update Section 1.01 – Addition of ONC Laboratory Order Extension Reference
- Updated Section 2.2 – Message Level Constraints moved to HITSP/CAP99 to operate as Transaction Level Constraints; Addition of Table 2-3; Modification of verbiage explaining Lab Order Message requirements. Removed text requesting Public Comments
- Updated Section 2.2.1 –Updated tables to add Constraint IDs; Relaxed Message Header OID Requirements, Finalized HL7 Data Elements to HITSP Data Elements Mapping;
- Insurance Segment – removed requirements for Group Number and Policy Number, Restored Optionality of Insured's Relationship to Patient, Policy Number
- Removed text where comments were invited
- Section 2.3.1 Addition of Regulatory Guidance introduction.
- Removed Section 3.2 (additional text inviting comments)
- Addition of new Section 3.2 outlining the Laboratory Order Message Structure – Moved to HITSP/CAP99

The following changes have been made to address Public Comments.

- 8048, 8050, 8051, 8052, 8054, 8056, 8057, 8260, 8261, 8262, 8279, 8280, 8281, 8282, 8284, 8285, 8287, 8288, 8289, 8290, 8309, 8402, 8452, 8453, 8454, 8455, 8456, 8457, 8472, 8496, 8515, 8520, 8523, 8525, 8526, 8528, 8530, 8538, 8540, 8542, 8557, 8558, 8560, 8618, 8621, 8622, 8623, 8624, 8625, 8717, 8722, 8769, 8804, 8815, 8816, 8817, 8820, 8821, 8822, 8823, 8824, 8825, 8826, 8830, 8832, 8836, 8848, 8851, 8858, 8860, 8861, 8863, 8864, 8865, 8867, 8869, 8928, 9029, 9030, 9035, 9043, 9044, 9045, 9046, 9047, 9048, 9049, 9051, 9052, 9053, 9054, 9055, 9311, 9315, 9316, 9318, 9319, 9320, 9321, 9323, 9324, 9325, 9326, 9329, 9330, 9331

The full text of the comments along with the Technical Committee's disposition can be reviewed on the [HITSP Public Web Site](#).

Additional Changes have been made based upon HITSP Internal Review Team Comment

4.2 JANUARY 25, 2010

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

