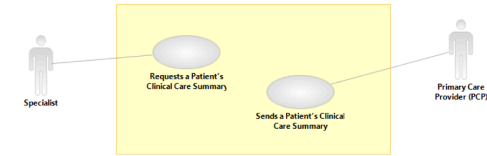
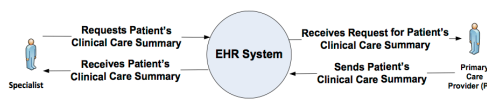
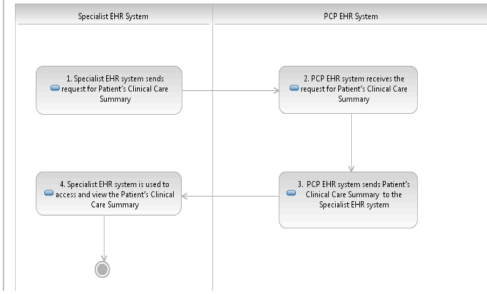


Seq	UCR Section	Field	Data Type(s)	Simplification Components	Following S&I Use Case Requirements (UCR) Template Section by Section
1		title	Text		e.g., Laboratory Results Reporting to Primary Care Providers (in an Ambulatory Setting)
2	1	preface_and_intro	String .textile		<p><b>1.0 Preface and Introduction</b></p> <p><i>Section Description: The Preface and Introduction briefly explains the purpose of Use Case development as part of the Standards &amp; Interoperability (S&amp;I) Framework. A standard preface and introduction is required across all S&amp;I Framework Initiative Use Cases (text included below).</i></p> <p>To fully realize the benefits of health IT, the Office of the National Coordinator for Health Information Technology (ONC), as part of the Standards and Interoperability (S&amp;I) Framework is developing Use Cases that define the interoperability requirements for high priority health care data exchange; maximize efficiency, encourage rapid learning, and protect patients' privacy in an interoperable environment. These Use Cases address the requirements of a broad range of Communities of Interests including; patients, their significant others and family members, providers, payers, vendors, standards organizations, public health organizations, and Federal agencies.</p> <p>These Use Cases describe:</p> <ul style="list-style-type: none"> <li>• The operational context for the data exchange</li> <li>• The stakeholders with an interest in the Use Case</li> <li>• The information flows that must be supported by the data exchange</li> <li>• The types of data and their specifications required in the data exchange</li> </ul> <p>The Use Case is the foundation for identifying and specifying the standards required to support the data exchange and developing reference implementations and tools to ensure consistent and reliable adoption of the data exchange standards.</p>
3	2	overview	String .textile		<p><b>2.0 Initiative Overview</b></p> <p><i>Section Description: This section articulates the overarching issues that the Initiative aims to address. The Initiative's goals are at a higher level than those of the Use Case and are distinguished as such in this section. If an Initiative has multiple Use Cases, this Initiative Overview should be consistent for each Use Case. Note: A recommended starting point for this content is the project charter and related research collected during the Pre-Discovery phase.</i></p> <p><i>Suggested Format: Paragraphs</i></p>
4	2.1	challenge	String .textile		<p><b>2.1 Initiative Challenge Statement</b></p> <p><i>Section Description: This section provides the description of the current challenge or problem, on a healthcare industry level, that the Initiative seeks to address. Related issues that currently exist should be included within this section, with the exception of risks, which are outlined later in the Use Case.</i></p> <p><i>Suggested Format: Paragraphs</i></p>
5	3	scope	String .textile		<p><b>3.0 Use Case Scope</b></p> <p><i>Section Description: Section 3.0 is used as an introduction to the scope of the Use Case. Sections 3.1-3.3 further define the scope at a more granular level. It is a useful exercise to frequently validate that all material in this section focuses specifically on the Use Case scope and NOT on the Initiative Scope. If there are multiple Use Cases within the same Initiative, this section can be used to explain how the scope of this Use Case relates to the others. Note: In the past, diagrams and other supplemental data / examples have helped to provide context and clarify the basis for the Use Case.</i></p> <p><i>Suggested Format: Paragraphs</i></p>
6	3.1	background	String .textile		<p><b>3.1 Background</b></p> <p><i>Section Description: The Background section goes into more detail than the Initiative Overview to describe the relevance of the Use Case in relation to what gaps currently exist within the healthcare industry. All policy and/or regulatory issues as well as dependencies that may impact the Use Case should be included in this section.</i></p> <p><i>Suggested Format: Paragraphs</i></p>
7	3.2	in_scope	String .textile Table/List ?		<p><b>3.2 In Scope</b></p> <p><i>Section Description: This section indicates what is in scope for the Use Case. For example, it can include the type of transactions, the information/data to be exchanged, and specific aspects that need to be in place to enable the information to be sent, received and understood the same at both ends of the transmission. Note: A suggested starting point for this content is the project charter and related research collected during the Pre-Discovery phase.</i></p> <p><i>Suggested Format: Bulleted List</i></p> <ul style="list-style-type: none"> <li>• &lt;&lt;Bulleted List&gt;&gt;</li> </ul>

Seq	UCR Section	Field	Data Type(s)	Simplification Components	Following S&I Use Case Requirements (UCR) Template Section by Section						
8	3.3	out_of_scope	String .textile Table/List ?		<p><b>3.3 Out of Scope</b>  <i>Section Description:</i> This section indicates what is out of scope for the Use Case. These points may highlight dependencies on the feasibility, implementability, and usability that result in limitations of the Use Case. At a high level, whatever is not declared "In Scope", is by definition, "Out of Scope". Note: There may be some items that are out of scope for the Use Case and Functional Requirements Development as well as the Standards Harmonization activities, that can be included as part of a Pilot. These additions will be documented during that particular stage of the S&amp;I Framework process; however, this expansion should not conflict with the previously defined requirements.</p> <p><b>Suggested Format:</b> Bulleted List</p> <ul style="list-style-type: none"> <li>&lt;&lt;Bulleted List&gt;&gt;</li> </ul>						
9	3.4	communities	String .textile Table ?		<p><b>3.4 Communities of Interest</b>  <i>Section Description:</i> The Communities of Interest section identifies relevant stakeholders that are potentially affected by the content of the Use Case. This list may vary per Initiative, but the stakeholder definitions will be consistent throughout the S&amp;I Framework, as defined by the Use Case Simplification Workgroup (examples included below).</p> <p>Click here to view the list of definitions: <a href="http://wiki.siframework.org/UC+Simplification+-+Stakeholder+Classification+SWG">http://wiki.siframework.org/UC+Simplification+-+Stakeholder+Classification+SWG</a></p> <p><b>Suggested Format:</b> Table</p> <table border="1"> <thead> <tr> <th>Member of Communities of Interests</th> <th>Working Definition</th> </tr> </thead> <tbody> <tr> <td>Patient</td> <td>Healthcare consumers who are recipients of health care services and products.</td> </tr> <tr> <td>Health Care Provider</td> <td>A person or organization that's licensed to give health care. A Provider can enter into an agreement with an insurer to provide services (e.g., Medicare, Health Plan)</td> </tr> </tbody> </table> <p style="text-align: center; font-size: small;">Table 1: Communities of Interest</p>	Member of Communities of Interests	Working Definition	Patient	Healthcare consumers who are recipients of health care services and products.	Health Care Provider	A person or organization that's licensed to give health care. A Provider can enter into an agreement with an insurer to provide services (e.g., Medicare, Health Plan)
Member of Communities of Interests	Working Definition										
Patient	Healthcare consumers who are recipients of health care services and products.										
Health Care Provider	A person or organization that's licensed to give health care. A Provider can enter into an agreement with an insurer to provide services (e.g., Medicare, Health Plan)										
10	4	value_statement	String .textile Table/List ?		<p><b>4.0 Value Statement</b>  <i>Section Description:</i> This section provides the high level description of the value and/or benefit of this Use Case to the healthcare community. This section also identifies the anticipated outcomes and the metrics that will be used to assess the success of the Use Case.</p> <p><b>Suggested Format:</b> Paragraphs, bulleted list</p> <p>Successful outcomes and metrics of the Use Case include:</p> <ul style="list-style-type: none"> <li>&lt;&lt;Bulleted List&gt;&gt;</li> </ul>						
11	5	assumptions	String .textile Table/List ?	<<Bulleted List>> Assumptions	<p><b>5.0 Use Case Assumptions</b>  <i>Section Description:</i> The Use Case Assumptions section outlines what needs to be in place to meet or realize the requirements of the Use Case (i.e. the necessary privacy and security framework). These points are more functional in nature and state the broad overarching concepts related to the Initiative. The Use Case assumptions will serve as a starting point for subsequent harmonization activities.</p> <p><b>Suggested Format:</b> Bulleted list</p> <ul style="list-style-type: none"> <li>&lt;&lt;Bulleted List&gt;&gt;</li> </ul>						
12	6	pre_conditions	String .textile Table/List ?	<<Bulleted List>> Pre-Conditions	<p><b>6.0 Pre-Conditions</b>  <i>Section Description:</i> The Pre-Conditions section describes the state of the system, from a technical perspective, that must be true before an operation, process, activity or task can be executed. It lists what needs to be in place <b>before</b> executing the information exchange as described by the Functional Requirements and Dataset requirements.</p> <p><b>Suggested Format:</b> Bulleted List</p> <ul style="list-style-type: none"> <li>&lt;&lt;Bulleted List&gt;&gt;</li> </ul>						
13	7	post_conditions	String .textile Table/List ?	<<Bulleted List>> Post-Conditions	<p><b>7.0 Post Conditions</b>  <i>Section Description:</i> The Post Conditions section describes the state of the system, from a technical perspective, that will result after the execution of the operation, process activity or task.</p> <p><b>Suggested Format:</b> Bulleted List</p> <ul style="list-style-type: none"> <li>&lt;&lt;Bulleted List&gt;&gt;</li> </ul>						

Seq	UCR Section	Field	Data Type(s)	Simplification Components	Following S&I Use Case Requirements (UCR) Template Section by Section									
14	8	actors_and_roles	String .textile Table ?	<p>&lt;&lt;Table&gt;&gt; Actors, Systems, Roles</p>	<p><b>8.0 Actors and Roles</b>  <b>Section Description:</b> This table outlines the business actors that are participants in the information exchange requirements for each scenario. A business actor is a person or organization that directly participates in a scenario. Thus, as a person or organization, the actor can (and should) be a stakeholder.</p> <p>The business actor must use a system to perform the functions and to participate in the information interchange. The system or system actor has roles (send, receive, publish, subscribe or in some cases display) and actions which involve exchanging content. Please see the table below for an example of these designations.</p> <p><b>NOTE:</b> A Business Actor may be a Stakeholder and also can have more than one role.</p> <p><b>Suggested Format:</b> Table</p> <table border="1"> <thead> <tr> <th>Actor</th> <th>System</th> <th>Role</th> </tr> </thead> <tbody> <tr> <td>PCP</td> <td>EHR System</td> <td>Sender</td> </tr> <tr> <td>Specialist</td> <td>EHR System</td> <td>Receiver</td> </tr> </tbody> </table> <p>Table 1: Actors and Roles</p>	Actor	System	Role	PCP	EHR System	Sender	Specialist	EHR System	Receiver
Actor	System	Role												
PCP	EHR System	Sender												
Specialist	EHR System	Receiver												
15	9	diagram	String .textile Graphic .uml .jpeg or ?		<p><b>9.0 Use Case Diagram</b>  <b>Section Description:</b> This section conceptually represents the Business Actors interacting with the Use Case and the User Stories. These diagrams characterize the types of interactions that an actor has with a specific system. The section can include a Use Case Diagram and, if applicable, a Context Diagram (examples are shown below).</p> <p>The Use Case diagram shows the association and interaction between the business actors and the Use Case. It provides an overview of the actors (users or external systems), Use Cases, and the interactions between them. The context diagram uses inputs and outputs to provide a pictorial representation of the environment, both internal and external, where the exchange takes place. As the UML associated with the diagrams proceeds through the different S&amp;I Framework functions (i.e., Harmonization, Reference Implementation), it is defined at a more granular level closer to the coding (implementation).</p>  <p>Figure 1: Use Case Diagram</p>  <p>Figure 2: Context Diagram</p>									
16	10	scenarios	String .textile		<p><b>10.0 Scenario</b>  <b>Section Description:</b> The scenario is a comprehensive description of the actors, interactions, activities, and requirements associated with the information exchange. It is a prototypical sequence of interactions in a business collaboration or the application context. Scenarios pertain to supporting the health information exchange and, describing key flows, and are supplemented by User Stories (example shown below). Section 10.0 serves as an introductory section while sections 10.1 through 10.5 provide more specific details (examples shown below in all sections).</p> <p><b>Suggested Format:</b> Paragraphs</p> <p>Specialist requests patient information from Primary Care Provider (PCP).</p>									
17	10.1	user_story	String .textile		<p><b>10.1 User Story</b>  <b>Section Description:</b> User Stories summarize the interaction between the actors of the Use Case, and specify what information is exchanged from a contextual perspective. Furthermore, the User Stories describe the real world application as an example of the Scenario. These interactions are further described in subsequent sections. Historically, user stories have been utilized to provide clinical context</p> <p><b>Suggested Format:</b> Paragraphs</p> <p>A Specialist receives a referral and requires more information to treat the patient properly at the point of care. Using an EHR System, the Specialist sends a request to the PCP for the patient's Clinical Care Summary. The PCP successfully receives the requests, understands the requests, and sends the patient's Clinical Care Summary back to the Specialist via the EHR System. The Specialist successfully receives the patient information, understands it, and makes an informed decision that can provide better quality of care to the patient.</p>									

Seq	UCR Section	Field	Data Type(s)	Simplification Components	Following S&I Use Case Requirements (UCR) Template Section by Section																														
18	10.2	activity_diagram	String .textile Graphic .uml or ?		<p><b>10.2 Activity Diagram</b></p> <p><b>Section Description:</b> An Activity Diagram is a special form of a state transition diagram in which all or most of the states are activity states or action states. An action state represents the fulfillment of associated responsibilities in response to the communication received from the previous step. Most transitions are triggered by completion of activities in the source states.</p> <p>The Activity Diagram illustrates the Use Case flows graphically, and represents the flow of events and information between the actors. It also displays the main events/actions that are required for the data exchange and the role of each system in supporting the change.</p>  <p>Figure 1: Activity Diagram</p>																														
19	10.2.1	base_flow	String .textile Table ?	<p><b>10.2.1 Base Flow</b></p> <p><b>Section Description:</b> The Base Flow presents the step by step process of the information exchange depicted in the activity diagram (above). It indicates the actor who performs the action, the description of the event/action, and the associated inputs (records/data required to undertake the action) and outputs (records/data produced by actions taken).</p> <p><b>Suggested Format:</b> Table</p>	<table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Role</th> <th>Event/Description</th> <th>Inputs</th> <th>Outputs</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Specialist</td> <td>Request Sender</td> <td>Specialist EHR System Requests Clinical Care Summary</td> <td>Specialist selects patient of interest from their EHR system.</td> <td>Initiated Clinical Care Summary Request in standard format and content specification where possible</td> </tr> <tr> <td>2</td> <td>PCP</td> <td>Request Receiver</td> <td>PCP Receives Request for Clinical Care Summary through PCP EHR System and understands it</td> <td>Initiated Clinical Care Summary Request</td> <td>Clinical Care Summary in standard format where possible</td> </tr> <tr> <td>3</td> <td>PCP</td> <td>Results Sender</td> <td>PCP Sends Clinical Care Summary to Specialist through PCP EHR System</td> <td>Clinical Care Summary</td> <td>Clinical Care Summary in standard format where possible</td> </tr> <tr> <td>4</td> <td>Specialist</td> <td>Results Receiver</td> <td>Specialist Receives Clinical Care Summary through EHR System and understands it</td> <td>Clinical Care Summary</td> <td>END</td> </tr> </tbody> </table> <p>Table 1: Base Flow of Scenario 1</p>	Step #	Actor	Role	Event/Description	Inputs	Outputs	1	Specialist	Request Sender	Specialist EHR System Requests Clinical Care Summary	Specialist selects patient of interest from their EHR system.	Initiated Clinical Care Summary Request in standard format and content specification where possible	2	PCP	Request Receiver	PCP Receives Request for Clinical Care Summary through PCP EHR System and understands it	Initiated Clinical Care Summary Request	Clinical Care Summary in standard format where possible	3	PCP	Results Sender	PCP Sends Clinical Care Summary to Specialist through PCP EHR System	Clinical Care Summary	Clinical Care Summary in standard format where possible	4	Specialist	Results Receiver	Specialist Receives Clinical Care Summary through EHR System and understands it	Clinical Care Summary	END
Step #	Actor	Role	Event/Description	Inputs	Outputs																														
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20	10.2.2	alternate_flow	String .textile Table ?	<p><b>10.2.2 Alternate Flow</b></p> <p><b>Section Description:</b> An Alternate Flow describes a series of events that are related to the scenario but present a new pathway for the information exchange. Alternative flows can be used to capture error messages returned if the data are unavailable or not permitted to be shared.</p> <p><b>Suggested Format:</b> Table</p>	<table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Role</th> <th>Event/Description</th> <th>Inputs</th> <th>Outputs</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Table 1: Alternate Flow</p>	Step #	Actor	Role	Event/Description	Inputs	Outputs																								
Step #	Actor	Role	Event/Description	Inputs	Outputs																														
21	10.3	functional_requirements	String .textile		<p><b>10.3 Functional Requirements</b></p> <p><b>Section Description:</b> Functional Requirements identify the capabilities a system in a role must have in order to enable interoperable exchange of the healthcare data of interest. They provide a detailed breakdown of the requirements in terms of the intended functional behaviors of the application. The Functional Requirements include Information Interchange Requirements, System Requirements and Dataset Requirements as indicated in sections 11.1-11.3 below.</p>																														

Seq	UCR Section	Field	Data Type(s)	Simplification Components	Following S&I Use Case Requirements (UCR) Template Section by Section															
22	10.3.1	interchange_requirements	String .textile Table ?		<p><b>10.3.1 Information Interchange Requirements</b>  <i>Section Description:</i> The Information Interchange Requirements define the system's name and role. They also specify the actions associated with the actual transport of content from the sending system to the receiving system.  <i>Suggested Format:</i> Table</p> <table border="1"> <thead> <tr> <th>Initiating System</th> <th>(describes action)</th> <th>Information Interchange Requirement Name</th> <th>(describes action)</th> <th>Receiving System</th> </tr> </thead> <tbody> <tr> <td></td> <td>Send</td> <td></td> <td>Receive</td> <td></td> </tr> <tr> <td></td> <td>Send</td> <td></td> <td>Receive</td> <td></td> </tr> </tbody> </table> <p>Table 1: Information Interchange Requirements</p>	Initiating System	(describes action)	Information Interchange Requirement Name	(describes action)	Receiving System		Send		Receive			Send		Receive	
Initiating System	(describes action)	Information Interchange Requirement Name	(describes action)	Receiving System																
	Send		Receive																	
	Send		Receive																	
23	10.3.2	system requirements	String .textile Table ?	<<Table>> System, Requirement	<p><b>10.3.2 System Requirements</b>  <i>Section Description:</i> This section lists the requirements internal to the system necessary to participate successfully in the transaction. System requirements may also detail a required workflow that is essential to the Use Case.  <i>Suggested Format:</i> Table</p> <table border="1"> <thead> <tr> <th>System</th> <th>System Requirement</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table> <p>Table 1: System Requirements</p>	System	System Requirement													
System	System Requirement																			
24	10.4	sequence_diagram	String .textile Graphic .uml or ?		<p><b>10.4 Sequence Diagram</b>  <i>Section Description:</i> A Sequence Diagram is primarily used to show the interactions between objects in the sequential order that they occur. This representation can make it easy to communicate how the exchange works by displaying how the different components interact. The primary use of the diagram is in the transition from requirements expressed as use cases to the next and more formal level of refinement. Note: Horizontal lines are used to identify the specific activity between the systems.</p> <p>Figure 1: Sequence Diagram</p>															
25	11	risks_issues_obstacles	String .textile Table/List ?		<p><b>11.0 Risks, Issues and Obstacles</b>  <i>Section Description:</i> The Risks, Issues and Obstacles section lists the concerns that might interfere with meeting the requirements of the Use Case. Any Initiative wide points should be made above between both the Initiative Overview and the Initiative Challenge Statement sections. The information within this section will be vital to the harmonization activities.  <i>Suggested Format:</i> Paragraphs, Bulleted List</p> <ul style="list-style-type: none"> <li>&lt;&lt;Bulleted List&gt;&gt;</li> </ul>															
26	12	dataset_requirements	String .textile Table ?	<<Table>> Section, Data Element, Multiple Values? Description, Vocabulary	<p><b>12.0 Dataset Requirements</b>  <i>Section Description:</i> This table lists the data elements and data element sets that will be available within the message or document. Historically, the optional/required nature of each data element is deferred to the discussions during the harmonization phase. Since the experts who know what data are to be exchanged may be participating at this stage, it is essential that these dataset requirements be as fully specified as is possible. Each data element listed below is necessary for some aspect of the Use Case; however, the table does not specify exactly how they may be used together. All data element sets may contain multiple data elements unless otherwise stated. For the purposes of this section, do not assume that any data elements are inferred. Be sure to provide elements at their most granular level. For example, if it is necessary to specify a zip code, do not use the less specific data element set, 'address'. In addition, specify the base standard from which they are chosen, i.e., a specific vocabulary (SNOMED), code set (gender, marital status), classification (ICD-10-CM), or other, and who maintains this terminology.  Furthermore, it is important to understand that the identification of data elements forms the foundation for harmonization activities. The data elements identified in the Use Case set constraints on the contents of documents and messages. Workgroups should make every effort to ensure that the dataset and data element requirements are complete, accurate, and precise.</p> <p><i>NOTE:</i> This content of this section will vary per Initiative as the references are contingent upon the specific list of Functional Requirements that is developed by the Workgroup. The Use Case Simplification Workgroup is tasked with creating a structure for this section that will eventually be applied to all Use Cases. Data element sets are defined for reuse within the Use Case Simplification Workgroup  <i>Suggested Format:</i> Table, Bulleted Lists (including data element name, definition, example representation, and source vocabulary)</p> <table border="1"> <thead> <tr> <th>Section</th> <th>Data Element</th> <th>Multiple Values (yes/no)</th> <th>Data Element Description</th> <th>Vocabulary</th> <th>Additional Notes</th> </tr> </thead> <tbody> <tr> <td></td> <td>• &lt;&lt;Bulleted list&gt;&gt;</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Table 1: Dataset Requirements</p>	Section	Data Element	Multiple Values (yes/no)	Data Element Description	Vocabulary	Additional Notes		• <<Bulleted list>>							
Section	Data Element	Multiple Values (yes/no)	Data Element Description	Vocabulary	Additional Notes															
	• <<Bulleted list>>																			

Seq	UCR Section	Field	Data Type(s)	Simplification Components	Following S&I Use Case Requirements (UCR) Template Section by Section
27	A		String .textile Table/List ?		<b>Appendix A: Related Use Cases</b> • <<Bulleted List>>
28	B		String .textile Table/List ?		<b>Appendix B: Previous Work Efforts</b> • <<Bulleted List>>
29	C		String .textile Table/List ?		<b>Appendix C: References</b> • <<Bulleted List>>

  (Currently) S&I Simplification analysis selects Core Components as noted from these items.

Textile: [http://en.wikipedia.org/wiki/Textile\\_\(markup\\_language\)](http://en.wikipedia.org/wiki/Textile_(markup_language))