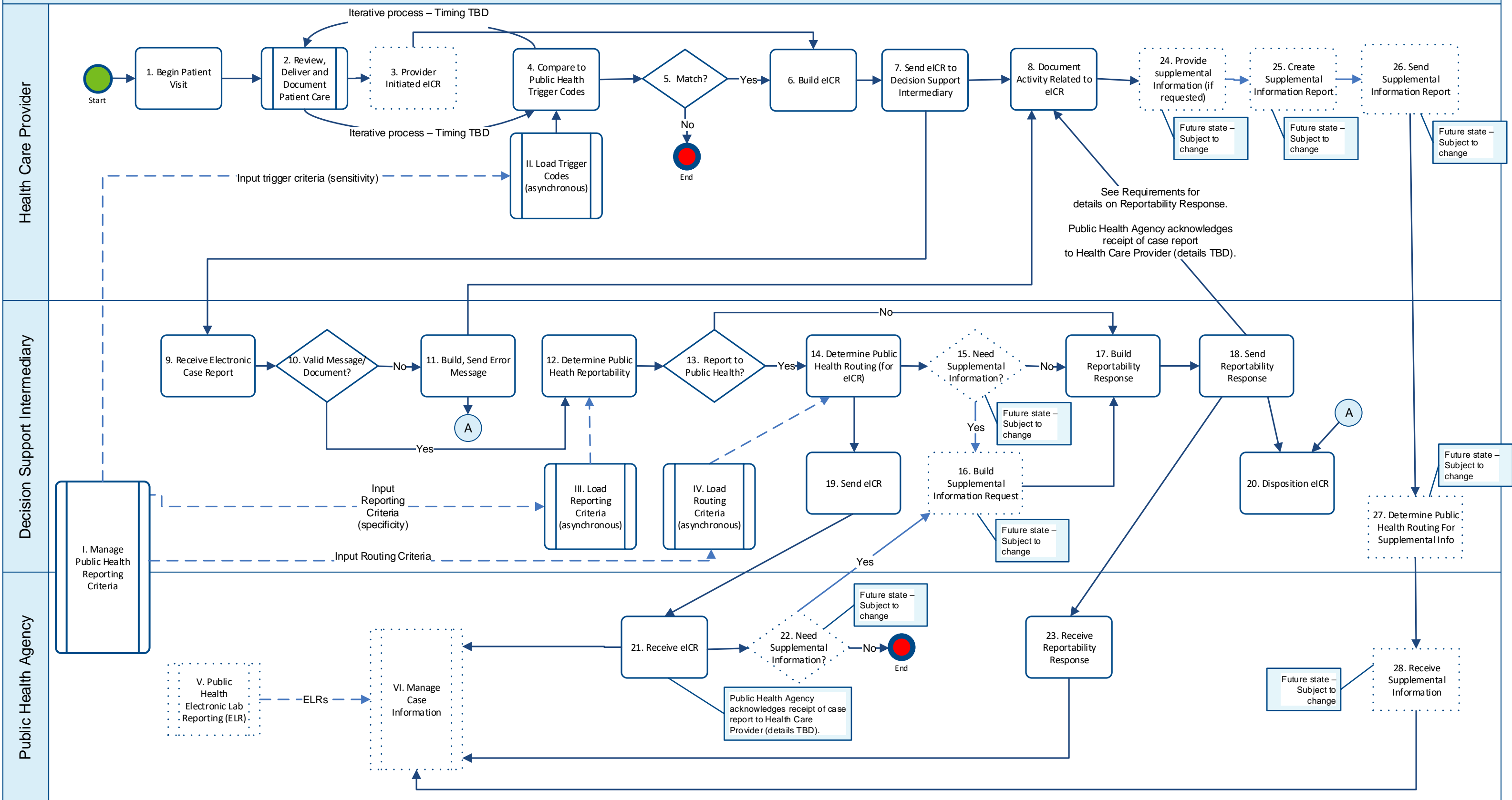
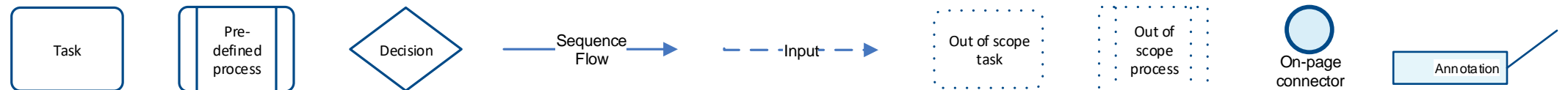


Electronic Case Reporting Task Flow Diagram (see related Process Notes and Functional Requirements Statements for details); Approved Jan. 2017 by Digital Bridge Governance Body



Legend:



eCR Process Task Notes

January 19, 2017

Task ID	Task	Description	Notes
1	Begin Patient Visit	Patient visits health care provider	
2	Review, Deliver and Document Patient Care	The Health Care Provider sees patient and delivers care, documents care in the patient's record in EHR. This pre-defined process is unique to each patient and provider encounter but could include documenting symptoms, history, diagnoses, ordering labs, performing procedures, prescribing medications, etc.	
3	Provider Initiated Electronic Case Report	The provider may manually invoke the creation of an electronic case report for patients they believe may have a reportable condition.	Target specification for electronic public health case report: HL7 CDA R2 Implementation Guide: Public Health Case Report, Release 2 - US Realm - the Electronic Initial Case Report (eICR)
4	Compare to Public Health Trigger Codes	The EHR executes a process to check for reportable condition trigger code matches in a patient encounter. Multiple places in the EHR would be examined for a match. There is a recursive relationship between charting and comparison (tasks 2 and 4). This would enable (but not require) EHR to "trigger" at each match or aggregate all matches to be sent at a single time. There will be continual input into step 2.	CSTE/CDC have developed the Reportable Conditions Trigger Code (RCTC) product for this task. It contains coded terms for lab orders, lab results, and diagnoses. Case reports triggered by the RCTC may or may not meet jurisdictional reporting criteria. The Decision Support intermediary is designed to filter out non-cases (i.e., false positives). RCTC is available from the Public Health Information Network Vocabulary Access and Distribution System (PHIN VADS; https://phinvads.cdc.gov/vads/SearchHome.action).
5	Match?	A check is done against the public health trigger codes. If no a match is found the process ends. If a match is made to a public health trigger code an electronic case report will	

Task ID	Task	Description	Notes
		be created.	
6	Build Electronic Initial Case Report	An electronic case report is created according to the HL7 eICR Implementation Guide.	<p>Electronic case report contains Protected Health Information (PHI) and should only reflect current (i.e., not historical) conditions that are reportable to public health.</p> <p>Target specification for electronic public health case report: HL7 CDA R2 Implementation Guide: Public Health Case Report, Release 2 - US Realm - the Electronic Initial Case Report (eICR)</p>
7	Send Electronic Initial Case Report to Decision Support Intermediary	The electronic case report is sent to the decision support intermediary to determine if the case will be forwarded to one or more Public Health Agencies based on criteria established by Public Health Agencies.	<p>For eCR implementations partnered with Digital Bridge, the Decision Support Intermediary will be a distinct legal entity separate from the Health Care Provider and Public Health Agency.</p> <p>For every message sent between two entities, the sending entity will expect an acknowledgement message from the receiver.</p>
8	Document Activity Related to Case Report	The patient record is updated with information related to its status as a public health case, any transaction acknowledgment and error messages sent by the Decision Support Intermediary, and requests for information from Public Health Agencies. A copy of the electronic public health case report (or the information required to recreate it) and related transactions are stored for future reference or audit.	
9	Receive Electronic Case Report	The decision support intermediary receives the electronic public health case report.	<p>For eCR implementations partnered with Digital Bridge, the Decision Support Intermediary will be the APHL Informatics Messaging Services (AIMS; https://www.aphl.org/programs/informatics/Pages/aims_platform.aspx) platform which hosts the CSTE Reportable Conditions Knowledge Management System (RCKMS; http://www.cste.org/group/RCKMS).</p>

Task ID	Task	Description	Notes
			For every message sent between two entities, the sending entity will expect a system acknowledgement message from the receiver.
10	Valid Message/Document?	The decision support intermediary checks each incoming public health case report for valid structure and content.	Target specification for electronic public health case report: HL7 CDA R2 Implementation Guide: Public Health Case Report, Release 2 - US Realm - the Electronic Initial Case Report (eICR)
11	Build, Send Error Message	If the incoming public health case report has invalid structure or content, an error message is returned to the Health Care Provider for auditing and to allow for correction and resending.	Invalid eICRs that can still be discerned as attempts at an eICR are dispositioned (task 20) for potential storage per public health jurisdiction retention rules. Invalid eICRs that cannot be recognized as attempts at an eICR will not be dispositioned.
12	Determine Public Health Reportability	A valid electronic case report is compared to decision rules describing reporting specifications defined by Public Health Agencies. To determine public health reportability, case information will be compared to jurisdictional reporting criteria for the patient's residence, the provider's location, and the laboratory's location (if lab tests were run). A decision will be made to either 1) forward the case report to 1 or more Public Health Agencies, or 2) not forward the case report. A decision to forward the case report to 1 or more Public Health Agencies could reflect the case report meeting case definition criteria OR it could reflect a Public Health Agency's decision rule to receive a case report regardless of it meeting case definition criteria.	<p>This decision logic is provided by the CSTE Reportable Conditions Knowledge Management System (RCKMS); http://www.cste.org/group/RCKMS).</p> <p>Some Public Health Agencies may establish their reporting criteria so that they receive case reports that meet case definition criteria AND case reports that do not meet case definition criteria (i.e., potential cases or non-cases).</p> <p>Public Health Agencies will be able to specify their reporting criteria used by the Decision Support Intermediary. That criteria could result in:</p> <ol style="list-style-type: none"> 1) Public Health Agencies receiving electronic case reports meeting case definitions established by CDC/CSTE/State Public Health; 2) Public Health Agencies receiving electronic case reports that do not meet case definitions established by CDC/CSTE/State Public Health but do meet a Public Health Agency's criteria for receiving a report (e.g., at least one state legally receives case reports even if lab results were negative, other states may want the decision support intermediary to forward reports even if its reportability status could not be determined); 3) Public Health Agencies receiving electronic case reports where

Task ID	Task	Description	Notes
			it is unclear if any case definition is met (e.g., a Public Health Agency could configure decision rules for its jurisdiction so as to receive cases the Decision Support Intermediary could not clearly adjudicate due to missing information or other factors).
13	Report to Public Health?	<p>Case report will be sent to Public Health or not per reporting criteria established in "I. Manage Public Health Reporting Criteria" process.</p> <p>Criteria for sending report to Public Health may or may not equate to public health reporting criteria (i.e. some Public Health Agencies may set their criteria to receive all case reports for their jurisdiction).</p> <p>If no, the Reportability Response will indicate the case was not reported to public health.</p> <p>If yes, determine public health routing.</p>	
14	Determine Public Health Routing (for eCR)	<p>Route to receiving Public Health Agency is determined.</p> <p>Electronic case report may be routed to more than one Public Health Agency.</p>	
15	Need Supplemental Information?	<p>Future implementations of electronic case reporting will provide for the ability to request supplemental information from the health care provider that sent a case report. That supplemental information may be condition-specific, incident-specific, or public health jurisdiction specific.</p>	<p>Technologies that may be used to request supplemental information include Structured Data Capture (http://www.hl7.org/fhir/sdc/sdc.html) and IHE Retrieve Form for Data Capture (http://wiki.ihe.net/index.php/Retrieve_Form_for_Data_Capture) .</p>
16	Build Supplemental Information Request	<p>If supplemental information is desired, an electronic information request is built and included in the Reportability Response.</p>	<p>Technologies that may be used to request supplemental information include Structured Data Capture (http://www.hl7.org/fhir/sdc/sdc.html) and IHE Retrieve Form for Data Capture</p>

Task ID	Task	Description	Notes
			<p>(http://wiki.ihe.net/index.php/Retrieve_Form_for_Data_Capture)</p>
17	Build Reportability Response	<p>The Reportability Response is used to communicate information about the case report to the Health Care Provider and Public Health Agency. This allows the conveyance of information related to the case report without altering the case report itself. A Reportability Response will be generated and returned to the Health Care Provider for every valid eICR received. Depending on configurable public health jurisdictional rules, the Public Health Agency will also receive Reportability Responses associated with eICRs.</p> <p>The Reportability Response itself will not contain personally identifiable information (PII), however it can be linked to its accompanying eICR which does contain PII.</p> <p>The Reportability Response can include:</p> <ul style="list-style-type: none"> *Reportability Determination (reportable, not reportable, indeterminate due to missing information or other factors) *Request for missing information (data that was expected in electronic case report but not provided) *Routing Determination (sent to Public Health Agency(ies), not sent to a Public Health Agency) *Links to external resources (e.g., 	<p>HL7 is currently developing specifications for a Reportability Response for balloting in May 2017. In the meantime, a non-standard C-CDA Reportability Response should soon be available for demonstration purposes.</p>

Task ID	Task	Description	Notes
		<p>treatment guidelines, intervention protocols).</p> <p>*Request for supplemental information (data not expected in the electronic case report but desired by public health; planned for future implementations)</p>	
18	Send Reportability Response	<p>The Reportability Response is sent back to the Health Care Provider. The Reportability Response may also be sent to one or more Public Health Agencies as indicated by the reportability and routing determinations.</p> <p>To support a requirement that the Public Health Agency send an acknowledgement of receipt of a case report to the originating Health Care Provider, the Reportability Response may include that information. Detailed guidance will be provided to implementers partnered with the Digital Bridge collaborative.</p>	<p>A Reportability Response sent to a Public Health Agency should be delivered at the same time as its accompanying electronic initial case report.</p> <p>It is possible that a Reportability Response received by a Public Health Agency will not have an accompanying electronic case report (e.g., case report was determined to be not reportable, Reportability Response communicating this determination was sent to Public Health Agency).</p> <p>For every message sent between two entities, the sending entity will expect an acknowledgement message from the receiver.</p>
19	Send Electronic Initial Case Report	<p>The electronic initial case report is sent to one or more Public Health Agencies as indicated by the reportability and routing determinations above.</p>	<p>An electronic initial case report sent to a Public Health Agency should be delivered at the same time as its accompanying Reportability Response.</p> <p>For every message sent between two entities, the sending entity will expect an acknowledgement message from the receiver.</p>
20	Disposition Initial Electronic Case Report	<p>Electronic case reports are dispositioned according to rules established for their retention. Retention rules will be specific to Public Health Agency jurisdictions and will specify when an electronic case report will be deleted from the Decision Support Intermediary.</p>	<p>It will likely be necessary for the Decision Support Intermediary to retain electronic case reports for a specified time period to allow for functions such as error handling or requesting missing or supplemental information from Health Care Providers.</p>

Task ID	Task	Description	Notes
21	Receive Electronic Initial Case Report	The Public Health Agency receives the electronic initial case report. The case report is an input into the "Manage Case Information" process (which includes a broad range of activities including: classifying case reports, correlating case reports with ELRs, de-duplicating case reports, deleting erroneous case reports, append additional or supplemental information, etc.).	For every message sent between two entities, the sending entity will expect an acknowledgement message from the receiver.
22	Need Supplemental Information?	Future implementations of electronic case reporting will provide for the ability to request supplemental information from the health care provider that sent a case report. That supplemental information may be condition-specific, incident-specific, or public health jurisdiction specific. These requests could be facilitated by technology hosted on the decision support intermediary.	Technologies that may be used to request supplemental information include Structured Data Capture (http://www.hl7.org/fhir/sdc/sdc.html) and IHE Retrieve Form for Data Capture (http://wiki.ihe.net/index.php/Retrieve_Form_for_Data_Capture) .
23	Receive Reportability Response	Public Health Agency receives same Reportability Response sent to Health Care Provider. Reportability Response may indicate a need for information from Health Care Provider. Reportability Response is an input into the "Manage Case Information" process.	For every message sent between two entities, the sending entity will expect an acknowledgement message from the receiver.
24	Provide Supplemental Information (if requested)	Future implementations of electronic case reporting will provide for the ability to request supplemental information from the health care provider that sent a case report.	Technologies that may be used to request supplemental information include Structured Data Capture (http://www.hl7.org/fhir/sdc/sdc.html) and IHE Retrieve Form for Data Capture (http://wiki.ihe.net/index.php/Retrieve_Form_for_Data_Capture) .

Task ID	Task	Description	Notes
		Health Care Provider gathers information requested.	
25	Create Supplemental Information Report	<p>Future implementations of electronic case reporting will provide for the ability to request supplemental information from the health care provider that sent a case report.</p> <p>Health Care Provider prepares information for electronic submission.</p>	<p>Technologies that may be used to request supplemental information include Structured Data Capture (http://www.hl7.org/fhir/sdc/sdc.html) and IHE Retrieve Form for Data Capture (http://wiki.ihe.net/index.php/Retrieve_Form_for_Data_Capture)</p> <p>.</p>
26	Send Supplemental Information Report	<p>Future implementations of electronic case reporting will provide for the ability to request supplemental information from the health care provider that sent a case report.</p> <p>Health Care Provider sends information via electronic submission.</p>	<p>Technologies that may be used to request supplemental information include Structured Data Capture (http://www.hl7.org/fhir/sdc/sdc.html) and IHE Retrieve Form for Data Capture (http://wiki.ihe.net/index.php/Retrieve_Form_for_Data_Capture)</p> <p>.</p>
27	Determine Public Health Routing for Supplemental Information	<p>Future implementations of electronic case reporting will provide for the ability to request supplemental information from the health care provider that sent a case report.</p> <p>Route to receiving Public Health Agency is determined.</p> <p>Information may be routed to more than one Public Health Agency.</p>	<p>Technologies that may be used to request supplemental information include Structured Data Capture (http://www.hl7.org/fhir/sdc/sdc.html) and IHE Retrieve Form for Data Capture (http://wiki.ihe.net/index.php/Retrieve_Form_for_Data_Capture)</p> <p>.</p>
28	Receive Supplemental Information	Future implementations of electronic case reporting will provide for the ability to request supplemental information from the health care provider that sent a case report.	<p>Technologies that may be used to request supplemental information include Structured Data Capture (http://www.hl7.org/fhir/sdc/sdc.html) and IHE Retrieve Form for Data Capture (http://wiki.ihe.net/index.php/Retrieve_Form_for_Data_Capture)</p> <p>.</p>

Task ID	Task	Description	Notes
		Public Health Agency receives information. Information is an input into the "Manage Case Information" process (includes a broad range of activities including: correlating eICRs with ELRs, de-duplicating eICRs, deleting erroneous eICRs, append additional or supplemental information, etc.).	

eCR External Process Notes

January 19, 2017

Process ID	Roman ID	Name	Description	Notes
1	I	Manage Public Health Reporting Criteria	Public Health Agency users log in and define reporting criteria; Export reporting criteria for use by external systems (e.g. EHRs); Enable receipt of query to receive updated version of reporting criteria by an EHR; Update could be 1) complete replacement of reporting criteria, 2) updates since last requested update, or 3) both.	
2	II	Load Trigger Codes	Establish query to Decision Support to get reporting criteria. Manage receipt of response to query for reporting criteria. Provide EHR-specific mapping and translation of the reporting criteria to internal EHR data structures.	
3	III	Load Reporting Criteria	Decision Support converts reporting criteria authored by Public Health Agencies into jurisdiction-specific business rules for case reporting.	
4	IV	Load Routing Criteria	Decision Support converts routing criteria authored by Public Health Agencies into jurisdiction-specific business rules for case report routing (i.e., determination of which Public Health Agency(ies) receive a given case report).	
5	V	Public Health Electronic Lab Reporting	Public Health Agencies currently receive electronic lab reports (ELRs) and import them into their electronic disease surveillance systems. ELRs often lack patient information, electronic case reporting is intended to address this gap.	
6	VI	Manage Case Information	Public Health Agency imports electronic case reports into its electronic disease surveillance system. Within electronic disease surveillance system, case reports are de-duplicated, correlated with ELRs and other case information, and classified (i.e., suspect, probable, confirmed).	

Digital Bridge eCR Functional Requirements Statements

January 24, 2017

To be read with accompanying eCR Task Flow diagram and process notes documents. Documentation available at digitalbridge.us

Task	Req ID	ENTITY / FUNCTIONAL ROLE	ACTIVITY	FUNCTIONAL REQUIREMENT	INITIAL IMPLEMENTATION REQUIREMENT STATUS (Required, Optional, or Deferred)	TECHNICAL REFERENCE	COMMENTS
1	1.00	Health Care Provider	Begin Patient Visit				
1	1.01	Health Care Provider	Begin patient visit	None – Outside scope of eCR	N/A		
2	2.00	Health Care Provider	Review, Deliver and Document Patient Care				
2	2.01	Health Care Provider	Review, Deliver and Document Patient Care	Accept structured information, including patient and clinical information that is either in coded values or can be translated by the EHR to coded values.	Required – required for all Digital Bridge Initial Implementations		This pre-defined process is unique to each patient and provider encounter but could include documenting symptoms, history, diagnoses, ordering labs, performing procedures, prescribing medications, etc.
3	3.00	Health Care Provider	Provider Initiated Electronic Initial Case Report				
3	3.01	Health Care Provider	Provider Initiated Electronic Initial Case Report	Provide ability for user to manually trigger an electronic initial case report	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired	HL7 CDA® R2 Implementation Guide: Public Health Case Report, Release 2 - US Realm - the Electronic Initial Case Report (eICR) http://www.hl7.org/imple	

Task	Reqt ID	ENTITY / FUNCTIONAL ROLE	ACTIVITY	FUNCTIONAL REQUIREMENT	INITIAL IMPLEMENTATION REQUIREMENT STATUS (Required, Optional, or Deferred)	TECHNICAL REFERENCE	COMMENTS
7	7.00	Health Care Provider	Send Electronic Initial Case Report to Decision Support Intermediary				
7	7.01	Health Care Provider	Send Electronic Initial Case Report to Decision Support Intermediary	Send public health case report to decision support intermediary	Required – required for all Digital Bridge Initial Implementations	Decision Support Intermediary will be the APHL Informatics Messaging Service (AIMS) https://www.aphl.org/programs/informatics/Pages/aims_platform.aspx	Digital Bridge initiative will collaborate with implementing sites on agreements needed to connect to AIMS. Electronic initial case report may travel to another intermediary (e.g., HIE) before reaching AIMS.
7	7.02	Health Care Provider	Send Electronic Initial Case Report to Public Health Decision Support	Provide ability for Health Care Provider to configure EHR to send eICR to an electronic endpoint responsible for routing to Decision Support Intermediary	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired		Electronic initial case report may travel to another intermediary (e.g., HIE) before reaching AIMS.
8	8.00	Health Care Provider	Document Activity Related to eICR				
8	8.01	Health Care Provider	Document Activity Related to eICR	Document confirmation of receipt of eICR by Decision Support Intermediary	Required – required for all Digital Bridge Initial Implementations		This information will be provided by Decision Support Intermediary
8	8.02	Health Care Provider	Document Activity Related to eICR	Document the information contained within the eICR that is sent to the Decision Support Intermediary	Required – required for all Digital Bridge Initial Implementations		
8	8.03	Health Care Provider	Document Activity Related to eICR	Document request for information missing from eICR	Required – required for all Digital Bridge Initial Implementations		This request will be provided by Decision Support Intermediary
8	8.04	Health Care Provider	Document Activity	Notify provider (or associated support personnel) of request	Required – required for all Digital Bridge Initial Implementations		

Task	Reqt ID	ENTITY / FUNCTIONAL ROLE	ACTIVITY	FUNCTIONAL REQUIREMENT	INITIAL IMPLEMENTATION REQUIREMENT STATUS (Required, Optional, or Deferred)	TECHNICAL REFERENCE	COMMENTS
			Related to eICR	for information missing from eICR			
8	8.05	Health Care Provider	Document Activity Related to eICR	Document provision of information missing from eICR	Required – required for all Digital Bridge Initial Implementations		
8	8.06	Health Care Provider	Document Activity Related to eICR	Document determination of public health reportability	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired		This information will be provided by Decision Support Intermediary
8	8.07	Health Care Provider	Document Activity Related to eICR	Document which public health agency (or agencies) case report was forwarded to	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired		This information will be provided by Decision Support Intermediary
8	8.08	Health Care Provider	Document Activity Related to eICR	Document confirmation of receipt of eICR by public health agency (or agencies)	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired		
8	8.09	Health Care Provider	Document Activity Related to eICR	Notify provider (or associated support personnel) of request for follow up action	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired		This information will be provided by Decision Support Intermediary Follow up actions could include: Immediate reporting via telephone to Public Health Agency; Request for supplemental information on case;
8	8.10	Health Care Provider	Document Activity Related to eICR	Provide ability to queue and prioritize notifications and requests for follow up action received by Decision Support Intermediary	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired		
8	8.11	Health Care Provider	Document Activity Related to eICR	Document actions taken by provider (or associated support personnel) to satisfy request for follow up action	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired		
8	8.12	Health Care Provider	Document Activity	Document any intervention guidelines provided by Public	Optional – not required, may be implemented by Digital Bridge		

Task	Reqt ID	ENTITY / FUNCTIONAL ROLE	ACTIVITY	FUNCTIONAL REQUIREMENT	INITIAL IMPLEMENTATION REQUIREMENT STATUS (Required, Optional, or Deferred)	TECHNICAL REFERENCE	COMMENTS
			Related to eICR	Health Agency	Initial Implementations if so desired		
8	8.13	Health Care Provider	Document Activity Related to eICR	Document request for information supplemental to electronic case report	Deferred – not required and not to be implemented by any Digital Bridge Initial Implementations, future requirements		
8	8.14	Health Care Provider	Document Activity Related to eICR	Document provision of information supplemental to electronic case report	Deferred – not required and not to be implemented by any Digital Bridge Initial Implementations, future requirements		
9	9.00	Decision Support Intermediary	Receive Electronic Initial Case Report				
9	9.01	Decision Support Intermediary	Receive Electronic Initial Case Report	Receive public health case report(s) from Health Care Provider	Required – required for all Digital Bridge Initial Implementations	Decision Support Intermediary will be the APHL Informatics Messaging Service (AIMS) https://www.aphl.org/programs/informatics/Pages/aims_platform.aspx	
9	9.02	Decision Support Intermediary	Receive Electronic Initial Case Report	Provide an acknowledgement to the Health Care Provider that a message was successfully receiver	Required – required for all Digital Bridge Initial Implementations		
9	9.03	Decision Support Intermediary	Receive Electronic Initial Case Report	Provide an acknowledgement to the Health Care Provider that the received message data is correctly formed or malformed	Required – required for all Digital Bridge Initial Implementations		
10	10.00	Decision Support Intermediary	Valid Message/ Document?				
10	10.01	Decision Support Intermediary	Valid Message/ Document?	Determine whether or not eICR has correct structure and content	Required – required for all Digital Bridge Initial Implementations	HL7 CDA® R2 Implementation Guide: Public Health Case Report, Release 2 - US Realm - the Electronic Initial Case Report (eICR)	

Task	Reqt ID	ENTITY / FUNCTIONAL ROLE	ACTIVITY	FUNCTIONAL REQUIREMENT	INITIAL IMPLEMENTATION REQUIREMENT STATUS (Required, Optional, or Deferred)	TECHNICAL REFERENCE	COMMENTS
						http://www.hl7.org/implementation/standards/product_brief.cfm?product_id=436	
11	11.00	Decision Support Intermediary	Build, Send Error Message				
11	11.01	Decision Support Intermediary	Build, Send Error Message	Create and send message indicating the eICR was malformed and could not be processed by Decision Support Intermediary	Required – required for all Digital Bridge Initial Implementations		
11	11.02	Decision Support Intermediary	Build, Send Error Message	Create and send message indicating any missing data elements from eICR	Required – required for all Digital Bridge Initial Implementations		
11	11.03	Decision Support Intermediary	Build, Send Error Message	Forward malformed eICRs for dispositioning by Decision Support Intermediary according to public health jurisdiction-specific rules.	Required – required for all Digital Bridge Initial Implementations		
		Decision Support Intermediary	Determine Public Health Reportability				
12	12.01	Decision Support Intermediary	Determine Public Health Reportability	Consume jurisdiction-specific public health criteria for use in determining Public Health Reportability	Required – required for all Digital Bridge Initial Implementations	Reportable Conditions Knowledge Management System (RCKMS)	Jurisdiction-specific reporting criteria will be provided by public health agencies through use of Reportable Conditions Knowledge Management System (RCKMS).
12	12.02	Decision Support Intermediary	Determine Public Health Reportability	Use jurisdiction-specific public health criteria to make an automated determination if case report <ul style="list-style-type: none"> • does not meet reporting criteria and should not be sent to Public Health Agency • meets reporting criteria and should be 	Required – required for all Digital Bridge Initial Implementations	Reportable Conditions Knowledge Management System (RCKMS) http://www.cste.org/group/RCKMS	Jurisdiction-specific reporting criteria will be provided by public health agencies through use of Reportable Conditions Knowledge Management System (RCKMS).

Task	Reqt ID	ENTITY / FUNCTIONAL ROLE	ACTIVITY	FUNCTIONAL REQUIREMENT	INITIAL IMPLEMENTATION REQUIREMENT STATUS (Required, Optional, or Deferred)	TECHNICAL REFERENCE	COMMENTS
				sent to Public Health Agency			
12	12.03	Decision Support Intermediary	Determine Public Health Reportability	<p>Use jurisdiction-specific public health criteria to make an automated determination if case report</p> <ul style="list-style-type: none"> • does not meet reporting criteria and should still be sent to Public Health Agency • represents an indeterminate case and should be sent to Public Health Agency 	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired	<p>Reportable Conditions Knowledge Management System (RCKMS)</p> <p>http://www.cste.org/group/RCKMS</p>	Some public health agencies may set their reporting criteria to receive non-cases (e.g. negative lab result, no diagnosis) or indeterminate cases (i.e. insufficient data to determine reportability) if legally permitted.
12	12.04	Decision Support Intermediary	Determine Public Health Reportability	Document determination on public health reportability.	Required – required for all Digital Bridge Initial Implementations	<p>Reportable Conditions Knowledge Management System (RCKMS)</p> <p>http://www.cste.org/group/RCKMS</p>	<p>Possible determinations include:</p> <ol style="list-style-type: none"> 1) does not meet reporting criteria and should not be sent to Public Health Agency 2) meets reporting criteria and should be sent to Public Health Agency 3) does not meet reporting criteria and should still be sent to Public Health Agency 4) indeterminate case and should be sent to Public Health Agency 5) indeterminate case due to missing information <p>Specific public health agencies should be referenced in above</p>

Task	Reqt ID	ENTITY / FUNCTIONAL ROLE	ACTIVITY	FUNCTIONAL REQUIREMENT	INITIAL IMPLEMENTATION REQUIREMENT STATUS (Required, Optional, or Deferred)	TECHNICAL REFERENCE	COMMENTS
							determinations as appropriate.
13	13.00	Decision Support Intermediary	Report to Public Health?				
13	13.01	Decision Support Intermediary	Report to Public Health?	If determination is that case is reportable to public health, determine which public health agency(ies) case should be sent to (see below).	Required – required for all Digital Bridge Initial Implementations		
14	14.00	Decision Support Intermediary	Determine Public Health Routing (for eICR)				
14	14.01	Decision Support Intermediary	Determine Public Health Routing (for eICR)	Determine which Public Health Agency(s) should receive the electronic case report	Required – required for all Digital Bridge Initial Implementations		Electronic case report may be routed to more than one Public Health Agency. Criteria supports following options made by jurisdictions: <ul style="list-style-type: none"> •Report to jurisdiction if care was provided in jurisdiction •Report to jurisdiction if patient is a resident •Report to jurisdiction if lab was in jurisdiction
15	15.00	Decision Support Intermediary	Need Supplemental Information?				
15	15.01	Decision Support Intermediary	Need Supplemental Information?	Based on public health jurisdiction-specific requirements, provide ability to	Deferred – not required and not to be implemented by any Digital Bridge Initial Implementations,		

Task	Reqt ID	ENTITY / FUNCTIONAL ROLE	ACTIVITY	FUNCTIONAL REQUIREMENT	INITIAL IMPLEMENTATION REQUIREMENT STATUS (Required, Optional, or Deferred)	TECHNICAL REFERENCE	COMMENTS
				request supplemental information in addition to data provided in eICR.	future requirements		
16	16.00	Decision Support Intermediary	Build Supplemental Information Request				
16	16.01	Decision Support Intermediary	Build Supplemental Information Request	Request supplemental information in addition to data provided in eICR.	Deferred – not required and not to be implemented by any Digital Bridge Initial Implementations, future requirements	Functionality could be provided by Structured Data Capture standard.	
16	16.02	Decision Support Intermediary	Build Supplemental Information Request	Send a request for disease-specific information to Health Care Provider	Deferred – not required and not to be implemented by any Digital Bridge Initial Implementations, future requirements	Functionality could be provided by Structured Data Capture standard.	
16	16.03	Decision Support Intermediary	Build Supplemental Information Request	Send a request for incident-specific information to Health Care Provider	Deferred – not required and not to be implemented by any Digital Bridge Initial Implementations, future requirements	Functionality could be provided by Structured Data Capture standard.	
16	16.04	Decision Support Intermediary	Build Supplemental Information Request	Send a request for case-specific information to Health Care Provider	Deferred – not required and not to be implemented by any Digital Bridge Initial Implementations, future requirements	Functionality could be provided by Structured Data Capture standard.	
17	17.00	Decision Support Intermediary	Build Reportability Response				
17	17.01	Decision Support Intermediary	Build Reportability Response	Provide ability to communicate reportability status of an eICR or group of eICRs.	Required – required for all Digital Bridge Initial Implementations		
17	17.02	Decision Support Intermediary	Build Reportability Response	Provide ability to communicate requested Health Care Provider actions related to eICR or group of eICRs.	Required – required for all Digital Bridge Initial Implementations		
17	17.03	Decision Support Intermediary	Build Reportability Response	Provide ability to communicate which potential case reports were <ul style="list-style-type: none"> reportable and sent to 	Required – required for all Digital Bridge Initial Implementations		

Task	Req ID	ENTITY / FUNCTIONAL ROLE	ACTIVITY	FUNCTIONAL REQUIREMENT	INITIAL IMPLEMENTATION REQUIREMENT STATUS (Required, Optional, or Deferred)	TECHNICAL REFERENCE	COMMENTS
				Public Health Agency <ul style="list-style-type: none"> not reportable and not sent to Public Health Agency 			
17	17.04	Decision Support Intermediary	Build Reportability Response	Provide ability to communicate which the potential case reports were <ul style="list-style-type: none"> not reportable and still sent to Public Health Agency of indeterminate status and still sent to Public Health Agency 	Required – required for all Digital Bridge Initial Implementations		
17	17.05	Decision Support Intermediary	Build Reportability Response	Provide ability to communicate that reportability could not be determined because eCR was missing information and specify the information that is missing	Required – required for all Digital Bridge Initial Implementations		
17	17.06	Decision Support Intermediary	Build Reportability Response	Provide ability to include links to external resources (e.g. treatment guidelines, intervention protocols)	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired		
17	17.07	Decision Support Intermediary	Build Reportability Response	Provide ability to embed materials/ documents within response	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired		
17	17.08	Decision Support Intermediary	Build Reportability Response	Provide the ability to request supplemental data	Deferred – not required and not to be implemented by any Digital Bridge Initial Implementations, future requirements		
17	17.09	Decision Support Intermediary	Build Reportability Response	Provide the ability to include a technical acknowledgement that the PHA successfully received the eCR	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired		The Governance body strongly encourages all Initial Implementation Sites to send this acknowledgement message
18	18.00	Decision Support	Send Reportability				

Task	Reqt ID	ENTITY / FUNCTIONAL ROLE	ACTIVITY	FUNCTIONAL REQUIREMENT	INITIAL IMPLEMENTATION REQUIREMENT STATUS (Required, Optional, or Deferred)	TECHNICAL REFERENCE	COMMENTS
		Intermediary	Response				
18	18.01	Public Health Decision Support	Send Reportability Response	Send Reportability Response to Health Care Provider.	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired		
18	18.02	Public Health Decision Support	Send Reportability Response	Send Reportability Response to Public Health Agency.	Required – required for all Digital Bridge Initial Implementations		
18	18.03	Public Health Decision Support	Send Reportability Response	Send technical acknowledgement that the PHA successfully received the eCR to the HCP	Optional – not required, may be implemented by Digital Bridge Initial Implementations if so desired		The Governance body strongly encourages all Initial Implementation Sites to send this acknowledgement message
19	19.00	Decision Support Intermediary	Send Electronic Initial Case Report (eICR)				
19	19.01	Decision Support Intermediary	Send Electronic Initial Case Report (eICR)	Use the predefined transport to deliver the case report to each appropriate local Public Health Agency	Required – required for all Digital Bridge Initial Implementations	Decision Support Intermediary will be the APHL Informatics Messaging Service (AIMS) https://www.aphl.org/programs/informatics/Pages/aims_platform.aspx	
20	20.00	Decision Support Intermediary	Disposition eICR				
20	20.01	Decision Support Intermediary	Disposition eICR	Disposition Electronic Initial Case Report (eICR) according to public health jurisdiction-specific dispositioning rules.	Required – required for all Digital Bridge Initial Implementations		Public health jurisdiction-specific dispositioning rules will prescribe how long an eICR can be retained by Decision Support Intermediary

Task	Reqt ID	ENTITY / FUNCTIONAL ROLE	ACTIVITY	FUNCTIONAL REQUIREMENT	INITIAL IMPLEMENTATION REQUIREMENT STATUS (Required, Optional, or Deferred)	TECHNICAL REFERENCE	COMMENTS
23	23.00	Public Health Agency	Receive Reportability Response				
23	23.01	Public Health Agency	Receive Reportability Response	Provide the ability for Public Health Agency to receive the same Reportability Responses sent to a Health Care Provider.	Required – required for all Digital Bridge Initial Implementations		
24	24.00	Health Care Provider	Provide Supplemental Information (if requested)				
24	24.01	Health Care Provider	Provide Supplemental Information (if requested)	Extract structured data from an electronic health record associated with a case	Deferred – not required and not to be implemented by any Digital Bridge Initial Implementations, future requirements	Functionality could be provided by Structured Data Capture standard.	
24	24.02	Health Care Provider	Provide Supplemental Information (if requested)	Have the ability to enter unstructured data	Deferred – not required and not to be implemented by any Digital Bridge Initial Implementations, future requirements	Functionality could be provided by Structured Data Capture standard.	
25	25.00	Health Care Provider	Create Supplemental Information Report				
25	25.01	Health Care Provider	Create Supplemental Information Report	Properly populate and format a message with supplemental/modified information so that it can be routed and associated with the appropriate case and (if applicable) specific Reportability Response that requested the supplemental/modified information.	Deferred – not required and not to be implemented by any Digital Bridge Initial Implementations, future requirements	Functionality could be provided by Structured Data Capture standard.	
26	26.00	Health Care Provider	Send Supplemental				

