



November 6, 2015

Dr. Karen DeSalvo
Acting Assistant Secretary for Health
National Coordinator for Health Information Technology
Office of the National Coordinator for Health Information Technology
U.S. Department of Health and Human Services
200 Independence Ave, SW
Washington, DC 20201

DELIVERED ELECTRONICALLY

RE: Comments on the 2016 Interoperability Standards Advisory [Draft for Comment]

Dear Secretary DeSalvo:

I am submitting the attached comments on behalf of the American Clinical Laboratory Association (ACLA) in response to the *2016 Interoperability Standards Advisory [Draft for Comment]* (hereinafter "the Draft").

ACLA is a not-for-profit association representing the nation's leading providers of clinical laboratory services, including local, regional, and national laboratories. Our diverse membership represents a broad array of clinical laboratories, including national independent labs, reference labs, esoteric labs, hospital labs, and nursing home laboratories.

ACLA applauds your leadership in releasing the Draft in order to further advance health information technology (HIT) interoperability, a critical and vital goal for improving the quality of care for patients. ACLA member laboratories appreciate the opportunity to comment on the Advisory as a living document and hope these comments serve to continue to move interoperability forward.

Sincerely,

A handwritten signature in blue ink, reading "Thomas B. Sparkman", is positioned below the word "Sincerely,".

Thomas B. Sparkman, RPh, MPP, JD
Vice President, Government Relations

ATTACHMENT

ATTACHMENT: ACLA Comments on the 2016 Interoperability Standards Advisory [Draft for Comment]

General Comments:

1. ACLA appreciates the Draft's new format; it is much clearer and simplifies the comment process.
2. While many of the standards cited are identified as "Free" (see inset), there is still a significant resource cost to implement in systems and test interoperability between trading partners. Inset (from Draft page 7):

#5: Cost

This characteristic conveys whether a standard or implementation specification costs money to obtain.

- "\$" – when this designation is assigned, it signifies that some type of payment needs to be made in order to obtain the standard or implementation specification.
- "Free" – when this designation is assigned, it signifies that the standard or implementation specification can be obtained without cost. This designation applies even if a user account or license agreement is required to obtain the standard at no cost.

Specific Comments:

Page #	Comment																				
9	<div>I-B: Care Team Member</div> <div><div>Interoperability Need: Representing care team member (health care provider)</div><table><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>National Provider Identifier (NPI)</td><td>Final</td><td>Production</td><td>●●○○○</td><td>No</td><td>Free</td><td>N/A</td></tr></table><table><tr><th>Limitations, Dependencies, and Preconditions for Consideration:</th><th>Applicable Security Patterns for Consideration:</th></tr><tr><td><ul style="list-style-type: none">For the purpose of recording a care team member, it should be noted that NPI permits, but does not require, non-billable care team members to apply for an NPI number to capture the concept of 'person'.There is a SNOMED-CT value set for a "subjects role in the care setting" that could also be used in addition to NPI for care team members.</td><td><ul style="list-style-type: none">Feedback requested</td></tr></table></div> <div>Comment: ACLA agrees with the usage of NPI but would like to recognize a concern with adopting SNOMED-CT for this subject role without a formal pilot and assessment determining its possible usage and adoption.</div>	Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	National Provider Identifier (NPI)	Final	Production	●●○○○	No	Free	N/A	Limitations, Dependencies, and Preconditions for Consideration:	Applicable Security Patterns for Consideration:	<ul style="list-style-type: none">For the purpose of recording a care team member, it should be noted that NPI permits, but does not require, non-billable care team members to apply for an NPI number to capture the concept of 'person'.There is a SNOMED-CT value set for a "subjects role in the care setting" that could also be used in addition to NPI for care team members.	<ul style="list-style-type: none">Feedback requested
Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability														
Standard	National Provider Identifier (NPI)	Final	Production	●●○○○	No	Free	N/A														
Limitations, Dependencies, and Preconditions for Consideration:	Applicable Security Patterns for Consideration:																				
<ul style="list-style-type: none">For the purpose of recording a care team member, it should be noted that NPI permits, but does not require, non-billable care team members to apply for an NPI number to capture the concept of 'person'.There is a SNOMED-CT value set for a "subjects role in the care setting" that could also be used in addition to NPI for care team members.	<ul style="list-style-type: none">Feedback requested																				
9	<div>Text:</div> <div>I-C: Encounter Diagnosis: Interoperability Need: Documenting patient encounter diagnosis</div>																				

Page #	Comment																																																
	<table><tr><th colspan="8">Interoperability Need: Documenting patient encounter diagnosis</th></tr><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>SNOMED-CT</td><td>Final</td><td>Production</td><td>● ● ● ● ○</td><td>Yes</td><td>Free</td><td>N/A</td></tr><tr><td>Standard</td><td>ICD-10-CM</td><td>Final</td><td>Production</td><td>● ● ● ● ○</td><td>Yes</td><td>Free</td><td>N/A</td></tr><tr><td colspan="2">Limitations, Dependencies, and Preconditions for Consideration:</td><td colspan="6">Applicable Security Patterns for Consideration:</td></tr><tr><td colspan="2">● Feedback requested</td><td colspan="6">● Feedback requested</td></tr></table> <p>Comment:</p> <p>The definition for “Encounter Diagnosis” needs clarification in order to determine which standard(s) are appropriate. For example, SNOMED-CT may be used for patient “Problem” list but not the actual patient diagnosis, which is a clinical function, but is not typically used in the US Realm for administrative diagnosis. ICD-10 was required for adoption October 1, 2015.</p>	Interoperability Need: Documenting patient encounter diagnosis								Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	SNOMED-CT	Final	Production	● ● ● ● ○	Yes	Free	N/A	Standard	ICD-10-CM	Final	Production	● ● ● ● ○	Yes	Free	N/A	Limitations, Dependencies, and Preconditions for Consideration:		Applicable Security Patterns for Consideration:						● Feedback requested		● Feedback requested					
Interoperability Need: Documenting patient encounter diagnosis																																																	
Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability																																										
Standard	SNOMED-CT	Final	Production	● ● ● ● ○	Yes	Free	N/A																																										
Standard	ICD-10-CM	Final	Production	● ● ● ● ○	Yes	Free	N/A																																										
Limitations, Dependencies, and Preconditions for Consideration:		Applicable Security Patterns for Consideration:																																															
● Feedback requested		● Feedback requested																																															
10	<p>Text:</p> <p>I-D: Race and Ethnicity: Interoperability Need: Representing patient race and ethnicity</p> <table><tr><th colspan="8">Interoperability Need: Representing patient race and ethnicity</th></tr><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>OMB standards for Maintaining, Collecting, and Presenting Federal Data on Race and Ethnicity, Statistical Policy Directive No. 15, Oct 30, 1997</td><td>Final</td><td>Production</td><td>● ● ● ● ●</td><td>Yes</td><td>Free</td><td>N/A</td></tr><tr><td colspan="2">Limitations, Dependencies, and Preconditions for Consideration:</td><td colspan="6">Applicable Security Patterns for Consideration:</td></tr><tr><td colspan="2">● The CDC Race and Ethnicity Code Set Version 1.0, which expands upon the OMB standards may help to further define race and ethnicity for this interoperability need as it allows for multiple races and ethnicities to be chosen for the same patient.</td><td colspan="6">● Feedback requested</td></tr><tr><td colspan="2">● The HIT Standards Committee noted that the high-level race/ethnicity categories in the OMB Standard may be suitable for statistical or epidemiologic purposes but may not be adequate in the pursuit of precision medicine and enhancing therapy or clinical decisions.</td><td colspan="6"></td></tr></table>	Interoperability Need: Representing patient race and ethnicity								Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	OMB standards for Maintaining, Collecting, and Presenting Federal Data on Race and Ethnicity, Statistical Policy Directive No. 15, Oct 30, 1997	Final	Production	● ● ● ● ●	Yes	Free	N/A	Limitations, Dependencies, and Preconditions for Consideration:		Applicable Security Patterns for Consideration:						● The CDC Race and Ethnicity Code Set Version 1.0 , which expands upon the OMB standards may help to further define race and ethnicity for this interoperability need as it allows for multiple races and ethnicities to be chosen for the same patient.		● Feedback requested						● The HIT Standards Committee noted that the high-level race/ethnicity categories in the OMB Standard may be suitable for statistical or epidemiologic purposes but may not be adequate in the pursuit of precision medicine and enhancing therapy or clinical decisions.							
Interoperability Need: Representing patient race and ethnicity																																																	
Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability																																										
Standard	OMB standards for Maintaining, Collecting, and Presenting Federal Data on Race and Ethnicity, Statistical Policy Directive No. 15, Oct 30, 1997	Final	Production	● ● ● ● ●	Yes	Free	N/A																																										
Limitations, Dependencies, and Preconditions for Consideration:		Applicable Security Patterns for Consideration:																																															
● The CDC Race and Ethnicity Code Set Version 1.0 , which expands upon the OMB standards may help to further define race and ethnicity for this interoperability need as it allows for multiple races and ethnicities to be chosen for the same patient.		● Feedback requested																																															
● The HIT Standards Committee noted that the high-level race/ethnicity categories in the OMB Standard may be suitable for statistical or epidemiologic purposes but may not be adequate in the pursuit of precision medicine and enhancing therapy or clinical decisions.																																																	

Page #	Comment																												
	<p>Comment:</p> <p><u>Race</u></p> <p>Some elements, such as "race", have both administrative and clinical usage. For example, "race" may be collected and used for administrative purposes, but may also have clinical significance for some laboratory tests results and should be carefully defined. When clinically significant, the patient's "race" should be managed using an "Ask on Order Entry" question (AOE). This process is defined in the eDOS Implementation Guide developed through the ONC Standards & Interoperability Framework, and is designed work in conjunction with the LOI Implementation Guide, also developed through the ONC S&I Framework. As a clinical example, Glomerular Filtration Rate, Estimated (eGFR) results reference ranges vary based on race.</p> <p><u>Ethnicity</u></p> <p>Some elements, such as "ethnicity" have both administrative and clinical usage. For example, "ethnicity" may be collected and used for administrative purposes, but "ethnicity" may also have clinical significance for some laboratory tests results and should be carefully defined because the OMB definition is not adequate for clinical purposes. When clinically significant, the patient's "ethnicity" should be managed using an "Ask on Order Entry" question (AOE). This process is defined in the eDOS Implementation Guide developed through the ONC Standards & Interoperability Framework, and is designed work in conjunction with the LOI Implementation Guide, also developed through the ONC S&I Framework.</p> <p>ACLA feels the adoption of OMB values for race and ethnicity is overstated; while some values in the OMB value set are commonly used, we do not concur there is widespread adoption of the OMB standard.</p>																												
14	<p>Text:</p> <p>I-J: Lab tests: Interoperability Need: Representing laboratory tests and observations</p> <table><tr><th colspan="8">Interoperability Need: Representing laboratory tests and observations</th></tr><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>LOINC</td><td>Final</td><td>Production</td><td>●●●●○</td><td>Yes</td><td>Free</td><td>N/A</td></tr></table> <table><tr><th>Limitations, Dependencies, and Preconditions for Consideration:</th><th>Applicable Security Patterns for Consideration:</th></tr><tr><td><ul style="list-style-type: none">The HIT Standards Committee recommended that laboratory test and observation work in conjunction with values or results which can be answered numerically or categorically. If the value/result/answer to a laboratory test and observation is categorical that answer should be represented with the SNOMED-CT terminology.The HIT Standards Committee recommended that organizations not using LOINC codes should maintain and publish a mapping of their codes to the LOINC equivalent until migration to LOINC has occurred.</td><td><ul style="list-style-type: none">Feedback requested</td></tr></table>	Interoperability Need: Representing laboratory tests and observations								Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	LOINC	Final	Production	●●●●○	Yes	Free	N/A	Limitations, Dependencies, and Preconditions for Consideration:	Applicable Security Patterns for Consideration:	<ul style="list-style-type: none">The HIT Standards Committee recommended that laboratory test and observation work in conjunction with values or results which can be answered numerically or categorically. If the value/result/answer to a laboratory test and observation is categorical that answer should be represented with the SNOMED-CT terminology.The HIT Standards Committee recommended that organizations not using LOINC codes should maintain and publish a mapping of their codes to the LOINC equivalent until migration to LOINC has occurred.	<ul style="list-style-type: none">Feedback requested
Interoperability Need: Representing laboratory tests and observations																													
Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability																						
Standard	LOINC	Final	Production	●●●●○	Yes	Free	N/A																						
Limitations, Dependencies, and Preconditions for Consideration:	Applicable Security Patterns for Consideration:																												
<ul style="list-style-type: none">The HIT Standards Committee recommended that laboratory test and observation work in conjunction with values or results which can be answered numerically or categorically. If the value/result/answer to a laboratory test and observation is categorical that answer should be represented with the SNOMED-CT terminology.The HIT Standards Committee recommended that organizations not using LOINC codes should maintain and publish a mapping of their codes to the LOINC equivalent until migration to LOINC has occurred.	<ul style="list-style-type: none">Feedback requested																												

ATTACHMENT: ACLA Comments on the 2016 Interoperability Standards Advisory [Draft for Comment]

Page #	Comment																										
	<p>Comment: It can sometimes take several months to obtain a LOINC, thus it is impossible to provide a mapping while awaiting a number from Regenstrief. Additionally, some very specialized laboratory tests may never receive a LOINC code assignment.</p> <p>ACLA does not view SNOMED cited in the “Standard” section, therefore it is unclear how to interpret the HITSC recommendation; further we don’t believe that SNOMED adoption is level 4.</p>																										
14	<p>Text: I-I Industry and Occupation: Interoperability Need: Representing patient industry and occupation</p> <table><tr><th colspan="8">Interoperability Need: Representing patient industry and occupation</th></tr><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>[See Question 4-5]</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> <table><tr><td>Limitations, Dependencies, and Preconditions for Consideration:<ul style="list-style-type: none">Feedback requested</td><td>Applicable Security Patterns for Consideration:<ul style="list-style-type: none">Feedback requested</td></tr></table> <p>Section I: Vocabulary/Code Set</p> <p>4-5. Based on public feedback and HIT Standards Committee review, there does not appear to be a best available standard for several “interoperability needs” expressed in this section of the draft Advisory. Please provide feedback on whether this is correct or recommend a standard (and your accompanying rationale).</p> <p>Comment: The ONC S&I Framework Laboratory Vocabulary Work Group previously considered two options, and felt the following were viable candidates with no preference given to either:</p> <ul style="list-style-type: none">US Census 2010 Industry/Occupation codes: http://www.census.gov/people/io/methodology/indexes.htmlNational Institute for Occupational Safety and Health (NIOSH) list, which includes an Industry and Occupation Computerized Coding System (NIOCCS), available on the CDC website: http://www.cdc.gov/niosh/topics/coding/overview.html#intro¹	Interoperability Need: Representing patient industry and occupation								Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	[See Question 4-5]							Limitations, Dependencies, and Preconditions for Consideration: <ul style="list-style-type: none">Feedback requested	Applicable Security Patterns for Consideration: <ul style="list-style-type: none">Feedback requested
Interoperability Need: Representing patient industry and occupation																											
Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability																				
Standard	[See Question 4-5]																										
Limitations, Dependencies, and Preconditions for Consideration: <ul style="list-style-type: none">Feedback requested	Applicable Security Patterns for Consideration: <ul style="list-style-type: none">Feedback requested																										
15	<p>Text: I-L: Numerical References & Values: Interoperability Need: Representing numerical references and values</p>																										

¹ The NIOSH Industry and Occupation Computerized Coding System (NIOCCS) is a web-based software tool designed to translate industry and occupation (I&O) text to standardized I&O codes. It is used by occupational researchers, federal government agencies, state health departments and other organizations that collect and/or evaluate information using I&O. Its purpose is to provide a tool that reduces the high cost of manually coding I&O information while simultaneously improving uniformity of the codes.

Page #	Comment																																																								
	<table><tr><th colspan="8">Interoperability Need: Representing numerical references and values</th></tr><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>The Unified Code of Units of Measure</td><td>Final</td><td>Production</td><td>●●●○○</td><td>No</td><td>Free</td><td>N/A</td></tr><tr><td colspan="2">Limitations, Dependencies, and Preconditions for Consideration:</td><td colspan="6">Applicable Security Patterns for Consideration:</td></tr><tr><td colspan="2">• The case sensitive version is the correct unit string to be used for interoperability purposes per HIT Standards Committee recommendations.</td><td colspan="6">• Feedback requested</td></tr></table> <p>Comment:</p> <p>Some issues with UCUM in the laboratory domain remain unresolved. ACLA recommends ONC convene a UCUM summit to resolve all issues identified by the ONC Charge for Laboratory Work Tiger Team in the document Recommendation for UCUM as Standard Vocabulary for Units of Measure; Issues for Consideration by Regenstrief; these recommendations include creating a US Realm Extension. Or, another workshop similar to the recent FDA/CDC/NLM Semantic Lab Interoperability.</p> <p>ACLA believes the adoption level is overstated; while the UCUM values may coincidentally be used by labs, widespread adoption of the UCUM standard is minimal at best.</p>	Interoperability Need: Representing numerical references and values								Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	The Unified Code of Units of Measure	Final	Production	●●●○○	No	Free	N/A	Limitations, Dependencies, and Preconditions for Consideration:		Applicable Security Patterns for Consideration:						• The case sensitive version is the correct unit string to be used for interoperability purposes per HIT Standards Committee recommendations.		• Feedback requested																					
Interoperability Need: Representing numerical references and values																																																									
Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability																																																		
Standard	The Unified Code of Units of Measure	Final	Production	●●●○○	No	Free	N/A																																																		
Limitations, Dependencies, and Preconditions for Consideration:		Applicable Security Patterns for Consideration:																																																							
• The case sensitive version is the correct unit string to be used for interoperability purposes per HIT Standards Committee recommendations.		• Feedback requested																																																							
23	<p>Text:</p> <p>II-H: Laboratory: Interoperability Need: Receive electronic laboratory test results</p> <table><tr><th colspan="8">Interoperability Need: Receive electronic laboratory test results</th></tr><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>HL7 2.5.1</td><td>Final</td><td>Production</td><td>●●●●●</td><td>No</td><td>Free</td><td>No</td></tr><tr><td>Implementation Specification</td><td>HL7 Version 2.5.1 Implementation Guide: S&I Framework Lab Results Interface, Release 1—US Realm [HL7 Version 2.5.1: ORU_R01] Draft Standard for Trial Use, July 2012</td><td>Final</td><td>Production</td><td>●●●●○</td><td>Yes</td><td>Free</td><td>Yes</td></tr><tr><td>Emerging Alternative Implementation Specification</td><td>HL7 Version 2.5.1 Implementation Guide: S&I Framework Laboratory Results Interface Implementation Guide, Release 1 DSTU Release 2 - US Realm [no hyperlink available yet]</td><td>Draft</td><td>Pilot</td><td>●○○○○</td><td>No</td><td>Free</td><td>No</td></tr><tr><td colspan="2">Limitations, Dependencies, and Preconditions for Consideration:</td><td colspan="6">Applicable Security Patterns for Consideration:</td></tr><tr><td colspan="2">• HL7 Laboratory US Realm Value Set Companion Guide, Release 1, September 2015, provides cross-implementation guide value set definitions and harmonized requirements.</td><td colspan="6">• Feedback requested</td></tr></table>	Interoperability Need: Receive electronic laboratory test results								Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	HL7 2.5.1	Final	Production	●●●●●	No	Free	No	Implementation Specification	HL7 Version 2.5.1 Implementation Guide: S&I Framework Lab Results Interface, Release 1—US Realm [HL7 Version 2.5.1: ORU_R01] Draft Standard for Trial Use, July 2012	Final	Production	●●●●○	Yes	Free	Yes	Emerging Alternative Implementation Specification	HL7 Version 2.5.1 Implementation Guide: S&I Framework Laboratory Results Interface Implementation Guide, Release 1 DSTU Release 2 - US Realm [no hyperlink available yet]	Draft	Pilot	●○○○○	No	Free	No	Limitations, Dependencies, and Preconditions for Consideration:		Applicable Security Patterns for Consideration:						• HL7 Laboratory US Realm Value Set Companion Guide, Release 1, September 2015, provides cross-implementation guide value set definitions and harmonized requirements.		• Feedback requested					
Interoperability Need: Receive electronic laboratory test results																																																									
Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability																																																		
Standard	HL7 2.5.1	Final	Production	●●●●●	No	Free	No																																																		
Implementation Specification	HL7 Version 2.5.1 Implementation Guide: S&I Framework Lab Results Interface, Release 1—US Realm [HL7 Version 2.5.1: ORU_R01] Draft Standard for Trial Use, July 2012	Final	Production	●●●●○	Yes	Free	Yes																																																		
Emerging Alternative Implementation Specification	HL7 Version 2.5.1 Implementation Guide: S&I Framework Laboratory Results Interface Implementation Guide, Release 1 DSTU Release 2 - US Realm [no hyperlink available yet]	Draft	Pilot	●○○○○	No	Free	No																																																		
Limitations, Dependencies, and Preconditions for Consideration:		Applicable Security Patterns for Consideration:																																																							
• HL7 Laboratory US Realm Value Set Companion Guide, Release 1, September 2015, provides cross-implementation guide value set definitions and harmonized requirements.		• Feedback requested																																																							

ATTACHMENT: ACLA Comments on the 2016 Interoperability Standards Advisory [Draft for Comment]

Page #	Comment																																				
	<p>Comment:</p> <ul style="list-style-type: none">While HL7 2.x is widely adopted, ACLA believes the adoption level for HL7.2.5.1 is overstated.Standards in other entries are marked as Regulated; should HL7 2.5.1 be marked as regulated?ACLA believes the adoption level for the LRI IG is overstated; while EHRs certified to the LRI standard, they did not actually implement the LRI IG.The Companion Guide has been added to the HL7 Master Grid of Standards at: http://www.hl7.org/implement/standards/product_brief.cfm?product_id=413																																				
23	<p>Text: II-H: Laboratory: Interoperability Need: Ordering labs for a patient</p> <table><tr><th colspan="8">Interoperability Need: Ordering labs for a patient</th></tr><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>HL7 2.5.1</td><td>Final</td><td>Production</td><td>●●●●●</td><td>No</td><td>Free</td><td>No</td></tr><tr><td>Implementation specification</td><td>HL7 Version 2.5.1 Implementation Guide: S&I Framework Laboratory Orders from EHR, Release 1 DSTU Release 2 - US Realm <i>[no hyperlink available yet]</i></td><td>Draft</td><td>Pilot</td><td>●○○○○</td><td>No</td><td>Free</td><td>No</td></tr></table> <table><tr><th>Limitations, Dependencies, and Preconditions for Consideration:</th><th>Applicable Security Patterns for Consideration:</th></tr><tr><td><ul style="list-style-type: none">HL7 Laboratory US Realm Value Set Companion Guide, Release 1, September 2015, provides cross-implementation guide value set definitions and harmonized requirements.</td><td><ul style="list-style-type: none">Feedbackrequested</td></tr></table> <p>Comment:</p> <ul style="list-style-type: none">While HL7 2.x is widely adopted, ACLA believes the adoption level for HL7.2.5.1 is overstated.Standards in other entries are marked as Regulated; should HL7 2.5.1 be marked as regulated?The Companion Guide has been added to the HL7 Master Grid of Standards at: http://www.hl7.org/implement/standards/product_brief.cfm?product_id=413	Interoperability Need: Ordering labs for a patient								Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	HL7 2.5.1	Final	Production	●●●●●	No	Free	No	Implementation specification	HL7 Version 2.5.1 Implementation Guide: S&I Framework Laboratory Orders from EHR, Release 1 DSTU Release 2 - US Realm <i>[no hyperlink available yet]</i>	Draft	Pilot	●○○○○	No	Free	No	Limitations, Dependencies, and Preconditions for Consideration:	Applicable Security Patterns for Consideration:	<ul style="list-style-type: none">HL7 Laboratory US Realm Value Set Companion Guide, Release 1, September 2015, provides cross-implementation guide value set definitions and harmonized requirements.	<ul style="list-style-type: none">Feedbackrequested
Interoperability Need: Ordering labs for a patient																																					
Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability																														
Standard	HL7 2.5.1	Final	Production	●●●●●	No	Free	No																														
Implementation specification	HL7 Version 2.5.1 Implementation Guide: S&I Framework Laboratory Orders from EHR, Release 1 DSTU Release 2 - US Realm <i>[no hyperlink available yet]</i>	Draft	Pilot	●○○○○	No	Free	No																														
Limitations, Dependencies, and Preconditions for Consideration:	Applicable Security Patterns for Consideration:																																				
<ul style="list-style-type: none">HL7 Laboratory US Realm Value Set Companion Guide, Release 1, September 2015, provides cross-implementation guide value set definitions and harmonized requirements.	<ul style="list-style-type: none">Feedbackrequested																																				
24	<p>Text: II-H: Laboratory: Interoperability Need: Support the transmission of a laboratory’s directory of services to health IT</p>																																				

Page #	Comment																																																
	<table><tr><th colspan="8">Interoperability Need: Support the transmission of a laboratory's directory of services to health IT.</th></tr><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>HL7 2.5.1</td><td>Final</td><td>Production</td><td>●●●●●</td><td>No</td><td>Free</td><td>No</td></tr><tr><td>Standard</td><td>HL7 Version 2.5.1 Implementation Guide: S&I Framework Laboratory Test Compendium Framework, Release 2, DSTU Release 2 <i>[no hyperlink available yet]</i></td><td>Draft</td><td>Pilot</td><td>●○○○○</td><td>No</td><td>Free</td><td>No</td></tr><tr><td colspan="4">Limitations, Dependencies, and Preconditions for Consideration:</td><td colspan="4">Applicable Security Patterns for Consideration:</td></tr><tr><td colspan="4">• HL7 Laboratory US Realm Value Set Companion Guide, Release 1, September 2015, provides cross-implementation guide value set definitions and harmonized requirements.</td><td colspan="4">• Feedback requested</td></tr></table> <p>Comment:</p> <ul style="list-style-type: none">While HL7 2.x is widely adopted, ACLA believes the adoption level for HL7.2.5.1 is overstated.Standards in other entries are marked as Regulated; should HL7 2.5.1 be marked as regulated?The eDOS IG is Final and has been added to the HL7 Master Grid of Standards at: http://www.hl7.org/implement/standards/product_brief.cfm?product_id=151eDOS IG final title is: <u>HL7 Version 2.5.1 Implementation Guide: S&I Framework Laboratory Test Compendium Framework R2, DSTU Release 2 - US Realm</u>; change first Release 2 to R2 (recent update in HL7 naming conventions)The Companion Guide has been added to the HL7 Master Grid of Standards at: http://www.hl7.org/implement/standards/product_brief.cfm?product_id=413	Interoperability Need: Support the transmission of a laboratory's directory of services to health IT.								Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	HL7 2.5.1	Final	Production	●●●●●	No	Free	No	Standard	HL7 Version 2.5.1 Implementation Guide: S&I Framework Laboratory Test Compendium Framework, Release 2, DSTU Release 2 <i>[no hyperlink available yet]</i>	Draft	Pilot	●○○○○	No	Free	No	Limitations, Dependencies, and Preconditions for Consideration:				Applicable Security Patterns for Consideration:				• HL7 Laboratory US Realm Value Set Companion Guide, Release 1, September 2015, provides cross-implementation guide value set definitions and harmonized requirements.				• Feedback requested			
Interoperability Need: Support the transmission of a laboratory's directory of services to health IT.																																																	
Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability																																										
Standard	HL7 2.5.1	Final	Production	●●●●●	No	Free	No																																										
Standard	HL7 Version 2.5.1 Implementation Guide: S&I Framework Laboratory Test Compendium Framework, Release 2, DSTU Release 2 <i>[no hyperlink available yet]</i>	Draft	Pilot	●○○○○	No	Free	No																																										
Limitations, Dependencies, and Preconditions for Consideration:				Applicable Security Patterns for Consideration:																																													
• HL7 Laboratory US Realm Value Set Companion Guide, Release 1, September 2015, provides cross-implementation guide value set definitions and harmonized requirements.				• Feedback requested																																													
25	<p>Text:</p> <p>II-K: Public Health Reporting: Interoperability Need: reporting antimicrobial use and resistance information to public health agencies</p> <table><tr><th colspan="8">Interoperability Need: Reporting antimicrobial use and resistance information to public health agencies</th></tr><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>HL7 Clinical Document Architecture (CDA®), Release 2.0, Final Edition</td><td>Final</td><td>Production</td><td>●●●●●</td><td>No</td><td>Free</td><td>No</td></tr><tr><td>Implementation Specification</td><td>HL7 Implementation Guide for CDA® Release 2 – Level 3: Healthcare Associated Infection Reports, Release 1, U.S. Realm</td><td>Final</td><td>Production</td><td>●●○○○</td><td>No</td><td>Free</td><td>No</td></tr><tr><td colspan="4">Limitations, Dependencies, and Preconditions for Consideration:</td><td colspan="4">Applicable Security Patterns for Consideration:</td></tr><tr><td colspan="4">• This is a national reporting system to CDC. Stakeholders should refer to implementation guide for additional details and contract information for enrolling in the program.</td><td colspan="4">• Feedback requested</td></tr></table>	Interoperability Need: Reporting antimicrobial use and resistance information to public health agencies								Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	HL7 Clinical Document Architecture (CDA®), Release 2.0, Final Edition	Final	Production	●●●●●	No	Free	No	Implementation Specification	HL7 Implementation Guide for CDA® Release 2 – Level 3: Healthcare Associated Infection Reports, Release 1, U.S. Realm	Final	Production	●●○○○	No	Free	No	Limitations, Dependencies, and Preconditions for Consideration:				Applicable Security Patterns for Consideration:				• This is a national reporting system to CDC. Stakeholders should refer to implementation guide for additional details and contract information for enrolling in the program.				• Feedback requested			
Interoperability Need: Reporting antimicrobial use and resistance information to public health agencies																																																	
Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability																																										
Standard	HL7 Clinical Document Architecture (CDA®), Release 2.0, Final Edition	Final	Production	●●●●●	No	Free	No																																										
Implementation Specification	HL7 Implementation Guide for CDA® Release 2 – Level 3: Healthcare Associated Infection Reports, Release 1, U.S. Realm	Final	Production	●●○○○	No	Free	No																																										
Limitations, Dependencies, and Preconditions for Consideration:				Applicable Security Patterns for Consideration:																																													
• This is a national reporting system to CDC. Stakeholders should refer to implementation guide for additional details and contract information for enrolling in the program.				• Feedback requested																																													

Page #	Comment																																		
	<p>Comment:</p> <p>ACLA recommends continued coordination between standards bodies and implementation guides so there are not downstream requirements (i.e. public health) that are not supported by the upstream feeder system (such as the lab reporting to EHR system).</p>																																		
26	<p>Text:</p> <p>II-K: Public Health Reporting: Interoperability Need: Reporting cancer cases to public health agencies</p> <p>Interoperability Need: Reporting cancer cases to public health agencies</p> <table><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>HL7 Clinical Document Architecture (CDA®), Release 2.0, Final Edition</td><td>Final</td><td>Production</td><td>●●●●●</td><td>No</td><td>Free</td><td>No</td></tr><tr><td>Implementation Specification</td><td>HL7 Implementation Guide for CDA® Release 2: Reporting to Public Health Cancer Registries from Ambulatory Healthcare Providers, Release 1 - US Realm</td><td>Draft</td><td>Production</td><td>●●●○○</td><td>Yes</td><td>Free</td><td>Yes</td></tr><tr><td>Emerging Alternative Implementation Specification</td><td>HL7 CDA® Release 2 Implementation Guide: Reporting to Public Health Cancer Registries from Ambulatory Healthcare Providers, Release 1, DSTU Release 1.1 – US Realm</td><td>Draft</td><td>Pilot</td><td>●○○○○</td><td>No</td><td>Free</td><td>No</td></tr></table> <table><tr><td>Limitations, Dependencies, and Preconditions for Consideration:<ul style="list-style-type: none">Stakeholders should refer to the health department in their state or local jurisdiction to determine onboarding procedures, obtain a jurisdictional implementation guide if applicable, and determine which transport methods are acceptable for submitting cancer reporting data as there may be jurisdictional variation or requirements.</td><td>Applicable Security Patterns for Consideration:<ul style="list-style-type: none">Feedback requested</td></tr></table> <p>Comment:</p> <p>ACLA recommends continued coordination between standards bodies and implementation guides so there are not downstream requirements (i.e. public health) that are not supported by the upstream feeder system (such as the lab reporting to EHR system).</p>	Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	HL7 Clinical Document Architecture (CDA®), Release 2.0, Final Edition	Final	Production	●●●●●	No	Free	No	Implementation Specification	HL7 Implementation Guide for CDA® Release 2: Reporting to Public Health Cancer Registries from Ambulatory Healthcare Providers, Release 1 - US Realm	Draft	Production	●●●○○	Yes	Free	Yes	Emerging Alternative Implementation Specification	HL7 CDA® Release 2 Implementation Guide: Reporting to Public Health Cancer Registries from Ambulatory Healthcare Providers, Release 1, DSTU Release 1.1 – US Realm	Draft	Pilot	●○○○○	No	Free	No	Limitations, Dependencies, and Preconditions for Consideration: <ul style="list-style-type: none">Stakeholders should refer to the health department in their state or local jurisdiction to determine onboarding procedures, obtain a jurisdictional implementation guide if applicable, and determine which transport methods are acceptable for submitting cancer reporting data as there may be jurisdictional variation or requirements.	Applicable Security Patterns for Consideration: <ul style="list-style-type: none">Feedback requested
Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability																												
Standard	HL7 Clinical Document Architecture (CDA®), Release 2.0, Final Edition	Final	Production	●●●●●	No	Free	No																												
Implementation Specification	HL7 Implementation Guide for CDA® Release 2: Reporting to Public Health Cancer Registries from Ambulatory Healthcare Providers, Release 1 - US Realm	Draft	Production	●●●○○	Yes	Free	Yes																												
Emerging Alternative Implementation Specification	HL7 CDA® Release 2 Implementation Guide: Reporting to Public Health Cancer Registries from Ambulatory Healthcare Providers, Release 1, DSTU Release 1.1 – US Realm	Draft	Pilot	●○○○○	No	Free	No																												
Limitations, Dependencies, and Preconditions for Consideration: <ul style="list-style-type: none">Stakeholders should refer to the health department in their state or local jurisdiction to determine onboarding procedures, obtain a jurisdictional implementation guide if applicable, and determine which transport methods are acceptable for submitting cancer reporting data as there may be jurisdictional variation or requirements.	Applicable Security Patterns for Consideration: <ul style="list-style-type: none">Feedback requested																																		
27	<p>Text:</p> <p>II-K: Public Health Reporting: Interoperability Need: Electronic transmission of reportable lab results to public health agencies</p>																																		

ATTACHMENT: ACLA Comments on the 2016 Interoperability Standards Advisory [Draft for Comment]

Page #	Comment																																								
	<table><tr><th colspan="8">Interoperability Need: Electronic transmission of reportable lab results to public health agencies</th></tr><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>HL7 2.5.1</td><td>Final</td><td>Production</td><td>● ● ● ● ●</td><td>Yes</td><td>Free</td><td>No</td></tr><tr><td>Implementation specification</td><td>HL7 Version 2.5.1: Implementation Guide: Electronic Laboratory Reporting to Public Health (US Realm), Release 1 with Errata and Clarifications and ELR 2.5.1 Clarification Document for EHR Technology Certification</td><td>Final</td><td>Production</td><td>● ● ● ● ●</td><td>Yes</td><td>Free</td><td>Yes</td></tr><tr><td>Emerging Alternative Implementation Specification</td><td>HL7 Version 2.5.1 Implementation Guide: Electronic Laboratory Reporting to Public Health, Release 2 (US Realm), Draft Standard for Trial Use, Release 1.1</td><td>Draft</td><td>Pilot</td><td>Unknown</td><td>No</td><td>Free</td><td>No</td></tr></table>	Interoperability Need: Electronic transmission of reportable lab results to public health agencies								Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	HL7 2.5.1	Final	Production	● ● ● ● ●	Yes	Free	No	Implementation specification	HL7 Version 2.5.1: Implementation Guide: Electronic Laboratory Reporting to Public Health (US Realm), Release 1 with Errata and Clarifications and ELR 2.5.1 Clarification Document for EHR Technology Certification	Final	Production	● ● ● ● ●	Yes	Free	Yes	Emerging Alternative Implementation Specification	HL7 Version 2.5.1 Implementation Guide: Electronic Laboratory Reporting to Public Health, Release 2 (US Realm), Draft Standard for Trial Use, Release 1.1	Draft	Pilot	Unknown	No	Free	No
	Interoperability Need: Electronic transmission of reportable lab results to public health agencies																																								
	Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability																																	
	Standard	HL7 2.5.1	Final	Production	● ● ● ● ●	Yes	Free	No																																	
	Implementation specification	HL7 Version 2.5.1: Implementation Guide: Electronic Laboratory Reporting to Public Health (US Realm), Release 1 with Errata and Clarifications and ELR 2.5.1 Clarification Document for EHR Technology Certification	Final	Production	● ● ● ● ●	Yes	Free	Yes																																	
Emerging Alternative Implementation Specification	HL7 Version 2.5.1 Implementation Guide: Electronic Laboratory Reporting to Public Health, Release 2 (US Realm), Draft Standard for Trial Use, Release 1.1	Draft	Pilot	Unknown	No	Free	No																																		
	<table><tr><th>Limitations, Dependencies, and Preconditions for Consideration:</th><th>Applicable Security Patterns for Consideration:</th></tr><tr><td><ul style="list-style-type: none">Stakeholders should refer to the health department in their state or local jurisdiction to determine onboarding procedures, obtain a jurisdictional implementation guide if applicable, and determine which transport methods are acceptable for submitting ELR as there may be jurisdictional variation or requirements.</td><td><ul style="list-style-type: none">Feedback requested</td></tr></table>	Limitations, Dependencies, and Preconditions for Consideration:	Applicable Security Patterns for Consideration:	<ul style="list-style-type: none">Stakeholders should refer to the health department in their state or local jurisdiction to determine onboarding procedures, obtain a jurisdictional implementation guide if applicable, and determine which transport methods are acceptable for submitting ELR as there may be jurisdictional variation or requirements.	<ul style="list-style-type: none">Feedback requested																																				
Limitations, Dependencies, and Preconditions for Consideration:	Applicable Security Patterns for Consideration:																																								
<ul style="list-style-type: none">Stakeholders should refer to the health department in their state or local jurisdiction to determine onboarding procedures, obtain a jurisdictional implementation guide if applicable, and determine which transport methods are acceptable for submitting ELR as there may be jurisdictional variation or requirements.	<ul style="list-style-type: none">Feedback requested																																								
	<p>Comment:</p> <ul style="list-style-type: none">While HL7 2.x is widely adopted, ACLA believes the adoption level for HL7.2.5.1 is overstated.ACLA recommends continued coordination between standards bodies and implementation guides so there are not downstream requirements (i.e. public health) that are not supported by the upstream feeder system (such as the lab reporting to EHR system).ACLA does not believe that the adoption level of the named Implementation Specification is as widespread as indicated. It is marked 'Final' but is not a normative document.ACLA suggests citing the later version of the electronic lab reporting implementation guide: HL7 Version 2.5.1 Implementation Guide: Electronic Laboratory Reporting to Public Health, Release 2 (US Realm) Draft Standard for Trial Use, Release 1.1, published May 2014, in lieu of the older Informative implementation guide which does not address gaps resolved by the May 2014 Implementation Guide.																																								
28	<p>Text:</p> <p>II-K: Public Health Reporting: Interoperability Need: Reporting administered immunizations to immunization registry</p>																																								

ATTACHMENT: ACLA Comments on the 2016 Interoperability Standards Advisory [Draft for Comment]

Page #	Comment																																																								
	<table><tr><th colspan="8">Interoperability Need: Reporting administered immunizations to immunization registry</th></tr><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>HL7 2.5.1</td><td>Final</td><td>Production</td><td>● ● ● ● ●</td><td>Yes</td><td>Free</td><td>No</td></tr><tr><td>Implementation Specification</td><td>HL7 2.5.1 Implementation Guide for Immunization Messaging, Release 1.4</td><td>Final</td><td>Production</td><td>● ● ● ● ●</td><td>Yes</td><td>Free</td><td>Yes</td></tr><tr><td>Emerging Alternative Implementation Specification</td><td>HL7 2.5.1 Implementation Guide for Immunization Messaging, Release 1.5</td><td>Final</td><td>Pilot</td><td>● ○ ○ ○ ○</td><td>No</td><td>Free</td><td>No</td></tr><tr><td colspan="3">Limitations, Dependencies, and Preconditions for Consideration:</td><td colspan="5">Applicable Security Patterns for Consideration:</td></tr><tr><td colspan="3"><ul style="list-style-type: none">Stakeholders should refer to the health department in their state or local jurisdiction to determine onboarding procedures, obtain a jurisdictional implementation guide if applicable, and determine which transport methods are acceptable for submitting immunization registry data as there may be jurisdictional variation or requirements.</td><td colspan="5"><ul style="list-style-type: none">Feedback requested</td></tr></table>	Interoperability Need: Reporting administered immunizations to immunization registry								Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	HL7 2.5.1	Final	Production	● ● ● ● ●	Yes	Free	No	Implementation Specification	HL7 2.5.1 Implementation Guide for Immunization Messaging, Release 1.4	Final	Production	● ● ● ● ●	Yes	Free	Yes	Emerging Alternative Implementation Specification	HL7 2.5.1 Implementation Guide for Immunization Messaging, Release 1.5	Final	Pilot	● ○ ○ ○ ○	No	Free	No	Limitations, Dependencies, and Preconditions for Consideration:			Applicable Security Patterns for Consideration:					<ul style="list-style-type: none">Stakeholders should refer to the health department in their state or local jurisdiction to determine onboarding procedures, obtain a jurisdictional implementation guide if applicable, and determine which transport methods are acceptable for submitting immunization registry data as there may be jurisdictional variation or requirements.			<ul style="list-style-type: none">Feedback requested				
	Interoperability Need: Reporting administered immunizations to immunization registry																																																								
	Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability																																																	
	Standard	HL7 2.5.1	Final	Production	● ● ● ● ●	Yes	Free	No																																																	
	Implementation Specification	HL7 2.5.1 Implementation Guide for Immunization Messaging, Release 1.4	Final	Production	● ● ● ● ●	Yes	Free	Yes																																																	
	Emerging Alternative Implementation Specification	HL7 2.5.1 Implementation Guide for Immunization Messaging, Release 1.5	Final	Pilot	● ○ ○ ○ ○	No	Free	No																																																	
Limitations, Dependencies, and Preconditions for Consideration:			Applicable Security Patterns for Consideration:																																																						
<ul style="list-style-type: none">Stakeholders should refer to the health department in their state or local jurisdiction to determine onboarding procedures, obtain a jurisdictional implementation guide if applicable, and determine which transport methods are acceptable for submitting immunization registry data as there may be jurisdictional variation or requirements.			<ul style="list-style-type: none">Feedback requested																																																						
	<p>Comment:</p> <p>ACLA recommends continued coordination between standards bodies and implementation guides so there are not downstream requirements (i.e. public health) that are not supported by the upstream feeder system (such as the lab reporting to EHR system).</p>																																																								
	<p>Text:</p> <p>III-A: An unsolicited “push” of clinical health information to a known destination</p>																																																								

ATTACHMENT: ACLA Comments on the 2016 Interoperability Standards Advisory [Draft for Comment]

Page #	Comment																																																																																
	<table><tr><th colspan="8">Interoperability Need: An unsolicited “push” of clinical health information to a known destination between individuals</th></tr><tr><th>Type</th><th>Standard/Implementation Specification</th><th>Standards Process Maturity</th><th>Implementation Maturity</th><th>Adoption Level</th><th>Regulated</th><th>Cost</th><th>Test Tool Availability</th></tr><tr><td>Standard</td><td>Applicability Statement for Secure Health Transport v1.1 (“Direct”)</td><td>Final</td><td>Production</td><td>●●●●●</td><td>Yes</td><td>Free</td><td>Yes</td></tr><tr><td>Emerging Alternative Standard</td><td>Applicability Statement for Secure Health Transport v1.2</td><td>Final</td><td>Pilot</td><td>●○○○○</td><td>No</td><td>Free</td><td>No</td></tr><tr><td>Implementation Specification</td><td>XDR and XDM for Direct Messaging Specification</td><td>Final</td><td>Production</td><td>●●●●○</td><td>Yes</td><td>Free</td><td>Yes</td></tr><tr><td>Implementation Specification</td><td>IG for Direct Edge Protocols</td><td>Final</td><td>Production</td><td>●●○○○</td><td>Yes</td><td>Free</td><td>Yes</td></tr><tr><td>Implementation Specification</td><td>IG for Delivery Notification in Direct</td><td>Final</td><td>Production</td><td>●●●○○</td><td>No</td><td>Free</td><td>No</td></tr><tr><td>Emerging Alternative Standard</td><td>Fast Healthcare Interoperability Resources (FHIR)</td><td>Draft</td><td>Pilot</td><td>●○○○○</td><td>No</td><td>Free</td><td>No</td></tr><tr><td colspan="3">Limitations, Dependencies, and Preconditions for Consideration:</td><td colspan="5">Applicable Security Patterns for Consideration:</td></tr><tr><td colspan="3"><ul style="list-style-type: none">“Direct” standard is based upon the underlying standard: Simple Mail Transfer Protocol (SMTP) RFC 5321 and for security uses Secure/Multipurpose Internet Mail Extensions (S/MIME) Version 3.2 Message Specification, RFC 5751.For Direct, interoperability may be dependent on the establishment of “trust” between two parties and may vary based on the trust community(ies) to which parties belong.</td><td colspan="5"><ul style="list-style-type: none">System Authentication - The information and process necessary to authenticate the systems involvedRecipient Encryption - the message and health information are encrypted for the intended userSender Signature – details that are necessary to identity of the individual sending the message</td></tr></table>	Interoperability Need: An unsolicited “push” of clinical health information to a known destination between individuals								Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability	Standard	Applicability Statement for Secure Health Transport v1.1 (“Direct”)	Final	Production	●●●●●	Yes	Free	Yes	Emerging Alternative Standard	Applicability Statement for Secure Health Transport v1.2	Final	Pilot	●○○○○	No	Free	No	Implementation Specification	XDR and XDM for Direct Messaging Specification	Final	Production	●●●●○	Yes	Free	Yes	Implementation Specification	IG for Direct Edge Protocols	Final	Production	●●○○○	Yes	Free	Yes	Implementation Specification	IG for Delivery Notification in Direct	Final	Production	●●●○○	No	Free	No	Emerging Alternative Standard	Fast Healthcare Interoperability Resources (FHIR)	Draft	Pilot	●○○○○	No	Free	No	Limitations, Dependencies, and Preconditions for Consideration:			Applicable Security Patterns for Consideration:					<ul style="list-style-type: none">“Direct” standard is based upon the underlying standard: Simple Mail Transfer Protocol (SMTP) RFC 5321 and for security uses Secure/Multipurpose Internet Mail Extensions (S/MIME) Version 3.2 Message Specification, RFC 5751.For Direct, interoperability may be dependent on the establishment of “trust” between two parties and may vary based on the trust community(ies) to which parties belong.			<ul style="list-style-type: none">System Authentication - The information and process necessary to authenticate the systems involvedRecipient Encryption - the message and health information are encrypted for the intended userSender Signature – details that are necessary to identity of the individual sending the message				
Interoperability Need: An unsolicited “push” of clinical health information to a known destination between individuals																																																																																	
Type	Standard/Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Regulated	Cost	Test Tool Availability																																																																										
Standard	Applicability Statement for Secure Health Transport v1.1 (“Direct”)	Final	Production	●●●●●	Yes	Free	Yes																																																																										
Emerging Alternative Standard	Applicability Statement for Secure Health Transport v1.2	Final	Pilot	●○○○○	No	Free	No																																																																										
Implementation Specification	XDR and XDM for Direct Messaging Specification	Final	Production	●●●●○	Yes	Free	Yes																																																																										
Implementation Specification	IG for Direct Edge Protocols	Final	Production	●●○○○	Yes	Free	Yes																																																																										
Implementation Specification	IG for Delivery Notification in Direct	Final	Production	●●●○○	No	Free	No																																																																										
Emerging Alternative Standard	Fast Healthcare Interoperability Resources (FHIR)	Draft	Pilot	●○○○○	No	Free	No																																																																										
Limitations, Dependencies, and Preconditions for Consideration:			Applicable Security Patterns for Consideration:																																																																														
<ul style="list-style-type: none">“Direct” standard is based upon the underlying standard: Simple Mail Transfer Protocol (SMTP) RFC 5321 and for security uses Secure/Multipurpose Internet Mail Extensions (S/MIME) Version 3.2 Message Specification, RFC 5751.For Direct, interoperability may be dependent on the establishment of “trust” between two parties and may vary based on the trust community(ies) to which parties belong.			<ul style="list-style-type: none">System Authentication - The information and process necessary to authenticate the systems involvedRecipient Encryption - the message and health information are encrypted for the intended userSender Signature – details that are necessary to identity of the individual sending the message																																																																														
	<p>Comment:</p> <p>ACLA believes that the adoption level of the “Direct” standard is overstated and not as widespread as indicated.</p>																																																																																