

# **General E-Consult Documentation Template KNART Validation Report**

## **Documentation Template: Validation Report**

**Contract: VA118-16-D-1008, Task Order  
(TO): VA-118-16-F-1008-0007, CLIN0005AN**

**Department of Veterans Affairs**



**Knowledge Based Systems (KBS)  
Office of Informatics and Information Governance (OIIG)  
Clinical Decision Support (CDS)**

**Publication date 06/14/2018**

**Version: 1.0**

---

# General E-Consult Documentation Template KNART Validation Report: Documentation Template: Validation Report

by Knowledge Based Systems (KBS), Office of Informatics and Information Governance (OIIG), and Clinical Decision Support (CDS)

Publication date 06/14/2018

Copyright © 2018 B3 Group, Inc.

Copyright © 2018 Cognitive Medical Systems, Inc.

## B3 Group, Inc.

### NOTICE OF GOVERNMENT COPYRIGHT LICENSE AND UNLIMITED RIGHTS LICENSE

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Portions of this content are derivative works from content produced by Cognitive Medical Systems, Inc. licensed under the Apache License, Version 2.0.

Additional portions of this content are derivative works from content contributed by Motive Medical Intelligence Inc., under Creative Commons Attribution-ShareAlike 4.0.

Contributions from 2013-2018 were performed either by US Government employees, or under US Veterans Health Administration contracts.

US Veterans Health Administration contributions by government employees are work of the U.S. Government and are not subject to copyright protection in the United States. Portions contributed by government employees are USGovWork (17USC §105). Not subject to copyright.

See: <https://www.usa.gov/government-works>

Contribution by contractors to the US Veterans Health Administration during this period are contractually contributed under the Apache License, Version 2.0 and US Government sponsorship is acknowledged under Contract VA118-16-D-1008, Task Order VA11817F10080007.

## Cognitive Medical Systems, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This and related content produced by Cognitive Medical Systems, Inc. licensed under the Apache License, Version 2.0 is available at: <https://bitbucket.org/cogmedsys/hl7-kas-examples>

Additional portions of this content are derivative works from content contributed by Motive Medical Intelligence Inc., under Creative Commons Attribution-ShareAlike 4.0. <https://bitbucket.org/cogmedsys/kas-source-material>

Contributions from 2013-2018 were performed either by US Government employees, or under US Veterans Health Administration contracts.

US Veterans Health Administration contributions by government employees are work of the U.S. Government and are not subject to copyright protection in the United States. Portions contributed by government employees are USGovWork (17USC §105). Not subject to copyright. See: <https://www.usa.gov/government-works>

Contribution by contractors to the US Veterans Health Administration during this period are contractually contributed under the Apache License, Version 2.0 and US Government sponsorship is acknowledged under Contract VA118-16-D-1008-0007.

---

---

## Table of Contents

1. Basic File and Well-formedness Tests .....	1
2. XSD Schema Checks .....	2
3. Schematron Checks .....	3
4. Terminology Checks via Ontoserver .....	4

---

## List of Tables

1.1. Summary .....	1
2.1. KAS Schema Validation Summary .....	2
3.1. Editorial Convention Check .....	3
4.1. Ontoserver Information .....	4
4.2. Terminology and ANF Usage .....	4
4.3. TSR Requested Codes .....	5
4.4. SOLOR Placeholders .....	6
4.5. Other Unresolved .....	8

---

# Chapter 1. Basic File and Well-formedness Tests

**Table 1.1. Summary**

Information	Value
File name	CDSK_KRprt_CRDT_B47EConsult.xml
File size	79.0 KB
Type	Documentation Template
Publication Date	06/14/2018
File Modification Date	06/14/2018 09:55:53
Well-formed XML	YES
MD5	bb5a663216758cf12015179a6e01d87c

---

# Chapter 2. XSD Schema Checks

**Table 2.1. KAS Schema Validation Summary**

Information	Value
KAS Schema Version	urn:hl7-org:knowledgeartifact:r1
Schema File	knowledgedocument.xsd
Validation Errors	0

---

# Chapter 3. Schematron Checks

**Table 3.1. Editorial Convention Check**

Information	Value
Editorial Schematron Version	ISO Schematron 2016
Schema File	knart-L3-validation.sch, L3Validation.sch, KnartStyle.sch
Validation Errors	0
Validation Warnings	0

# Chapter 4. Terminology Checks via Ontoserver

**Table 4.1. Ontoserver Information**

Information		Value
Ontoserver URL		https://ontoserver.hspconsortium.org/fhir
Ontoserver Version		5.0
Date of Code Checks		06/14/2018 09:56:30
SNOMED	Version	http://snomed.info/sct/731000124108/version/20170901,http://snomed.info/sct/9000000000000207008/version/20170731
	Codes	443237
LOINC	Version	2.61,2.63
	Codes	126207
RXNorm	Version	Does not exist
	Codes	0
v3 Code System EducationLevel	Version	2016-03-23
	Codes	9

**Table 4.2. Terminology and ANF Usage**

Terminology References			
Total Codes Used <sup>a</sup>		70	
Resolved <sup>b</sup>		47	
Unresolved <sup>c</sup>	23	TSR Requested Codes <sup>d</sup>	1
		SOLOR Placeholder Codes <sup>e</sup>	12
		Other Unresolved <sup>f</sup>	10
ANF Model Reference Information			
anf:ClinicalStatement		0	
anf:TSR-NoModel <sup>g</sup>		0	

<sup>a</sup>Total number of unique codes referenced in the KNART XML.

<sup>b</sup>Number of unique codes used in the KNART XML and present in ontoserver.

<sup>c</sup>Number of unique codes used in the KNART XML and not found in ontoserver.

<sup>d</sup>Number of unique code system and code pairs referenced in the KNART XML with a placeholder ('TSR-NoCode').

<sup>e</sup>Number of unique codes in uuid form referenced in the KNART XML.

<sup>f</sup>Number of other unique codes not found in ontoserver, e.g. RXNorm codes.

<sup>g</sup>KAS elements modeled as 'anf:TSR-NoModel' indicates they cannot be modeled in the current version of ANF.



**Table 4.3. TSR Requested Codes**

	Information	Value
1	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	669
	Column	96
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=669column=96]
2	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	864
	Column	124
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=864column=124]
3	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	930
	Column	96
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=930column=96]
4	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	981
	Column	96
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=981column=96]
5	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	1001
	Column	124
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=1001column=124]
6	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	1064
	Column	96
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: TSR-NoCode

Information	Value
Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=1064column=96]

**Table 4.4. SOLOR Placeholders**

	Information	Value
1	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	418
	Column	168
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: 040b18ee-1d3d-4d83-a1ff-709add73fa68
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=418column=168]
2	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	506
	Column	162
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: 81cc06be-341d-4606-9841-a81ebc76a289
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=506column=162]
3	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	538
	Column	165
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: f0f88e7a-c854-4c0c-8533-677bef970dd5
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=538column=165]
4	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	546
	Column	177
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: 1b5c822e-cd98-42aa-b968-9f06d30fa7db
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=546column=177]
5	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	554
	Column	165
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: 2a1fd1f7-da54-437e-b2c0-7942376375b7
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=554column=165]
6	FileName	CDSK_KRprt_CRDT_B47EConsult.xml

	Information	Value
	Line	562
	Column	182
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: 84e193e6-2751-425f-99ae-12a97b184a88
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=562column=182]
7	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	613
	Column	175
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: 9980204d-cd97-4a01-8417-9681201abbb5
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=613column=175]
8	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	707
	Column	162
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: 4f5cc34f-7149-4b61-9b39-6e52c05e0581
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=707column=162]
9	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	768
	Column	170
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: 5660db37-e153-4a1e-8d41-cb2b76c6dffc
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=768column=170]
10	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	821
	Column	171
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a4a6e0fb-ba7c-42de-b050-9cb6395b632e
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=821column=171]
11	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	837
	Column	167
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: d0d483dd-7ebd-4f01-9869-d0d7a7f60af3
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=837column=167]

	Information	Value
12	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	1033
	Column	76
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a181b06c-80fb-4c93-9f64-ea3948a1d9dd
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=1033column=76]
13	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	1039
	Column	76
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a181b06c-80fb-4c93-9f64-ea3948a1d9dd
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=1039column=76]
14	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	1050
	Column	76
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a181b06c-80fb-4c93-9f64-ea3948a1d9dd
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=1050column=76]
15	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	1056
	Column	76
	Message	TSR requested for codeSystem: http://snomed.info/sct and code: a181b06c-80fb-4c93-9f64-ea3948a1d9dd
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=1056column=76]

**Table 4.5. Other Unresolved**

	Information	Value
1	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	311
	Column	147
	Message	Code 3841000175105, codeSystem http://snomed.info/sct not found in Ontoserver.
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=311column=147]
2	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	338
	Column	138

	Information	Value
	Message	Code 3471000175103, codeSystem http://snomed.info/sct not found in Ontoserver.
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=338column=138]
3	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	386
	Column	136
	Message	Code 3511000175109, codeSystem http://snomed.info/sct not found in Ontoserver.
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=386column=136]
4	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	410
	Column	146
	Message	Code 3541000175108, codeSystem http://snomed.info/sct not found in Ontoserver.
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=410column=146]
5	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	434
	Column	140
	Message	Code 449601000124105, codeSystem http://snomed.info/sct not found in Ontoserver.
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=434column=140]
6	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	442
	Column	137
	Message	Code 3591000175103, codeSystem http://snomed.info/sct not found in Ontoserver.
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=442column=137]
7	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	594
	Column	142
	Message	Code 3831000175104, codeSystem http://snomed.info/sct not found in Ontoserver.
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=594column=142]
8	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	605

	Information	Value
	Column	150
	Message	Code 3851000175107, codeSystem http://snomed.info/sct not found in Ontoserver.
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=605column=150]
9	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	653
	Column	142
	Message	Code 3491000175102, codeSystem http://snomed.info/sct not found in Ontoserver.
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=653column=142]
10	FileName	CDSK_KRprt_CRDT_B47EConsult.xml
	Line	922
	Column	138
	Message	Code 3661000175108, codeSystem http://snomed.info/sct not found in Ontoserver.
	Reference	KNART [file:CDSK_KRprt_CRDT_B47EConsult.xml#line=922column=138]