

# IHE Change Proposal

## Tracking information:

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Change Proposal Status:	<submitted, analysis, completed>
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## Change Proposal Summary information:

<b>Add the possibility to send Additional Result Identifiers like LOINC Codes</b>	
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Submission Date:	13 <sup>th</sup> July 2021, changed on 11th Jan 2023
Integration Profile(s) affected:	LAW, LAB-29 Transaction
Actor(s) affected:	Analyzer Manger and Analyzer (All Actors)
IHE Technical Framework or Supplement modified:	IHE Pathology and Laboratory Medicine (PaLM) Technical Framework
Volume(s) and Section(s) affected:	Technical Framework Volume 2b (PaLM TF-2b) Transactions (cont.)  Chapter C.7 OBX Segment Chapter 2.3 Use of Coded Entities and Coding Schemes Chapter 2.3.1 Order and Result Vocabularies
Rationale for Change: a) To support the sending of additional result identifiers like LOINC Codes and additional identifiers allow the sending of alternate and second alternate identifiers not only for supplemental results but also for "normal" Results. b) To support the way LOINC is recommending to sent LOINC Codes together with local/vendor defined codes: <i>"The OBX-3 slot allows 2 sets of triplets, one for your local concept and one for the concept from the vocabulary standard"</i> (see: <a href="https://loinc.org/get-started/what-loinc-is/">https://loinc.org/get-started/what-loinc-is/</a> )	

*In Chapter C.7 OBX Segment, change the line “OBX-3 Observation Identifier (CE), mandatory” to “OBX-3 Observation Identifier (CWE), mandatory.”*

*In Chapter C.7 OBX Segment, change in the Table C.7-1 change the DT Column for line 3 (Observation Identifier) from CE to **CWE**.*

*In Chapter C.7 OBX Segment, change the Table C.7-3 to the following*

**Table C.7-3: Element OBX-3 Observation Identifier**

<b>Component/Sub-Component</b>	<b>Usage</b>	<b>LEN</b>	<b>Comment</b>
Identifier (ST)	R	20	Observation Identifier Code
Text (ST)	R	199	Observation Identifier Description
Name of Coding System (ID)	R	12	“LN” for LOINC®, “JC10” for JLAC10, or “99zzz” for a vendor-defined coding system (where z is an alphanumeric character)
Alternate Identifier (ST)	RE	20	Either: <ul style="list-style-type: none"> <li>- Supplemental result code from Table 2.3.1-5 LAW Codes for Supplemental Results if used for Supplemental Result</li> <li>- Additional Observation Identifier Code similar to OBX-3-1</li> </ul>
Alternate Text (ST)	C (R/X)	199	Either: <ul style="list-style-type: none"> <li>- Supplemental result name from Table 2.3.1-5 LAW Codes for Supplemental Results if used for Supplemental Result or</li> <li>- Observation Identifier Description as for OBX-3-2</li> </ul>

Name of Alternate Coding System (ID)	C (R/X)	6	Either : - Fixed "IHELAW" for Supplemental Results or - "LN" for LOINC®, "JC10" for JLAC10, or "99zzz" for a vendor-defined or local-defined coding system as defined for the Name of Coding System (OBX-3-3)
Coding System Version ID	C (O/X)	10	Only to be used if Alternate Identifier and Coding System Version ID is used.
Alternate Coding System Version ID	C (O/X)	10	Only to be used if Alternate Identifier and alternate Coding System Version ID is used
Original Text	C (O/X)	199	Only to be used if Alternate Identifier and Original Text is used
2 <sup>nd</sup> Alternate Identifier	RE	20	Additional Observation Identifier Code similar to OBX-3-1
2 <sup>nd</sup> Alternate Text	C (R/X)	199	Observation Identifier Description as for OBX-3-2
Name of 2 <sup>nd</sup> Alternate Coding System	C (R/X)	6	"LN" for LOINC®, "JC10" for JLAC10, or "99zzz" for a vendor-defined or local-defined coding system as defined for the Name of Coding System (OBX-3-3)

***In Chapter C.7 Use of Coded Entities and Coding Schemes, after Table C.7-3 change to content of line 2127 to 2132)to the following:***

Alternate components OBX-3-4 to OBX-3-6 SHALL be used only for two different things:

- To identify supplemental result information, where OBX-3-4 “Alternate Identifier” is populated with an LAW supplemental result identifier associated with the vendor supplemental identification provided in OBX-3-1 to OBX-3-3. The condition for both OBX-3-5 “Alternate Text” and 2130 OBX-3-6 “Name of Alternate Coding System” is that OBX-3-4 “Alternate Identifier” is populated.
- To be able to send different result codes that are alternatives to the once used in OBX-3-1 to OBX-3-3 (i.e. to be able to send vendor defined information in OBX-3-1 to OBX-3-3 and LOINC, JLAC10 or other vendor/local defined codes together).

The 2<sup>nd</sup> Alternate components OBX-3-10 to OBX-3-12 MAY be used to send different result codes that are alternatives to the ones used in OBX-3-1 to OBX-3-3 and OBX-3-4 to OBX-3-6. I.e. to be able to send vendor-defined information in OBX-3-1 to OBX-3-3 and LOINC defined codes in OBX-3-4 to OBX-3-6 together with JLAC10 defined codes in OBX-3-10 to OBX-3-12.

***In Chapter 2.3 OBX Segment, Table 2.3-1: “CE/CWE Data Type” should be changed to the following “CWE Data Type”***

***In Chapter 2.3 OBX Segment, Line 582ff should be changed to the following:***

The following table describes how the CWE data types are used by this profile. Note that the “alternate” fields are only specified for Supplemental Results **and additional result Identifiers**, as described in Section 2.3.1 below.

***In Chapter 2.3 OBX Segment, Table 2.3-1: CE/CWE Data Type should be changed to the following:***

Component/Sub-Component	Usage	LEN	Comment
Identifier (ST)	R	20	Only ASCII printable characters (excluding the MSH-1 Field Separator, MSH-2 Encoding Characters, and white space) should be used.
Text (ST)	RE	199	Should always be provided if available, may be R for specific usages.
Name of Coding System (ID)	R	12	<ul style="list-style-type: none"> <li>• A coding system defined in HL7 Table HL70396,</li> <li>• “HL7nnnn” for an HL7 Table</li> </ul>

			<ul style="list-style-type: none"> <li>• “IHELAW” for codes defined by the LAW Profile</li> <li>• “99zzz...” identifier for a vendor-or local defined coding system</li> </ul>
Alternate Identifier (ST)	X or R	20	Only ASCII printable characters (excluding the MSH-1 Field Separator, MSH-2 Encoding Characters, and white space) should be used.
Alternate Text (ST)	X or RE	199	Should always be provided if available, may be R for specific usages.
Name of Alternate Coding System (ID)	X or RE	12	<ul style="list-style-type: none"> <li>• A coding system defined in HL7 Table HL70396,</li> <li>• “HL7nnnn” for an HL7 Table</li> <li>• “IHELAW” for codes defined by the LAW Profile</li> <li>• “99zzz...” identifier for a vendor-defined coding system</li> </ul>
Coding System Version ID	X or O	10	Only to be used if Alternate Identifier and Coding System Version ID is used.
Alternate Coding System Version ID	X or O	10	Only to be used if Alternate Identifier and alternate Coding System Version ID is used
Original Text	X or O	199	Only to be used if Alternate Identifier and Original Text is used
2 <sup>nd</sup> Alternate Identifier	RE	20	Only ASCII printable characters (excluding the MSH-1 Field Separator, MSH-2 Encoding Characters, and white space) should be used.
2 <sup>nd</sup> Alternate Text	C (R/X)	199	Should always be provided if available, may be R for specific usages.
Name of 2 <sup>nd</sup> Alternate Coding System	C (R/X)	12	<ul style="list-style-type: none"> <li>• A coding system defined in HL7 Table HL70396,</li> <li>• “HL7nnnn” for an HL7 Table</li> <li>• “99zzz...” identifier for a vendor or local-defined coding system</li> </ul>

*In Chapter 2.3.1 Order and Result Vocabularies, the term “the CE data type is populated as follows” should be changed to “the **CWE data type is populated as follows**” (appears three times, once for LOINC, once for JLAB10 and once for vendor defined observation code).*

***In Chapter 2.3.1 Order and Result Vocabularies, add the following chapter:***

To be able to send multiple result identifiers as alternate identifier (OBX-3-4 to OBX-3-6) and 2nd alternate identifier (OBX-3-10 to OBX-3-12) it is possible to use the Coding System name in OBX-3-3, OBX-3-6 and OBX-3-12 to distinguish between them (e.g. a vendor defined one, a LOINC one, and a locally defined one).

When sending alternate observation identifiers the CWE data type is populated as follows (please take care, that 2<sup>nd</sup> Alternate identifier is in OBX-3-10 2<sup>nd</sup> Alternate Text is in OBX-3-11 and Name of 2<sup>nd</sup> Alternate Coding System is in OBX-3-12):

**Table 2.3.1-6**

<b>Component/Sub-Component</b>	<b>Usage</b>	<b>LEN</b>	<b>Comment</b>
Identifier (ST)	R	20	Local-defined code
Text (ST)	RE	199	Local-defined name
Name of Coding System (ID)	R	12	« 99zzz... » identifier for a local-defined coding system
Alternate Identifier (ST)	C(R/X)	20	LOINC® Code
Alternate Text (ST)	C(R/X)	199	LOINC® Name
Name of Alternate Coding System (ID)	C(R/X)	12	LN
Coding System Version ID	C (O/X)	10	Only to be used if Alternate Identifier and Coding System Version ID is used.
Alternate Coding System Version ID	C (O/X)	10	Only to be used if Alternate Identifier and alternate Coding System Version ID is used
Original Text	C (O/X)	199	Only to be used if Alternate Identifier and Original Text is used
2 <sup>nd</sup> Alternate Identifier	C(R/X)	20	Vendor-defined code
2 <sup>nd</sup> Alternate Text	C (R/X)	199	Vendor-defined name
Name of 2 <sup>nd</sup> Alternate Coding System	C (R/X)	12	« 99zzz... » identifier for a vendor-defined coding system – must be different to the one used in OBX-3-3.