

IMPLEMENTATION GUIDE FOR A HEALTHCARE PARTNER



VERSION 1.8

JULY 30, 2009

TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
1.1 Purpose of Guide.....	2
1.2 Communication.....	3
1.3 Understanding the Guide	4
2.0 HEADER	6
2.1 Header Information.....	6
3.0 PARTICIPANTS.....	9
3.1 recordTarget.....	9
3.2 authenticator.....	14
3.3 legalAuthenticator.....	15
3.4 author	16
3.5 custodian	19
3.6 participant	21
3.7 documentationOf.....	24
4.0 CONTINUITY OF CARE DOCUMENT SECTIONS.....	31
4.2 Advance Directive Module	31
4.3 Functional Status.....	39
4.4 Support Module	48
4.5 Problems Module.....	49
4.6 Family History	57
4.7 Social History.....	63
4.8 Vital Signs.....	66
4.9 Results.....	76
4.10 Procedures.....	84
4.11 Encounters.....	92
4.12 Plan of Care.....	101
4.13 (Alerts) Allergy/Drug Sensitivity	102
4.14 Medication Module.....	108
4.15 Medical Equipment Module	136
4.16 Immunization Module.....	141

1.0 Introduction

Social Security Administration (SSA) requests 15-20 million medical records each year from healthcare facilities across the country. Almost 3 million people turn to Social Security Administration for help when facing an inability to work for at least a year, or a terminal condition. These claimants need the monthly income that SSA provides, and perhaps more importantly, they need the Medicare or Medicaid health coverage which comes based on the SSA disability determination. Providing medical records to SSA and to the tens of thousands of other requesters is a very labor-intensive and expensive proposition for healthcare facilities. Automating the solution for Release of Information will not only save time and money for the providers but will also ultimately yield benefits to patients as well. In addition there will be annual resource savings on printer, paper, postage, and HIM staff hours.

Recently when SSA implemented a partially automated solution with the Veteran Affairs (VA), the VA indicated that an average of 45 minutes was saved per request. If we conservatively apply 30 minutes per request to all the requests in the industry, the automation can save millions of labor hours per year. In addition, in the VA medical centers where the automation was piloted, the ease of the partially automated solution made it feasible for them to respond to more requests. The response rate increased approximately 38% to 97%. For a facility, this increase can be directly correlated to an increase in revenue for the provider. SSA spends almost \$500 million each year on requesting of medical information.

Many of those applying for SSA Disability benefits are uninsured or under-insured. For those patients, the facilities can afford to provide limited care while recovering very little of the cost of care. The sooner SSA can make a disability determination, the sooner the provider can provide reimbursable care which clearly affects their bottom line.

1.1 PURPOSE OF GUIDE

The Social Security Administration has created this implementation guide to assist in medical/clinical exchange between a Healthcare Partner and the Social Security Administration. This document will provide all Healthcare Partners with a guide of the (CCD) Continuity of Care Document content (XML) that is expected during the medical/clinical exchange.

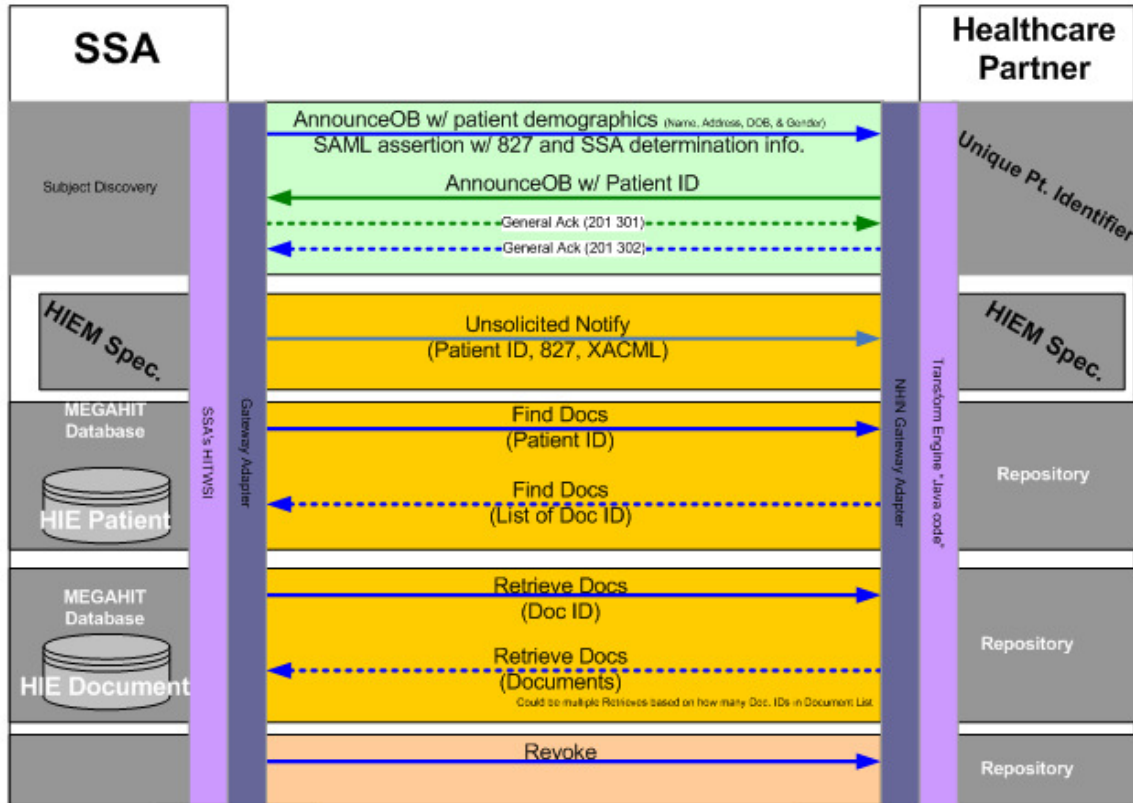
This documentation assumes that the reader has a general knowledge of XML, CCD, CDA r2, and the business workflow of medical/clinical exchange.

The Healthcare Partner should use this implementation guide to assist in generating a well formatted CCD (XML payload). SSA has performed a market scan of all industry documentation and has attempted to consolidate them into one guide. By doing this we have identified all areas of the CCD that are “**SHALL**” (i.e. required/mandatory) from the CDA R2 documentation and will use an “**R**” as the representation of “**SHALL**” within this document. SSA has also identified its own content needs and will represent this content with an “**R**”, “**R2**” or “**O**” as well. We will define this explanation further in section 1.3.

1.2 COMMUNICATION

The communication between Social Security Administration and the healthcare partners will happen via the NHIN adapter or a comparable adapter. The flow shown (figure 2) below illustrates the communication process via webservices.

Figure 2



Communication Webservice Code

Click on the links below to access code samples.

- [Subject-discovery-201301—ACK-request](#)
- [Subject-discovery-201302—ACK-response](#)
- [Subject-discovery-201301—ACK-request](#)
- [Subject-discovery-201302—ACK-response](#)
- [Notify-request](#)
- [Find-document-request](#)
- [Find-document-response](#)
- [Revoke-patient-request](#)

1.3 UNDERSTANDING THE GUIDE

The following instructions will help the healthcare partner understand this guide and how it is to be used to layout the XML payload being delivered to SSA. Each section of this documentation is broken out into four (4) sections: Table Section, Content, UML and XML sample payload. The Table and Content section are tied together via the Field Name column. The XML sample payload section will give the partner a great example of working XML. This guide follows and conforms to HL7’s CDA R2 documentation. If there is any unclarified areas please refer to HL7’s documentation for guidance.

Table Section

The purpose of the Table section is to show the XPATH (location) of each content field and the priority of that field in relation of CCD standards and the SSA needs. Table layouts are provided throughout this document to address CCD sections, Content, and XML layout. The tables will define the following items.

- **Field Name** – The Field Name header is a defined section and content portion of the Implementation Guide. Normal/Logical Name of the CCD element and ties both sections (normal and content sections). These names if possible have been pulled from industry standards documentation to keep consistent terms throughout.
- **XPATH** – The XPATH is a defined portion of the Implementation Guide the will show the location path of each element and/or attribute.
- **CCD** - The CCD header is a defined portion of the Implementation Guide that will illustrate the “**R - Required**”, “**R2 - Required if Known**”, and “**O - Optional**” elements and/or attributes that are based off the leading industry standards of interoperability. This section will provide both SSA and the Healthcare partner a consolidate guide of what is expected from the industry standards (i.e. CDA R2).
- **SSA** - The SSA header is a defined portion of the Implementation Guide that will illustrate the “**R - Required**”, “**R2 - Required if Known**”, and “**O - Optional**” elements and/or attributes that are based off Social Security Administration’s needs of interoperability. Though similar to the CCD column, the partner will find differences in some sections. SSA would like to stay true to the industry standard CCD/CDA R2; however certain sections maybe “**Required**” or “**Required if Known**” elements and/or attributes by SSA.

Note: Below is a definition of the “Required”, “Required if known”, and “Optional”.

R – Required	Required data elements must always be sent.
R2 – Required if known	Required if Known data elements must be sent when the sending application has that data available.

O – Optional	Optional data elements may be sent at the choice of the sending application.
---------------------	--

Content

Purpose of this section is to illustrate specific content for certain fields within the XML. If a field has constant or predefined content this document will display the content values or identify where the content can be located in the Reference column.

UML

The UML sections will provide a generic layout of the HL7 CDA RIM flow and how each section follows the diagram. This should give the user a more condensed view of the section they are reviewing.

XML Payload

XML payload is available to show a full working example of each section.

SSA hopes that this document will provide an excellent starting point in our process. If there are any questions during this section or ways to improve the process, please alert the SSA Project Manager at any time.

2.0 Header

2.1 HEADER INFORMATION

The Header section is a **Required** section by the CCD standards. All documents begin with the root element ClinicalDocument.

Header Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Class Code	ClinicalDocument/classcode	R	R
Mood Code	ClinicalDocument/moodCode	R	R
Id	ClinicalDocument/id	R	R
Title	ClinicalDocument/title	O	R2
Effective Time	ClinicalDocument/effectiveTime	R	R
Language Code	ClinicalDocument/languageCode	O	R2
setID	ClinicalDocument/setId	O	R2
Version Number	ClinicalDocument/versionNumber	O	R2
Confidentiality Code	ClinicalDocument/confidentialityCode/@code	R	R
Code System	ClinicalDocument/confidentialityCode/@codeSystem	R	R
OID for HL7 Registered Model	ClinicalDocument/typeId/@root	R	R
Unique id for CDA	ClinicalDocument/typeId/@extension	R	R
CCD v1.0 Template ID	ClinicalDocument/templateId/@root	R	R
HIE's OID	ClinicalDocument/id/@root	R	R
Vocabulary OID	ClinicalDocument/code/@codeSystem	R	R
code	ClinicalDocument/code/@code	R	R
Display Name	ClinicalDocument/code/@displayName	R	R
Code System	ClinicalDocument/code/@codeSystemName	R	R

Name			
------	--	--	--

2.1.1 Content of Header Section

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>SSA Needed Content Values</u>	<u>Reference Documents</u>								
Class Code	DOCCLIN									
Mood Code	EVN									
Id	0	(integer - i.e. 0,1,2,3,4...)								
OID for HL7 Registered Model	2.16.840.1.113883.1.3									
Unique id for CDA	POCD_HD000040	CDA R2 document								
CCD v1.0 Template ID	2.16.840.1.113883.10.20.1									
HIE's OID	x.xx.xxx.x.xxxxxxx.x.xxx	http://www.hl7.org/oid/index.cfm								
LOINC Code	34133-9									
Display Name	Summarization of episode note									
Vocabulary OID	2.16.840.1.113883.6.1	http://www.hl7.org/oid/index.cfm								
Code System Name	LOINC									
Title	Continuity of Care Document from "HIE Name"									
Effective Time	YYYYMMDDHHMMSS+0000									
Confidentiality Code	Any of the following can be used: <table border="1" data-bbox="646 1373 1073 1556"> <thead> <tr> <th><u>Code</u></th> <th><u>Description</u></th> </tr> </thead> <tbody> <tr> <td>N</td> <td>Normal</td> </tr> <tr> <td>R</td> <td>Restricted</td> </tr> <tr> <td>V</td> <td>Very Restricted</td> </tr> </tbody> </table>	<u>Code</u>	<u>Description</u>	N	Normal	R	Restricted	V	Very Restricted	HL7 v3 - confidentiality
<u>Code</u>	<u>Description</u>									
N	Normal									
R	Restricted									
V	Very Restricted									
Confidentiality Code System	2.16.840.1.113883.5.25	http://www.hl7.org/oid/index.cfm								
Language Code	en-US	ISO-639-1 and ISO-3166								

2.1.2 XML Sample of the CCD Header

<ClinicalDocument xsi:schemaLocation="urn:hl7-org:v3
--

```
http://xreg2.nist.gov:8080/hitspValidation/schema/cdar2c32/infrastructure/cda/C32\_CDA.xsd>  
<typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>  
<templateId root="2.16.840.1.113883.10.20.1"/>  
<id root="6858a017-39c1-4153-bbd4-eaedac72a0e7"/>  
<code code="34133-9" displayName="Summarization of episode note" codeSystem="2.16.840.1.113883.6.1"  
codeSystemName="LOINC"/>  
<title> Continuity of Care Document from “HIE Name”</title>  
<effectiveTime value="20081120161000+1400"/>  
<confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>  
<languageCode code="en-US"/>
```

3.0 Participants

3.1 RECORDTARGET

The recordTarget section is a **required** section by the CCD standards.

Description of Section: The recordTarget element identifies the patient or patients whose health history is/are described within this payload. A recordTarget is represented as a relationship between a person and an organization, where the person is in a patient role (PatientRole class). The entity playing the role is a patient (Patient class). The entity scoping the role is an organization (Organization class). A patient is uniquely identified via the PatientRole.id attributes.

recordTarget Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Type Code	ClinicalDocument/recordTarget/typeCode	R	R
Context Control Code	ClinicalDocument/recordTarget/contextControlCode	R	R
	ClinicalDocument/recordTarget/patientRole	R	R
Id (SSN)	ClinicalDocument/recordTarget/patientRole/id	R	R
Pt. Name	ClinicalDocument/recordTarget/patientRole/patient/name	O	R2
Address Use	ClinicalDocument/recordTarget/patientRole/addr/@use	O	R2
Pt's Address	ClinicalDocument/recordTarget/patientRole/addr	O	R2
Gender Code	ClinicalDocument/recordTarget/patientRole/patient/administrativeGenderCode	O	R2
Birth Time	ClinicalDocument/recordTarget/patientRole/patient/birthTime/@value	O	R2
Telephone use	ClinicalDocument/recordTarget/patientRole/telecom/@use	O	R2
Telephone Number	ClinicalDocument/recordTarget/patientRole/telecom/@value	O	R2
Provider Org. Id	ClinicalDocument/recordTarget/patientRole/providerOrganization/id@root	O	R2
Organization Name	ClinicalDocument/recordTarget/patientRole/providerOrganization/name	O	R2

3.1.1 Content of recordTarget

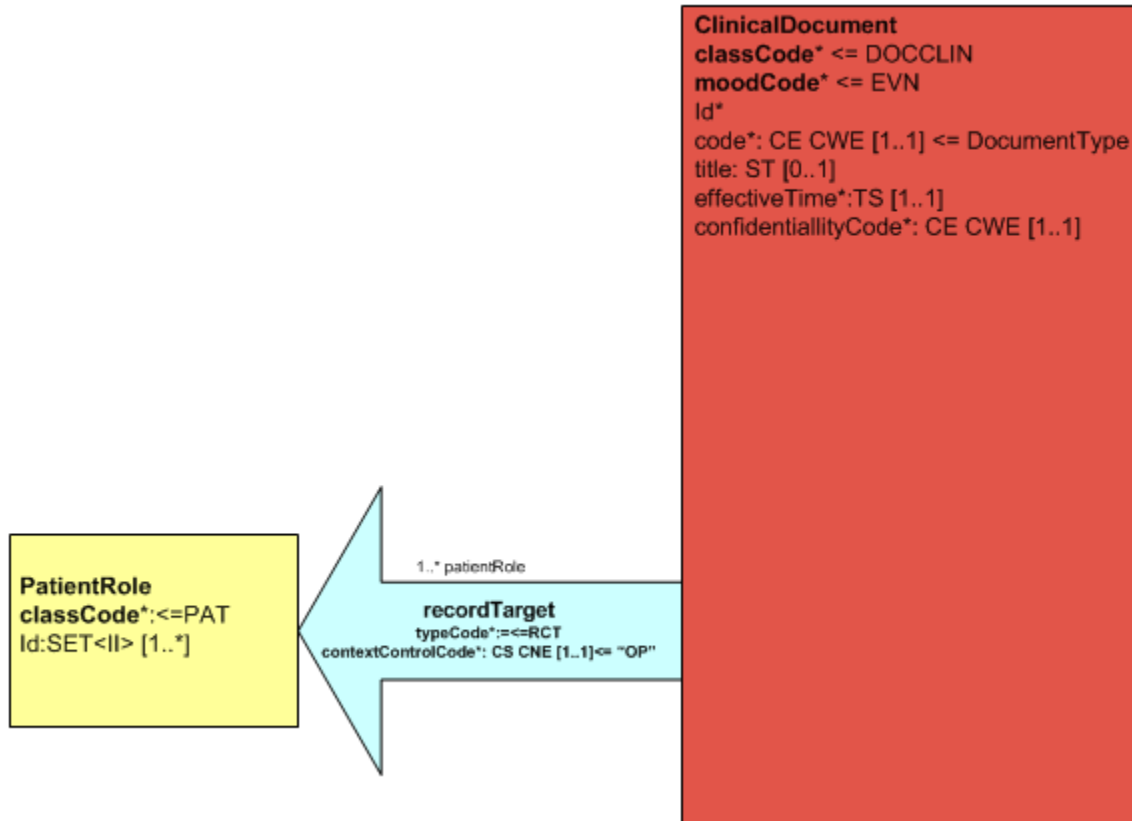
This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>				
typeCode	Any of the following can be used: <table border="1" data-bbox="586 604 1013 1094"> <thead> <tr> <th>Type Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>RCT</td> <td>Record target - The record target indicates whose medical record holds the documentation of this act. This is especially important when the subject of a service is not the patient himself.</td> </tr> </tbody> </table>	Type Code	Description	RCT	Record target - The record target indicates whose medical record holds the documentation of this act. This is especially important when the subject of a service is not the patient himself.	HL7 v3 - ParticipationType
Type Code	Description					
RCT	Record target - The record target indicates whose medical record holds the documentation of this act. This is especially important when the subject of a service is not the patient himself.					
Context Control Code	OP					
Id (SSN)	xxxxxxxx	(Social Security Number)				

Address Use	<p>Any of the following can be used:</p> <table border="1" data-bbox="586 331 1013 558"> <thead> <tr> <th><u>Code</u></th> <th><u>Description</u></th> </tr> </thead> <tbody> <tr> <td>H</td> <td>home address</td> </tr> <tr> <td>HP</td> <td>primary home</td> </tr> <tr> <td>WP</td> <td>work place</td> </tr> <tr> <td>HV</td> <td>vacation home</td> </tr> </tbody> </table>	<u>Code</u>	<u>Description</u>	H	home address	HP	primary home	WP	work place	HV	vacation home	HL7 v3 - Datatypes				
<u>Code</u>	<u>Description</u>															
H	home address															
HP	primary home															
WP	work place															
HV	vacation home															
Telephone Use	<p>Any of the following can be used:</p> <table border="1" data-bbox="586 617 1013 890"> <thead> <tr> <th><u>Code</u></th> <th><u>Description</u></th> </tr> </thead> <tbody> <tr> <td>H</td> <td>home address</td> </tr> <tr> <td>HP</td> <td>primary home</td> </tr> <tr> <td>WP</td> <td>work place</td> </tr> <tr> <td>HV</td> <td>vacation home</td> </tr> <tr> <td>MC</td> <td>Mobile contact</td> </tr> </tbody> </table>	<u>Code</u>	<u>Description</u>	H	home address	HP	primary home	WP	work place	HV	vacation home	MC	Mobile contact	HL7 v3 - Datatypes		
<u>Code</u>	<u>Description</u>															
H	home address															
HP	primary home															
WP	work place															
HV	vacation home															
MC	Mobile contact															
Name use	<p>Any of the following can be used:</p> <table border="1" data-bbox="586 951 1013 1268"> <thead> <tr> <th><u>Code</u></th> <th><u>Description</u></th> </tr> </thead> <tbody> <tr> <td>L</td> <td>Legal</td> </tr> <tr> <td>C</td> <td>License</td> </tr> <tr> <td>I</td> <td>Indigenous/Tribal</td> </tr> <tr> <td>P</td> <td>Pseudonym</td> </tr> <tr> <td>A</td> <td>Artist/Stage</td> </tr> <tr> <td>R</td> <td>Religious</td> </tr> </tbody> </table>	<u>Code</u>	<u>Description</u>	L	Legal	C	License	I	Indigenous/Tribal	P	Pseudonym	A	Artist/Stage	R	Religious	HL7 v3 - Datatypes
<u>Code</u>	<u>Description</u>															
L	Legal															
C	License															
I	Indigenous/Tribal															
P	Pseudonym															
A	Artist/Stage															
R	Religious															
Given qualifier	<p>Any of the following can be used:</p> <table border="1" data-bbox="586 1320 1013 1549"> <thead> <tr> <th><u>Code</u></th> <th><u>Description</u></th> </tr> </thead> <tbody> <tr> <td>CL</td> <td>callme</td> </tr> <tr> <td>SP</td> <td>spouse</td> </tr> <tr> <td>AD</td> <td>Adopted</td> </tr> <tr> <td>BR</td> <td>Birth</td> </tr> </tbody> </table>	<u>Code</u>	<u>Description</u>	CL	callme	SP	spouse	AD	Adopted	BR	Birth	HL7 v3 - Datatypes				
<u>Code</u>	<u>Description</u>															
CL	callme															
SP	spouse															
AD	Adopted															
BR	Birth															

Family qualifier	<p>Any of the following can be used:</p> <table border="1" data-bbox="586 331 1019 562"> <thead> <tr> <th><u>Code</u></th> <th><u>Description</u></th> </tr> </thead> <tbody> <tr> <td>BR</td> <td>birth</td> </tr> <tr> <td>CL</td> <td>Callme</td> </tr> <tr> <td>SP</td> <td>Spouse</td> </tr> <tr> <td>AD</td> <td>Adopted</td> </tr> </tbody> </table>	<u>Code</u>	<u>Description</u>	BR	birth	CL	Callme	SP	Spouse	AD	Adopted	HL7 v3 - Datatypes
<u>Code</u>	<u>Description</u>											
BR	birth											
CL	Callme											
SP	Spouse											
AD	Adopted											
Gender Code	<p>Any of the following can be used:</p> <table border="1" data-bbox="586 615 1019 800"> <thead> <tr> <th><u>Code</u></th> <th><u>Description</u></th> </tr> </thead> <tbody> <tr> <td>F</td> <td>Female</td> </tr> <tr> <td>M</td> <td>Male</td> </tr> <tr> <td>UN</td> <td>Undifferentiated</td> </tr> </tbody> </table>	<u>Code</u>	<u>Description</u>	F	Female	M	Male	UN	Undifferentiated	HL7 v3 - AdministrativeGenderCode		
<u>Code</u>	<u>Description</u>											
F	Female											
M	Male											
UN	Undifferentiated											
Birth Time	YYYYMMDD											

3.1.2 UML of recordTarget



3.1.3 XML Sample of the recordTarget

```

<recordTarget typeCode="RCT" contextControlCode="OP">
  <patientRole>
    <id extension="#####"/>
    <addr use="HP">
      <streetAddressLine>15 New Kidney St. </streetAddressLine>
      <city>Richmond</city>
      <state>VA</state>
      <postalCode>22222</postalCode>
    </addr>
    <telecom use="HP" value="tel:+1-703-555-1212"/>
  </patientRole>
</recordTarget>
  
```

```

<telecom use="WP" value="tel:+1-703-555-2323"/>
<patient>
<name use="L">
<given qualifier="CL">Jane</given>
<given qualifier="CL">M</given>
<family qualifier="BR">Snow</family>
</name>
<administrativeGenderCode code="F" displayName="Female" codeSystem="2.16.840.1.113883.5.1"
codeSystemName="HL7 AdministrativeGenderCode"/>
<birthTime value="19610821"/>
</patient>
</patientRole>
</recordTarget>
    
```

3.2 AUTHENTICATOR

The Authenticator section is a **required if known** section by Social Security Administration.

Description of Section: The Authenticator section represents a participant who has attested to the accuracy of the document, but who does not have privileges to legally authenticate the document.

Authenticator Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Type Code	ClinicalDocument/Authenticator/@typeCode	R	R
Time	ClinicalDocument/Authenticator/time/@value	R	R
Signature Code	ClinicalDocument/Authenticator/@signatureCode	R	R

3.2.1 Content of Authenticator

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>		
Type Code	Any of the following can be used: <table border="1" style="margin-left: 20px;"> <tr> <td>Code</td> <td>Description</td> </tr> </table>	Code	Description	
Code	Description			

	AUTHEN	authenticator	
Time	YYYYMMDDHHMM		
Signature Code	Any of the following can be used:		
	Code	Description	
	S	signed	

3.3 LEGALAUTHENTICATOR

The legalAuthenticator section is a **required if known** section by Social Security Administration.

Description of Section: The legalAuthenticator represents a participant who has legally authenticated the document.

legalAuthenticator Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Type Code	ClinicalDocument/legalAuthenticator/@typeCode	R	R
Context Control Code	ClinicalDocument/legalAuthenticator/@contextControlCode	R	R
Time	ClinicalDocument/legalAuthenticator/time/@value	R	R
Signature Code	ClinicalDocument/legalAuthenticator/@signatureCode	R	R

3.3.1 Content of legalAuthenticator

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>				
Type Code	Any of the following can be used: <table border="1"> <tr> <td>Code</td> <td>Description</td> </tr> <tr> <td>LA</td> <td>Legal authenticator</td> </tr> </table>	Code	Description	LA	Legal authenticator	
Code	Description					
LA	Legal authenticator					
Context Control Code	OP					
Time	YYYYMMDDHHMM					

Signature Code	Any of the following can be used:	
	Code	Description
	S	signed

3.4 AUTHOR

The author section is a **required** section by the CCD standards.

Description of Section: The author element represents the creator (human and/or machines) of the document. *CDA r2 note:* Represents a participant who has attested to the accuracy of the document, but who does not have privileges to legally authenticate the document.

author Table

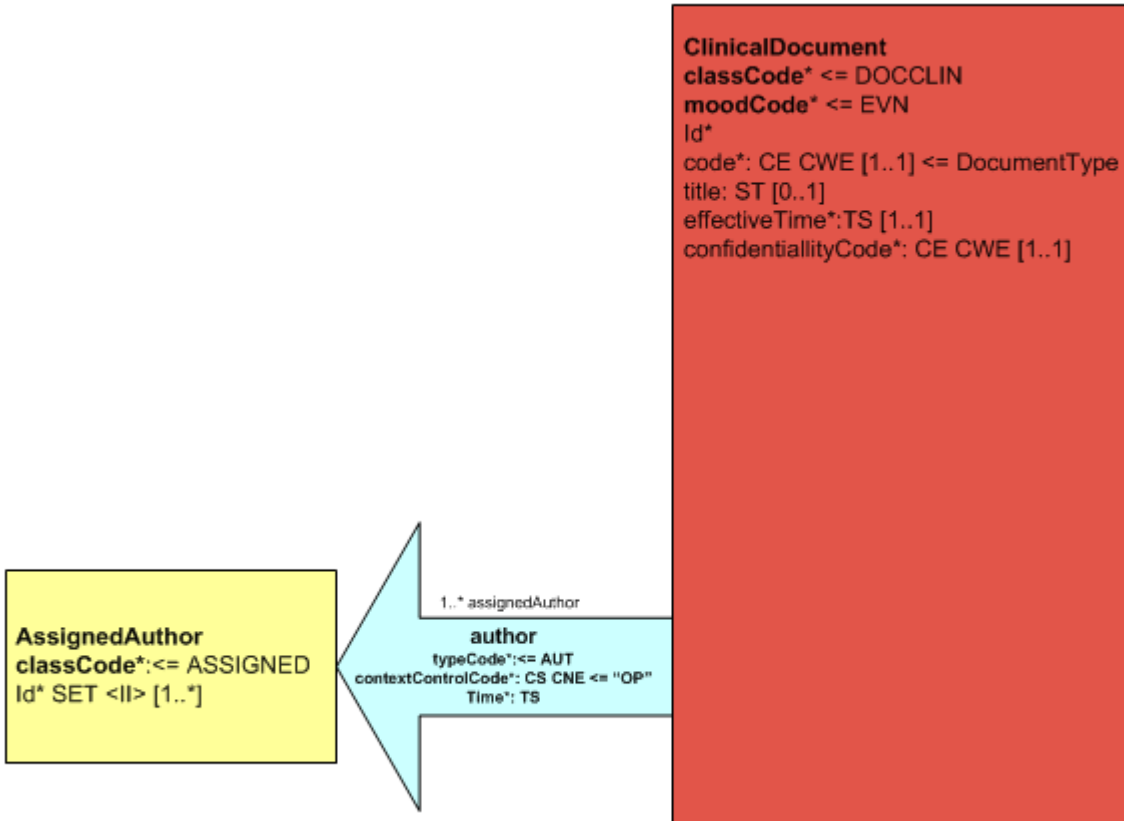
<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Type Code	<code>ClinicalDocument/author/@typeCode</code>	R	R
Time	<code>ClinicalDocument/author/time/@value</code>	R	R
ClinicalDocument/author/			
Assigned Author	<code>assignedAuthor</code>	R	R
Class code	<code>assignedAuthor/classCode</code>	R	R
Id	<code>assignedAuthor/id</code>	R	R
address	<code>assignedAuthor/addr</code>	O	R2
Telephone Use	<code>assignedAuthor/telecom/@use</code>	O	R2
Telephone Number	<code>assignedAuthor/telecom/@value</code>	O	R2
Name of Person	<code>assignedAuthor/assignedPerson/name</code>	O	R2
Represented Organization Id	<code>assignedAuthor/representedOrganization/id@root</code>	O	R2
Represented Organization Name	<code>assignedAuthor/representedOrganization/name</code>	O	R2

3.4.1 Content of author

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>												
Type Code	AUT													
Time	YYYYMMDDHHMM													
Telephone Use	Any of the following can be used: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th style="background-color: #d9ead3;">Code</th> <th style="background-color: #d9ead3;">Description</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>home address</td> </tr> <tr> <td>HP</td> <td>primary home</td> </tr> <tr> <td>WP</td> <td>work place</td> </tr> <tr> <td>HV</td> <td>vacation home</td> </tr> <tr> <td>MC</td> <td>Mobile contact</td> </tr> </tbody> </table>	Code	Description	H	home address	HP	primary home	WP	work place	HV	vacation home	MC	Mobile contact	HL7 v3 – Datatypes
Code	Description													
H	home address													
HP	primary home													
WP	work place													
HV	vacation home													
MC	Mobile contact													
Represented Organizaton Id	X.XX.XXX.X.XXXXXX.X.XXX													

3.4.2 UML of author



3.4.3 XML Sample of the author

```

<author>
<time value="20080731142500"/>
<assignedAuthor>
<id root="2.16.840.1.113883.4.6.1013905751"/>
<addr>
<streetAddressLine>612 Wharf Ave.</streetAddressLine>
<city>Fairfax</city>
<state>VA</state>
<postalCode>20151</postalCode>
</addr>
<telecom use="HP" value="tel:+1-703-555-0033"/>
<assignedPerson>
<name>

```

```

<prefix>Dr.</prefix>
<given>John</given>
<family>Lee</family>
</name>
</assignedPerson>
<representedOrganization>
<id root="2.16.840.1.113883.X.XXX"/>
<name>Hospital Name</name>
</representedOrganization>
</assignedAuthor>
</author>

```

3.5 CUSTODIAN

The custodian section is a **Required** section by the CCD standards.

Description of Section: The custodian element represents the organization that is in charge of maintaining the document.

Custodian Table

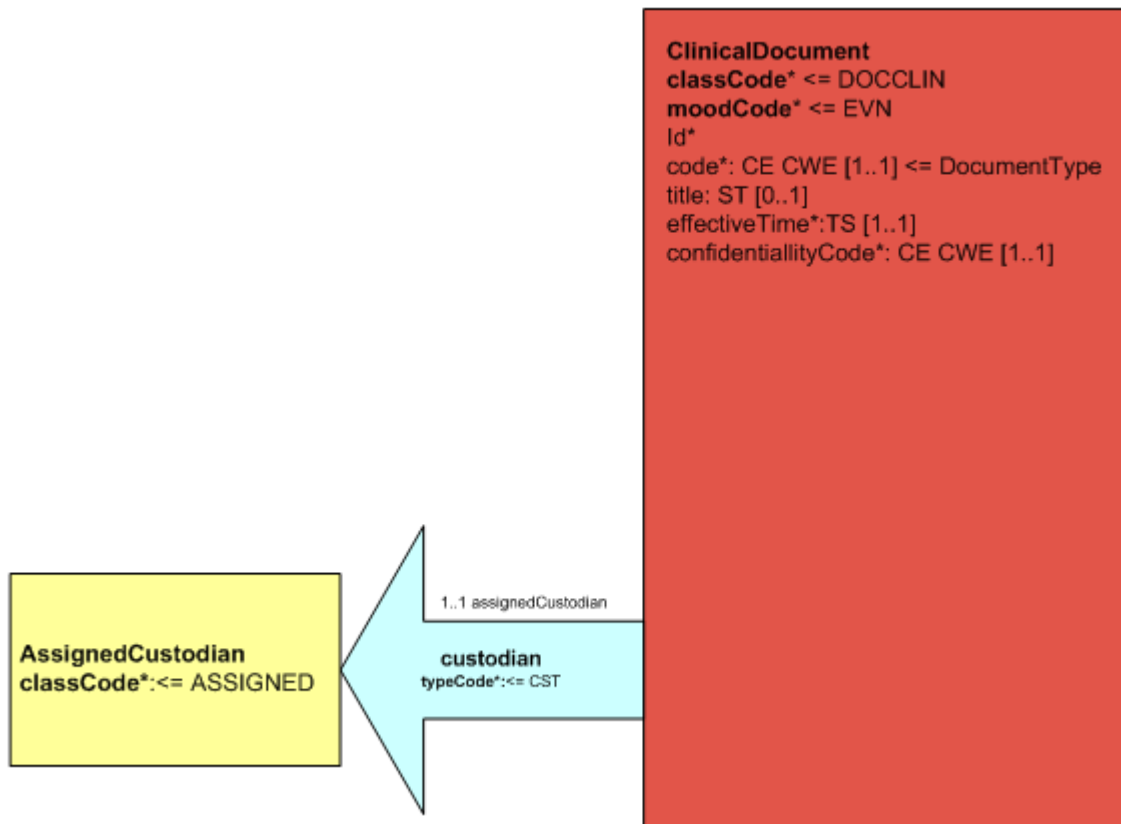
<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
custodian	ClinicalDocument/custodian/	R	R
Type Code	ClinicalDocument/custodian/@typeCode	R	R
Assigned Custodian	ClinicalDocument/custodian/assignedCustodian	R	R
class Code	ClinicalDocument/custodian/assignedCustodian/@classCode	R	R
Class Code	ClinicalDocument/custodian/representedCustodianOrganization/@classCode	R	R
Determiner Code	ClinicalDocument/custodian/representedCustodianOrganization/@determinerCode	R	R
OID of Facility	ClinicalDocument/custodian/representedCustodianOrganization/id/@root	R	R
Name of Facility	ClinicalDocument/custodian/representedCustodianOrganization/name	O	R2
Telephone	ClinicalDocument/custodian/representedCustodianOrganization/telecom	O	R2
Address	ClinicalDocument/custodian/representedCustodianOrganization/addr	O	R2

3.5.1 Content of custodian

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>
OID of Facility	x.xx.xxx.x.xxxxxx.x.xxx	http://www.hl7.org/oid/index.cfm

3.5.2 URL of custodian



3.5.3 XML Sample of the custodian

```

<custodian>
<assignedCustodian>
<representedCustodianOrganization>
    
```

```
<id root="2.16.840.1.113883.X.X.XXXX"/>
<name>Smith Medical Center</name>
</representedCustodianOrganization>
</assignedCustodian>
</custodian>
```

3.6 PARTICIPANT

The participant section is a **Required** section by the CCD standards.

Participant Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Type Code	ClinicalDocument/participant/@typeCode		R
templateId	ClinicalDocument/participant/templateId/@root		R
ClinicalDocument/participant/associatedEntity/			
class Code	@classCode		R
Code code	code/@code		R
Display Name	code/@displayName		R
Code system	code/@codeSystem		R
Code System Name	code/@codeSystemName		R
Address use	addr/@use		R
Address	addr		R
Telephone use	telecom/@use		R
Telephone #	telecom/@value		R
associatedPerson	associatedPerson/name		R

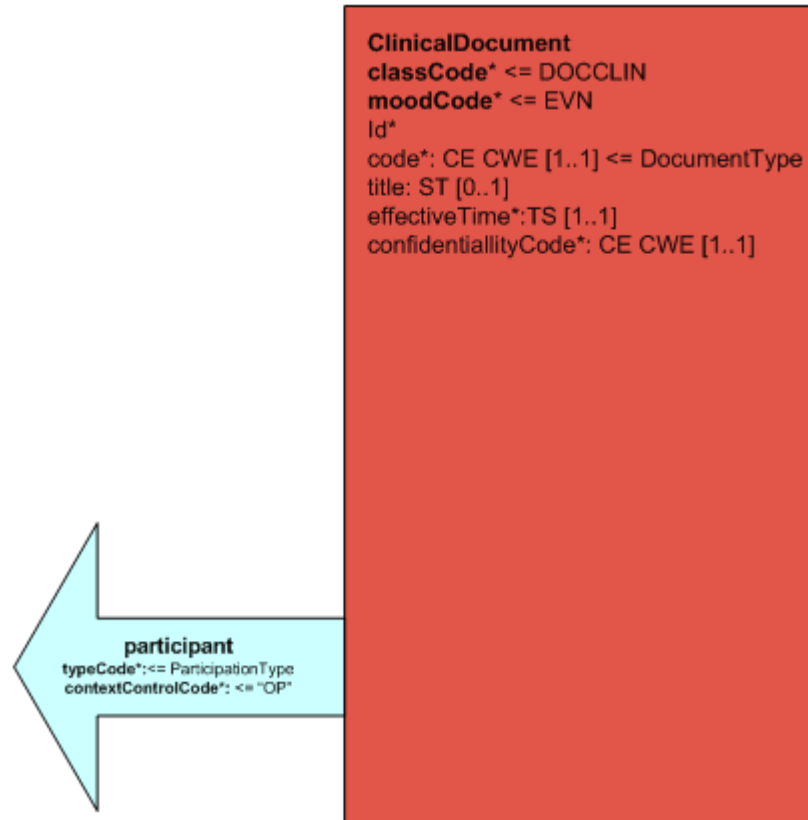
3.6.1 Content of participant

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>
-------------------	-----------------------	------------------

Type Code	“see document in Reference column for possible values”	HL7 v3 ParticipationType												
Template ID	2.16.840.1.113883.3.88.11.32.3													
ClinicalDocument/participant/associatedEntity/														
class Code	Any of the following can be used:	HL7 v3 RoleClass												
	<table border="1"> <thead> <tr> <th>class Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>PRS</td> <td>Personal relationship</td> </tr> </tbody> </table>	class Code	Description	PRS	Personal relationship									
class Code	Description													
PRS	Personal relationship													
Code Display Name	“see document in Reference column for possible values”	HL7 v3 RoleCode												
Code system	2.16.840.1.113883.5.111													
Code System Name	HL7 RoleCode													
Address use	Any of the following can be used:	HL7 v3 datatypes												
	<table border="1"> <thead> <tr> <th>Use Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>home address</td> </tr> <tr> <td>HP</td> <td>primary home</td> </tr> <tr> <td>WP</td> <td>work place</td> </tr> <tr> <td>HV</td> <td>vacation home</td> </tr> </tbody> </table>	Use Code	Description	H	home address	HP	primary home	WP	work place	HV	vacation home			
Use Code	Description													
H	home address													
HP	primary home													
WP	work place													
HV	vacation home													
Telephone use	Any of the following can be used:	HL7 v3 datatypes												
	<table border="1"> <thead> <tr> <th>Use Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>home address</td> </tr> <tr> <td>HP</td> <td>primary home</td> </tr> <tr> <td>WP</td> <td>work place</td> </tr> <tr> <td>HV</td> <td>vacation home</td> </tr> <tr> <td>MC</td> <td>Mobile contact</td> </tr> </tbody> </table>	Use Code	Description	H	home address	HP	primary home	WP	work place	HV	vacation home	MC	Mobile contact	
Use Code	Description													
H	home address													
HP	primary home													
WP	work place													
HV	vacation home													
MC	Mobile contact													

3.6.2 URL of participant



3.6.3 XML Sample of the participant

```
<participant typeCode="IND" contextControlCode="OP">
<templateId root="2.16.840.1.113883.3.88.11.32.3"/>
<time/>
<associatedEntity classCode="PRS">
<code code="DAU" displayName="Daughter" codeSystem="2.16.840.1.113883.5.111"
codeSystemName="HL7 RoleCode"/>
<addr use="HP">
<streetAddressLine>612 Wharf Ave.</streetAddressLine>
<city>Fairfax</city>
<state>VA</state>
<postalCode>20151</postalCode>
</addr>
<telecom use="HP" value="tel:+1-703-555-0033"/>
```

```

<telecom use="WP" value="tel:+1-703-555-3434"/>
<telecom value="mailto:Janet_Snow@email.com"/>
<associatedPerson>
<name>
<given>Janet</given>
<family>Snow</family>
<suffix/>
</name>
</associatedPerson>
</associatedEntity>
</participant>
    
```

3.7 DOCUMENTATIONOF

The documentationOf section is a **required** section by the CCD standards. **Note:** SSA would like to view multiple performer elements during the testing phase in order to validate that several physicians can be sent in the xml payload.

Description of Section: The documentationOf section provides documentation of an episode of care where main service event is Care Provision. The DocumentationOf section contains the healthcare providers involved in the current or pertinent historical care of the patient and/or claimant.

documentationOf Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
class Code	ClinicalDocument/documentationOf/serviceEvent/@classCode	R	R
Mood Code	ClinicalDocument/documentationOf/serviceEvent/@moodCode	R	R
Duration of Care Date – Low	ClinicalDocument/documentationOf/serviceEvent/effectiveTime/low	O	R2
Duration of Care Date - High	ClinicalDocument/documentationOf/serviceEvent/effectiveTime/high	O	R2
ClinicalDocument/documentationOf/serviceEvent/performer/			
Type Code	@typeCode	R	R
templateId root	templateId/@root		R2
Provider Role coded	functionCode/@code	O	R2
fuctionCode display Name	functionCode/@displayName	O	R2

functionCode code System	functionCode/@codeSystem	O	R2
functionCode code System Name	functionCode/@codeSystemName	O	R2
Time (low)	time/low/@value	O	R2
Time (high)	time/high/@value	O	R2
ClinicalDocument/documentationOf/performer/assignedEntity/			
assignedEntity		O	R2
Provider ID root	id/@root	R	R
Provider ID ext.	Id/@extension	R	R
assignedEntity code	code/@code	R	R
assignedEntity display Name	code/@displayName	R	R
assignedEntity code System	code/@codeSystem	R	R
assignedEntity code System Name	code/@codeSystemName	R	R
Physician's name	assignedPerson/name	R2	R2
Organization id	representedOrganization documentationOf/id/@root	R2	R2
Organization name	representedOrganization/@name	R2	R2
Address use	addr/@use	R2	R2
Address	addr	R2	R2
Telephone use	telecom/@use	R2	R2
Telephone #	telecom/@value	R2	R2
Name	assignedPerson/name		R2
Represented Org. ID	representedOrganization/id/@root		R2
Represented Org.	representedOrganization/name		R2
Patient unique id	sdtc:patient/sdtc:id/@root		R2
Patient unique #	sdtc:patient/sdtc:id/@extension	R2	R2

3.7.1 Content of documentOf

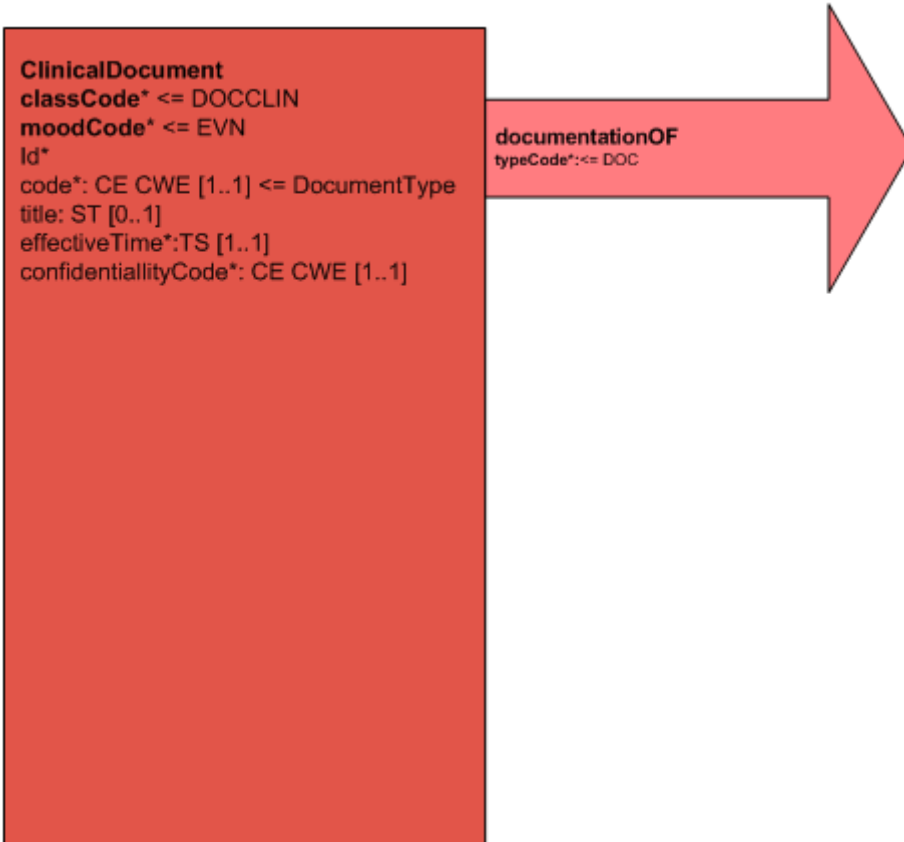
This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to

access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>SSA Needed Content Values</u>	<u>Reference Documents</u>				
Service Event class Code	Any of the following can be used: <table border="1"> <thead> <tr> <th>class code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>PCPR</td> <td>Act that of taking on whole or partial responsibility</td> </tr> </tbody> </table>	class code	Description	PCPR	Act that of taking on whole or partial responsibility	HL7 v3 - ActClass
class code	Description					
PCPR	Act that of taking on whole or partial responsibility					
Duration of Care Date – Low	YYYYMMDD					
Duration of Care Date - High	YYYYMMDD					
ClinicalDocument/documentationOf/performer/						
Type Code	Any of the following can be used: <table border="1"> <thead> <tr> <th>Type Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>PRF</td> <td>Performer - A person, non-person living subject, organization or device that who actually and principally carries out the action.</td> </tr> </tbody> </table>	Type Code	Description	PRF	Performer - A person, non-person living subject, organization or device that who actually and principally carries out the action.	HL7 v3 - ParticipationType
Type Code	Description					
PRF	Performer - A person, non-person living subject, organization or device that who actually and principally carries out the action.					
templateId root	2.16.840.1.113883.3.88.11.32.4	C32 Module TemplateId				
Provider Role coded	PP	HL7 v3 - ParticipationType				
functionCode code System	2.16.840.1.113883.12.443	Provider Role OID				
functionCode code System Name	Provider Role	HL7 v3 - ProviderCodes				
fuctionCode display Name	Primary Care Provider					
ClinicalDocument/documentationOf/performer/assignedEntity/						
Provider ID root	2.16.840.1.113883.x.x.xxxxxxxxxx					
Provider ID ext.	Provider ID					
assignedEntity code	“see document in Reference column for possible values”	HL7 v3 - ProviderCodes				
assignedEntity code System	2.16.840.1.113883.6.101					

AssignedEntity code System Name	ProviderCodes													
assignedEntity code display Name	“see document in Reference column for possible values”	HL7 v3 – ProviderCodes												
address use	<p>Any of the following can be used:</p> <table border="1"> <thead> <tr> <th>Use code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>home address</td> </tr> <tr> <td>HP</td> <td>primary home</td> </tr> <tr> <td>WP</td> <td>work place</td> </tr> <tr> <td>HV</td> <td>vacation home</td> </tr> </tbody> </table>	Use code	Description	H	home address	HP	primary home	WP	work place	HV	vacation home			
Use code	Description													
H	home address													
HP	primary home													
WP	work place													
HV	vacation home													
telephone use	<p>Any of the following can be used:</p> <table border="1"> <thead> <tr> <th>Use Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>home address</td> </tr> <tr> <td>HP</td> <td>primary home</td> </tr> <tr> <td>WP</td> <td>work place</td> </tr> <tr> <td>HV</td> <td>vacation home</td> </tr> <tr> <td>MC</td> <td>Mobile contact</td> </tr> </tbody> </table>	Use Code	Description	H	home address	HP	primary home	WP	work place	HV	vacation home	MC	Mobile contact	
Use Code	Description													
H	home address													
HP	primary home													
WP	work place													
HV	vacation home													
MC	Mobile contact													

3.7.2 URL of documentationOf



3.7.3 XML Sample of the documentationOf

```
<documentationOf>
<serviceEvent classCode="PCPR">
<effectiveTime>
<low value="20000101"/>
<high value="20080731"/>
</effectiveTime>
<performer typeCode="PRF">
<templateId root="2.16.840.1.113883.3.88.11.32.4"/>
<functionCode code="PP" displayName="Primary Care Provider"
codeSystem="2.16.840.1.113883.12.443" codeSystemName="Provider Role">
<originalText>Primary Care Provider</originalText>
</functionCode>
```

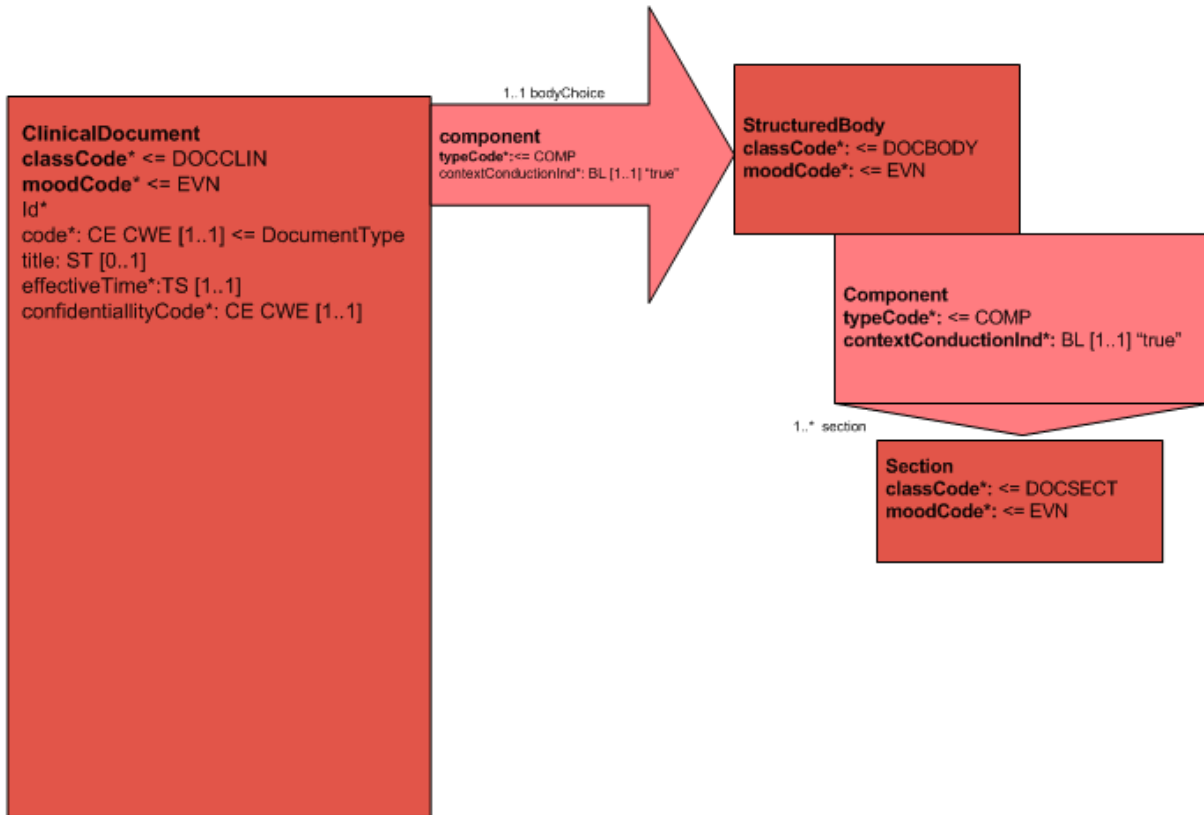
```
<time>
<low value="20020101"/>
<high nullFlavor="UNK"/>
</time>
<assignedEntity>
<id root="2.16.840.1.113883.4.6.1013905751" extension="Provider ID"/>
<code code="280000000X" displayName="Hospitals"
codeSystem="2.16.840.1.113883.6.101" codeSystemName="ProviderCodes"/>
<addr use="WP">
<streetAddressLine>10 St. Sample Boulevard</streetAddressLine>
<city>Example</city>
<state>VA</state>
<postalCode>11111</postalCode>
</addr>
<addr use="WP">
<streetAddressLine>123 West Cove Alley</streetAddressLine>
<streetAddressLine>Suite #22</streetAddressLine>
<city>Richmond</city>
<state>VA</state>
<postalCode>11111</postalCode>
</addr>
<telecom use="WP" value="tel:+1-888-555-1111"/>
<telecom value="mailto:H.Cohen.MD@SFMC.com"/>
<assignedPerson>
<name>
<prefix>Dr.</prefix>
<given>Harry</given>
<given>R</given>
<family>Cohen</family>
</name>
</assignedPerson>
<representedOrganization>
<id root="2.16.840.1.113883.4.6.2649871"/>
<name>St. George Medical Center</name>
</representedOrganization>
<sdtc:patient>
<sdtc:id root="78A150ED-B890-49dc-B716-5EC0027B3983" extension="11224433"/>
```

```
</sdtc:patient>  
</assignedEntity>  
</performer>  
</serviceEvent>  
</documentationOf>
```


4.0 Continuity of Care Document Sections

Each section listed below is an **Optional** section per the CCD documentation. The Social Security Administration would like the Healthcare Partner to review each section to see SSA’s priority of each listed section. However, priority (**R, R2, O**) hierarchy under the Continuity of Care Document Sections is as follows: section, element, attribute.

4.1.1 URL of Sections



4.2 ADVANCE DIRECTIVE MODULE

The Advance Directive section is a **Required if Known – (R2)** section by the Social Security Administration.

Section Description: The Advance Directive section contains data defining the patient’s advance directives and any reference to supporting documentation. The most recent and up-to-date directives are required, if known, and should be listed in as much detail as possible.

Advance Directive Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Section templateId	/component/section/templateId/@root	R2	R2
code	/component/code/@code	R	R
component/section/			
Section displayName	code/@displayName	R	R
Vocabulary OID	code/@codeSystem		R2
Code System Name	code/@codeSystemName		R2
Title	title		R2
Content ID	content/@ID		R2
Text	content		R2
Entry Type Code	entry/@typeCode		R2
component/section/entry/observation/			
Observation Class Code	@classCode		R2
Observation Mood code	@moodCode		R2
Advance Directive templatedID	templateId/@root		R2
Observation Id Root	id/@root		R2
Observation code	code/@code		R2
Observation Display Name	code/@displayName		R2
Observation Code system	code/@codeSystem		R2
Observation Code system name	code/@codeSystemName		R2
originalText reference value	code/originalText/refence/@value		R2

Observation effective Time	effectiveTime		R2
Value type	Value/@xsi:type		R2
Value code	value/@code		R2
Value display Name	value/@displayName		R2
Observation value xsi:type	value/@xsi:type		R2
Value Code System	value/@codeSystem		R2
Value Code system Name	value/@codeSystemName		R2
Observation status code	statusCode/@code		R2
component/section/entry/observation/participant/			
Observation Participant type Code	@typeCode		R2
component/section/entry/observation/participant/participantRole/			
class code	@classCode		R2
Participant	playingEntity/name		R2
Address use	addr/@use		R2
Address	addr		R2
Telecom use	telecom/@use		R2
Telephone Number	telecom		R2
component/section/entry/observation/participant/participantRole/playingEntity/			
PlayingEntity Name	Name		R2

4.2.1 Content of Advance directives

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>
Section templateId	2.16.840.1.113883.10.20.1.1	

LOINC Code	42348-3					
Section displayName	Advance directives					
Vocabulary OID	2.16.840.1.113883.6.1	http://www.hl7.org/oid/index.cfm				
Code System Name	LOINC					
title	Advance Directives					
Content ID	Direct-x	Reference of ID of Direct-1 to advance directive reference-value				
Text	Advance Directive Text					
component/section/entry/						
Entry Type Code	Any of the following can be used: <table border="1" data-bbox="581 779 1005 873"> <thead> <tr> <th>Use Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DRIV</td> <td>Is derived from</td> </tr> </tbody> </table>	Use Code	Description	DRIV	Is derived from	HL7v3 – ActRelationshipType
Use Code	Description					
DRIV	Is derived from					
component/section/entry/observation/						
Observation Class Code	Any of the following can be used: <table border="1" data-bbox="581 1020 1005 1251"> <thead> <tr> <th>mood code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>OBS</td> <td>An act that is intended to result in new information about a subject.</td> </tr> </tbody> </table>	mood code	Description	OBS	An act that is intended to result in new information about a subject.	HL7 v3 – ActClass
mood code	Description					
OBS	An act that is intended to result in new information about a subject.					
Observation Mood code	Any of the following can be used: <table border="1" data-bbox="581 1388 1005 1482"> <thead> <tr> <th>mood code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>EVN</td> <td>Event</td> </tr> </tbody> </table>	mood code	Description	EVN	Event	HL7 v3 – ActMood
mood code	Description					
EVN	Event					
CCD v1.0 - Advance Directive templateId	2.16.840.1.113883.10.20.1.17					
Observation Id Root						
Observation code	Any of the following can be used:	SNOMED CT				

Observation displayName	Code	displayName	
	304251008	Resuscitation	
	52765003	Intubation	
	225204009	IV Fluid and Support	
	89666000	CPR	
	281789004	Antibiotics	
	78823007	Life Support	
	61420007	Tube Feedings	
	116859006	Transfusion of blood product	
	71388002	Other Directive	
Vocabulary OID	2.16.840.1.113883.6.96		
Observation code System Name	SNOMED CT		
component/section/entry/observation/code			
originalText reference value	#Direct-x		
component/section/entry/observation/			
Observation status code	Any of the following can be used:		
	Code	Display Name	
	completed	Completed	
	aborted	Aborted	
	active	Active	
	cancelled	Cancelled	
	held	Held	
	suspended	Suspended	
Observation effective Time - low	YYYYMMDD		

Observation effective Time - high	YYYYMMDD or UNK											
Value type	Any of the following can be used: <table border="1"> <thead> <tr> <th>type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>CD</td> <td>Concept Descriptor</td> </tr> <tr> <td>CS</td> <td>Coded Simple Value</td> </tr> <tr> <td>CO</td> <td>Coded Ordinal</td> </tr> <tr> <td>CE</td> <td>Coded With Equivalents</td> </tr> </tbody> </table>	type	Description	CD	Concept Descriptor	CS	Coded Simple Value	CO	Coded Ordinal	CE	Coded With Equivalents	HL7 v3 - datatypes
type	Description											
CD	Concept Descriptor											
CS	Coded Simple Value											
CO	Coded Ordinal											
CE	Coded With Equivalents											
Value code	Any of the following can be used: <table border="1"> <thead> <tr> <th>Value code</th> <th>Display Name</th> </tr> </thead> <tbody> <tr> <td>304253006</td> <td>Do Not Resuscitate</td> </tr> </tbody> </table>	Value code	Display Name	304253006	Do Not Resuscitate							
Value code	Display Name											
304253006	Do Not Resuscitate											
Value display Name												
Value code system	2.16.840.1.113883.6.96											
Value code system name	SNOMED CT											
component/section/entry/observation/participant												
Observation Participant type Code	“see document in Reference column for possible values”	HL7 v3 – ParticipationType										
component/section/entry/observation/participant/participantRole												
class code	“see document in Reference column for possible values”	HL7 v3 - RoleClass										

Address use	Any of the following can be used: <table border="1" data-bbox="581 378 1006 604"> <thead> <tr> <th>Use code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>home address</td> </tr> <tr> <td>HP</td> <td>primary home</td> </tr> <tr> <td>WP</td> <td>work place</td> </tr> <tr> <td>HV</td> <td>vacation home</td> </tr> </tbody> </table>	Use code	Description	H	home address	HP	primary home	WP	work place	HV	vacation home	HL7 v3 - datatypes		
Use code	Description													
H	home address													
HP	primary home													
WP	work place													
HV	vacation home													
Telephone use	Any of the following can be used: <table border="1" data-bbox="581 714 1006 982"> <thead> <tr> <th>Use code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>home address</td> </tr> <tr> <td>HP</td> <td>primary home</td> </tr> <tr> <td>WP</td> <td>work place</td> </tr> <tr> <td>HV</td> <td>vacation home</td> </tr> <tr> <td>MC</td> <td>Mobile contact</td> </tr> </tbody> </table>	Use code	Description	H	home address	HP	primary home	WP	work place	HV	vacation home	MC	Mobile contact	HL7 v3 – datatypes
Use code	Description													
H	home address													
HP	primary home													
WP	work place													
HV	vacation home													
MC	Mobile contact													
component/section/entry/observation/participantRole/playingEntity/name														
PlayingEntity Name	EmilyX. Green													

4.2.2 XML Sample of the Advance directives

```

<component>
<section>
<templateId root="2.16.840.1.113883.10.20.1.1"/>
<code code="42348-3" displayName="Advance directives"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<title>Advance Directives</title>
<text>
<content ID="Direct-1">Herein I, Jane Mertle Snow write this document as a
directive regarding my medical care. In the following sections, put the initials of
your name in the blank spaces by the choices you want. PART 1. My Durable Power
of Attorney for Health Care _SMT_ I appoint this person to make decisions about
my medical care if there ever comes a time when I cannot make those decisions
myself. I want the person I have appointed, my doctors, my family and others to
be guided by the decisions I have made in the parts of the form that follow. Name:

```

Sarah Marie Thompson/Daughter Home telephone:301-555-1415 Work telephone: 301-555-1514 Address: 12 East Main New Market, MD 21774 If the person above cannot or will not make decisions for me, I appoint this person: Name: Bradley John Snow/Son Home telephone: 301-555-6677 Work telephone: 301-666-4545 Address: 3453 Hallow Way Baltimore, MD </content>

</text>

<entry typeCode="DRIV">

<observation classCode="OBS" moodCode="EVN">

<templateId root="2.16.840.1.113883.10.20.1.17"/>

<id root="ec78a751-5994-4910-ada5-ef402937837d"/>

<code code="304251008" displayName="Resuscitation"

codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT">

<originalText>

<reference value="#Direct-1"/>

</originalText>

</code>

<statusCode code="completed"/>

<effectiveTime>

<low value="20050101"/>

<high nullFlavor="UNK"/>

</effectiveTime>

<value xsi:type="CD" code="304253006" displayName="Do Not Resuscitate"

codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>

<participant typeCode="CST">

<participantRole classCode="AGNT">

<addr use="">

<streetAddressLine/>

<city/>

<state/>

<postalCode/>

</addr>

<telecom use="HP" value="tel:+1-301-555-1234"/>

<playingEntity>

<name>

<given>Emily</given>

<given>X.</given>

<family>Green</family>


```

<suffix/>
</name>
</playingEntity>
</participantRole>
</participant>
<entryRelationship typeCode="REFR">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.37"/>
<code code="33999-4" displayName="Status" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<statusCode code="completed"/>
<value xsi:type="CE" code="425392003" displayName="Current and Verified"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
</observation>
</entryRelationship>
</observation>
</entry>
</section>
</component>

```

4.3 FUNCTIONAL STATUS

The Functional Status section is a **Required if Known – (R2)** section by the Social Security Administration. **Note:** SSA would like to view multiple component elements during the testing phase in order to validate that several functional status that can be sent in the xml payload.

Section Description: The Functional Status section describes the patient’s status of normal functioning at the time the CCD was created.

Functional Status Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Section templateId	/component/section/templateId/@root	O	R2
LOINC Code	/component/code/@code	R	R
Section display Name	/component/section/displayName/@displayName	R	R
Vocabulary OID	/component/section/displayName/@codeSystem		R2
Code System Name	/component/section/displayName/@codeSystemName		R2
Title	/ component/section/title		R2

component/section/entry/organizer/			
Class code	@classCode		R2
Mood Code	@moodCode		R2
templateId	templateID/@root		R2
Id	id/@root		R2
Code	code/@code		R2
Display Name	code/@displayName		R2
Code System	code/@codeSystem		R2
Code system Name	code/@codeSystemName		R2
Status code	statusCode/@code		R2
/organizer/component/observation/			
Class Code	@classCode		R2
moodCode	@moodCode		R2
templateId	templatedId/@root		R2
Id	id		R2
Code	code/@code		R2
Display name	code@displayName		R2
Code system	code/@codeSystem		R2
Code system Name	code/@codeSystemName		R2
Status code	statusCode/@code		R2
effectiveTime	effectiveTime		R2
Value	value		R2
Reference Range	referenceRange/observationRange		R2
/component/section/entry/act/			
Class code	@classCode		R2
moodCode	@moodCode		R2
templateId	templateId/@root		R2
Id	id/@root		R2
Code	code/@nullFlavor		R2
Performer	performer/@typeCode		R2
Time	performer/time		R2
assignedEntity	performer/assignedEntity		R2
id	performer/assignedEntity/id		R2

Code	performer/assignedEntity/code/@code		R2
Addr	performer/assignedEntity/addr		R2
Telecom	performer/assignedEntity/telecom		R2
Assigned Person	performer/assignedEntity/assignedPerson/name		R2
Id	performer/assignedEntity/representedOrganization/id/@root		R2
Org. name	performer/assignedEntity/representedOrganization/name		R2
Entry Relationship	entryRelationship/@typeCode		R2
component/section/entry/act/entryRelationship/observation/			
Class code	@classCode		R2
Mood code	@moodCode		R2
templateId	templateId/@root		R2
Code	code/@code		R2
Displayname	code/@displayName		R2
codeSystem	code/@codeSystem		R2
Code System Name	code/@codeSystemName		R2
Status code	statusCode		R2
effectiveTime	effectiveTime		R2
Value code	value/@code		R2
Display Name	value/@displayName		R2
Code System	value/@codeSystem		R2
codeSystemName	value/@codeSystemName		R2
Value	value/@code		R2
Display Name	value/@displayName		R2
Code System	value/@codeSystem		R2
Code system name	value/@codeSystemName		R2

4.3.1 Content of Functional Status

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>
Section templateId	2.16.840.1.113883.10.20.1.5	

LOINC Code	47420-5													
Section display Name	Functional status assessment													
Vocabulary OID	2.16.840.1.113883.6.1	http://www.hl7.org/oid/index.cfm												
Code System Name	LOINC													
Title	Functional Status													
component/section/entry/organizer/														
Class code	Any of the following can be used: <table border="1"> <thead> <tr> <th>Class Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>BATTERY</td> <td>A battery specifies a set of observations.</td> </tr> </tbody> </table>	Class Code	Description	BATTERY	A battery specifies a set of observations.	HL7 v3 ActClass								
Class Code	Description													
BATTERY	A battery specifies a set of observations.													
Mood Code	Any of the following can be used: <table border="1"> <thead> <tr> <th>mood code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>EVN</td> <td>Event</td> </tr> </tbody> </table>	mood code	Description	EVN	Event	HL7 v3 – ActMood								
mood code	Description													
EVN	Event													
CCD Result Organizer templateId	2.16.840.1.113883.10.20.1.32													
Organizer code Organizer Display Name	Any of the following can be used: <table border="1"> <thead> <tr> <th>Code</th> <th>Display Name</th> </tr> </thead> <tbody> <tr> <td>282097004</td> <td>Ambulatory</td> </tr> <tr> <td>363871006</td> <td>Mental Status</td> </tr> <tr> <td>273547007</td> <td>Activities of Daily Living</td> </tr> <tr> <td>4683004</td> <td>Home/Living Situation</td> </tr> <tr> <td>284773001</td> <td>Ability to Care for Self</td> </tr> </tbody> </table>	Code	Display Name	282097004	Ambulatory	363871006	Mental Status	273547007	Activities of Daily Living	4683004	Home/Living Situation	284773001	Ability to Care for Self	
Code	Display Name													
282097004	Ambulatory													
363871006	Mental Status													
273547007	Activities of Daily Living													
4683004	Home/Living Situation													
284773001	Ability to Care for Self													
Vocabulary OID	2.16.840.1.113883.6.96													
Organizer Code System Name	SNOMED CT													
component/section/entry/organizer/component/observation/														

Class Code	<p>Any of the following can be used:</p> <table border="1" data-bbox="545 378 971 646"> <thead> <tr> <th data-bbox="545 378 743 420">Class code</th> <th data-bbox="743 378 971 420">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="545 420 743 646">OBS</td> <td data-bbox="743 420 971 646">An act that is intended to result in new information about a subject.</td> </tr> </tbody> </table>	Class code	Description	OBS	An act that is intended to result in new information about a subject.	HL7 v3 ActClass
Class code	Description					
OBS	An act that is intended to result in new information about a subject.					
Mood code	<p>Any of the following can be used:</p> <table border="1" data-bbox="545 747 971 840"> <thead> <tr> <th data-bbox="545 747 743 789">mood code</th> <th data-bbox="743 747 971 789">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="545 789 743 840">EVN</td> <td data-bbox="743 789 971 840">Event</td> </tr> </tbody> </table>	mood code	Description	EVN	Event	HL7 v3 – ActMood
mood code	Description					
EVN	Event					
CCD Result Observation templateId	2.16.840.1.113883.10.20.1.31					

4.3.2 XML Sample of the Functional status

```

<component>
<section>
<templateId root="2.16.840.1.113883.10.20.1.5"/>
<code code="47420-5" displayName="Functional status assessment"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<title>Functional Status</title>
<text/>
<entry>
<organizer classCode="BATTERY" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.32"/>
<id root="c6f88322-67ad-11db-bd13-0800200c9a66"/>
<code code=" 273547007 " displayName="Activities of Daily Living (Assesment Scale)"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
<statusCode code="completed"/>
<component>
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.31"/>
<id root="c6f88322-67ad-11db-bd13-2122422a1b00"/>

```

```
<code code="129002005" displayName="Bathing" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT"/>
<statusCode code="completed"/>
<effectiveTime>
<low value="20081002"/>
<high nullFlavor="NA"/>
</effectiveTime>
<value xsi:type="CD" code="Y"/>
<referenceRange>
<observationRange>
<text/>
</observationRange>
</referenceRange>
</observation>
</component>
<component>
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.31"/>
<id root="c6f88322-67ad-11db-bd13-2122422a1b00"/>
<code code="129003000" displayName="Dressing" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT"/>
<statusCode code="completed"/>
<effectiveTime>
<low value="20081002"/>
<high nullFlavor="NA"/>
</effectiveTime>
<value xsi:type="CD" code="Y"/>
<referenceRange>
<observationRange>
<text/>
</observationRange>
</referenceRange>
</observation>
</component>
<component>
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.31"/>
<id root="c6f88322-67ad-11db-bd13-2122422a1b00"/>
```

```

<code code=" 129004006 " displayName="Toileting" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT"/>
<statusCode code="completed"/>
<effectiveTime>
<low value="20081002"/>
<high nullFlavor="NA"/>
</effectiveTime>
<value xsi:type="CD" code="Y"/>
<referenceRange>
<observationRange>
<text/>
</observationRange>
</referenceRange>
</observation>
</component>
<component>
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.31"/>
<id root="c6f88322-67ad-11db-bd13-2122422a1b00"/>
<code code=" 129005007 " displayName="Transferring"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
<statusCode code="completed"/>
<effectiveTime>
<low value="20081002"/>
<high nullFlavor="NA"/>
</effectiveTime>
<value xsi:type="CD" code="Y"/>
<referenceRange>
<observationRange>
<text/>
</observationRange>
</referenceRange>
</observation>
</component>
<component>
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.31"/>
<id root="c6f88322-67ad-11db-bd13-2122422a1b00"/>

```

```
<code code=" 129020001 " displayName="Maintaining continence"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
<statusCode code="completed"/>
<effectiveTime>
<low value="20081002"/>
<high nullFlavor="NA"/>
</effectiveTime>
<value xsi:type="CD" code="Y"/>
<referenceRange>
<observationRange>
<text/>
</observationRange>
</referenceRange>
</observation>
</component>
<component>
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.31"/>
<id root="c6f88322-67ad-11db-bd13-2122422a1b00"/>
<code code=" 129007004 " displayName="Feeding" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT"/>
<statusCode code="completed"/>
<effectiveTime>
<low value="20081002"/>
<high nullFlavor="NA"/>
</effectiveTime>
<value xsi:type="CD" code="Y"/>
<referenceRange>
<observationRange>
<text/>
</observationRange>
</referenceRange>
</observation>
</component>
</organizer>
</entry>
<entry>
```



```
<act classCode="ACT" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.27"/>
<id root="ec8a6ff8-ed4b-4f7e-82c3-e98e11z45de7"/>
<code nullFlavor="NA"/>
<performer typeCode="PRF">
<time>
<low value="20081109"/>
<high value="20070510"/>
</time>
<assignedEntity>
<id root="2.16.840.1.113883.4.6.1013905751" extension="Provider ID"/>
<code code="280000000X" displayName="Hospitals"
codeSystem="2.16.840.1.113883.6.101" codeSystemName="ProviderCodes"/>
<addr use="WP">
<streetAddressLine>33 Medical Way</streetAddressLine>
<streetAddressLine/>
<city>New Market</city>
<state>MA</state>
<postalCode>11111</postalCode>
<country>US</country>
</addr>
<telecom use="WP" value="tel:+1-888-432-1181"/>
<telecom value="mailto:Harry.Cohen.MD@hospitalA.com"/>
<assignedPerson>
<name>
<prefix>Dr.</prefix>
<given>Harry</given>
<given>R</given>
<family>Cohen</family>
</name>
</assignedPerson>
<representedOrganization>
<id root="2.16.840.1.113883.4.6.2649871"/>
<name>St. George Medical Center</name>
</representedOrganization>
</assignedEntity>
</performer>
<entryRelationship typeCode="SUBJ">
```

```

<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.28"/>
<code code="55607006" displayName="Problem" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT"/>
<text/>
<statusCode code="completed"/>
<effectiveTime value="20060609"/>
<value xsi:type="CD" code="228158008" displayName="Walking Disability"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
<entryRelationship typeCode="REFR">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.44"/>
<code code="33999-4" displayName="Status" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<statusCode code="completed"/>
<value xsi:type="CE" code="55561003" displayName="Active"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
</observation>
</entryRelationship>
</observation>
</entryRelationship>
</act>
</entry>
</section>
</component>

```

4.4 SUPPORT MODULE

The Support section is a **Required if Known – (R2)** section by Social Security Administration standards.

Section Description The Support section represents the patient’s sources of support such as immediate family, relatives, and guardian at the time the CCD is generated.

“see recordTarget section”

4.5 PROBLEMS MODULE

The Problems section is a **Required if Known – (R2)** section by Social Security Administration standards. **Note:** SSA would like to view multiple Problems elements during the testing phase in order to validate that several problems can be sent in the xml payload.

Section Description: The Problems section list and describes all relevant clinical problems at the time the summary is generated.

Problems Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Section templateId	templateId/@root	O	R2
LOINC Code	code/@code	R	R
Vocabulary OID	code/@codeSystem	R	R
Display Name	code/@displayName		R2
Code system Name	Code/@codeSystemName		R2
Title	component/section/title		R2
Text ID	component/section/text/content/@ID		R2
Text Content	component/section/text/content		R2
Entry Type Code	entry/@typeCode	R	R
component/section/entry/act/			
classCode	@classCode	R	R
moodCode	@moodCode	R	R
ID	id	R	R
Code	code/@NullFlavor	R	R
Performer Type Code	performer/@typeCode		R2
component/section/entry/act/entryRelationship/observation/			
Code	code@code	R2	
Code System	code@codeSystem	R2	
Code System Name	code@codeSystemName	R2	
Display Name	code@displayName	R2	
Text Reference	Text/reference/@value	R2	
Status Code	statusCode/@code	R	R
Problem Status	value/@xsi:type	R	R
Problem Type	value/@code	R2	R2

Code System	value/@codeSystem		R2
Code system Name	value/@CodeSystemName		R2
Display Name	value/@displayName		R2
Problem Date - low	effectiveTime/low/@value	R2	R2
Problem Date – high	effectiveTime/high/@value	R2	R2
component/section/entry/act/performer/assignedEntity/			
Treating Provider id	Id/@root		R2
Treating Provider Name	assignedPerson/name	O	R2
Represented Org. ID	representedOrganization/id/@root		R2
Represented Org.	representedOrganization/name		R2
MRN	stdc:patient/stdc:id/@extension		R2

4.5.1 Content of Problems

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>
Section templateId	2.16.840.1.113883.10.20.1.11	
LOINC Code	Any of the following can be	

Display Name	used:	
	CODE	Display Name
	11450-4	Problem List
	11348-0	Resolved
	29299-5	Reason for Visit
	10154-3	Chief Complaint
	8646-2	Admission Diagnosis
	11535-2	Discharge Diagnosis
	10219-4	Preoperative Diagnosis
10218-6	Postoperative Diagnosis	
Vocabulary OID	2.16.840.1.113883.6.1	http://www.hl7.org/oid/index.cfm
Code System Name	LOINC	
title	Problems	
Text ID	prob-x	
Text Content	“Text”	
Entry Type Code	Any of the following can be used:	HL7v3 – ActRelationshipType
	Use Code	
	DRIV	Is derived from
component/section/entry/act/		
class Code	Any of the following can be used:	HL7 v3 – ActClass
	class Code	
	ACT	A record of something that is being done, has been done, can be done, or is intended or requested to be

	done.																	
mood Code	Any of the following can be used: <table border="1"> <tr> <th>mood code</th> <th>Description</th> </tr> <tr> <td>EVN</td> <td>Event</td> </tr> </table>	mood code	Description	EVN	Event	HL7 v3 – ActMood												
mood code	Description																	
EVN	Event																	
code	UNK – <u>can not be blank</u>																	
Performer Type Code	Any of the following can be used: <table border="1"> <tr> <th>Type Code</th> <th>Description</th> </tr> <tr> <td>PRF</td> <td>Performer - A person, non-person living subject, organization or device that who actually and principally carries out the action.</td> </tr> </table>	Type Code	Description	PRF	Performer - A person, non-person living subject, organization or device that who actually and principally carries out the action.	HL7 v3 - ParticipationType												
Type Code	Description																	
PRF	Performer - A person, non-person living subject, organization or device that who actually and principally carries out the action.																	
component/section/entry/act/entryRelationship/observation/																		
Code	xxxxxxxxxx	Snomed CT code																
Display Name	Diagnosis																	
Code System	2.16.840.1.113883.6.96																	
Code System Name	SNOMED CT																	
Text reference	#prob-x																	
Status code	Any of the following can be used: <table border="1"> <tr> <th>Code</th> <th>Display Name</th> </tr> <tr> <td>completed</td> <td>Completed</td> </tr> <tr> <td>aborted</td> <td>Aborted</td> </tr> <tr> <td>active</td> <td>Active</td> </tr> <tr> <td>cancelled</td> <td>Cancelled</td> </tr> <tr> <td>held</td> <td>Held</td> </tr> <tr> <td>new</td> <td>New</td> </tr> <tr> <td>suspended</td> <td>Suspended</td> </tr> </table>	Code	Display Name	completed	Completed	aborted	Aborted	active	Active	cancelled	Cancelled	held	Held	new	New	suspended	Suspended	
Code	Display Name																	
completed	Completed																	
aborted	Aborted																	
active	Active																	
cancelled	Cancelled																	
held	Held																	
new	New																	
suspended	Suspended																	

Problem Status	CD	
Problem Type	xxx.x	
Display Name	Logical name	
Code System	2.16.840.1.113883.6.2	
Code System Name	ICD9	
Problem Date – low	YYYYMMDD	
Problem Date – high	YYYYMMDD or UNK	
component/section/entry/act/performer/assignedEntity/		
Treating Provider id	xxxxxxxxxxxxxx...	Number provide by HIE/facility
Treating Provider Name	i.e. Dr. Shirley Jordan	
Represented Org.	i.e. Smith Regional Hospital	
MRN	xxxxxxxxxx...	Number provide by HIE/facility

4.5.2 XML Sample of the Problems

```

<component>
<section>
<templateId root="2.16.840.1.113883.10.20.1.11"></templateId>
<code code="11450-4" displayName="Problem list" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" />
<title>Problem list</title>
<text></text>
<entry typeCode="DRIV">
<act classCode="ACT" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.27" />
<id root="ec8a6ff8-ed4b-4f7e-82c3-e98e58b45de7" />
<code nullFlavor="UNK" />
<performer typeCode="PRF">
<time>
<low value="20060601" />
<high value="20080924" />
</time>
<assignedEntity>
<id root="78A150ED-B890-49dc-B716-5EC0027B3982" extension="ProviderID" />
<code code="280000000X" displayName="Hospitals"
codeSystem="2.16.840.1.113883.6.101" codeSystemName="ProviderCodes" />

```

```
<addr use="WP">
<streetAddressLine>145 Applecross Road</streetAddressLine>
<streetAddressLine></streetAddressLine>
<city>Southern Pines</city>
<state>NC</state>
<postalCode>28388</postalCode>
</addr>
<assignedPerson>
<name>
<prefix>Dr. </prefix>
<given>Shirley</given>
<given />
<family>Jordan</family>
</name>
</assignedPerson>
<representedOrganization>
<name>Southern Pines Women's Health Center</name>
</representedOrganization>
<sdct:patient xmlns:sdct="urn:hl7-org:sdct">
<sdct:id root="78A150ED-ZZ23-49dc-B716-5EC0027B3983" extension="33445566" />
</sdct:patient>
</assignedEntity>
</performer>
<entryRelationship typeCode="SUBJ">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.28" />
<id root="ab1791b0-5c71-11db-b0de-0800200c9a66" />
<code code="282291009" displayName="Diagnosis"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"></code>
<text>
<reference value="#prob-1" />
</text>
<statusCode code="completed" />
<!--Problem Date-->
<effectiveTime>
<low value="20080915" />
<high nullFlavor="UNK" />
</effectiveTime>
<!--Problem Code-->
```



```

<value xsi:type="CD" code="174.0" displayName="Malignant neoplasm of female breast"
codeSystem="2.16.840.1.113883.6.2" codeSystemName="ICD9"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" />
<entryRelationship typeCode="REFR">
<observation classCode="OBS" moodCode="EVN">
<!--20.1.50 = problem status observation 20.1.57 = conformant status observation-->
<templateId root="2.16.840.1.113883.10.20.1.50"></templateId>
<code code="33999-4" displayName="Status" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" />
<statusCode code="completed" />
<value xsi:type="CE" code="55561003" displayName="Active"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" />
</observation>
</entryRelationship>
</observation>
</entryRelationship>
</act>
</entry>
<entry typeCode="DRIV">
<!--Condition Module-->
<act classCode="ACT" moodCode="EVN">
<!--TemplateId 20.1.27 = CCD Problem Act 11.32.7 = C32 Condition Module-->
<templateId root="2.16.840.1.113883.10.20.1.27" />
<id root="ec8a6ff8-ed4b-4f7e-82c3-e98e58b45de7" />
<code nullFlavor="NA" />
<!--Primary Care Physician-->
<performer typeCode="PRF">
<time>
<low value="20060509"></low>
<high value="20080801" />
</time>
<assignedEntity>
<id root="2.16.840.1.113883.4.6.15597815751" extension="Provider ID" />
<!-- OID is Dr. Orbit's NPI -->
<code code="261QM2500X" displayName="Medical Specialty"
codeSystem="2.16.840.1.113883.6.101" codeSystemName="ProviderCodes" />
<addr use="WP">
<streetAddressLine>155 Memorial Drive</streetAddressLine>

```

```

<streetAddressLine></streetAddressLine>
<city>Ironton</city>
<state>OH</state>
<postalCode>11111</postalCode>
</addr>
<telecom use="WP" value="tel:+1-888-555-5555" />
<assignedPerson>
<name>
<prefix>Dr</prefix>
<given>George</given>
<given>E.</given>
<family>Orbit</family>
</name>
</assignedPerson>
<representedOrganization>
<name>Smith Regional Hospital</name>
</representedOrganization>
<sdct:patient xmlns:sdct="urn:hl7-org:sdct">
<!--The ID is how the doctor identifies the patient's record. Patient's MRN under the
provider producing the CCD/C32-->
<sdct:id root="78A150ED-ZZ12-49dc-B716-5EC0027B3983" extension="11223344" />
</sdct:patient>
</assignedEntity>
</performer>
<entryRelationship typeCode="SUBJ">
<observation classCode="OBS" moodCode="EVN">
<!-- Problem observation template -->
<templateId root="2.16.840.1.113883.10.20.1.28" />
<id root="ab1791b0-5c71-11db-b0de-0800200c9a66" />
<!--Problem Type (and description)-->
<code code="418799008" displayName="Symptom"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"></code>
<text>
<reference value="#prob-1" />
</text>
<statusCode code="completed" />
<!--Problem Date-->
<effectiveTime>
<low value="20080910" />

```

```

<high nullFlavor="UNK" />
</effectiveTime>
<value xsi:type="CD" code="198.2" displayName="Skin, Skin of breast"
codeSystem="2.16.840.1.113883.6.2" codeSystemName="ICD9"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" />
<!--Problem Status-->
<entryRelationship typeCode="REFR">
<observation classCode="OBS" moodCode="EVN">
<!--20.1.50 = problem status observation 20.1.57 = conformant status observation-->
<templateId root="2.16.840.1.113883.10.20.1.50"></templateId>
<code code="33999-4" displayName="Status" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" />
<statusCode code="completed" />
<!--Problem Status-->
<value xsi:type="CE" code="55561003" displayName="Active"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" />
</observation>
</entryRelationship>
</observation>
</entryRelationship>
</act>
</entry>
</section>
</component>

```

4.6 FAMILY HISTORY

The Family History section is a **Required if Known – (R2)** section by the Social Security Administration standards. **Note:** SSA would like to view multiple entry elements during the testing phase in order to validate that several family members can be sent in the xml payload.

Section Description: The Family History section contains data defining the patient’s genetic relatives in terms of possible or relevant health risk factors that have a potential impact on the patient’s healthcare risk profile.

Family History Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Section OID	templateId/@root	O	R2

LOINC Code	code/@code	R	R
Vocabulary OID	code/@codeSystem	R	R
Code System Name	code/@codeSystemName	R	R
Title	code/@displayName	R	R
Mood code	entry/act/@moodCode	R	R
component/section/entry/organizer/			
Class Code	@classCode	R	R
Organizer templateId	templateId/@root		R
Status code	component/observation/statusCode/@code	R	R
Class code	subject/relatedSubject/code/@classCode		R2
Code	subject/relatedSubject/code/@code		R2
Display Name	subject/relatedSubject/code/@displayName		R2
Vocabulary OID	subject/relatedSubject/code/@codeSystem		R2
Code system Name	subject/relatedSubject/code/@codeSystemName		R2
Addr	subject/relatedSubject/addr		R2
Name	subject/relatedSubject/subject/name		R2
Gender Code	subject/relatedSubject/subject/administrativeGenderCode		R2
birthTime	subject/relatedSubject/subject/birthTime		R2
Deceased Indicator	subject/relatedSubject/subject/sdtc:deceasedInd		R2
Deceased Date	subject/relatedSubject/subject/sdtc:deceasedTime		R2
component/section/entry/organizer/component/observation/			
Date/Time of event	effectiveTime/@value	R	R
Cause of Death	value/@code		R2
Display Name	value/@displayName		R2
Value Name	entryRelationship/observation/value/@code		R2
Display Name	entryRelationship/observation/value/@displayName		R2
ID	id	R	R

4.6.1 Content of Family History

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>																
Section templateId	2.16.840.1.113883.10.20.1.4																	
LOINC Code	10157-6																	
Display Name	History of family member diseases																	
Vocabulary OID	2.16.840.1.113883.6.1	http://www.hl7.org/oid/index.cfm																
Code System Name	LOINC																	
Title	Family History																	
component/section/entry/organizer/																		
Class Code	“see document in Reference column for possible values”	HL7 v3 – ActClass																
Mood Code	“see document in Reference column for possible values”	HL7 v3 – ActMood																
Organizer templateID	2.16.840.1.113883.10.20.1.23																	
Status code	Any of the following can be used: <table border="1" data-bbox="544 1039 971 1402"> <thead> <tr> <th>Code</th> <th>Display Name</th> </tr> </thead> <tbody> <tr> <td>completed</td> <td>Completed</td> </tr> <tr> <td>aborted</td> <td>Aborted</td> </tr> <tr> <td>active</td> <td>Active</td> </tr> <tr> <td>cancelled</td> <td>Cancelled</td> </tr> <tr> <td>held</td> <td>Held</td> </tr> <tr> <td>new</td> <td>New</td> </tr> <tr> <td>suspended</td> <td>Suspended</td> </tr> </tbody> </table>	Code	Display Name	completed	Completed	aborted	Aborted	active	Active	cancelled	Cancelled	held	Held	new	New	suspended	Suspended	
Code	Display Name																	
completed	Completed																	
aborted	Aborted																	
active	Active																	
cancelled	Cancelled																	
held	Held																	
new	New																	
suspended	Suspended																	
subject/relatedSubject/																		
Class code	“see document in Reference column for possible values”	HL7 v3 - RoleClass																
Code	“see document in Reference column for possible values”	HL7 v3 – RoleCode																
Display Name																		
Code System	2.16.840.1.113883.5.111																	
Code System Name	SNOMED CT																	
subject/subject																		

Administrative Gender Code	Any of the following can be used:	
	Code	DisplayName
	F	Female
	M	Male
	UN	Undifferentiated
Vocabulary OID	2.16.840.1.113883.5.1	
Code System Name	HL7 AdministrativeGenderCode	

4.6.2 XML Sample of the Family History

```

<component>
<section>
<templateId root="2.16.840.1.113883.10.20.1.4"/>
<code code="10157-6" displayName="History of family member diseases"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<title>Family History</title>
<text/>
<entry>
<organizer classCode="CLUSTER" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.23"/>
<statusCode code="completed"/>
<subject>
<relatedSubject classCode="PRS">
<code code="MTH" displayName="Mother" codeSystem="2.16.840.1.113883.5.111"
codeSystemName="SNOMED CT"/>
<addr>
<streetAddressLine>6544 Saratoga Spring Court</streetAddressLine>
<city>Asheville</city>
<state>NC</state>
<postalCode>28801</postalCode>
<country>US</country>
</addr>
<subject>
<name>
<given>Margaret</given>
<given/>

```

```

<family>Bushell</family>
</name>
<administrativeGenderCode code="F" displayName="Female"
codeSystem="2.16.840.1.113883.5.1" codeSystemName="HL7
AdministrativeGenderCode"/>
<birthTime value="19200201"/>
<sdct:deceasedInd value="1"/>
<sdct:deceasedTime value="19991130"/>
</subject>
</relatedSubject>
</subject>
<component>
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.22"/>
<id root="z7g99322-67ad-11db-bd13-0800201d0b77"/>
<code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>
<statusCode code="completed"/>
<effectiveTime value="19991130"/>
<value xsi:type="CD" code="233835003" displayName="Acute widespread myocardial
infarction" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
<entryRelationship typeCode="CAUS">
<observation classCode="OBS" moodCode="EVN">
<id root="6898fae0-5c8a-11db-b0de-0800200c9a66"/>
<code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>
<statusCode code="completed"/>
<value xsi:type="CD" code="419099009" displayName="Deceased"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
</observation>
</entryRelationship>
</observation>
</component>
<component>
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.22"/>
<id root="z7g99322-67ad-11db-bd13-9999201d0b77"/>
<code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>
<statusCode code="completed"/>
<effectiveTime>

```

```

<low value="19981228"/>
<high value="19991130"/>
</effectiveTime>
<value xsi:type="CD" code="52448006" displayName="Dementia"
  codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
</observation>
</component>
</organizer>
</entry>
<entry typeCode="DRIV">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.22"/>
<id root="a13c6160-5c8b-11db-b0de-0800200c9a66"/>
<code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>
<statusCode code="completed"/>
<effectiveTime>
<low value="20070122"/>
</effectiveTime>
<value xsi:type="CD" code="585.6" displayName="End stage renal disease"
  codeSystem="2.16.840.1.113883.6.103" codeSystemName="ICD9"/>
<subject>
<relatedSubject classCode="PRS">
<code code="FTH" displayName="Father" codeSystem="2.16.840.1.113883.5.111"
  codeSystemName="RoleCode"/>
<addr>
<streetAddressLine>262 Blue Bird Road</streetAddressLine>
<city>New Market</city>
<state>MD</state>
<postalCode>20878</postalCode>
<country>US</country>
</addr>
<subject>
<name>
<given>Ben</given>
<given/>
<family>Bushell</family>
</name>

```



```
<administrativeGenderCode code="M" displayName="Male"
codeSystem="2.16.840.1.113883.5.1" codeSystemName="HL7
AdministrativeGenderCode"/>
<birthTime value="19190501"/>
<sdct:deceasedInd value="1"/>
<sdct:deceasedTime value="20060519"/>
</subject>
</relatedSubject>
</subject>
</observation>
</entry>
</section>
</component>
```

4.7 SOCIAL HISTORY

The Social History section is a **Required if Known – (R2)** section by Social Security Administration standards.

Section Description: The Social History contains data defining the patient’s occupational, personal (e.g. lifestyle), social, and environmental history and health risk factors, as well as administrative data such as marital status, race, ethnicity and religious affiliation.

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Section templateId	component/section/templateId/@root	O	R2
Code	component/section/code/@code	O	
Display Name	component/section/code/@displayName	O	
Vocabulary OID	component/section/code/@codeSystem	O	
Code System Name	component/section/code/@codeSystemName	O	
Title	component/section/title	O	
Content ID	component/text/content/ID	O	
Content text	component/text/content	O	
Entry type code	Component/entry/@typeCode	O	

4.7.1 Content of Social History

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to

access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>				
Section templateId	2.16.840.1.113883.10.20.1.15					
Code	29762-2					
Display Name	Social history					
Vocabulary OID	2.16.840.1.113883.6.1	http://www.hl7.org/oid/index.cfm				
Code System Name	LOINC					
Title	Social History					
Content ID	Socialhistory-x					
Content text	Text					
Entry Type code	Any of the following can be used: <table border="1" data-bbox="544 892 971 982"> <thead> <tr> <th>Use Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DRIV</td> <td>Is derived from</td> </tr> </tbody> </table>	Use Code	Description	DRIV	Is derived from	HL7v3 – ActRelationshipType
Use Code	Description					
DRIV	Is derived from					

4.7.2 XML Sample of the Social History

```

<component>
  <section>
    <templateId root="2.16.840.1.113883.10.20.1.15" />
    <code code="29762-2" displayName="Social history"
      codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />
    <title>Social History</title>
    <text>
      <content ID="socialhistory-1">Recently retired as a day care worker. Immigrated
from China 30 years ago. Husband passed away in 2003. 3 supportive children. Denies
current or history of tobacco, EtOH, illicit. Exposed to second-hand smoke by
husband.</content>
    </text>
    <entry typeCode="DRIV">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.1.33" />
        <id root="a13c6991-5c8b-11db-b0de-0800200c9a66" />

```

```

<code code="14679004" displayName="Occupation"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT">
  <originalText>
    <reference value="#socialhistory-1" />
  </originalText>
</code>
<statusCode code="completed" />
<effectiveTime>
  <low value="19971203" />
  <high value="20001203" />
</effectiveTime>
<value xsi:type="CD" code="112271005" displayName="Assembly Shipment"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" />
</observation>
</entry>
<entry typeCode="DRIV">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.1.33" />
    <id root="a13c6991-5c8b-11db-b0de-0800200c9a66" />
    <code code="257733005" displayName="Activity"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT">
      <originalText>
        <reference value="#socialhistory-2" />
      </originalText>
    </code>
    <statusCode code="completed" />
    <effectiveTime>
      <low value="19990615" />
      <high value="20060615" />
    </effectiveTime>
    <value xsi:type="CD" code="102393008" displayName="Child Care"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" />

```

```

</observation>
</entry>
<entry typeCode="DRIV">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.1.33" />
    <id root="a13c6991-5c8b-11db-b0de-0800200c9a66" />
    <code code="257733005" displayName="Activity"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT">
      <originalText>
        <reference value="#socialhistory-2" />
      </originalText>
    </code>
    <statusCode code="completed" />
    <effectiveTime>
      <low value="19891101" />
      <high value="19960415" />
    </effectiveTime>
    <value xsi:type="CD" code="102393008" displayName="Kitchen Help"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" />
  </observation>
</entry>
</section>
</component>

```

4.8 VITAL SIGNS

The Vital Signs section is a **Required if Known – (R2)** section by the Social Security Administration standards. **Note:** SSA would like to view multiple entry elements during the testing phase in order to validate that several vital signs can be sent in the xml payload.

Section Description: The Vital Signs section contains current and historically relevant vital signs, such as blood pressure, heart rate, respiratory rate, height, weight, body mass index (BMI), head circumference, crown-to-rump length, and pulse oximetry.

Vital Signs Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Section templateId	<u>templateId/@root</u>	O	R2
Code	code/@code	R	R
Vocabulary OID	code/@codeSystem	R	R
Title	code/@displayName	R	R
entry/organizer/component/			
Effective Time	observation/effectiveTime		R2
Vital code #	observation/code/@code		R2
Vital code Name	observation/code/@displayName		R2
Result Value	observation/value/@value		R2
Result Unit	observation/value/@unit		R2

4.8.1 Content of Vital Signs

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>
Section templateId	2.16.840.1.113883.10.20.1.16	
code	8716-3	
Vocabulary OID	2.16.840.1.113883.6.1	http://www.hl7.org/oid/index.cfm
title	Vital Signs	
component/section/entry/organizer/		
Effective Time	YYYYMMDD	

statusCode	<p>Any of the following can be used:</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Display Name</u></th> </tr> </thead> <tbody> <tr> <td>completed</td> <td>Completed</td> </tr> <tr> <td>aborted</td> <td>Aborted</td> </tr> <tr> <td>active</td> <td>Active</td> </tr> <tr> <td>cancelled</td> <td>Cancelled</td> </tr> <tr> <td>held</td> <td>Held</td> </tr> <tr> <td>new</td> <td>New</td> </tr> <tr> <td>suspended</td> <td>Suspended</td> </tr> </tbody> </table>	<u>Code</u>	<u>Display Name</u>	completed	Completed	aborted	Aborted	active	Active	cancelled	Cancelled	held	Held	new	New	suspended	Suspended	
<u>Code</u>	<u>Display Name</u>																	
completed	Completed																	
aborted	Aborted																	
active	Active																	
cancelled	Cancelled																	
held	Held																	
new	New																	
suspended	Suspended																	
component/section/entry/organizer/component/observation/																		
classCode	<p>Any of the following can be used:</p> <table border="1"> <thead> <tr> <th>mood code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>OBS</td> <td>An act that is intended to result in new information about a subject.</td> </tr> </tbody> </table>	mood code	Description	OBS	An act that is intended to result in new information about a subject.													
mood code	Description																	
OBS	An act that is intended to result in new information about a subject.																	
moodCode	<p>Any of the following can be used:</p> <table border="1"> <thead> <tr> <th>mood code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>EVN</td> <td>Event</td> </tr> </tbody> </table>	mood code	Description	EVN	Event													
mood code	Description																	
EVN	Event																	
templateId	2.16.840.1.113883.10.20.1.31																	
Code & DisplayName	<p>Any of the following can be used:</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Display Name</u></th> </tr> </thead> <tbody> <tr> <td>9279-1</td> <td>RESPIRATION RATE</td> </tr> <tr> <td>8867-4</td> <td>HEART BEAT</td> </tr> <tr> <td>2710-2</td> <td>OXYGEN SATURATION</td> </tr> <tr> <td>8480-6</td> <td>INTRASCULAR SYSTOLIC</td> </tr> <tr> <td>8462-4</td> <td>INTRAVASCULAR</td> </tr> </tbody> </table>		<u>Code</u>	<u>Display Name</u>	9279-1	RESPIRATION RATE	8867-4	HEART BEAT	2710-2	OXYGEN SATURATION	8480-6	INTRASCULAR SYSTOLIC	8462-4	INTRAVASCULAR				
<u>Code</u>	<u>Display Name</u>																	
9279-1	RESPIRATION RATE																	
8867-4	HEART BEAT																	
2710-2	OXYGEN SATURATION																	
8480-6	INTRASCULAR SYSTOLIC																	
8462-4	INTRAVASCULAR																	

Display Name		DIASTOLIC	
	8310-5	BODY TEMPERATURE	
	8302-2	BODY HEIGHT (MEASURED)	
	8306-3	BODY HEIGHT^LYING	
	8287-5	CIRCUMFERENCE.OCCIPITAL-FRONTAL (TAPE MEASURE)	
	3141-9	BODY WEIGHT (MEASURED)	
Vocabulary OID	2.16.840.1.113883.6.1		
Code System Name	LOINC		
Status Code	Any of the following can be used:		
	Code	Display Name	
	completed	Completed	
	aborted	Aborted	
	active	Active	
	cancelled	Cancelled	
	held	Held	
	new	New	
	suspended	Suspended	
Effective Time	YYYYMMDDHHMM		

4.8.2 XML Sample of the Vital Signs

```

<component>
<section>
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<code code="8716-3" displayName="Vital Signs" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<title>Vital Signs</title>
<text/>
<entry typeCode="DRIV">
<organizer classCode="CLUSTER" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.35"/>

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<observation classCode="OBS" moodCode="EVN">
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<id root="c6f88322-67ad-11db-bd13-0800200c9a66"/>
<code code="3141-9" displayName="Body weight" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<text/>
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<effectiveTime value="200811091030"/>
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codeSystem="2.16.840.1.113883.5.83" codeSystemName="Observation Interpretation"/>
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<text/>
</observationRange>
</referenceRange>
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</component>
<component>
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<templateId root="2.16.840.1.113883.3.88.11.32.15"/>
<id root="c6f88323-67ad-11db-bd13-0800200c9a66"/>
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codeSystemName="LOINC"/>
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codeSystemName="LOINC"/>
<text/>
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<code code="8867-4" displayName="Heart Beat" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
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</referenceRange>
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<code code="9279-1" displayName="Respiration rate"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
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<effectiveTime value="200811091030"/>
<value xsi:type="PQ" value="14" unit="1"/>
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codeSystem="2.16.840.1.113883.5.83" codeSystemName="Observation Interpretation"/>
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</referenceRange>
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<code code="8302-2" displayName="BODY HEIGHT (MEASURED)"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<text/>
<statusCode code="completed"/>
<effectiveTime value="200811091030"/>
<value xsi:type="PQ" value="54" unit="INCH"/>
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<code code="3141-9" displayName="Body weight" codeSystem="2.16.840.1.113883.6.1"
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codeSystemName="LOINC"/>

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</referenceRange>
</observation>
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<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.31"/>
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  codeSystemName="LOINC"/>
<text/>
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</referenceRange>
</observation>
</component>
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<code code="8867-4" displayName="Heart Beat" codeSystem="2.16.840.1.113883.6.1"
  codeSystemName="LOINC"/>

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</referenceRange>
</observation>
</component>
<component>
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.31"/>
<id root="9d053eb0-bb9f-4397-8e7c-2e7ea252ea05"/>
<code code="9279-1" displayName="Respiration rate"
  codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<text/>
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</referenceRange>
</observation>
</component>
<component>
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.31"/>
<id root="9d053eb0-bb9f-4397-8e7c-9zza252ea05"/>
<code code="8302-2" displayName="BODY HEIGHT (MEASURED)"
  codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
```

```

<text/>
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<value xsi:type="PQ" value="54" unit="INCH"/>
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codeSystem="2.16.840.1.113883.5.83" codeSystemName="Observation Interpretation"/>
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<observationRange>
<text/>
</observationRange>
</referenceRange>
</observation>
</component>
</organizer>
</entry>
</section>
</component>
    
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4.9 RESULTS

The Results section is a **Required if Known – (R2)** section by the Social Security Administration standards. **Note:** SSA would like to view multiple entry elements during the testing phase in order to validate that several results can be sent in the xml payload.

Section Description: The Results section contains the results of observations generated by laboratories, imaging procedures, and other procedures.

Results Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Section templateID	templateId/@root		R2
code	code/@code		R2
Code System	code/@codeSystem	R	R
Vocabulary OID	code/@codeSystemName	R	R
Display name	code/@displayName	R	R
Title	component/section/title	R	R
Content ID	text/content/@ID		R2
Content Text	text/content/text		R2

Type code	/entry/@typeCode	R	R
entry/observation/			
classCode	@classCode	R	R
Mood code	@moodCode	R	R
Result ID	id@root	R	R
Code	code@code	R	R
Code System	code/@codeSystem	R	R
Code Display Name	code/@displayname	R	R
Code System Name	code/@codeSystemName	R	R
Value Type	value/xsi:type	R	R
Result's value	value/@value	R	R
Result's unit	value/@unit	R	R
interpretationCode	interpretationCode/@code	R2	R2
Interpretation Code System	interpretationCode/@codeSystem	R2	R2
Interpretation Code System Name	interpretationCode/@codeSystemName	R2	R2
Interpretation Code Display Name	interpretationCode/@displayName	R2	R2
Observation Range	referenceRange/observationRange/text	R2	R2

4.9.1 Content of Results

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>
Section templateId	2.16.840.1.113883.10.20.1.14	
Code	30954-2	
Code system	2.16.840.1.113883.6.1	
Code System Name	LOINC	
Display Name	Relevant diagnostic tests	

	and/or laboratory data					
Vocabulary OID	2.16.840.1.113883.6.1	http://www.hl7.org/oid/index.cfm				
Code system Name	LOINC					
title	Results					
Content ID	lab-x					
Content text	text					
entry/						
typeCode	Any of the following can be used: <table border="1"> <thead> <tr> <th>Use Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DRIV</td> <td>Is derived from</td> </tr> </tbody> </table>	Use Code	Description	DRIV	Is derived from	
Use Code	Description					
DRIV	Is derived from					
entry/observation/						
classCode	Any of the following can be used: <table border="1"> <thead> <tr> <th>mood code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>OBS</td> <td>An act that is intended to result in new information about a subject.</td> </tr> </tbody> </table>	mood code	Description	OBS	An act that is intended to result in new information about a subject.	
mood code	Description					
OBS	An act that is intended to result in new information about a subject.					
Mood code	Any of the following can be used: <table border="1"> <thead> <tr> <th>mood code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>EVN</td> <td>Event</td> </tr> </tbody> </table>	mood code	Description	EVN	Event	HL7 v3 – ActMood
mood code	Description					
EVN	Event					
CCD Result templateID	2.16.840.1.113883.3.88.11.32.16					
Results Module templateID	2.16.840.1.113883.10.20.1.31					
Code	NA					
Code System	LOINC					
Code System Name	2.16.840.1.113883.6.1					
Display Name	(i.e. SODIUM)					
Text reference Value	#lab-x					

status Code	<p>Any of the following can be used:</p> <table border="1" data-bbox="570 373 987 737"> <thead> <tr> <th><u>Code</u></th> <th><u>Display Name</u></th> </tr> </thead> <tbody> <tr> <td>completed</td> <td>Completed</td> </tr> <tr> <td>aborted</td> <td>Aborted</td> </tr> <tr> <td>active</td> <td>Active</td> </tr> <tr> <td>cancelled</td> <td>Cancelled</td> </tr> <tr> <td>held</td> <td>Held</td> </tr> <tr> <td>new</td> <td>New</td> </tr> <tr> <td>suspended</td> <td>Suspended</td> </tr> </tbody> </table>	<u>Code</u>	<u>Display Name</u>	completed	Completed	aborted	Aborted	active	Active	cancelled	Cancelled	held	Held	new	New	suspended	Suspended															
<u>Code</u>	<u>Display Name</u>																															
completed	Completed																															
aborted	Aborted																															
active	Active																															
cancelled	Cancelled																															
held	Held																															
new	New																															
suspended	Suspended																															
effectiveTime/low/@value	YYYYMMDD																															
Result value type	XX																															
Result value	XX																															
Result unit	xx/xx																															
InterpretationCode code InterpretationCode display Name	<p>Any of the following can be used:</p> <table border="1" data-bbox="570 1024 987 1745"> <thead> <tr> <th><u>Code</u></th> <th><u>Display Name</u></th> </tr> </thead> <tbody> <tr> <td>B</td> <td>Better</td> </tr> <tr> <td>D</td> <td>Decreased</td> </tr> <tr> <td>U</td> <td>Increased</td> </tr> <tr> <td>W</td> <td>Worse</td> </tr> <tr> <td>N</td> <td>Normal</td> </tr> <tr> <td>I</td> <td>Intermediate</td> </tr> <tr> <td>R</td> <td>Resistant</td> </tr> <tr> <td>S</td> <td>Susceptible</td> </tr> <tr> <td>VS</td> <td>Very susceptible</td> </tr> <tr> <td>A</td> <td>Abnormal</td> </tr> <tr> <td>AA</td> <td>Abnormal alert</td> </tr> <tr> <td>HH</td> <td>High alert</td> </tr> <tr> <td>LL</td> <td>Low alert</td> </tr> <tr> <td>H</td> <td>High</td> </tr> </tbody> </table>	<u>Code</u>	<u>Display Name</u>	B	Better	D	Decreased	U	Increased	W	Worse	N	Normal	I	Intermediate	R	Resistant	S	Susceptible	VS	Very susceptible	A	Abnormal	AA	Abnormal alert	HH	High alert	LL	Low alert	H	High	HL7 v3 - ObservationInterpretation
<u>Code</u>	<u>Display Name</u>																															
B	Better																															
D	Decreased																															
U	Increased																															
W	Worse																															
N	Normal																															
I	Intermediate																															
R	Resistant																															
S	Susceptible																															
VS	Very susceptible																															
A	Abnormal																															
AA	Abnormal alert																															
HH	High alert																															
LL	Low alert																															
H	High																															
InterpretationCode Code	2.16.840.1.113883.5.83																															

System		
InterpretationCode code system Name	Observation Interpretation	
Observation Range	Text (i.e. 136-145)	

4.9.2 XML Sample of the Results

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<component>
<section>
<templateId root="2.16.840.1.113883.10.20.1.14"/>
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codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<title>Results</title>
<text>
<content ID="lab-1">Patient has normal cholesterol</content>
<content ID="lab-2">Yellow</content>
</text>
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codeSystemName="LOINC"/>
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</text>
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</effectiveTime>
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codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
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<reference value="#lab-2"/>
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codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
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codeSystemName="SNOMED CT"/>
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codeSystemName="SNOMED CT"/>
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<reference value="#lab-82"/>
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<statusCode code="completed"/>
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codeSystemName="Observation Interpretation" displayName="Normal"/>
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codeSystemName="Observation Interpretation" displayName="Normal"/>
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<code code="365658008" displayName="KETONE" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT"/>
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</text>
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codeSystemName="Observation Interpretation" displayName="Normal"/>
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<observationRange>
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<component>
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.3.88.11.32.16"/>
<id root="a4f500b5-7309-405d-8432-c2269abf3487"/>
<code code="275778006" displayName="BILI" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT"/>
<text>
<reference value="#lab-85"/>
</text>
<statusCode code="completed"/>
<value xsi:type="CV" nullFlavor="NA"/>
<interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83"
codeSystemName="Observation Interpretation" displayName="Normal"/>
<referenceRange>
<observationRange>
<text>NEG</text>
</observationRange>
</referenceRange>
</observation>
</component>
</organizer>
</entry>
</section>
</component

```

4.10 PROCEDURES

The Procedures section is a **Required if Known – (R2)** section by the Social Security Administration standards. **Note:** SSA would like to view multiple procedures elements during the testing phase in order to validate that several procedures can be sent in the xml payload.

Section Description: The Procedures section defines all interventional, surgical, diagnostic, or therapeutic procedures or treatments pertinent to the patient historically at the time the document is generated.

Procedures Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Section OID	templateId/@root	O	R2
Code	code/@code	R	R
Display Name	code/@displayName	R	R
Vocabulary OID	code/@codeSystem	R	R
Code System Name	Code/@codeSystemName	R	R
Title	title		R2
Content ID	Text/content/@ID		R2
Content text	Text/content/@text		R2
ClinicalDocument/component/structuredBody/component/section/entry/			
Type Code	@typeCode	R	R
Class code	procedure/@classCode	R	R
Mood code	procedure/@moodCode	R	R
Id	procedure/id	R	R
Status code	procedure/statusCode	R	R
Procedure Code	procedure/code/@code	R	R
Display Name	procedure/code/@displayName	R	R
Code System OID	procedure/code/@codeSystem	R	R
Code System Name	procedure/code/@codeSystemName	R	R
ClinicalDocument/component/structuredBody/component/section/entry/procedure/reference/			
Unique Document ID	externalDocument/id/@root		R
Document code	externalDocument/code/@code		R
Doc. Displayname	externalDocument/code/@displayName		R
Doc. code System	externalDocument/code/@codeSystem		R
Doc. Code system Name	externalDocument/code/@codeSystemName		R
Document Text	externalDocument/text		R
Performing Physician	entry/procedure/performer/assignedEntity/assignedPerson/name		R

4.10.1 Content of Procedures

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>				
Section OID	2.16.840.1.113883.10.20.1.12					
code	47519-4					
Vocabulary OID	2.16.840.1.113883.6.1	HL7 v3 – codeSystem				
Code System Name	LOINC					
Code/@displayName	History of procedures					
title	Procedures					
content ID	proc-x					
Text content	#text					
ClinicalDocument/component/structuredBody/component/section/entry/						
typeCode	Any of the following can be used: <table border="1" data-bbox="690 1054 1096 1186"> <thead> <tr> <th>Use Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DRIV</td> <td>Is derived from</td> </tr> </tbody> </table>	Use Code	Description	DRIV	Is derived from	HL7 v3 - ActRelationshipType
Use Code	Description					
DRIV	Is derived from					
ClinicalDocument/component/structuredBody/component/section/entry/procedure/						
classCode	PROC	HL7 v3 - ActClass				
moodCode	Any of the following can be used: <table border="1" data-bbox="690 1369 1096 1459"> <thead> <tr> <th>mood code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>EVN</td> <td>Event</td> </tr> </tbody> </table>	mood code	Description	EVN	Event	HL7 v3 - moodClass
mood code	Description					
EVN	Event					
Procedure activity template Id	2.16.840.1.113883.10.20.1.29					
id						
Code	xxx					
codeSystemName	2.16.840.1.113883.6.104					
displayName	ICD9 Procedures					
statusCode code	completed					
effectiveTime - low	YYYYMMDDHHMM					

effectiveTime - high	YYYYMMDDHHMM	
ClinicalDocument/component/structuredBody/component/section/entry/procedure/targetSiteCode		
Code	Xxxxxxx	
Displayname		
codeSystem	2.16.840.1.113883.6.96	Snomed CT
CodeSystemName	SNOMED CT	
ClinicalDocument/component/structuredBody/component/section/entry/procedure/code/originalText/		
Reference value	#proc-x	

4.10.2 XML Sample of the Procedures

```

<component>
  <section>
    <templateId root="2.16.840.1.113883.10.20.1.12" />
    <code code="47519-4" displayName="History of procedures"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />
    <title>Procedures</title>
    <entry typeCode="DRIV">
      <procedure classCode="PROC" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.1.29" />
        <id root="d512g451-9999-22ec-0gf2-1911311d0b77" />
        <code code="V58.11" displayName="Encounter for antineoplastic chemotherapy
&#xD;&#xA; &#xD;&#xA;" codeSystem="2.16.840.1.113883.6.104" codeSystemName="ICD9
Procedures">
          <originalText>
            <reference value="#proc-3" />
          </originalText>
        </code>
        <text></text>
        <statusCode code="completed" />
        <effectiveTime>
          <low value="20070211" />
          <high value="200609211030" />
        </effectiveTime>
      </procedure>
    </entry>
  </section>
</component>

```

```

</effectiveTime>
<!--Site where procedure was performed-->
<targetSiteCode code="302540006" displayName="Entire thumb"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"></targetSiteCode>
<time>
<low value="200702011000" />
<high value="200702011200" />
</time>
<assignedEntity>
<id root="78A150ED-B890-49dc-B716-5EC0027B3982" extension="ProviderID" />
<code code="280000000X" displayName="Hospitals"
codeSystem="2.16.840.1.113883.6.101" codeSystemName="ProviderCodes" />
<addr use="WP">
<streetAddressLine>145 Applecross Road</streetAddressLine>
<streetAddressLine></streetAddressLine>
<city>Southern Pines</city>
<state>NC</state>
<postalCode>28388</postalCode>
</addr>
<assignedPerson>
<name>
<prefix>Dr. </prefix>
<given>Susan</given>
<given />
<family>Saltz</family>
</name>
</assignedPerson>
<representedOrganization>
<name>Southern Pines Women's Health Center</name>
</representedOrganization>
<sdct:patient xmlns:sdct="urn:hl7-org:sdct">
<sdct:id root="78A150ED-ZZ23-49dc-B716-5EC0027B3983"
extension="33445999" />
</sdct:patient>

```

```

    </assignedEntity>
  </performer>
  <!--Operative Report-->
</procedure>
</entry>
<entry typeCode="DRIV">
  <procedure classCode="PROC" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.1.29" />
    <id root="d512g451-9999-22ec-0gf2-1911311d0b77" />
    <code code="V58.11" displayName="Encounter for antineoplastic chemotherapy
    &#xD;&#xA; &#xD;&#xA;" codeSystem="2.16.840.1.113883.6.104" codeSystemName="ICD9
    Procedures">
      <originalText>
        <reference value="#proc-3" />
      </originalText>
    </code>
    <statusCode code="completed" />
    <effectiveTime>
      <low value="20060921000" />
      <high value="200609211030" />
    </effectiveTime>
    <targetSiteCode code="302540006" displayName="Entire thumb"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"></targetSiteCode>
    <time>
      <low value="200701211000" />
      <high value="200701211200" />
    </time>
    <assignedEntity>
      <id root="78A150ED-B890-49dc-B716-5EC0027B3982" extension="ProviderID" />
      <code code="280000000X" displayName="Hospitals"
      codeSystem="2.16.840.1.113883.6.101" codeSystemName="ProviderCodes" />
      <addr use="WP">
        <streetAddressLine>145 Applecross Road</streetAddressLine>
        <streetAddressLine></streetAddressLine>
      </addr>
    </assignedEntity>
  </procedure>
</entry>

```

```

    <city>Southern Pines</city>
    <state>NC</state>
    <postalCode>28388</postalCode>
  </addr>
  <assignedPerson>
    <name>
      <prefix>Dr. </prefix>
      <given>Susan</given>
      <given />
      <family>Saltz</family>
    </name>
  </assignedPerson>
  <representedOrganization>
    <name>Southern Pines Women's Health Center</name>
  </representedOrganization>
  <sdct:patient xmlns:sdct="urn:hl7-org:sdct">
    <sdct:id root="78A150ED-ZZ23-49dc-B716-5EC0027B3983"
extension="33445999" />
  </sdct:patient>
</assignedEntity>
</performer>
</procedure>
</entry>
<entry typeCode="DRIV">
  <procedure classCode="PROC" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.1.29" />
    <id root="d512g451-9999-22ec-0gf2-1911311d0b77" />
    <code code="V58.11" displayName="Encounter for antineoplastic chemotherapy
&#xD;&#xA; &#xD;&#xA;" codeSystem="2.16.840.1.113883.6.104" codeSystemName="ICD9
Procedures">
      <originalText>
        <reference value="#proc-3" />
      </originalText>
    </code>

```

```
<statusCode code="completed" />
<effectiveTime>
  <low value="200612291000" />
  <high value="200612291030" />
</effectiveTime>
<targetSiteCode code="302540006" displayName="Entire thumb"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"></targetSiteCode>
  <time>
    <low value="200702011000" />
    <high value="200702011200" />
  </time>
  <!--Treating Physician-->
  <assignedEntity>
    <id root="78A150ED-B890-49dc-B716-5EC0027B3982" extension="ProviderID" />
    <code code="280000000X" displayName="Hospitals"
codeSystem="2.16.840.1.113883.6.101" codeSystemName="ProviderCodes" />
    <addr use="WP">
      <streetAddressLine>145 Applecross Road</streetAddressLine>
      <streetAddressLine></streetAddressLine>
      <city>South Pine</city>
      <state>NC</state>
      <postalCode>55555</postalCode>
    </addr>
    <assignedPerson>
      <name>
        <prefix>Dr. </prefix>
        <given>Susan</given>
        <given />
        <family>Saltz</family>
      </name>
    </assignedPerson>
    <representedOrganization>
      <name>Southern Pines Women's Health Center</name>
    </representedOrganization>
```

```

<sdct:patient xmlns:sdct="urn:hl7-org:sdct">
  <sdct:id root="78A150ED-ZZ23-49dc-B716-5EC0027B3983"
extension="33445999" />
  </sdct:patient>
</assignedEntity>
</performer>
</procedure>
</entry>

```

4.11 ENCOUNTERS

The Encounters section is a **Required if Known – (R2)** section by the Social Security Administration standards. **Note:** SSA would like to view multiple encounter elements during the testing phase in order to validate that several encounters can be sent in the xml payload. The Healthcare Providers will find several examples of different encounter notes in the xml payload section of Encounters.

Section Description: The Encounters section is used to list and describe any healthcare encounters pertinent to the patient’s current health status or historical health history. An encounter can be a hospitalization (acute, rehab, nursing facility, or long-term care), office or clinic visit, emergency room visit, home health visit, or any treatment or therapy (physical, occupational, respiratory, or other), or any interaction, even non fact-to-face, between the patient and the healthcare system or a healthcare provider.

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Section templateId	component/section/templateId/@root	O	R2
LOINC Code	component/section/code/@code	R	R2
Vocabulary OID	component/section/code/@codeSystem		R2
Code System Name	component/section/code/@codeSystemName		R2
Display Name	component/section/code/@displayName		R2
Title	component/section/title		R2
ClinicalDocument/component/structuredBody/component/section/text/			
Content id	content/@ID		R2
Content text	content/#text		R2
ClinicalDocument/component/structuredBody/component/section/entry/			
Type Code	@typeCode	R	R

ClinicalDocument/component/structuredBody/component/section/entry/encounter/			
Class code	@classCode	R	R
Mood Code	@moodCode	R	R
ID	entry/encounters/id/@root	R	R
code	entry/code/@nullFlavor		R2
Encounter Type code	code/@code		R2
codeSystem	code/@codeSystem		R2
codeSystemName	code/@codeSystemName		R2
displayName	code/@displayName		R2
Reference value	code/originalText/reference/@value	R	R2
Date/time Encounter	effectiveTime	R	R2
MRN	performer/assignedEntity/sdtc:patient/sdtc:id/@extension		R2
Encounter Provider	performer/assignedEntity/assignedPerson/name		R2
ClinicalDocument/component/structuredBody/component/section/entry/encounter/participant/			
typeCode	@typeCode	R	R
templateId	templateId/@root		R2
Participant Role	participantRole/classCode	R	R2
Playing entity	participantRole/playingEntity/@classCode	R	R2
Participant address	participantRole/addr		R2
Participant Name	participantRole/playingEntity/name		R2
ClinicalDocument/component/structuredBody/component/section/entry/encounter/reference/			
Unique Document ID	externalDocument/id/@root		R2
Document code	externalDocument/code/@code		R2
Document displayName	externalDocument/code/@displayName		R2
codeSystem	externalDocument/code/@codeSystem		R2
codeSystemName	externalDocument/code/@codeSystemName		R2
Document Text	externalDocument/text		R2
Content Id	text/content/@ID		R2

4.11.1 Content of Encounters

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to

access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>				
Section templated ID	2.16.840.1.113883.10.20.1.3					
LOINC Code	46240-8					
Vocabulary OID	2.16.840.1.113883.6.1					
Code System Name	LOINC					
Section Display Name	History of encounters					
Title	Encounters					
ClinicalDocument/component/structuredBody/component/section/text/						
Content ID	Note-x					
Content text	text					
ClinicalDocument/component/structuredBody/component/section/entry						
Type Code	Any of the following can be used: <table border="1"> <thead> <tr> <th>Use Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DRIV</td> <td>Is derived from</td> </tr> </tbody> </table>	Use Code	Description	DRIV	Is derived from	
Use Code	Description					
DRIV	Is derived from					
ClinicalDocument/component/structuredBody/component/section/entry/encounter						
Class code	ENC					
Mood Code	Any of the following can be used: <table border="1"> <thead> <tr> <th>mood code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>EVN</td> <td>Event</td> </tr> </tbody> </table>	mood code	Description	EVN	Event	
mood code	Description					
EVN	Event					
Encounter Module templateId	2.16.840.1.113883.3.88.11.32.17					
Encounter Activities templateId	2.16.840.1.113883.10.20.1.21					
ID						
Code	GENRL					
codeSystem	General					
codeSystemName	2.16.840.1.113883.1.11.13955					
displayName	HL7 ActCode					
Reference value	#encounter-x					
Date/Time Encounter – low	YYYYMMDDHHMM					

Date/Time Encounter – high	YYYYMMDDHHMM											
ClinicalDocument/component/structuredBody/component/section/entry/encounter/performer												
MRN	xxxxxxxx											
Encounter Provider	Dr. Barry Blacksmith											
ClinicalDocument/component/structuredBody/component/section/entry/encounter/participant												
typeCode	LOC											
Part. Location templateId	2.16.840.1.113883.10.20.1.45											
Participant Role classCode	SDLOC	HL7 v3 - roleclass										
Code	PC											
displayName	Primary Care Clinic											
codeSystem	2.16.840.1.113883.5.111											
codeSystemName	RoleCode	HL7 v3 - rolecode										
Playing entity class code	PLC											
Playing entity name	Name of Hospital											
Participant address use	Any of the following can be used: <table border="1" data-bbox="678 1003 1101 1234"> <thead> <tr> <th><u>Code</u></th> <th><u>Description</u></th> </tr> </thead> <tbody> <tr> <td>H</td> <td>home address</td> </tr> <tr> <td>HP</td> <td>primary home</td> </tr> <tr> <td>WP</td> <td>work place</td> </tr> <tr> <td>HV</td> <td>vacation home</td> </tr> </tbody> </table>	<u>Code</u>	<u>Description</u>	H	home address	HP	primary home	WP	work place	HV	vacation home	HL7 v3 - datatypes
<u>Code</u>	<u>Description</u>											
H	home address											
HP	primary home											
WP	work place											
HV	vacation home											
ClinicalDocument/component/structuredBody/component/section/entry/encounter/reference												
typeCode	SUBJ											
Unique Document Id												
Document code	“see document in Reference column for possible values”	CDA r2 – section 3.2.2										
Document displayName												
codeSystem	2.16.840.1.113883.6.1											
codeSystemName	LOINC											
Document Text	text											

4.11.2 XML Sample of the Encounters Section - **Emergency**

```

<section>
<templateId root="2.16.840.1.113883.10.20.1.3"/>
<code code="46240-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
  displayName="History of encounters"/>
<title>Encounters</title>
<text>
<content ID="note-1">Name: SNOW, JANE Service Date: DOB: 03/29/1975
Sex: F Age: 33 Billing #: 112121212 Date of Adm: 12/18/2007
CLINICAL DIAGNOSIS: This is an echocardiogram ordered.
<br/><br/> Name: SNOW, JANE Service Date: DOB: 03/29/1975
<br/><br/></content><content ID="note-2"> Name: SNOW, JANE Service Date:
DOB: 03/29/1975 Sex: F Age: 33 Billing #: 112121212 Date of
Adm: 02/08/2008
DISCHARGE SUMMARY ADMISSION DIAGNOSES: 1. Diabetes type 2. 2.
Hypertension.
<br/><br/></content><content ID="note-3">"> Name: SNOW, JANE Service Date:
DOB: 03/29/1975 Sex: F Age: 33 Billing #: 112121212 Date of
Adm: 05/16/2008 OPERATIVE REPORT PROCEDURE: Upper endoscopy.
INDICATION: Anemia, history of heartburn. </content>
</text>
<entry typeCode="DRIV">
<encounter classCode="ENC" moodCode="EVN">
<templateId root="2.16.840.1.113883.3.88.11.32.17"/>
<templateId root="2.16.840.1.113883.10.20.1.21"/>
<id root="8e6184b6-2321-4800-97e5-ccb487a104ff"/>
<code code="EMER" codeSystem="2.16.840.1.113883.5.4" codeSystemName="HL7
  ActCode" displayName="Emergency"/>
<effectiveTime>
<low value="20080910"/>
<high nullFlavor="UNK"/>
</effectiveTime>
<performer typeCode="PRF">
<time>
<low value="20080910"/>
<high nullFlavor="UNK"/>
</time>

```

```
<assignedEntity>
<id extension="568a4e00-11e0-4194-8052-971e797080e2"
root="2.16.840.1.113883.4.6.1013905751"/>
<code code="280000000X" codeSystem="2.16.840.1.113883.6.101"
codeSystemName="ProviderCodes" displayName="Hospitals"/>
<addr/>
<assignedPerson>
<name>
<family>Smith</family>
<given>John</given>
</name>
</assignedPerson>
<representedOrganization>
<id root="2.16.840.1.113883.3.190"/>
<name>Community Medical Center</name>
</representedOrganization>
<sdhc:patient>
<sdhc:id root="2.16.840.1.113883.3.190" extension="92709368"/>
</sdhc:patient>
</assignedEntity>
</performer>
<participant typeCode="LOC">
<templateId root="2.16.840.1.113883.10.20.1.45"/>
<participantRole classCode="SDLOC">
<code code="PC" codeSystem="2.16.840.1.113883.5.111" codeSystemName="RoleCode"
displayName="Primary Care Clinic"/>
<playingEntity classCode="PLC">
<name>Community Medical Center</name>
</playingEntity>
</participantRole>
</participant>
</encounter>
</entry>
</section>
```

4.11.3 XML Sample of the Encounters Section - **Inpatient**

```

<section>
<templateId root="2.16.840.1.113883.10.20.1.3"/>
<code code="46240-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
  displayName="History of encounters"/>
<title>Encounters</title>
<text>
<content ID="note-1">Name: SNOW, JANE Admitted: 03/27/2009 MR #:
123456789 DOB: 03/29/1975 Account#: 000012345678910 Age: 33
Physician: Smith, Jonnie, MD Location: 12-ee-12 HISTORY OF PRESENT ILLNESS:
This is a 33-year-old smoking female with a~long-standing history of asthma,
polycystic ovarian disease, and suspected~cervical cancer, currently being worked
up. The patient reports that she~took Advair for the first time today, but also took
a couple of other~medications today and had eaten. She then developed some
tightness in her~chest and shortness of breath. She was concerned that she was
having an~anaphylactic type reaction and came into the ED. In the ED, the
patient~was not moving air very well. She was given 3 nebulizer treatments and
a~dose of Solu-Medrol, after which although she improved, she continued to~have
some difficulty breathing. Currently, she is breathing much more~relaxed. She
denies headache, vision changes, chest pain, or~palpitations. Her shortness of
breath has improved. She is having a~cough, nonproductive of sputum. No
nausea, vomiting, constipation,~hematemesis, or hematochezia. No new
rashes.~PAST MEDICAL HISTORY:~1. Polycystic ovarian disease.~2. Possible
cervical cancer.~3. Asthma.~4. Hypertension.~5. Chronic lower extremity
edema.~6. Suspected diabetes.~MEDICATIONS:~1. Vicodin on a daily basis.~2.
Advair 250/50.~3. Birth control pills.~4. Lisinopril 20 mg daily.~5. Prozac 40 mg
daily.~6. Cipro 500 mg b.i.d. for bronchitis.~7. Xanax 0.5 mg daily.~8. Restoril 30
mg daily.~9. Spironolactone 50 mg b.i.d.~10. Bentyl 20 mg 4 times a
day.~ALLERGIES: BACTRIM, LEVAQUIN, and SEAFOOD.~SOCIAL HISTORY: She
smokes 1-1/2 packs of cigarettes a day. Does not~drink alcohol. She is
unemployed.~FAMILY HISTORY: Significant for mother with diabetes.~REVIEW
OF SYSTEMS:~HEENT: No headache, vision changes, ear pain, or sore
throat.~CARDIOVASCULAR: No chest pain or palpitations.~RESPIRATORY: Positive
shortness of breath, but improved. A mild cough,~nonproductive of
sputum.~ABDOMEN: No nausea, vomiting, constipation, hematemesis,
or~hematochezia.~EXTREMITIES: No new edema.~PHYSICAL
EXAMINATION:~VITAL SIGNS: Temperature is 98.2. Pulse 100. Blood pressure
132/79.~Respiratory rate 20. O2 saturation 96% on room air.~GENERAL: Obese

```

female, in no acute distress, lying in bed. She appears comfortable. HEENT: Sclerae are anicteric. Mucous membranes are moist. Pharynx is _____. NECK: There is no lymphadenopathy. CARDIOVASCULAR: Slightly tachycardic. No murmurs, rubs, or gallops. RESPIRATORY: Expiratory wheezes noted bilaterally, but improved air movement. ABDOMEN: Bowel sounds are positive. Nontender and nondistended. No hepatosplenomegaly. EXTREMITIES: Trace bilateral lower extremity edema. LABORATORY DATA: Sodium 136, potassium 4.2, chloride 102, bicarbonate 21, BUN 19, creatinine 1.2, glucose 327. White blood cell count 16.5. Please note the patient has been on steroids. Hemoglobin 12.1, hematocrit 38.3, and platelets 338, with granulocytes 93%. CPK is 99. Cardiac enzymes negative x1. ASSESSMENT: 1. Acute asthma exacerbation, possibly set off by food or some other allergen. 2. Hypertension. 3. Diabetes versus steroid-induced hyperglycemia. PLAN: At this time, will start IV Solu-Medrol, jet nebulizers, and Singulair. Will start sliding scale insulin. Check a TSH and a hemoglobin A1c, as well as a lipid panel. At this point, I am going to go ahead and continue her Cipro. Will obtain Physical Therapy and Occupational Therapy consults. Will provide gastrointestinal and deep venous thrombosis prophylaxis.

Name: SNOW, JANE Service Date: DOB: 03/29/1975

Name: SNOW, JANE Service Date: DOB: 03/29/1975 Sex: F Age: 33 Billing #: 112121212 Date of Adm: 02/08/2008

DISCHARGE SUMMARY ADMISSION DIAGNOSES: 1. Diabetes type 2. 2. Hypertension.

Name: SNOW, JANE Service Date: DOB: 03/29/1975 Sex: F Age: 33 Billing #: 112121212 Date of Adm: 05/16/2008 OPERATIVE REPORT PROCEDURE: Upper endoscopy.

INDICATION: Anemia, history of heartburn.

</text>

<entry typeCode="DRIV">

<encounter classCode="ENC" moodCode="EVN">

<templateId root="2.16.840.1.113883.3.88.11.32.17"/>

<templateId root="2.16.840.1.113883.10.20.1.21"/>

<id root="8e6184b6-2321-4800-97e5-ccb487a104ff"/>

<code code="IMP" codeSystem="2.16.840.1.113883.5.4" codeSystemName="HL7 ActCode" displayName="Inpatient encounter"/>

<originalText>

<reference value="#note-1"/>

</originalText>

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<high nullFlavor="UNK"/>
</effectiveTime>
<performer typeCode="PRF">
<time>
<low value="20080910"/>
<high nullFlavor="UNK"/>
</time>
<assignedEntity>
<id extension="568a4e00-11e0-4194-8052-971e797080e2"
root="2.16.840.1.113883.4.6.1013905751"/>
<code code="280000000X" codeSystem="2.16.840.1.113883.6.101"
codeSystemName="ProviderCodes" displayName="Hospitals"/>
<addr/>
<assignedPerson>
<name>
<family>Smith</family>
<given>John</given>
</name>
</assignedPerson>
<representedOrganization>
<id root="2.16.840.1.113883.3.190"/>
<name>Community Medical Center</name>
</representedOrganization>
<sdtc:patient>
<sdtc:id root="2.16.840.1.113883.3.190" extension="92709368"/>
</sdtc:patient>
</assignedEntity>
</performer>
<participant typeCode="LOC">
<templateId root="2.16.840.1.113883.10.20.1.45"/>
<participantRole classCode="SDLOC">
<code code="PC" codeSystem="2.16.840.1.113883.5.111" codeSystemName="RoleCode"
displayName="Primary Care Clinic"/>
<playingEntity classCode="PLC">
<name>Community Medical Center</name>
</playingEntity>

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```

</participantRole>
</participant>
</encounter>
</entry>
</section>

```

4.12 PLAN OF CARE

The Plan of Care section is a **Required if Known – (R2)** section by the Social Security Administration standards.

Section Description: The Plan of Care section contains data defining pending orders, interventions, encounters, services, and procedures for the patient.

Plan of Care Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Section templateId	templateId/@root		R2
LOINC Code	Code/@code		
Section display Name	code/@displayName	R	R

4.12.1 Content of Plan of Care

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>
Section templateId	2.16.840.1.113883.10.20.1.10	
LOINC Code	18776-5	
Section display Name	Treatment plan	

4.13 (ALERTS) ALLERGY/DRUG SENSITIVITY

The Allergy section is a **Required if Known – (R2)** section by the Social Security Administration standards. **Note:** SSA would like to view multiple entry elements within the allergy section during the testing phase in order to validate that several allergies and/or adverse reactions can be sent in the xml payload.

Section Description: This section is used to list and describe any allergies, adverse reactions, and alerts that are pertinent to the patient’s current or past medical history.

Allergy/Drug Sensitivity Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Section templateID	component/section/templateId/@root	O	R2
LOINC Code	component/section/code/@code	R	R2
Vocabulary OID	component/section/code/@codeSystem	R	R
Section Display Name	component/section/code/@displayName		R2
Code System Name	component/section/Code/@codeSystemName		R2
Title	component/section/title		R2
Content id	component/section/text/content/@ID		R2
Content text	component/section/text/content/text		R2
component/section/			
Type code	entry/@typeCode		R2
component/section/entry/act/			
Class Code	@classCode	R	R
Mood Code	@moodCode	R	R
templateId	templatedId/@root	R	R
Id	Id/@root		R2
component/section/entry/act/entryRelationship/			
Type code	@typeCode		R2
component/section/entry/act/entryRelationship/observation/			
Class code	@classCode	R	R
moodCode	@moodCode	R	R
Template Id	templateId/@root	R	R
Id	Id/@root		R2
component/section/entry/act/entryRelationship/observation/participant/participantRole/			

Playing Entity	playing Entity	R	R
Participant Role	@classCode	R	R
Playing Entity	playingEntity/@classCode	R	R
Code #	playingEntity/code/@code	R	R2
Code display name	playingEntity/code/@displayName		R2
Code system	playingEntity/code/@codeSystem		R2
Code system Name	playingEntity/code/@codeSystemName		R2
Act templateId	entry/act/templateId@root	R	R
Act code	entry/act/code	R	R
Allergen Name	playingEntity/name	R	R
component/section/entry/act/entryRelationship/observation/entryRelationship/observation			
Reaction code	value/@code	R2	R2
Reaction Name	value/@displayName		R2
Severity code	value/@code	R2	R2
Severity Name	value/@displayName		R2
entryRelationship Type code	entryRelationship/@typeCode	R	R
Class Code	classCode	R	R

4.13.1 Content of Allergy/Drug Sensitivity

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>
Section TemplateID	2.16.840.1.113883.10.20.1.2	
LOINC Code	48765-2	
Vocabulary OID	2.16.840.1.113883.6.1	
Section Display Name	Allergies, adverse reactions, alerts	
Code System Name	LOINC	
Title	Allergies and Adverse Reactions	
Content id	Allergy_comment-x	

component/section/			
Type Code	Any of the following can be used:		HL7v3 – ActRelationshipType
	Use Code	Description	
	DRIV	Is derived from	
component/section/entry/act/			
Class Code	ACT		HL7 v3 – ActClass
Mood Code	Any of the following can be used:		HL7 v3 – ActMood
	mood code	Description	
	EVN	Event	
Templated Id root	2.16.840.1.113883.10.20.1.27		
component/section/entry/act/entryRelationship/			
Type code	SUBJ		HL7v3 – ActRelationshipType
component/section/entry/act/entryRelationship/observation/			
Class code	Any of the following can be used:		HL7 v3 – ActClass
	mood code	Description	
	OBS	An act that is intended to result in new information about a subject.	
Mood Code	Any of the following can be used:		HL7 v3 – ActMood
	mood code	Description	
	EVN	Event	
templateId	2.16.840.1.113883.10.20.1.18		
Code Display Name	Any of the following can be used:		
	Code	Display Name	
	4200134006	Propensity to adverse reactions	
	418038807	Propensity to adverse	

		reactions to substance	
	419511003	Propensity to adverse reactions to drug	
	418471000	Propensity to adverse reactions to food	
	419199007	Allergy to substance	
	416098002	Drug allergy	
	414285001	Food allergy	
	59037007	Drug intolerance	
	235719002	Food intolerance	
Vocabulary OID	2.16.840.1.113883.6.96		
Code System Name	SNOMED CT		
component/section/entry/act/entryRelationship/observation/originalText/			
Reference value	#alert-x		
component/section/entry/act/entryRelationship/observation/			
Status Code	Any of the following can be used:		
	Code	Display Name	
	completed	Completed	
	aborted	Aborted	
	active	Active	
	cancelled	Cancelled	
	held	Held	
	new	New	
	suspended	Suspended	
component/section/entry/act/entryRelationship/observation/participant			

Type Code	CSM	HL7 v3 – ParticipationType				
component/section/entry/act/entryRelationship/observation/participant/participantRole/						
Class code	MANU	HL7 v3 – RoleClass				
component/section/entry/act/entryRelationship/observation/participant/participantRole/playingEntity						
Class code	MMAT	HL7 v3 – EntityClass				
component/section/entry/act/entryRelationship/observation/entryRelationship						
Type Code	SUBJ	HL7 v3 – ParticipationType				
Inversion ind	true					
component/section/entry/act/entryRelationship/observation/entryRelationship/observation						
Class code	Any of the following can be used:	HL7 v3 – ActClass				
	<table border="1"> <thead> <tr> <th>mood code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>OBS</td> <td>An act that is intended to result in new information about a subject.</td> </tr> </tbody> </table>	mood code	Description	OBS	An act that is intended to result in new information about a subject.	
mood code	Description					
OBS	An act that is intended to result in new information about a subject.					
Mood Code	Any of the following can be used:	HL7 v3 – ActMood				
	<table border="1"> <thead> <tr> <th>mood code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>EVN</td> <td>Event</td> </tr> </tbody> </table>	mood code	Description	EVN	Event	
mood code	Description					
EVN	Event					
entryRelationship Type code	“see document in Reference column for possible values”	HL7 v3 – ActRelationshipType				

4.13.2 XML Sample of the Allergy/Drug Sensitivity

```

<component>
<section>
<templateId root="2.16.840.1.113883.10.20.1.2"/>
<code code="48765-2" displayName="Allergies, adverse reactions, alerts"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<title>Allergies and Adverse Reactions</title>
<text>
<content ID="allergy_comment-1">No known allergies. </content>
</text>
<entry typeCode="DRIV">

```

```
<act classCode="ACT" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.27"/>
<templateId root="2.16.840.1.113883.3.88.11.32.6"/>
<id root="36e3e930-7b14-11db-9fe1-0800200c9a66"/>
<code nullFlavor="NA"/>
<entryRelationship typeCode="SUBJ" inversionInd="true">
<act classCode="ACT" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.40"/>
<templateId root="2.16.840.1.113883.3.88.11.32.12"/>
<code code="48767-8" displayName="Annotation Comment"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<text>
<reference value="#allergy_comment-1"/>
</text>
<statusCode code="completed"/>
<author>
<time value="20080101"/>
<assignedAuthor>
<id root="2.16.840.1.113883.4.6.1013905751"/>
<assignedPerson>
<name>
<prefix>Dr.</prefix>
<given>Randall</given>
<family>Ford</family>
</name>
</assignedPerson>
</assignedAuthor>
</author>
</act>
</entryRelationship>
</act>
</entry>
</section>
</component>
```

4.14 MEDICATION MODULE

The Medications section is a **Required if Known – (R2)** section by the Social Security Administration standards. **Note:** SSA would like to view multiple entry elements within the medication section during the testing phase in order to validate that several medications can be sent in the xml payload.

Section Description: This section defines a patient’s current medications and pertinent medication history.

Medication Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Component templateId	component/section/templateId/@root		R2
Medication ID #	code/@code	R	R
Display Name	Code/@displayName	R	R
Vocabulary OID	code/@codeSystem	R	R
Code System Name	Code/@codeSystemName	R	R
Title	Section/@title	R	R
component/section/			
Type code	entry/@typeCode	R	R
component/section/entry/			
Class Code	substanceAdministration/@classCode	R	R
Mood code	substanceAdministration/@moodCode	R	R
Template id	substanceAdministration/templateId/@root	R	R
Id	substanceAdministration/id	R	R
Text Reference	substanceAdministration/text/reference/@value		R2
Status Code	substanceAdministration/statusCode/@code		R2
Effective time - type	substanceAdministration/effectiveTime/@xsi:type		R2
Effective time – nullFlavor	substanceAdministration/effectiveTime/@nullFlavor		R2
Period value	substanceAdministration/effectiveTime/period/@value		R2
Period unit	substanceAdministration/effectiveTime/period/@unit		R2
Dose Quantity value	substanceAdministration/doseQuantity/@value	O	R2
Dose Quantity unit	substanceAdministration/doseQuantity/@unit	O	R2
Product Name code	substanceAdministration/consumable/manufacturedProduct/Manufa	R2	R2

	cturedMaterial/code/@code		
Product Name displayName	substanceAdministration/consumable/manufacturedProduct/ManufacturedMaterial/code/@displayName		R2
Product Name codeSystem	substanceAdministration/consumable/manufacturedProduct/ManufacturedMaterial/code/@codeSystem		R2
Product Name codeSystem Name	substanceAdministration/consumable/manufacturedProduct/ManufacturedMaterial/code/@codeSystemName		R2
Product Text	substanceAdministration/consumable/manufacturedProduct/ManufacturedMaterial/code/originalText/reference/@value	R	R
Type of Medication	substanceAdministration/entryRelationship/observation/value	R2	R2
Order Date/Time	substanceAdministration/entryRelationship/supply/author/time/@value		R

4.14.1 Content of Medication

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>
Component templateId	2.16.840.1.113883.10.20.1.8	
Medication ID #	10160-0	
Display Name	History of medication use	
Vocabulary OID	2.16.840.1.113883.6.1	
Code System Name	LOINC	
Title	Medication	
component/section/entry		

Type Code	Any of the following can be used: <table border="1"> <thead> <tr> <th>Use Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DRIV</td> <td>Is derived from</td> </tr> </tbody> </table>	Use Code	Description	DRIV	Is derived from	HL7v3 – ActRelationshipType												
Use Code	Description																	
DRIV	Is derived from																	
component/section/entry/substanceAdministration																		
Class code	SBADM	HL7 v3 – ActClass																
Mood code	Any of the following can be used: <table border="1"> <thead> <tr> <th>mood code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>EVN</td> <td>Event</td> </tr> </tbody> </table>	mood code	Description	EVN	Event	HL7 v3 – ActMood												
mood code	Description																	
EVN	Event																	
templateId	2.16.840.1.113883.10.20.1.24																	
templateId	2.16.840.1.113883.3.88.11.32.8	Medication activity template																
Text reference	#sig-1																	
status code	Any of the following can be used: <table border="1"> <thead> <tr> <th>Code</th> <th>Display Name</th> </tr> </thead> <tbody> <tr> <td>completed</td> <td>Completed</td> </tr> <tr> <td>aborted</td> <td>Aborted</td> </tr> <tr> <td>active</td> <td>Active</td> </tr> <tr> <td>cancelled</td> <td>Cancelled</td> </tr> <tr> <td>held</td> <td>Held</td> </tr> <tr> <td>new</td> <td>New</td> </tr> <tr> <td>suspended</td> <td>Suspended</td> </tr> </tbody> </table>	Code	Display Name	completed	Completed	aborted	Aborted	active	Active	cancelled	Cancelled	held	Held	new	New	suspended	Suspended	
Code	Display Name																	
completed	Completed																	
aborted	Aborted																	
active	Active																	
cancelled	Cancelled																	
held	Held																	
new	New																	
suspended	Suspended																	
component/section/entry/substanceAdministration/effectiveTime (Indicate Medication Stopped)																		
XSI Type	Any of the following can be used: <table border="1"> <thead> <tr> <th>Code</th> <th>Display Name</th> </tr> </thead> <tbody> <tr> <td>IVL_TS</td> <td>Interval Point in Time</td> </tr> <tr> <td>PIVL_TS</td> <td>Periodic Interval of</td> </tr> </tbody> </table>	Code	Display Name	IVL_TS	Interval Point in Time	PIVL_TS	Periodic Interval of	HL7 v3 – datatypes										
Code	Display Name																	
IVL_TS	Interval Point in Time																	
PIVL_TS	Periodic Interval of																	

		Time – Point in Time	
	EIVL_TS	Event-Related Periodic Interval of Time – Point in Time	
nullFlavor	UNK		
component/section/entry/substanceAdministration/effectiveTime (Administration Timing)			
type	Any of the following can be used:		HL7 v3 – datatypes
	Code	Display Name	
	IVL_TS	Interval Point in Time	
	PIVL_TS	Periodic Interval of Time – Point in Time	
	EIVL_TS	Event-Related Periodic Interval of Time – Point in Time	
institution Specified	True		
Timing operator	A		
period value	XX		
Timing period unit	h		
component/section/entry/substanceAdministration/routeCode			
routeCode	“see document in Reference		http://www.fda.gov/oc/datacouncil/splncicodes.html

displayName	column for possible values”	
Code system	2.16.840.1.113883.3.26.1.1	
Code System Name	NCI Thesaurus	
component/section/entry/substanceAdministration/approachSiteCode		
Code	21082005	
displayName	Mouth	
Vocabulary OID	2.16.840.1.113883.6.96	
Code system Name	SNOMED CT	
component/section/entry/substanceAdministration/doseQuantity		
value	X	
unit		
component/section/entry/substanceAdministration/maxDoseQuantity		
xsi:type	RTO_PQ_PQ	
component/section/entry/substanceAdministration/maxDoseQuantity/numerator		
value	X	
component/section/entry/substanceAdministration/maxDoseQuantity/denominator		
value	X	
component/section/entry/substanceAdministration/administrationUnitCode/		
Code	“see document in Reference	http://www.fda.gov/oc/datacouncil/splncicodes.html
displayName	column for possible values”	
Code System	2.16.840.1.113883.3.26.1.1	
Code System Name	NCI Thesaurus	

4.14.2 XML Sample of the Medication

```

<component>
<section>
<templateId root="2.16.840.1.113883.10.20.1.8"/>
<code code="10160-0" displayName="History of medication use"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<title>Medication</title>

```

```

<text/>
<entry typeCode="DRIV">
<substanceAdministration classCode="SBADM" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.24"/>
<templateId root="2.16.840.1.113883.3.88.11.32.8"/>
<id root="cbbd5b05-6cde-11db-9fe1-0800200c9a66"/>
<text>
<reference value="#sig-1"/>
</text>
<statusCode code="completed"/>
<effectiveTime xsi:type="IVL_TS" nullFlavor="UNK"/>
<effectiveTime xsi:type="PIVL_TS" institutionSpecified="true" operator="A">
<period value="12" unit="h"/>
</effectiveTime>
<routeCode code="C38288" displayName="Oral"
codeSystem="2.16.840.1.113883.3.26.1.1" codeSystemName="NCI Thesaurus"/>
<approachSiteCode code="21082005" displayName="Mouth"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
<doseQuantity value="1" unit="{INHALATION}"/>
<maxDoseQuantity xsi:type="RTO_PQ_PQ">
<numerator value="6"/>
<denominator value="1"/>
</maxDoseQuantity>
<administrationUnitCode code="C38216" displayName="Tablet"
codeSystem="2.16.840.1.113883.3.26.1.1" codeSystemName="NCI Thesaurus"/>
<consumable>
<manufacturedProduct classCode="MANU">
<templateId root="2.16.840.1.113883.10.20.1.53"/>
<templateId root="2.16.840.1.113883.3.88.11.32.9"/>
<manufacturedMaterial classCode="MMAT">
<code code="51947-0696" displayName="Levothyroxine"
codeSystem="2.16.840.1.113883.6.69" codeSystemName="NDC">
<originalText>
<reference value="#medication-1"/>
</originalText>
<translation code="PLACE HOLDER" displayName="PLACE HOLDER"
codeSystem="2.16.840.1.113883.6.88" codeSystemName="PLACE HOLDER"/>
</code>

```

```

<name>Levothyroxine</name>
</manufacturedMaterial>
<manufacturerOrganization>
<name>GlaxoC3POKline</name>
</manufacturerOrganization>
</manufacturedProduct>
</consumable>
<participant typeCode="CSM">
<participantRole classCode="MANU">
<code code="N0000006601" displayName="Lactose"
codeSystem="2.16.840.1.113883.4.209" codeSystemName="NDF-RT"/>
<playingEntity classCode="MMAT">
<code/>
<name/>
</playingEntity>
</participantRole>
</participant>
<entryRelationship typeCode="SUBJ">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.3.88.11.32.10"/>
<code code="73639000" displayName="Prescription Drug"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
</observation>
</entryRelationship>
<entryRelationship typeCode="REFR">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.47"/>
<code code="33999-4" displayName="Status" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<value xsi:type="CE" code="55561003" displayName="Active"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
</observation>
</entryRelationship>
<entryRelationship typeCode="RSON">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.28"/>
<code code="312453004" displayName="Asthma - currently active"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>

```

```
<text>
<reference value="#indication-1"/>
</text>
<statusCode code="completed"/>
</observation>
</entryRelationship>
<entryRelationship typeCode="SUBJ">
<act classCode="ACT" moodCode="INT">
<templateId root="2.16.840.1.113883.10.20.1.49"/>
<code nullFlavor="UNK"/>
<text>
<reference value="#patient-instruction-1"/>
</text>
</act>
</entryRelationship>
<entryRelationship typeCode="CAUS">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.54"/>
<code nullFlavor="UNK"/>
<text>
<reference value="#reaction-1"/>
</text>
<statusCode code="completed"/>
</observation>
</entryRelationship>
<entryRelationship typeCode="REFR">
<supply classCode="SPLY" moodCode="INT">
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extension="20097864565331453252"/>
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<given>R</given>
<family>Cohen</family>
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</assignedAuthor>
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</name>
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  codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
<doseQuantity value="500" unit="mg"/>
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<numerator value="1"/>
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<administrationUnitCode code="C38216" displayName="Tablet"
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</code>
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</manufacturedMaterial>
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</manufacturerOrganization>
</manufacturedProduct>
</consumable>
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<participantRole classCode="MANU">
<code code="N0000006601" displayName="Lactose"
  codeSystem="2.16.840.1.113883.4.209" codeSystemName="NDF-RT"/>
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</participantRole>

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codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
</observation>
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codeSystemName="LOINC"/>
<value xsi:type="CE" code="55561003" displayName="Active"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
</observation>
</entryRelationship>
<entryRelationship typeCode="RSON">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.28"/>
<code code="312453004" displayName="Infection - currently active"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
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<reference value="#indication-1"/>
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<statusCode code="completed"/>
</observation>
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<statusCode code="completed"/>
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</entryRelationship>
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extension="20097864565331453252"/>
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<given>R</given>
<family>Cohen</family>
</name>
</assignedPerson>
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80"/>
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<city>New Market</city>
<state>MD</state>
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</addr>
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<family>Ah</family>
</name>
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</entryRelationship>
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<approachSiteCode code="21082005" displayName="Mouth"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
<doseQuantity value="1" unit="Syrup"/>
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<denominator value="1"/>
</maxDoseQuantity>
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codeSystem="2.16.840.1.113883.3.26.1.1" codeSystemName="NCI Thesaurus"/>
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<templateId root="2.16.840.1.113883.10.20.1.53"/>
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<code code="51947-0696" displayName="Mytussin AC"
codeSystem="2.16.840.1.113883.6.69" codeSystemName="NDC">
<originalText>
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</originalText>
<translation code="PLACE HOLDER" displayName="PLACE HOLDER"
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</manufacturedProduct>
</consumable>
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<participantRole classCode="MANU">
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  codeSystem="2.16.840.1.113883.4.209" codeSystemName="NDF-RT"/>
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  codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
</observation>
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  codeSystemName="LOINC"/>
<value xsi:type="CE" code="55561003" displayName="Active"
  codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
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</entryRelationship>
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<entryRelationship typeCode="RSON">
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codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
<text>
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</text>
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</observation>
</entryRelationship>
<entryRelationship typeCode="SUBJ">
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</entryRelationship>
<entryRelationship typeCode="CAUS">
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<templateId root="2.16.840.1.113883.10.20.1.54"/>
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<statusCode code="completed"/>
</observation>
</entryRelationship>
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extension="20097864565331453252"/>
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<given>John</given>
<given/>
<family>Lee</family>
</name>
</assignedPerson>
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<given>John</given>
<given/>
<family>Lee</family>
</name>
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</entry>
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<approachSiteCode code="21082005" displayName="Mouth"
  codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
<doseQuantity value="1" unit="Inhaler"/>
<maxDoseQuantity xsi:type="RTO_PQ_PQ">
  <numerator value="1"/>
  <denominator value="1"/>
</maxDoseQuantity>
<administrationUnitCode code="C38216" displayName="Inhaler"
  codeSystem="2.16.840.1.113883.3.26.1.1" codeSystemName="NCI Thesaurus"/>
<consumable>
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    <templateId root="2.16.840.1.113883.10.20.1.53"/>
    <templateId root="2.16.840.1.113883.3.88.11.32.9"/>
    <manufacturedMaterial classCode="MMAT">
      <code code="51947-0696" displayName="Fluticasone-Salmeterol"
        codeSystem="2.16.840.1.113883.6.69" codeSystemName="NDC">
        <originalText>
          <reference value="#medication-1"/>
        </originalText>
        <translation code="PLACE HOLDER" displayName="PLACE HOLDER"
          codeSystem="2.16.840.1.113883.6.88" codeSystemName="PLACE HOLDER"/>
        </code>
      <name>Fluticasone-Salmeterol</name>
    </manufacturedMaterial>
    <manufacturerOrganization>
      <name>GlaxoC3POKline</name>
    </manufacturerOrganization>
  </manufacturedProduct>
</consumable>
<participant typeCode="CSM">
  <participantRole classCode="MANU">
    <code code="N0000006601" displayName="Lactose"
      codeSystem="2.16.840.1.113883.4.209" codeSystemName="NDF-RT"/>
  </participantRole>
</participant>

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codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
</observation>
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<entryRelationship typeCode="REFR">
<observation classCode="OBS" moodCode="EVN">
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<code code="33999-4" displayName="Status" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<value xsi:type="CE" code="55561003" displayName="Active"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
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<templateId root="2.16.840.1.113883.10.20.1.28"/>
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codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
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<quantity value="1"/>
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<time value="20081109"/>
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<name>
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<given>John</given>
<given/>
<family>Lee</family>
</name>
</assignedPerson>
</assignedAuthor>
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<entryRelationship typeCode="SUBJ" inversionInd="true">

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80"/>
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<streetAddressLine/>
<city>New Market</city>
<state>MD</state>
<postalCode>01111</postalCode>
</addr>
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<name>
<prefix>Dr.</prefix>
<given>John</given>
<given/>
<family>Lee</family>
</name>
</assignedPerson>
<representedOrganization>
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</substanceAdministration>
</entry>
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<templateId root="2.16.840.1.113883.10.20.1.24"/>
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<approachSiteCode code="21082005" displayName="Mouth"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
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<denominator value="1"/>
</maxDoseQuantity>
<administrationUnitCode code="C38216" displayName="Inhaler"
codeSystem="2.16.840.1.113883.3.26.1.1" codeSystemName="NCI Thesaurus"/>
<consumable>

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codeSystem="2.16.840.1.113883.6.69" codeSystemName="NDC">
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<reference value="#medication-1"/>
</originalText>
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codeSystem="2.16.840.1.113883.6.88" codeSystemName="PLACE HOLDER"/>
</code>
<name>Ipratropium Bromide</name>
</manufacturedMaterial>
<manufacturerOrganization>
<name>Atrovent</name>
</manufacturerOrganization>
</manufacturedProduct>
</consumable>
<participant typeCode="CSM">
<participantRole classCode="MANU">
<code code="N0000006601" displayName="Lactose"
codeSystem="2.16.840.1.113883.4.209" codeSystemName="NDF-RT"/>
<playingEntity classCode="MMAT">
<code/>
<name/>
</playingEntity>
</participantRole>
</participant>
<entryRelationship typeCode="SUBJ">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.3.88.11.32.10"/>
<code code="73639000" displayName="Prescription Drug"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
</observation>
</entryRelationship>
<entryRelationship typeCode="REFR">

```

```

<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.47"/>
<code code="33999-4" displayName="Status" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<value xsi:type="CE" code="55561003" displayName="Active"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
</observation>
</entryRelationship>
<entryRelationship typeCode="RSON">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.28"/>
<code code="312453004" displayName="Inhaler - currently active"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
<text>
<reference value="#indication-1"/>
</text>
<statusCode code="completed"/>
</observation>
</entryRelationship>
<entryRelationship typeCode="SUBJ">
<act classCode="ACT" moodCode="INT">
<templateId root="2.16.840.1.113883.10.20.1.49"/>
<code nullFlavor="UNK"/>
<text>
<reference value="#patient-instruction-1"/>
</text>
</act>
</entryRelationship>
<entryRelationship typeCode="CAUS">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.54"/>
<code nullFlavor="UNK"/>
<text>
<reference value="#reaction-1"/>
</text>
<statusCode code="completed"/>
</observation>
</entryRelationship>

```

```

<entryRelationship typeCode="REFR">
<supply classCode="SPLY" moodCode="INT">
<templateId root="2.16.840.1.113883.3.88.11.32.11"/>
<id root="14ED7742-2428-4e2c-9446-A9B0D0075272"
extension="20097864565331453252"/>
<effectiveTime value="20081109"/>
<repeatNumber value="2"/>
<quantity value="1"/>
<author>
<time value="20081109"/>
<assignedAuthor>
<id root="2.16.840.1.113883.4.6.1013905751" extension="Provider ID"/>
<assignedPerson>
<name>
<prefix>Dr.</prefix>
<given>John</given>
<given/>
<family>Lee</family>
</name>
</assignedPerson>
</assignedAuthor>
</author>
<entryRelationship typeCode="SUBJ" inversionInd="true">
<act classCode="ACT" moodCode="INT">
<templateId root="2.16.840.1.113883.10.20.1.43"/>
<code/>
<text>
<reference value="#fulfillment-instruction1"/>
</text>
</act>
</entryRelationship>
</supply>
</entryRelationship>
<entryRelationship typeCode="REFR">
<sequenceNumber value="1"/>
<supply classCode="SPLY" moodCode="EVN">
<id root="14ED7742-2428-4e2c-9446-A9B0D0075272" extension="321654-77468161-

```



```
80"/>
<statusCode code="completed"/>
<effectiveTime value="20081109"/>
<quantity value="1" unit="Tablespoon"/>
<performer>
<assignedEntity>
<id root="2.16.840.1.113883.4.6.1013905751"/>
<addr use="WP">
<streetAddressLine>885 Washington Street</streetAddressLine>
<streetAddressLine/>
<city>New Market</city>
<state>MD</state>
<postalCode>01111</postalCode>
</addr>
<assignedPerson>
<name>
<prefix>Dr.</prefix>
<given>John</given>
<given/>
<family>Lee</family>
</name>
</assignedPerson>
<representedOrganization>
<id root="2.16.840.1.113883.4.6.2649871"/>
<name>South Comm. Health Center</name>
</representedOrganization>
</assignedEntity>
</performer>
</supply>
</entryRelationship>
<precondition>
<criteria/>
</precondition>
</substanceAdministration>
</entry>
</section>
</component>
```

4.15 MEDICAL EQUIPMENT MODULE

The Medical Equipment section is a **Required if Known – (R2)** section by the Social Security Administration standards. **Note:** SSA would like to view multiple entry elements within the medical equipment section during the testing phase in order to validate that several medical equipment entries can be sent in the xml payload.

Section Description: The Medical Equipment section defines a patient’s implanted and external medical devices and equipment that their health status depends on, as well as any pertinent equipment or device history.

Medical Equipment Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Section templateID	component/section/templateId/@root	O	R2
Code	component/section/code/@code	R	R
Vocabulary OID	component/section/code/@codeSystem	R	R
Display Name	component/section/code/@displayName		R2
title	component/section/title		R2
Supply class code	component/section/entry/supply/@classCode		R2
Supply mood code	component/section/entry/supply/@moodCode		R2
Time of Use	component/section/entry/supply/effectiveTime/@value		R2
Time of Use	component/section/entry/supply/effectiveTime/low/@value		R2
Product Name code	component/section/entry/supply/product/manufacturedProduct/manufacturedMaterial/code/@code		R2
Product Name Name	entry/supply/product/manufacturedProduct/manufacturedMaterial/code/@displayName		R2
Status	entryRelationship/observation/value/@code		R2
Status	entryRelationship/observation/value/@codeSystem		R2
Facility	performer/assignedEntity/representedOrganization/name		R2
Prescriber’s Name	entry/supply/author/assignedAuthor/assignedPerson/name		R2

4.15.1 Content of Medical Equipment

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to

access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>				
Section templateId	2.16.840.1.113883.10.20.1.7					
Code	46264-8					
Vocabulary OID	2.16.840.1.113883.6.1	http://www.hl7.org/oid/index.cfm				
Display Name	History of medical device use					
title	Medical Equipment					
Supply class code	SPLY	HL7 v3 – ActClass				
Supply mood code	Any of the following can be used: <table border="1" data-bbox="545 800 972 892"> <thead> <tr> <th>mood code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>EVN</td> <td>Event</td> </tr> </tbody> </table>	mood code	Description	EVN	Event	HL7 v3 – ActMood
mood code	Description					
EVN	Event					
Supply Activity template	2.16.840.1.113883.10.20.1.34					

4.15.2 XML Sample of the Medical Equipment

```

<component>
<section>
<templateId root="2.16.840.1.113883.10.20.1.7"/>
<code code="46264-8" displayName="History of medical device use"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<title>Medical Equipment</title>
<text/>
<entry>
<supply classCode="SPLY" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.34"/>
<id root="g3453452-vs345v001-whj34112a-h56742"/>
<statusCode code="completed"/>
<effectiveTime value="20081109"/>
<quantity value="1"/>
<expectedUseTime>
<low value="20061109"/>
<high value="20081109"/>
</expectedUseTime>

```

```

<product>
<manufacturedProduct classCode="MANU">
<templateId root="2.16.840.1.113883.10.20.1.53"/>
<manufacturedMaterial>
<code code=" 334947002 " displayName="Nebulizer"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT">
<originalText>
<reference value="#medequip-1"/>
</originalText>
</code>
<name>Nebulizer</name>
</manufacturedMaterial>
<manufacturerOrganization>
<name>Omcron</name>
</manufacturerOrganization>
</manufacturedProduct>
</product>
<performer typeCode="PRF">
<time value="20050509"/>
<assignedEntity>
<id root="2.16.840.1.113883.4.6.1013905751" extension="Provider ID"/>
<code code="280000000X" displayName="Hospitals"
codeSystem="2.16.840.1.113883.6.101" codeSystemName="ProviderCodes"/>
<addr use="WP">
<streetAddressLine>20 Breakfast Avenue</streetAddressLine>
<streetAddressLine/>
<city>New Market</city>
<state>MA</state>
<postalCode>11111</postalCode>
</addr>
<addr use="WP">
<streetAddressLine>123 West Cookie Alley</streetAddressLine>
<streetAddressLine>Suite #2</streetAddressLine>
<city>New Market</city>
<state>MA</state>
<postalCode>11111</postalCode>
</addr>
<telecom use="WP" value="tel:+1-888-555-1181"/>

```

```
<telecom value="mailto:Harry.Cohen.MD@HospitalA.com"/>
<assignedPerson>
  <name>
    <prefix>Dr.</prefix>
    <given>Harry</given>
    <given>R</given>
    <family>Cohen</family>
  </name>
</assignedPerson>
<representedOrganization>
  <id root="2.16.840.1.113883.4.6.2649871"/>
  <name>St. Francis Medical Center</name>
</representedOrganization>
<sdct:patient>
  <sdct:id root="78A150ED-B890-49dc-B716-5EC0027B3983" extension="11224433"/>
</sdct:patient>
</assignedEntity>
</performer>
<author>
  <time value="20061015"/>
  <assignedAuthor>
    <id root="2.16.840.1.113883.4.6.1013905751" extension="Provider ID"/>
    <code code="280000000X" displayName="Hospitals"
      codeSystem="2.16.840.1.113883.6.101" codeSystemName="ProviderCodes"/>
    <addr use="WP">
      <streetAddressLine>20 Breakfast Avenue </streetAddressLine>
      <streetAddressLine/>
      <city>New Market</city>
      <state>MA</state>
      <postalCode>11111</postalCode>
    </addr>
    <telecom use="WP" value="tel:+1-888-555-1181"/>
    <telecom value="mailto:Harry.Cohen.MD@HospitalA.com"/>
  </assignedAuthor>
  <assignedPerson>
    <name>
      <prefix>Dr.</prefix>
      <given>Harry</given>
      <given>R</given>
    </name>
  </assignedPerson>
</author>
</time>
</assignedAuthor>
</code>
</codeSystem>
</addr>
</streetAddressLine>
</streetAddressLine/>
</city>
</state>
</postalCode>
</addr>
</telecom use="WP" value="tel:+1-888-555-1181"/>
</telecom value="mailto:Harry.Cohen.MD@HospitalA.com"/>
</assignedAuthor>
</assignedPerson>
</name>
</prefix>
</given>
</given>
```

```
<family>Cohen</family>
</name>
</assignedPerson>
<representedOrganization>
<id root="2.16.840.1.113883.4.6.2649871"/>
<name>St. Francis Medical Center</name>
</representedOrganization>
</assignedAuthor>
</author>
<participant typeCode="LOC">
<participantRole>
<code code="PC" displayName="Primary Care Clinic"
codeSystem="2.16.840.1.113883.5.111" codeSystemName="RoleCode"/>
<addr use="WP">
<streetAddressLine>123 Wellness Lane</streetAddressLine>
<streetAddressLine>Suite #12</streetAddressLine>
<city>New Market</city>
<state>MA</state>
<postalCode>11111</postalCode>
</addr>
</participantRole>
</participant>
<entryRelationship typeCode="REFR">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.47"/>
<code code="33999-4" displayName="Status" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<statusCode code="completed"/>
<value xsi:type="CE" code="73425007" displayName="No Longer Active"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
</observation>
</entryRelationship>
</supply>
</entry>
</section>
</component>
```

4.16 IMMUNIZATION MODULE

The Immunization section is a **Required if Known – (R2)** section by the Social Security Administration standards.

Section Description: The Immunizations section defines a patient’s current immunization status and pertinent immunization history.

Immunization Table

<u>Field Name</u>	<u>XPATH</u>	<u>CCD</u>	<u>SSA</u>
Section OID	templateId/@root="2.16.840.1.113883.10.20.1.6"	O	R2
Code	code/@code="11369-6"	R	R
Vocabulary OID	code/@codeSystem	R	R
title	code/@displayName="History of immunizations"	R	R
Entry Type Code	Entry/typeCode	O	
Administered Date	entry/substanceAdministration/effectiveTime/@value		R2
Immunization Performer	entry/substanceAdministration/performer/assignedEntity/assignedPerson/name		R2
Medication	entry/substanceAdministration/consumable/manufacturedMaterial/code/@displayName		R2

4.16.1 Content of Immunization

This section will help the user identify the needed content (text) and/or all possible content available. The reference column, if populated will provide the user with the reference link to access what documentation is available to view all possible content choices for that particular element.

<u>Field Name</u>	<u>Content Values</u>	<u>Reference</u>
Section templateId	2.16.840.1.113883.10.20.1.6	
Code	11369-6	
Display Name	History of immunizations	
Vocabulary OID	2.16.840.1.113883.6.1	http://www.hl7.org/oid/index.cfm
Code System Name	LOINC	
title	Immunizations	
component/section/entry/		

Type Code	Any of the following can be used:		HL7v3 – ActRelationshipType
	Use Code	Description	
	DRIV	Is derived from	
component/section/entry/sustanceAdministration/			
Class code	Any of the following can be used:		HL7 v3 - ActClass
	Class Code	Description	
	SBADM	Substance administration – the act of introducing or otherwise applying a substance to the subject.	
Mood code	Any of the following can be used:		HL7 v3 – ActMood
	Use Code	Description	
	EVN	Is derived from	
negationInd	False		
templateId	2.16.840.1.113883.10.20.1.24		
Status code	Any of the following can be used:		
	Code	Description	
	completed	Completed	
	aborted	Aborted	
	active	Active	
	cancelled	Cancelled	
	held	Held	
	new	New	
suspended	Suspended		
Effective time	YYYYMMDD		
component/section/entry/sustanceAdministration/manufacturedProduct/			

Class code	Any of the following can be used:		HL7 v3 - RoleClass
	Code	Description	
	MANU	Manufactured product	
templateId	2.16.840.1.113883.10.20.1.53		
component/section/entry/sustanceAdministration/manufacturedProduct/manufacturedMaterial			
Class code	Any of the following can be used:		HL7 v3 - EntityClass
	Code	Display Name	
	MMAT	Manufactured material	
determinerCode	Any of the following can be used:		HL7 v3 – EntityDeterminer
	Code	Description	
	KIND	described – The described determiner is used to indicate that the given Entity is taken as a general description of a king of thing that can be taken in whole.	
component/section/entry/sustanceAdministration/consumable/manufacturedProduct/manufacturedMaterial/code/			
Code	Xx		
Display Name			
Code system	2.16.840.1.113883.6.59		
Code system Name	CVX		
Name text			
Lot number text			
component/section/entry/sustanceAdministration/consumable/manufacturedProduct/manufactureOrganization/name			
text			

component/section/entry/sustanceAdministration/performer/												
Type code	Any of the following can be used: <table border="1"> <thead> <tr> <th>Type Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>PRF</td> <td>Performer - A person, non-person living subject, organization or device that who actually and principally carries out the action.</td> </tr> </tbody> </table>	Type Code	Description	PRF	Performer - A person, non-person living subject, organization or device that who actually and principally carries out the action.	HL7 v3 - ParticipationType						
Type Code	Description											
PRF	Performer - A person, non-person living subject, organization or device that who actually and principally carries out the action.											
Time – low	YYYYMMDD											
component/section/entry/sustanceAdministration/performer/assignedEntity/												
Addr Use	Any of the following can be used: <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>home address</td> </tr> <tr> <td>HP</td> <td>primary home</td> </tr> <tr> <td>WP</td> <td>work place</td> </tr> <tr> <td>HV</td> <td>vacation home</td> </tr> </tbody> </table>	Code	Description	H	home address	HP	primary home	WP	work place	HV	vacation home	
Code	Description											
H	home address											
HP	primary home											
WP	work place											
HV	vacation home											
Addr												
Telecom value												
Assigned Person												
representedOrganization Name												

4.16.2 XML Sample of the Immunization Section

```

<component>
<section>
<templateId root="2.16.840.1.113883.10.20.1.6"/>
<code code="11369-6" displayName="History of immunizations"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
<title>Immunizations</title>

```

```

<text/>
<entry typeCode="DRIV">
<substanceAdministration classCode="SBADM" moodCode="EVN" negationInd="false">
<templateId root="2.16.840.1.113883.3.88.11.32.14"/>
<id root="cevv5b05-6zae-11wq-0ve1-0822202c9a76"/>
<statusCode code="completed"/>
<effectiveTime value="20080108"/>
<approachSiteCode/>
<doseQuantity/>
<consumable>
  <manufacturedProduct classCode="MANU">
<templateId root="2.16.840.1.113883.10.20.1.53"/>
<templateId root="2.16.840.1.113883.3.88.11.32.9"/>
<manufacturedMaterial classCode="MMAT" determinerCode="KIND">
<code code="16" displayName="Influenza Virus Vaccine"
  codeSystem="2.16.840.1.113883.6.59" codeSystemName="CVX">
<originalText/>
</code>
<name>TIV</name>
<lotNumberText>A1234-ddz</lotNumberText>
</manufacturedMaterial>
<manufacturerOrganization>
<name> GlaxoC3POKline Biologicals</name>
</manufacturerOrganization>
</manufacturedProduct>
</consumable>
<performer typeCode="PRF">
<time>
<low value="20070506"/>
</time>
<assignedEntity>
<id root="2.16.840.1.113883.4.6.332789877" extension="Provider ID"/>
<addr use="WP">
<streetAddressLine>227 Medical Court</streetAddressLine>
<streetAddressLine/>
<city>Annapolis</city>
<state>MD</state>
<postalCode>20497</postalCode>

```

```
<country>US</country>
</addr>
<telecom value="TEL:+1-301-555-7654"/>
<assignedPerson>
<name>
<prefix>Dr</prefix>
<given>Sarah</given>
<given/>
<family>Silvarmen</family>
</name>
</assignedPerson>
<representedOrganization>
<name>Orthopedic Associates of Annapolis</name>
</representedOrganization>
</assignedEntity>
</performer>
<entryRelationship typeCode="SUBJ">
<observation classCode="OBS" moodCode="EVN">
<code nullFlavor="NA"/>
<text/>
<statusCode/>
<value xsi:type="INT" value="1"/>
</observation>
</entryRelationship>
<entryRelationship typeCode="CAUS">
<observation classCode="OBS" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.1.54"/>
<code nullFlavor="NA"/>
<text>
<reference value="#reaction"/>
</text>
<statusCode code="completed"/>
</observation>
</entryRelationship>
</substanceAdministration>
</entry>
</section>
```

</component>