



# Department of Defense Healthcare Management System Modernization (DHMSM) Program

## *Attachment 2: Government Requirements Traceability Matrix (RTM)*

DHMSM Program Management Office  
DoD Healthcare Management Systems (DHMS) Program Executive Office

Contract Number: N00039-15-D-0044

Term	Definition
Clinical Decision Support (CDS)	This represents the ability to modify the usable data elements within the capability, for purposes of providing clinicians or patients with clinical knowledge and patient-related information, intelligently filtered or presented at appropriate times, to enhance patient care. Clinical knowledge of interest could range from simple facts and relationships to best practices for managing patients with specific disease states, new medical knowledge from clinical research and other types of information.
Workflow	This represents the ability to modify the data elements for the purposes of sequencing tasks in order to optimize the delivery of clinical care
Documentation	This represents the ability to modify the data elements for the purposes of Documentation of a discrete item of health information, to include: clinical observations, inferences, an intention, a plan or an action. Documentation is used in support of clinical decisions Includes additional robust documentation modalities such as Natural Language Processing (NLP) and Clinical Pictorial Charting.
Connected Care	Capability required in environments where the care provider is able to connect to the primary Information Technology (IT) network and central EHR to access or input health information/data, medical records, or other health resources.
Disconnected care	Capability is required in environments with Low/No Bandwidth. Disconnected care refers to care provided in austere communication environments where the health care provider cannot connect to the primary Information Technology (IT) network and central EHR to access or add to the health information system, medical records, or other health related resources. The ability to document and store locally (laptop, shipboard) then re-synch when the network connection becomes available is required.
Mobile Devices	Capability is required for documentation and view/extract for healthcare delivery on Mobile Devices (wireless) such as handheld, laptop or tablet computers.

**Note: The columns on the spreadsheet starting with DA1 through AV5 descriptions and code values are provided in the table below**

**Field Keys for column**

Field Code	Field Name	Codes
DA1	Modernization	Data Attribute: Round-trip Response Latency (0 = N/A, 1 = Seconds, 2 = Minutes, 3 = Hours)
DA2	Modernization	Data Attribute: Data Latency 1 = Real-time 2 = Recent (0-1 week) 3 = Aged a (1week – 1 month)s 4 = Aged b (1 month-6 months) 5 = Aged c (6 months-1year) 6 = Aged d (1 yr -5 yrs) 7 = Aged e (Greater than 5 years)
DA3	Modernization	Data Attribute: Non-repudiation of archived information (0 = No, 1 = Yes)
DA4	Modernization	Data Attribute: Persistent vs. Transient (0 = N/A, 1 = Persistent, 2 = Transient)
DA5	Modernization	Data Attribute: Archival (0 = N/A, 1 = Applies)
DA6	Modernization	Data Attribute: Audit (0 = N/A, 1 = Applies)
DA7	Modernization	Data Attribute: Atomic vs. Aggregate (0 = Neither, 1 = Atomic, 2 = Aggregate, 3 = Both) (Speaks to an Individual, unless specified)
DA8	Modernization	Data Attribute Derived (0 = N/A, 1 = Applies)
DA9	Modernization	Data Attribute: Data is Standard vs. Non-Standard (0 = N/A, 1 = Non-Recognized Standard, 2 = National Standard)
DA10	Modernization	Data Attribute: Domain qualification of the data (non-derived data) (1 = DoD, 2 = VA, 3 = Network Care, 4 = Other Source)
MD1	Data	Migrate Data from Legacy (0 = No, 1 = Yes)
ILD	Data	Integrate Legacy Data w/ Health Info Mgmt System (0 = No, 1 = Yes)
CL	Data	Coexistence with Legacy 1 = Coexist with Legacy to Sunset NLT FOC 2 = Coexist TBD
DA11	Transition	Data Attribute: Round-trip Response Latency (0 = N/A, 1 = Seconds, 2 = Minutes, 3 = Hours)

**Note: The columns on the spreadsheet starting with DA1 through AV5 descriptions and code values are provided in the table below**

**Field Keys for column**

Field Code	Field Name	Codes
DA12	Transition	Data Attribute: Data Latency 1 = Real-time 2 = Recent (0-1 week) 3 = Aged a (1 week – 1 month)s 4 = Aged b (1 month-6 months) 5 = Aged c (6 months-1year) 6 = Aged d (1 yr -5 yrs) 7 = Aged e (Greater than 5 years)
DA13	Transition	Data Attribute: Non-repudiation of archived information (0 = No, 1 = Yes)
DA14	Transition	Data Attribute: Persistent vs. Transient (0 = N/A, 1 = Persistent, 2 = Transient)
DA15	Transition	Data Attribute: Archival (0 = N/A, 1 = Applies)
DA16	Transition	Data Attribute: Audit (0 = N/A, 1 = Applies)
DA17	Transition	Data Attribute: Atomic vs. Aggregate (0 = Neither, 1 = Atomic, 2 = Aggregate, 3 = Both) (Speaks to an Individual, unless specified)
DA18	Transition	Data Attribute Derived (0 = N/A, 1 = Applies)
DA19	Transition	Data Attribute: Data is Standard vs. Non-Standard (0 = N/A, 1 = Non-Recognized Standard, 2 = National Standard)
DA20	Transition	Data Attribute: Domain qualification of the data (non-derived data) (1 = DoD, 2 = VA, 3 = Network Care, 4 = Other Source)
EC1	Enterprise	Enterprise Config: CDS
EC2	Enterprise	Enterprise Config: Workflow
EC3	Enterprise	Enterprise Config: Documentation (ability to have a form and make it what you want)
AV1	Availability	Availability: Connected Care (1-Yes; 0-No)
AV2	Availability	Availability: Dis-Connected Care (1-Yes; 0-No)
AV3	Availability	Availability: Mobile Devices (1-Must Have; 2-Trade Space; 3-Don't Need or N/A)
AV4	Availability	Availability: Continuity of Operations (1-Full Redundancy / 100% Availability; 2-High Availability; 3-Basic Availability; 0-N/A)
AV5	Availability	Availability: Patient Access (1-Yes; 0-No)







Req ID	Capabilities	Definition	RTM Classification	Req ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	
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Critical Success Factor (CSF): Those attributes or characteristics of a system that are considered most critical or essential to the development of an effective military capability. (JCIDS-KPP)		
CSF	Production Threshold	Production Objective
1	<b>Net-ready (NR)</b> 1. Supports military health care delivery operations across the full range of military operations.	1. Support the provision of quality, efficient, effective health care to individual patients and to populations. Be flexible and configurable to accommodate changing standards of practice in multiple health care settings. Be employable in all DoD health care environments , and maintain a rapid time to clinical adoption.
	2. Able to be entered (deployed) and managed on provided computing and communications networks.	2. Comply with all applicable DoD, federal government, and health care industry standards.
	3. Effectively exchanges information with Department of Veterans Affairs (VA) and other national and international partners.	3. Have a standards-compliant common clinical data model to achieve interoperability among the applications that comprise the DoD EHR and with EHRs employed by the VA and our national and international partners.
2	<b>Tactical Operational Environment</b>	Shall meet Connectivity, Latency and Reliability requirements in the "Tactical Fixed Center" and "Tactical Mobile Center" environments described in the DISA Operational Environments Model in Figure 1 (below). Objective = Threshold
3	<b>Mobile Operational Environment</b>	Shall meet Connectivity, Latency and Reliability requirements in the "Mobile Platform" environments described in the DISA Operational Environments Model in Figure 1 (below). Objective = Threshold
4	<b>Dismounted Operational Environment</b>	Shall meet Connectivity, Latency and Reliability requirements in the "Dismounted User" environments described in the DISA Operational Environments Model in Figure 1 (below). Objective = Threshold

Navy Echelon		Large Ship and Support Ship				
Army Echelon		Theater	BGD and BN	CO	PLT and below	
USMC Echelon		MEF, DIV, REG	BN	CO	PLT and below	
Tactical Edge Constraints		Tactical Fixed Center	Tactical Mobile Center	Mobile Platform	Dismounted User	
Network	Bandwidth	SATCOM	Army/Navy: nearly unlimited Marine: <8/20Mbps	Army: <3/4 Mbps (2013) 0.5/4 Mbps (now) Navy: 128/256/512Kbps/ 4Mbps (2013) Marine: <4 Mbps	Army: 0.3Kbps(now), 128Kbps(2013) Marine: <2.6/19/120Kbps /8Mbps	Army: 0.3Kbps(now), 9.6Kbps(2013) Marine: <2.6/60Kbps
		WAN	Army/Navy: nearly unlimited Marine: <16Mbps	Army: 2Mbps(now), 10Mbps(2013) Navy: None Marine: <16Mbps	Army: 128-256Kbps(now), 0.6-2Mbps(2013) Marine: <2.6/16/486Kbps	Army: 9.6-64Kbps(now), 0.6Mbps(2013) Marine: <2.4/16Kbps
	Connectivity	LAN	>85%	>85%	25-84%	5-24%
		WAN	>99%	85-99%	25-84%	<5%
	Latency	LAN	<250ms	<250ms	>250ms	>250ms
		WAN	<250ms	250-1000ms	250-1000ms	>1000ms
	Reliability	LAN	>90%	>90%	>90%	>90%
WAN		>90%	>75%	<75%	<75%	
System	User Interface	desktop-laptop	desktop-laptop	laptop-tablet-handheld	laptop-tablet-handheld	
	Processing Power	nearly unlimited	300-900 spec int	<300 spec int	<30 spec int	
	Storage	nearly unlimited	~10-50TB	~500GB	~160GB	
	Weight	100s lbs	100s lbs	10-100 lbs	<10 lbs	
	Power	grid, macro generator	generator - batteries	generator -batteries	batteries	
Operational	Decision Time	minutes - weeks	minutes - days	seconds -minutes	seconds - minutes	
	Content	complex	complex	intermediate	simplified	
	Mobility	fixed	occasional move	frequent move	frequent move	

Figure 1. – DISA Operational Environments Model

<b>Key System Attribute (KSA): System attributes considered critical or essential for an effective military capability but not selected as CSFs. (JCIDS)</b>	
KSA ID	KSA
1	<p><b>Scalability KSA:</b>  <b>The system shall support all &lt;Threshold = Objective = All&gt; end-users, organizations, and locations for both Segment 1 and 2.</b>                      Supporting Non-Functional Requirements IDs: 21, 177, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190</p>
2	<p><b>Availability KSA:</b>  <b>Given an operational network, the system shall respond as expected &lt;Threshold = 98%; Objective = 100%&gt; of the times an end-user enters or requests information.</b>                      Supporting Non-Functional Requirements IDs: 71, 158, 159, 163, 165, 212</p>
3	<p><b>Maintainability KSA:</b>  <b>Given a fully operational end-user device and network connectivity to the Help Desk, full service shall be restored to the user within 6 hours of receiving a problem report at the Help Desk.</b>                      Supporting Non-Functional Requirements IDs: 46, 47, 72, 73, 74, 193, 194</p>
4	<p><b>Reliability KSA:</b>  <b>At the level of a medical department within an MTF (e.g., Emergency Room), the Mean Time Between Critical Failure (MTBF) for an MTF shall be no less than &lt;Threshold = 9,000 hours; Objective = 10,000 hours&gt;, and the Mean Time Between Failure (MTBF) shall be no less than &lt;Threshold = 5,000 hours; Objective = 10,000 hours&gt;</b>                      Supporting Non-Functional Requirements IDs: 166, 167</p>
5	<p><b>Data Migration KSA:</b>  <b>Threshold = Objective = During initial patient registration, the system shall support data migration from legacy systems for core data (as defined in the Health Readiness CONOPS), active diagnoses, procedures, allergy information, and outpatient medications.</b>                      Supporting Non-Functional Requirements IDs: 118, 119, 120, 121</p>

6	<p><b>OSA KSA:</b>  <b>All DHMSM requirements shall be attained through system configuration, integration, and limited development (e.g., using existing, licensed and documented EHR interfaces and software libraries) with no modifications to BoS EHR components that will create a DoD-only instance of the product.</b>                  Supporting Non-Functional Requirements IDs: 35, 45, 54</p>
7	<p><b>Security KSA:</b>  <b>The system shall achieve its Authority to Operation (ATO) based on its MAC and Sensitivity levels in accordance with the Information Assurance (IA) applying at the time (RMF/NIST) and meet all thresholds identified in supporting requirements.</b>                  Supporting Non-Functional Requirements IDs: 1, 8, 23, 24, 52, 53</p>
8	<p><b>Performance KSA:</b>  <b>1. Interactive-User Response Time shall be sub-second for connected and disconnected care for the following healthcare areas:</b>                  - Ambulatory Dental, Medical, Surgical                  - All Inpatient                  - Emergency Department                  - Intensive Care                  - Obstetrics  <b>2. Round-Trip Response Time shall be no less than &lt;Threshold = 5 seconds; Objective = 3 seconds&gt; given fully operational network connectivity between the MTF and the distant node involved in the data processing transaction.</b></p> <p>Notes:                  1. Interactive-User Response Time means the duration of time between either (1) the submission of input until the system acknowledges receipt or (2) the submission of a correctly completed request for information until the information is displayed.                  2. Round-Trip Response Time means the duration of time between either (1) the submission of input until the system acknowledges receipt or (2) the submission of a correctly completed request for information until the information is display, given that the transaction must be processed through a geographically distant site and that the network is fully operational.</p> <p>Supporting Non-Functional Requirements IDs: 170, 171, 173, 174, 175, 221</p>

**Critical Technical Parameter (CTP): are measurable critical system characteristics that, when achieved, enable the attainment of desired operational performance capabilities. They are derived from user capabilities and are normally used in Developmental Test and Evaluation (DT&E). CTPs are not the CSFs or KSAs. CTPs should be focused on critical design features or risk areas (e.g., technical maturity, reliability, availability, and maintainability, etc.) that if not achieved or resolved during development, will preclude delivery of required operational capabilities. (DAG)**

Req ID	Requirement Title	Requirement Description (Applies to entire enterprise which include Segment 1 and Segment 2)	Critical Success Factor	Key System Attribute	Critical Technical Parameter	Requirements Authoritative Source	Threshold	Objective
0001	Access Control	The system shall lock after a specified period of inactivity regardless of how the system is accessed in accordance with DoD Cybersecurity controls.		7		Defining and Testing EMR Usability DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a> DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a>	Threshold = Objective	Timeout is configured to meet the most stringent requirements defined by either DoD, DHA, PII, and/or PIA requirements for timeout
0002	Approved Software (SW) List	The system shall be compliant with DoD approved software				The UC Approved Products List <a href="http://bit.ly/1uVINZf">http://bit.ly/1uVINZf</a>	Threshold = Objective	Requirement realized
0003	Approved Hardware (HW) List	The system shall be compliant with DoD approved hardware				The UC Approved Products List <a href="http://bit.ly/1uVINZf">http://bit.ly/1uVINZf</a>	Threshold = Objective	Requirement realized
0004	Approved TMIP Hardware - Client Laptop Specification	The system shall be able to perform required functions on the hardware defined by the minimum hardware specification document as follows: <ul style="list-style-type: none"> <li>- Processor: Intel dual core 2.4 GHz; 64 bit</li> <li>- RAM: 4 GB</li> <li>- Hard disk: 160 GB/ 5400 rpm</li> <li>- Optical Drive: DVD R/W Drive 8X</li> <li>- Network - Ethernet Card (10/100/Gigabit)</li> <li>- Wireless</li> <li>- USB ports: 2</li> <li>- Display 14.1 inch/resolution 1600x900</li> <li>- Smart Card Reader</li> <li>- Pointing Device: PS/2 compatible Mouse</li> </ul>				I2 R3 Minimum Hardware Requirements.png MC4 HW Spec Sheets 20140415.pdf MC4702-SCD1405 Laptop Hardware Specification.pdf USMC Minimum HW Requirements.docx	Threshold = Objective	Requirement realized
0005	Automated Information Tracking	The system shall provide the ability to perform automated information tracking (AIT) (e.g., barcoding, RFID)				2010 01 21 Health Readiness CONOPS.pdf	Threshold = Objective	Requirement realized

0007	Business Intelligence	The system shall provide the ability for users to perform configurable analytics				2010 01 21 Health Readiness CONOPS.pdf	Threshold = Objective	Requirement realized
0008	Identity Management	The system shall use DoD standardized identity management framework		7		DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	The system shall authenticate CAC users from an authoritative data source, based on the DoD PKI cert
0009	Access Management	The system shall use DoD standardized access management methods				DoD Cloud Computing Strategy <a href="http://1.usa.gov/1g4Tjlp">http://1.usa.gov/1g4Tjlp</a>	Threshold = Objective	The system uses approved methods and products for providing access management.
0010	Data Access	The system shall support the ability to access data elements using open standard based interfaces including legacy data	1.2			DoD Directive 5000.01 <a href="http://1.usa.gov/1kTm1cq">http://1.usa.gov/1kTm1cq</a> 20140805 I2TP_Signed_TAB A.pdf OSA Guidebook v 1_1 final <a href="http://1.usa.gov/RALnDh">http://1.usa.gov/RALnDh</a>	Comply with all applicable DoD, federal government, and health care industry standards.	Objective = Threshold
0011	Data Encryption - Mobile Device	The system shall support the encryption of Sensitive But Unclassified (SBU) Data at Rest on mobile computing devices	1.2			DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a> DoD-DAR-TPM-Decree 07-03-2007 <a href="http://bit.ly/1nzMK2H">http://bit.ly/1nzMK2H</a>	Threshold = Objective	All data stored on mobile devices is encrypted using approved DoD encryption methods
0012	Data Encryption In Transit	The system shall support the encryption of Sensitive But Unclassified (SBU) Data in transit	1.2			DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a>	Threshold = Objective	The system encrypts data being transmitted using approved DoD encryption mechanisms
0013	Data Strategy	The system shall support the ability to migrate core data elements from the legacy systems using approved open standards	1.3			2010 01 21 Health Readiness CONOPS.pdf 2011 02 22 HSD CONOPS.pdf	Shall meet Connectivity, Latency and Reliability requirements in the "Mobile Platform" environments described in the DISA Operational Environments Model in the CSF Reference	Objective = Threshold

0014	Data Storage - Disconnected Clients/Sites	The disconnected clients shall be able to store data	1.1			2011 11 17 FHP CONOPS.pdf 2010 01 21 Health Readiness CONOPS.pdf	Support the provision of quality, efficient, effective health care to individual patients and to populations. Be flexible and configurable to accommodate changing standards of practice in multiple health care settings. Be employable in all DoD health care environments , and maintain a rapid time to clinical adoption.	Objective = Threshold
0015	Deployed Capability Data Requirements	The system shall support the TMDS data requirements in support of operational needs	1.1			2011 11 17 FHP CONOPS.pdf DHMSM Interface Strategy v1 0 25- 07-2014.pdf	Support the provision of quality, efficient, effective health care to individual patients and to populations. Be flexible and configurable to accommodate changing standards of practice in multiple health care settings. Be employable in all DoD health care environments , and maintain a rapid time to clinical adoption.	Objective = Threshold
0016	Disconnected Client	The system shall be able to provide patches to disconnected clients	1.1			2011 11 17 FHP CONOPS.pdf	Support the provision of quality, efficient, effective health care to individual patients and to populations. Be flexible and configurable to accommodate changing standards of practice in multiple health care settings. Be employable in all DoD health care environments , and maintain a rapid time to clinical adoption.	Objective = Threshold
0017	Dismounted User Environment	The system shall support the deployment environments in accordance with the tactical edge framework for the dismounted user environment	4			2011 11 17 FHP CONOPS.pdf	Shall meet Connectivity, Latency and Reliability requirements in the "Dismounted User" environments described in the DISA Operational Environments Model in the CSF Reference	Objective = Threshold

0018	Technical Event Management - Identify	The system shall provide a mechanism to identify system events in accordance with DoD Instruction 8500.01 (e.g., failed log-ins, system error)				DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a> DoD-DAR-TPM-Decree 07-03-2007 <a href="http://bit.ly/1nzMK2H">http://bit.ly/1nzMK2H</a>	Threshold = Objective	Requirement realized
0021	Hosting - FDCCI	The system shall align to the FDCCI objectives, minimizing the amount of system unique hardware and infrastructure required to support system scalability		1		DoD Cloud Computing Strategy <a href="http://1.usa.gov/1g4Tjlp">http://1.usa.gov/1g4Tjlp</a> Federal Data Center Consolidation Initiative(FDCCI) 02-26-2010 <a href="http://1.usa.gov/1nx0k4p">http://1.usa.gov/1nx0k4p</a>	Threshold=objective	Requirement realized
0022	Hosting - Computing Strategies	The system hosting shall align to the DoD computing strategies				DoD Cloud Computing Strategy <a href="http://1.usa.gov/1g4Tjlp">http://1.usa.gov/1g4Tjlp</a> Federal Data Center Consolidation Initiative(FDCCI) 02-26-2010 <a href="http://1.usa.gov/1nx0k4p">http://1.usa.gov/1nx0k4p</a>	Threshold = Objective	Requirement realized
0023	Information Access	The system shall provide role-based access		7		DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a>	Threshold = Objective	The system user roles are well defined to show segregation of system component access and approval authority; also based on role only information that the role should access is accessible.
0024	Cybersecurity	The system shall meet DoD Cybersecurity requirements based on an impact level of NIST High for confidentiality, High for integrity, and Moderate for availability in order to obtain an ATO (DoD Risk Management Framework)		7		DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a>	All CAT I issues are resolved prior to operational testing, CAT II and CAT III issues have approved mitigation strategies. (Metrics will be leveraged to manage Cybersecurity CTPs throughout the system lifecycle). System achieves an ATO in accordance with the deployment timelines	No CAT findings
0025	Integration	The system shall enable product upgrades				DoD Directive 5000.01 <a href="http://1.usa.gov/1kTm1cq">http://1.usa.gov/1kTm1cq</a> OSA Guidebook v 1_1 final <a href="http://1.usa.gov/RALnDh">http://1.usa.gov/RALnDh</a>	Threshold = Objective	Requirement realized

0026	Interfaces	The system shall provide the ability to interface with devices using open standards (e.g., medical devices (hardware), related network devices (printers))				DoD Directive 5000.01 <a href="http://1.usa.gov/1kTm1cq">http://1.usa.gov/1kTm1cq</a> OSA Guidebook v 1_1 final <a href="http://1.usa.gov/RALnDh">http://1.usa.gov/RALnDh</a>	Threshold = Objective	Requirement realized
0027	Interoperability - Ports/Protocols	The system shall support network interoperability, using DoD approved ports and protocols	1.3			DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a>	Shall meet Connectivity, Latency and Reliability requirements in the "Mobile Platform" environments described in the DISA Operational Environments Model in the CSF Reference	Objective = Threshold
0028	Joint Integrated Environment Enablement	The system shall leverage enterprise data centers using applicable Joint Integrated Environment objectives				Signed ITESR 09-06-2011 <a href="http://1.usa.gov/1izhdGg">http://1.usa.gov/1izhdGg</a>	Threshold = Objective	Requirement realized
0029	Limited Communications	The system shall work in environments where limited connectivity is available (low-comm)	1.1			2011 11 17 FHP CONOPS.pdf	Support the provision of quality, efficient, effective health care to individual patients and to populations. Be flexible and configurable to accommodate changing standards of practice in multiple health care settings. Be employable in all DoD health care environments , and maintain a rapid time to clinical adoption.	Objective = Threshold
0032	Mobile Center Environment	The system shall support the deployment environments in accordance with the tactical edge framework for the Tactical Mobile Center environment	3			2011 11 17 FHP CONOPS.pdf	Shall meet Connectivity, Latency and Reliability requirements in the "Mobile Platform" environments described in the DISA Operational Environments Model in the CSF Reference	Objective = Threshold
0033	Mobile Platform Environment	The system shall support the deployment environments in accordance with the tactical edge framework for the Mobile Platform environment	3			2011 11 17 FHP CONOPS.pdf	Shall meet Connectivity, Latency and Reliability requirements in the "Mobile Platform" environments described in the DISA Operational Environments Model in the CSF Reference	Objective = Threshold

0034	Net-Centric Data Environment	The system shall be compatible with DoD data strategy				Net Centric Data Strategy 2003-05-09 <a href="http://1.usa.gov/1oeuOuq">http://1.usa.gov/1oeuOuq</a> DoD Instruction 8320.02, August 5, 2013, Sharing Data, Information, and Information Technology (IT) Services in the Department of Defense <a href="http://1.usa.gov/Sf65sQ">http://1.usa.gov/Sf65sQ</a>	Threshold = Objective	Requirement realized
0035	Net-Centric Environment	The system shall be compatible with DoD net-centric services strategy		6		20140805 I2TP_Signed_TAB A.pdf DoD Instruction 8320.02, August 5, 2013, Sharing Data, Information, and Information Technology (IT) Services in the Department of Defense <a href="http://1.usa.gov/Sf65sQ">http://1.usa.gov/Sf65sQ</a>	Custom system interfaces shall use open systems architecture that meets the IPO standards.	System interfaces shall use established commercially available EHR APIs.
0036	Network Configurability	The system shall provide the ability to configure the ports and protocols used by the system (no hard coded ports or protocols)				DoD Instruction 5000.02 <a href="http://1.usa.gov/1iyeuNq">http://1.usa.gov/1iyeuNq</a>	Threshold = Objective	Requirement realized
0037	Networking - IPV6	The system shall be IPV6 capable				disr_ipv6_50.pdf	Threshold = Objective	System will be IPV6 compatible
0038	Open Standards	The system shall be implemented using open standards for key interfaces at the system component capability level				DoD Directive 5000.01 <a href="http://1.usa.gov/1kTm1cq">http://1.usa.gov/1kTm1cq</a> OSA Guidebook v 1_1 final <a href="http://1.usa.gov/RALnDh">http://1.usa.gov/RALnDh</a>	Open standards are used for key interfaces at the system component capability level	Open standards are used for all interfaces at the system component capability level
0039	PKI Infrastructure	The system shall use DoD-approved public key infrastructure (PKI) certificates in PKI-based identity authentication processes for component business and mission processes				DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a>	Threshold = Objective	All DHMSM system/servers will have valid PKI certificates installed and used on web-based systems, websites and web servers.

0040	Portability - Open Standards	The system shall be capable of sharing data using DoD approved open standards	1.3			DoD Directive 5000.01 <a href="http://1.usa.gov/1kTm1cq">http://1.usa.gov/1kTm1cq</a> OSA Guidebook v 1_1 final <a href="http://1.usa.gov/RALnDh">http://1.usa.gov/RALnDh</a>	Shall meet Connectivity, Latency and Reliability requirements in the "Mobile Platform" environments described in the DISA Operational Environments Model in the CSF Reference	Objective = Threshold	
0041	Portability - Web Browsers	The system shall run on DoD-approved web browsers				DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a>	Threshold = Objective	Requirement realized	
0042	Portability - Operating Systems	The system shall work on DoD-approved operating systems				DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a>	Threshold = Objective	Requirement realized	
0043	Portal Access - Patient	The system shall enable a patient the ability to interact with patient information (e.g., patient-facing interface)				2010 01 21 Health Readiness CONOPS.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized	
0045	Modularity	The system shall consist of a loosely coupled, high cohesion modular design based on open standards allowing for the independent acquisition of system components, technologies and new capabilities			6	DoD Directive 5000.01 <a href="http://1.usa.gov/1kTm1cq">http://1.usa.gov/1kTm1cq</a> OSA Guidebook v 1_1 final <a href="http://1.usa.gov/RALnDh">http://1.usa.gov/RALnDh</a>	Custom system interfaces shall use open systems architecture that meets the IPO standards.	System interfaces shall use established commercially available EHR APIs.	
0046	DISA STIG Software Vulnerabilities - Category I	The system shall provide access to the code to perform code vulnerability scans based on automated security and quality scans performed by SCQC. (Correction or mitigation through government-approved compensating controls prior to entry of the software into government test; applies to Category I DISA STIG vulnerabilities.)			3	x	DISA Application Development and Security Technical Implementation Guide Defense Acquisition Guide-Program Protection Planning <a href="http://bit.ly/1j7mPI3">http://bit.ly/1j7mPI3</a>	Threshold=Objective	100% Category I vulnerabilities corrected or mitigated
0047	System Backward Compatibility	The system shall be backward compatible to support system interoperability between deployed versions of the system, at least two generations of the system baseline			3		2011 11 17 FHP CONOPS.pdf 2010 01 21 Health Readiness CONOPS.pdf	Backward compatible for two generations	Backward compatible for more than two generations

0048	System Workflows	The system shall be capable of configurable workflow modifications to meet DoD changes (e.g., policy, directives, and strategies.)	1.1			DoD Instruction 5000.02 <a href="http://1.usa.gov/1iyeuNq">http://1.usa.gov/1iyeuNq</a>	Support the provision of quality, efficient, effective health care to individual patients and to populations. Be flexible and configurable to accommodate changing standards of practice in multiple health care settings. Be employable in all DoD health care environments , and maintain a rapid time to clinical adoption.	Objective = Threshold
0049	Tactical Fixed Center Environment	The system shall support the deployment environments in accordance with the tactical edge framework for the Tactical Fixed Center Environment	2			2011 11 17 FHP CONOPS.pdf	Comply with all applicable DoD, federal government, and health care industry standards.	Objective = Threshold
0051	User Configuration	The system shall enable role configuration				DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a>	Threshold = Objective	Requirement realized
0052	User Login - CAC	The system shall provide the ability of the user to log in to the system via a DoD common access card (CAC)		7		DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a>	Threshold = Objective	All CAC users are authenticated and clear traceability of their DoD identifier is mapped to a unique system account.
0053	User Login - Two Factor	The system shall provide the ability of the user to log in to the system using two factor authentication		7		DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a>	Threshold = Objective	All users are authenticated using two factor and mapped as authenticated identities to a system account
0054	Integration - Open Standards	The system shall enable integration with external solutions into the proprietary solution baseline using open standards		6		DoD Directive 5000.01 <a href="http://1.usa.gov/1kTm1cq">http://1.usa.gov/1kTm1cq</a> OSA Guidebook v 1_1 final <a href="http://1.usa.gov/RALnDh">http://1.usa.gov/RALnDh</a>	Custom system interfaces shall use open systems architecture that meets the IPO standards.	System interfaces shall use established commercially available EHR APIs.
0055	Wireless Access	The system shall support wireless local-area network communication in accordance with DoD policy				DoD Instructions 8420.01 <a href="http://1.usa.gov/1ghrQOh">http://1.usa.gov/1ghrQOh</a>	Threshold = Objective	Requirement realized
0056	Secure Messaging	The system shall provide secure messaging for exchanging PII/PHI information				DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a>	Threshold = Objective	The system encrypts PII/PHI data in transit

0057	DoD Standards	The system shall be implemented based on Health Care Information Interoperability Technical Package (I2TP)	1.3			20140805 I2TP_Signed_TAB A.pdf	Shall meet Connectivity, Latency and Reliability requirements in the "Mobile Platform" environments described in the DISA Operational Environments Model in the CSF Reference	Objective = Threshold
0058	Data Community Of Interest	The system shall implement data models that adhere to the DoD medical community of interest standards based on the ONC data exchange standards				DoD Directive 5000.01 <a href="http://1.usa.gov/1kTm1cq">http://1.usa.gov/1kTm1cq</a> OSA Guidebook v 1_1 final <a href="http://1.usa.gov/RALnDh">http://1.usa.gov/RALnDh</a>	Threshold = Objective	Requirement realized
0059	Section 508 Compliance	The system shall meet section 508 requirements in accordance with Federal and DoD policies, directives and standards				Section508 Laws _ Section508 <a href="http://1.usa.gov/1uKBKBJ">http://1.usa.gov/1uKBKBJ</a> DoD Instruction 5000.02 <a href="http://1.usa.gov/1iyeuNq">http://1.usa.gov/1iyeuNq</a>	Threshold = Objective	Requirement realized
0060	NCPDP	The system shall meet the National Council for Prescription Drug Programs (NCPDP) standards in accordance with the latest version of each standard defined by the NCPDP				Standards Matrix <a href="http://bit.ly/1sviV2R">http://bit.ly/1sviV2R</a>	Threshold = Objective	Requirement realized
0061	ONC CHPL Certified	The system shall meet the Office of National Coordinator (ONC) certifications on the CHPL incremental updates as published (these updates meet regulatory improvements, enhance interoperability and "bug fixes")				Standards and Certification Regulations Policy Researchers and Implementers HealthIT <a href="http://bit.ly/1fhfqFz">http://bit.ly/1fhfqFz</a>	Threshold = Objective	Requirement realized
0062	International Classification Of Diseases	The system shall meet all International Classification of Diseases (ICD) standards as mandated				20140805 I2TP_Signed_TAB A.pdf	Threshold = Objective	Requirement realized
0064	Records Management	The system shall meet all DoD Medical community records management requirements				DoD Directive 6040.45 <a href="http://1.usa.gov/1jahpBR">http://1.usa.gov/1jahpBR</a> DoD Directive 6040.41 <a href="http://1.usa.gov/1oIIuSuZ">http://1.usa.gov/1oIIuSuZ</a> DoD Directive 6040.42 <a href="http://1.usa.gov/1uU4Tu0">http://1.usa.gov/1uU4Tu0</a> Office Of The Under Secretary Of Defense Personnel and Readiness <a href="http://1.usa.gov/1mO6m3F">http://1.usa.gov/1mO6m3F</a>	Threshold = Objective	Requirement realized

0067	Patient Registration	The system shall provide the capability for automated patient registration via government-issued identity token				DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0071	System Downtime	The system shall not exceed the number of scheduled system shutdowns per year threshold		2	x	DoD Instruction 5000.02 <a href="http://1.usa.gov/1iyeuNq">http://1.usa.gov/1iyeuNq</a> EMP	Threshold = Objective	≤ 5 instances per year
0072	Software MTTR	The system shall meet component software Mean Time to Repair (MTTR) threshold. Total volume of incidents reported automatically by monitoring systems and calculated as Total Incident Time Open + 6hrs		3	x	DoD Instruction 5000.02 <a href="http://1.usa.gov/1iyeuNq">http://1.usa.gov/1iyeuNq</a> EMP	Threshold = Objective	≤ 6hrs per incident
0073	Hardware MTTR	The system shall meet component hardware Mean Time to Repair (MTTR) threshold. Total volume of incidents reported automatically by monitoring systems and calculated as Total Incident Time Open + 12hrs		3	x	DoD Instruction 5000.02 <a href="http://1.usa.gov/1iyeuNq">http://1.usa.gov/1iyeuNq</a> EMP	Threshold = Objective	≤ 12hrs per incident
0074	MTTRS	The system shall meet Mean Time to Repair System (MTTRS) threshold needed to switch to a redundant backup unit		3	x	DoD Instruction 5000.02 <a href="http://1.usa.gov/1iyeuNq">http://1.usa.gov/1iyeuNq</a> EMP	No data loss; ≤ 1 hr	No data loss; ≤ 1 min
0076	Patient Identity - Identifier	The system shall use the DoD Identifier as the uniform person identifier				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized

0077	Patient Identity - SSN	The system shall not use SSN as a patient identifier but shall collect it as an element of identity trait search to the enterprise Identity Management System (i.e., DEERS)				DEERS Health_ConOps_wAttribute_Draft.docx Technical Specification for Patient Registration Service -DRGS-v2.2.doc DoDI 1000.30 Reduction of Social Security Number (SSN) Use Within DoD <a href="http://1.usa.gov/RGtTVO">http://1.usa.gov/RGtTVO</a>	Threshold = Objective	Requirement realized
0078	Patient Identity - Synchronization	The system shall be able to synchronize all patient identities to the enterprise Identity Management System (i.e., DEERS)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0079	Patient Identity - Identity Set	The system shall be able to display a minimum identity set (name, DOB, gender, and DoD Identifier)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized

0080	Patient Identity - Patient Identifier	The system shall be able to retrieve patient identity information (name, DOB, gender) from the enterprise Identity Management System (i.e., DEERS) using the DoD Identifier (aka EDI_PI)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a> Technical Specification for Patient Registration Service -DRGS-v2.2.doc	Threshold = Objective	Requirement realized
0081	Patient Identity - Person Identifier	The system shall be able to retrieve patient identity information (name, DOB, gender) from the enterprise Identity Management System (i.e., DEERS) using identity traits such as person identifier (e.g., SSN, TIN, FIN, etc.), DOB, gender				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0082	Patient Identity - Patient Search Results	The system shall be able to present up to 10 patient search results				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized

0083	Patient Identity - Additional Traits	The system shall be able to display returned additional candidate traits to assist the operator in selecting the correct patient from the list of search candidates				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0084	Patient Identity - Search Error	The system shall be able to present patient search results that return 0 candidates, along with an error code that indicates person not found				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0085	Patient Identity - Primary Search	The system shall conduct the primary patient search against the enterprise Identity Management System (i.e., DEERS)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized

0086	Patient Identity - Card Scan	The system shall be able to obtain the DoD Identifier by scanning the patient's DoD Identification Cards (barcode)			Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0087	Patient Identity - Family Search	The system shall be able to perform family searches based on family sponsor's identity to the enterprise Identity Management System (i.e., DEERS)			Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf 2011 11 17 FHP CONOPS.pdf DEERS Health_ConOps_wAttribute_Draft.docx 2011 02 22 HSS CONOPS.pdf DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a> 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0088	Patient Identity - Trait Update	The system shall be able to enforce an identity trait update authorization code			Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized

0089	Patient Identity - Trait Retrieve	The system shall retrieve identity traits from the enterprise Identity Management System (i.e., DEERS) prior to updating patient traits				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0090	Patient Identity - Patient Search	When communications allow, the system shall enforce a search to the enterprise Identity Management System (i.e., DEERS) prior to adding a new patient				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0091	Patient Identity - Add Patient	The system shall be able to add a patient to the enterprise Identity Management System (i.e., DEERS)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized

0092	Patient Identity - Trauma Patient	The system shall be able to support the registration of trauma patients (aka John Does)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0093	Patient Identity - Newborn Patients	The system shall be able to add newborn patients including a reference to the sponsor's DoD Identifier				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0094	Patient Identity - Working Animals	The system shall be able to support the registration of military working animals when services are required in MTFs (e.g., drugs, lab, radiology)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf 2011 11 17 FHP CONOPS.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized

0095	Patient Identity - Maintenance Notifications	The system shall consume identity maintenance notifications from the enterprise Identity Management System (i.e., DEERS)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0096	Patient Identity - Identity Updates	The system shall apply identity updates from the identity maintenance notifications				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0097	Patient Identity - DoD Identifier	When the enterprise Identity Management System (i.e., DEERS) is not available, the system shall add patients using the DoD Identifier, if it is available from a reliable source (e.g., from an ID card)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized

0098	Patient Identity - Interim Identifier	When the enterprise Identity Management System (i.e., DEERS) is not available and no reliable source for the DoD Identifier is offered, the system shall use an enterprise-unique Interim Patient Identifier				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0099	Patient Identity - Added Synchronization No Comm	The system shall synchronize all identities added during a loss of connectivity once connectivity to the enterprise Identity Management System (i.e., DEERS) is restored				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf 2011 11 17 FHP CONOPS.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0100	Patient Demographics Retrieve	The system shall be able to retrieve a patient's affiliation to DoD from the enterprise Identity Management System (i.e., DEERS)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf 2011 11 17 FHP CONOPS.pdf DEERS Health_ConOps_wAttribute_Draft.docx 2011 02 22 HSS CONOPS.pdf DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a> 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized

0101	Patient Demographics - Display	The system shall be able to display a patient's affiliation to DoD			Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf 2011 11 17 FHP CONOPS.pdf DEERS Health_ConOps_wAttribute_Draft.docx 2011 02 22 HSS CONOPS.pdf DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a> 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0102	Patient Information - Retrieve	The system shall be able to retrieve patient contact information (e.g., addresses, phone numbers, email) from the enterprise Identity Management System (i.e., DEERS) using the DoD Identifier (aka EDI_PI)			Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf 2011 11 17 FHP CONOPS.pdf DEERS Health_ConOps_wAttribute_Draft.docx 2011 02 22 HSS CONOPS.pdf DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a> 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized

0103	Patient Information - Display	The system shall be able to display patient contact information			Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf 2011 11 17 FHP CONOPS.pdf DEERS Health_ConOps_wAttribute_Draft.docx 2011 02 22 HSS CONOPS.pdf DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a> 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0104	Patient Information - Update	The system shall be able to update patient contact information			Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf 2011 11 17 FHP CONOPS.pdf DEERS Health_ConOps_wAttribute_Draft.docx 2011 02 22 HSS CONOPS.pdf DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a> 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized

0105	Patient Information - Add	The system shall be able to add patient contact information			<p>Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf 2011 11 17 FHP CONOPS.pdf DEERS Health_ConOps_wAttribute_Draft.docx 2011 02 22 HSS CONOPS.pdf DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a> 2011 02 22 HSD CONOPS.pdf</p>	Threshold = Objective	Requirement realized
0106	Patient Registry Info - Retrieve	The system shall be able to retrieve patient registry information (e.g., preferred language, religion, next of kin) from the enterprise Identity Management System (i.e., DEERS) using the DoD Identifier (aka EDI_PI)			<p>Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf 2011 11 17 FHP CONOPS.pdf DEERS Health_ConOps_wAttribute_Draft.docx 2011 02 22 HSS CONOPS.pdf DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a> Technical Specification for Patient Registration Service -DRGS-v2.2.doc 2011 02 22 HSD CONOPS.pdf</p>	Threshold = Objective	Requirement realized

0107	Patient Registry Info - Display	The system shall be able to display patient registry information			<p>Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf                  2011 11 17 FHP CONOPS.pdf                  DEERS                  Health_ConOps_wAttribute_Draft.docx                  2011 02 22 HSS CONOPS.pdf                  DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense  <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>                  Technical Specification for Patient Registration Service -DRGS-v2.2.doc                  2011 02 22 HSD CONOPS.pdf</p>	Threshold = Objective	Requirement realized
0108	Patient Registry Info - Update	The system shall be able to update patient registry information			<p>Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf                  2011 11 17 FHP CONOPS.pdf                  DEERS                  Health_ConOps_wAttribute_Draft.docx                  2011 02 22 HSS CONOPS.pdf                  DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense  <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>                  Technical Specification for Patient Registration Service -DRGS-v2.2.doc                  2011 02 22 HSD CONOPS.pdf</p>	Threshold = Objective	Requirement realized

0109	Patient Registry Info - Add	The system shall be able to add patient registry information			<p>Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf                  2011 11 17 FHP CONOPS.pdf                  DEERS                  Health_ConOps_wAttribute_Draft.docx                  2011 02 22 HSS CONOPS.pdf                  DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense  <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>                  Technical Specification for Patient Registration Service -DRGS-v2.2.doc                  2011 02 22 HSD CONOPS.pdf</p>	Threshold = Objective	Requirement realized
0110	Patient Eligibility - Retrieve	The system shall be able to retrieve patient eligibility information (e.g., Dates of Coverage, allowed coverage - direct care, dental, network, pharmacy; current beneficiary status - Active, Spouse, Guard, TAPS, Wounded Warrior, etc.) from the enterprise Identity Management System (i.e., DEERS) using the DoD Identifier (aka EDI_PI)			<p>Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf                  2011 11 17 FHP CONOPS.pdf                  DEERS                  Health_ConOps_wAttribute_Draft.docx                  2011 02 22 HSS CONOPS.pdf                  DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense  <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>                  2011 02 22 HSD CONOPS.pdf</p>	Threshold = Objective	Requirement realized

0111	Patient Eligibility - Display	The system shall be able to display patient eligibility information				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf 2011 11 17 FHP CONOPS.pdf DEERS Health_ConOps_wAttribute_Draft.docx 2011 02 22 HSS CONOPS.pdf DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a> 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0112	Patient OHI - Retrieve	The system shall be able to retrieve patient commercial health insurance information from the enterprise Identity Management System (i.e., DEERS) using the DoD Identifier (aka EDI_PI)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0113	Patient OHI - Display	The system shall be able to display patient commercial health insurance information				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized

0114	Patient OHI - Update	The system shall be able to update patient commercial health insurance information from the enterprise Identity Management System (i.e., DEERS) using the DoD Identifier (aka EDI_PI)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0115	Patient OHI - Add	The system shall be able to add patient commercial health insurance information from the enterprise Identity Management System (i.e., DEERS) using the DoD Identifier (aka EDI_PI)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0116	Portal Access - Provider	The system shall enable a provider the ability to interact with patient information (e.g., provider-facing interface)				2010 01 21 Health Readiness CONOPS.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0118	Data Migration - Diagnoses	The system shall support the ability to migrate active diagnoses from the legacy systems		5		DHMSM Functional Assumptions 2013-12-2.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0119	Data Migration - Procedures	The system shall support the ability to migrate procedures from the legacy systems		5		DHMSM Functional Assumptions 2013-12-2.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0120	Data Migration - Allergies	The system shall support the ability to migrate patient allergy information from the legacy systems		5		DHMSM Functional Assumptions 2013-12-2.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0121	Data Migration - Medication	The system shall support the ability to migrate active outpatient medications from the legacy systems		5		DHMSM Functional Assumptions 2013-12-2.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized

0122	User Provisioning	The system shall provision services to the user once authenticated				DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Once a user is authenticated, the system will provision resources
0123	Web Application Identity Management And Assurance	The web applications for the system shall implement identity management and assurance				<a href="http://www.idmanagement.gov/sites/default/files/documents/FICAM_TFS_SAML2_WebSSO_Profile_1.0.2_Functional_Requirements.pdf">http://www.idmanagement.gov/sites/default/files/documents/FICAM_TFS_SAML2_WebSSO_Profile_1.0.2_Functional_Requirements.pdf</a>	Threshold = Objective	The web services are implemented with identity assurance, credentialing and access management
0125	Data Encryption	The system shall support the encryption of Sensitive But Unclassified (SBU) Data at Rest for all system data	1.2			DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a>	Threshold = Objective	All data stored by the system is encrypted using approved DoD encryption methods
0126	DMIX E-Health Query Interface	The system shall interface with the Defense Medical Information Exchange (DMIX)-provided standards based interface (e.g., C-CDA) to obtain patient medical history and clinic encounter data from legacy systems and external partners				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSS CONOPS.pdf	Threshold = Objective	Requirement realized
0127	DMIX Query Interface	The system shall interface with the Defense Medical Information Exchange (DMIX)-provided Query service (e.g., RESTful or SOAP) to obtain patient medical history and clinic encounter data from legacy systems				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSS CONOPS.pdf	Threshold = Objective	Requirement realized
0128	DMIX Transactional HL7 2.x Feed Interface	The system shall interface with the Defense Medical Information Exchange (DMIX)-provided Transactional Health Level 7(HL7) 2.x feed service that will provide HL7 2.x messages from the legacy clinical systems				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSS CONOPS.pdf	Threshold = Objective	Requirement realized

0129	DHMSM Query Interface	The system shall provide a real-time, on-demand, standards-based query service that will enable external systems to request and receive EHR data for use by other DoD medical systems				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSS CONOPS.pdf	Threshold = Objective	Requirement realized
0130	HAIMS Interface	The system shall establish an enduring interface to exchange data with the Health Artifacts and Images Management System (HAIMS) system				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0131	PDTS Interface	The system shall establish an enduring interface to exchange data with the PDTS system				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0133	HL7 2.x Data Feed	The system shall provide Health Level 7 (HL7) 2.x message feeds (e.g., ADT, orders and results, etc.) to the transitory and enduring legacy clinical systems that will subscribe to these feeds				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0134	Bulk Data Feed	The system shall provide the capability for bulk data feeds to enable external reporting				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSS CONOPS.pdf	Threshold = Objective	Requirement realized
0135	PACS Interfaces	The system shall establish an interface to exchange data with the Picture Archiving Communication System (PACS) systems that exist within the MTFs				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0136	eHealth Exchange Interface	The system shall provide a bidirectional eHealth Exchange connectivity using content specifications (e.g., Health Level 7 [HL7] Consolidated Clinical Document Architecture [CDA]).				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0137	Reference Lab Interfaces - Send	The system shall provide the capability to interface with external reference labs to send orders using national standards-based interfaces				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized

0138	Mail Order Pharmacy Interfaces	The system shall provide the capability to exchange prescriptions with external Mail Order Pharmacies				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0139	Mail Order Pharmacy Interfaces - Tricare	The system shall provide the capability to exchange prescriptions with Tricare Mail Order Pharmacy (TMOP)				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0143	Coding Compliance	The system shall provide a coding compliance functionality				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0145	DMHRSi Interface	The system shall establish an interface to exchange data with the DMHRSi system				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSS CONOPS.pdf	Threshold = Objective	Requirement realized
0146	DMLSS Interface	The system shall establish an interface to exchange data with the Defense Medical Logistics Standard Support (DMLSS) system				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSS CONOPS.pdf	Threshold = Objective	Requirement realized
0149	NMIS Interface	The system shall establish an interface to exchange data with the Nutritional Medicine Information System (NMIS) system				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0154	Pharmacy Interface	The system shall establish an interface to exchange data with pharmacy systems (e.g., Opti-fill, P2K)				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0157	TRAC2ES Interface	The system shall establish an interface to exchange data with the Transportation Command Regulating and Control Evacuation System (TRAC2ES) system				2011 11 17 FHP CONOPS.pdf DHMSM Interface Strategy v1 0 25-07-2014.pdf	Threshold = Objective	Requirement realized
0158	System Operational Availability	The system shall meet System Operational Availability (Ao) threshold to assess the total time the system is capable of being used to perform clinical functions during a given interval using the Mean Time Between Failure (MTBF) divided by the sum of the MTBF, Mean Time to Restore (MTTR), and Mean Logistics Delay Time (MLDT)[Ao = MTBF/(MTBF + MTTR+ MLDT)]		2	x	DoD Instruction 5000.02 <a href="http://1.usa.gov/1iyeuNq">http://1.usa.gov/1iyeuNq</a> EMP	≥ 98% given network availability ≥ the SLA for the network	99.9% given network availability ≥ the SLA for the network

0159	Critical System Operational Availability	The system shall meet critical clinical system and application availability (e.g., Emergency Rooms, Intensive care units and like activities) to support critical care provided at individual medical units wherever they are located (Garrison and Theater). Mean Time Between Critical Failure (MTBCF) divided by the sum of the MTBCF, Mean Time to Restore (MTTR), and Mean Logistics Delay Time (MLDT) [Ao = MTBCF/(MTBCF + MTTR + MLDT)]		2	x	DoD Instruction 5000.02 <a href="http://1.usa.gov/1iyeuNq">http://1.usa.gov/1iyeuNq</a> EMP	99.0% system and application availability to support type of care provided at individual medical units wherever they are located.	99.99% system and application availability to support type of care provided at individual medical units wherever they are located
0163	Data Availability	The system shall make patient data available to all instances of the system within the prescribed period NOTE: When constrained or disconnected communications exists at an Operational Medicine site, this metric may not be obtainable at the objective percentage		2		DoD Instruction 5000.02 <a href="http://1.usa.gov/1iyeuNq">http://1.usa.gov/1iyeuNq</a> EMP	5 min	2 min
0166	Mean Time Between Critical Failure (MTBCF)	The system shall meet minimal Mean Time Between Critical Failure (MTBCF) requirement. MTBCF calculation failures are considered to be those out of design conditions that place the system out of service and into a state for repair. Applies to system-wide services and services supporting critical capabilities at every level such as Emergency Rooms, Intensive care units and like activities (MTBCF = $\sum(\text{Start of Down Time}-\text{Start of Up Time})/\text{Number of Critical Failures}$ )		4		DoD Instruction 5000.02 <a href="http://1.usa.gov/1iyeuNq">http://1.usa.gov/1iyeuNq</a> EMP	9000 hrs for the affected facility	10000 hrs for the affected facility

0167	Mean Time Between Failures (MTBF)	The system shall meet minimal Mean Time Between Failure (MTBF) requirement. MTBF failures are considered to be those out of design conditions which place the system out of service and into a state for repair. Calculated by summing the operational periods divided by the number of observed failures during which the system was unable to support critical operations. (MTBF = $\frac{\text{Start of Down Time}-\text{Start of Up Time}}{\text{Number of Failures}}$ )		4		DoD Instruction 5000.02 <a href="http://1.usa.gov/1iyuNq">http://1.usa.gov/1iyuNq</a> EMP	5000 hrs for the affected facility	10000 hrs for the affected facility
0170	Order Entry Workflow Processing Response	The system shall meet the minimum transaction time to send an order and receive acknowledgement within the order processing cycle		8		2010 01 21 Health Readiness CONOPS.pdf 2011 02 22 HSD CONOPS.pdf	< 3 seconds	< 1 second
0171	Patient Data Retrieval	The system must return core patient data to meet minimum data retrieval performance requirements (core data - demographics, deployment history, special military status, PCM assignment)		8		2010 01 21 Health Readiness CONOPS.pdf 2011 02 22 HSD CONOPS.pdf	< 0.5 seconds for core data sets	< 0.1 seconds for core data sets
0173	Results Workflow Processing Response	The system shall meet the minimum transaction time to record results and receive acknowledgement within the results recording cycle		8		2010 01 21 Health Readiness CONOPS.pdf 2011 02 22 HSD CONOPS.pdf	< 3 Seconds	< 1 second
0174	Screen Transition Time	The system shall be capable of transition between screens (e.g., time between clicks) to meet the minimum screen transition requirements		8		2010 01 21 Health Readiness CONOPS.pdf 2011 02 22 HSD CONOPS.pdf	<0.5 seconds	< 0.1 Seconds
0175	Transaction Latency - Clinical	Interactive user response times for native DHMSM EHR data shall be sub-second for interactive user activity in the clinical modules and record		8		20140701_Additional Clarifications 2011 02 22 HSD CONOPS.pdf	90%	100%

0177	Load Scalability	The system shall scale to meet global deployment requirements while maintaining performance and reliability requirements		1		6-3 Segment Two MTF List and Descriptive Statistics.xlsx	Threshold = Objective	Requirement realized
0181	Scalability - MTF Users	The system shall be capable of scaling to support the maximum total number of users at an MTF site		1		6-2 Segment One MTF List and MTF Codes.pdf	7700 user max/MTF	10000 user max/MTF
0182	Scalability - Global Users	The system shall be capable of scaling to manage the total number of global users across all MHS serviced locations		1		6-2 Segment One MTF List and MTF Codes.pdf TRICARE Program Effectiveness (FY 2014) 1.pdf	153,616 total users	184,340 total users
0183	Scalability - Installations	The system shall provide an integrated enterprise solution that scales to support the global list of installations		1		6-2 Segment One MTF List and MTF Codes.pdf	Threshold=Objective	55 sites
0184	Scalability - Concurrent Users/MTF	The system shall support the maximum total number of concurrent users for an MTF site		1	x	6-2 Segment One MTF List and MTF Codes.pdf	3000 concurrent users/MTF	5000 concurrent users/MTF
0185	Scalability-Segment 2 Role 1 Sites	The system shall be capable of scaling to support the maximum total number of Segment 2 Role 1 Sites		1		6-3 Segment Two MTF List and Descriptive Statistics.xlsx	Threshold=Objective	2387 Segment 2 Role 1 Sites
0186	Scalability- Segment 2 Role 2 Sites	The system shall be capable of scaling to support the maximum total number of Segment 2 Role 2 Sites		1		6-3 Segment Two MTF List and Descriptive Statistics.xlsx	Threshold=Objective	474 Segment 2 Role 2 Sites
0187	Scalability- Segment 2 Role 3 Sites	The system shall be capable of scaling to support the maximum total number of Segment 2 Role 3 Sites		1		6-3 Segment Two MTF List and Descriptive Statistics.xlsx	Threshold=Objective	67 Segment 2 Role 3 Sites
0188	Scalability-Segment 2 Role En Route Platforms	The system shall be capable of scaling to support the maximum total number of Segment 2 Role en route platforms		1		6-3 Segment Two MTF List and Descriptive Statistics.xlsx	Threshold=Objective	293 Segment 2 Enroute Care Sites
0189	Scalability-Medical Clinics	The system shall provide an integrated enterprise solution that scales to support the global list of medical clinics		1	x	6-2 Segment One MTF List and MTF Codes.pdf	Threshold=Objective	261 Medical Clinics
0190	Scalability-Dental Clinics	The system shall provide an integrated enterprise solution that scales to support the global list of dental clinics		1	x	6-2 Segment One MTF List and MTF Codes.pdf	Threshold=Objective	162 Dental Clinics

0191	Approved TMIP Hardware - Client/Server Laptop Specifications	<p>The system shall be able to perform required functions on the hardware defined by the minimum hardware specification document as follows:</p> <ul style="list-style-type: none"> <li>- Processor: Intel quad core 2.4 GHz; 64 bit</li> <li>- RAM: 8 GB</li> <li>- Hard disk: 320 GB/7200 rpm</li> <li>- Optical Drive: DVD R/W Drive 8X</li> <li>- Network Ethernet Card (10/100/Gigabit)</li> <li>- Wireless</li> <li>- USB ports : 4</li> <li>- Display 14.1 inch/resolution 1600x900</li> <li>- Smart Card Reader</li> <li>- SD Card Reader</li> <li>- Pointing Device: PS/2 compatible Mouse</li> </ul>				<p>I2 R3 Minimum Hardware Requirements.png MC4 HW Spec Sheets 20140415.pdf MC4702-SCD1405 Laptop Hardware Specification.pdf USMC Minimum HW Requirements.docx</p>	Threshold = Objective	Requirement realized
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0192	Approved TMIP Hardware - Server Specifications	<p>The system shall be able to perform required functions on the hardware defined by the minimum hardware specification document as follows:</p> <ul style="list-style-type: none"> <li>- Processor: Dual Processors, Dual Core 2.4 GHz; 4 Mb Cache; 64 bit</li> <li>- RAM: 32 GB</li> <li>- Hard disks: 2 1TB /7200 rpm drives</li> <li>- Disk Controller: RAID with 256 MB cache</li> <li>- Optical Drive: DVD R/W Drive 24X</li> <li>- Network Dual Ethernet Card (Gigabit) with failover and load balancing</li> <li>- USB ports : 2</li> <li>- Pointing Device: PS/2 compatible Mouse</li> <li>- Power supply: Redundant dual power supplies</li> </ul>				<p>I2 R3 Minimum Hardware Requirements.png MC4 HW Spec Sheets 20140415.pdf MC4702-SCD1405 Laptop Hardware Specification.pdf USMC Minimum HW Requirements.docx</p>	Threshold = Objective	Requirement realized
0193	DISA STIG Software Vulnerabilities - Category II	<p>The system shall provide access to the code to perform code vulnerability scans based on automated security and quality scans performed by SCQC. (Correction or mitigation through government-approved compensating controls prior to entry of the software into government test; applies to Category II DISA STIG vulnerabilities.)</p>		3	x	<p>DISA Application Development and Security Technical Implementation Guide Defense Acquisition Guide-Program Protection Planning <a href="http://bit.ly/1j7mPI3">http://bit.ly/1j7mPI3</a></p>	Threshold=Objective	100% Category II vulnerabilities corrected or mitigated

0194	DISA STIG Software Vulnerabilities - Category III And Other	The system shall provide access to the code to perform code vulnerability scans based on automated security and quality scans performed by SCQC. (Correction or mitigation through government-approved compensating controls prior to entry of the software into government test; applies to Category III DISA STIG vulnerabilities and those identified by automated tools but not yet recognized as DISA STIG Vulnerabilities)		3	x	DISA Application Development and Security Technical Implementation Guide Defense Acquisition Guide-Program Protection Planning <a href="http://bit.ly/1j7mPI3">http://bit.ly/1j7mPI3</a>	100% Other Software Vulnerabilities have been incorporated into a government-approved POA&M	100% Other Software vulnerabilities have been corrected OR mitigated
0195	SW Assurance- Quality	The system shall adhere to the quality measures as outlined within the IDIQ PWS				PLAW-112publ239: <a href="http://www.gpo.gov/fdsys/pkg/PLAW-112publ239/pdf/PLAW-112publ239.pdf">http://www.gpo.gov/fdsys/pkg/PLAW-112publ239/pdf/PLAW-112publ239.pdf</a>	Threshold = Objective	Requirement realized
0196	Lab Instruments	The system shall establish an interface to exchange data with bulk laboratory devices that exist within the MTFs				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0197	Point Of Care Lab Devices	The system shall establish an interface to exchange data with portable point of care lab devices that exist within the MTFs				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0198	Bedside Monitors	The system shall establish an interface to exchange data with bedside monitors (e.g., fetal monitors, bedside monitors, ventilators) that exist within the MTFs				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0199	Local Specialty Medical Systems	The system shall establish an interface to exchange data with the Medical Specialty systems (e.g. cardiology, endoscopy, operating room, anesthesia) that exist within the MTFs				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized

0200	External Public Health Reporting	The system shall establish an interface to exchange data with external public health reporting systems (e.g., state immunization registries, public health surveillance)				2011 11 17 FHP CONOPS.pdf DHMSM Interface Strategy v1 0 25-07-2014.pdf	Threshold = Objective	Requirement realized
0201	Data Encryption - Removable Media	The system shall support the encryption of Sensitive But Unclassified (SBU) Data at Rest on removable storage media	1.2			DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a> DoD-DAR-TPM-Decree 07-03-2007 <a href="http://bit.ly/1nzMK2H">http://bit.ly/1nzMK2H</a>	Threshold = Objective	All data stored on mobile devices is encrypted using approved DoD encryption methods
0202	Usability	The system shall provide for end-users to achieve a specific set of tasks effectively, efficiently, and with satisfaction consistent with the HIMSS Usability Principles				Defining and Testing EMR Usability	Threshold = Objective	Requirement realized
0204	Data Synchronization - Disconnected Clients/Sites	The disconnected clients shall be able to synch data with the parent system	1.1			2010 01 21 Health Readiness CONOPS.pdf 2011 02 22 HSD CONOPS.pdf	Support the provision of quality, efficient, effective health care to individual patients and to populations. Be flexible and configurable to accommodate changing standards of practice in multiple health care settings. Be employable in all DoD health care environments , and maintain a rapid time to clinical adoption.	Objective = Threshold
0205	Technical Event Management - Track	The system shall provide a mechanism to track system events in accordance with DoD Instruction 8500.01 (e.g., failed log-ins, system error)				DoD Instruction 8500.01 <a href="http://1.usa.gov/1s8terA">http://1.usa.gov/1s8terA</a> DoD-DAR-TPM-Decree 07-03-2007 <a href="http://bit.ly/1nzMK2H">http://bit.ly/1nzMK2H</a>	Threshold = Objective	Requirement realized
0206	No Communications	The system shall work in environments where no connectivity is available (no-comm environments/disconnected)	1.1			2011 11 17 FHP CONOPS.pdf 2011 02 22 HSD CONOPS.pdf	Support the provision of quality, efficient, effective health care to individual patients and to populations. Be flexible and configurable to accommodate changing standards of practice in multiple health care settings. Be employable in all DoD health care environments , and maintain a rapid time to clinical adoption.	Objective = Threshold

0207	Networking - IPV4	The system shall be backward compatible with IPV4				disr_ipv6_50.pdf	Threshold = Objective	System will be IPV6 compatible
0208	Patient Identity - VA Card Scan	The system shall be able to obtain the DoD Identifier by scanning the patient's VA Identification Cards (barcode)				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0209	Patient Identity - Manual Entry	The system shall be able to accept the DoD Identifier by manual entry				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a>	Threshold = Objective	Requirement realized
0210	Patient Identity - Updated Synchronization No Comm	The system shall synchronize all identities updated during a loss of connectivity once connectivity to the enterprise Identity Management System (i.e., DEERS) is restored				Service Description for iEHR Person Identity Inquiry Service Service Description-0V1 17.pdf DEERS Health_ConOps_wAttribute_Draft.docx DoD Directive 8320.03 Unique Identification (UID) Standards for a Net-Centric Department of Defense <a href="http://1.usa.gov/1uKMJKV">http://1.usa.gov/1uKMJKV</a> 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized

0211	Reference Lab Interfaces - Receive	The system shall provide the capability to interface with external reference labs to receive results using national standards-based interfaces				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0213	Unique Device Identifier	The system shall be capable of capturing the Unique Device Identifier (UDI) formatted in a construct of one of the three (3) FDA approved standards organizations (Global Language of Business (GS1), Health Industry Business Communications Council (HIBCC), or International Council for Commonality in Blood Banking Automation, Inc. (ICBBA)) of the supplies, devices, and pharmaceuticals used during an episode of care				2011 02 22 HSS CONOPS.pdf 2011 02 22 HSD CONOPS.pdf 2013-23059: 58786 Federal Register / Vol. 78, No. 185 / Tuesday, September 24, 2013 / Rules and Regulations: <a href="http://1.usa.gov/1nflJw">http://1.usa.gov/1nflJw</a>	Threshold = Objective	Requirement realized
0214	ASC X12 EDI	The system shall comply with ASC X12 Electronic Data Interchange (EDI) transactions when conducting administrative process transactions electronically				2011 02 22 HSD CONOPS.pdf EDI Transactions: <a href="http://bit.ly/1mloCKR">http://bit.ly/1mloCKR</a>	Threshold = Objective	Requirement realized
0215	AE Equipment Standards	Any system equipment used on aircrafts shall adhere to aeromedical airworthiness standards including a safe to fly certification				AFI10-2909 AE Equipment Standards.pdf	Threshold = Objective	Requirement realized
0216	Patient Prioritization - Limited Communications	The system shall be capable of prioritizing patient data for syncing when limited connectivity is available (low-comm)				2011 11 17 FHP CONOPS.pdf 2010 01 21 Health Readiness CONOPS.pdf	Threshold = Objective	Requirement realized
0217	Patient Prioritization - No Communications	The system shall be capable of prioritizing patient data for syncing when no connectivity is available (no-comm environments/disconnected)				2011 11 17 FHP CONOPS.pdf 2010 01 21 Health Readiness CONOPS.pdf	Threshold = Objective	Requirement realized
0218	Credentialing	The system shall include the ability to support credentialing, licensing, and board certifications				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSS CONOPS.pdf	Threshold = Objective	Requirement realized

0219	Single Sign-On	The system shall allow users access to multiple applications using a single means of authentication (e.g., valid DoD CAC combined with personal identification number (PIN))				2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0220	Context Management	The system shall provide context management capability				2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0221	Transaction Latency - Non-Clinical	Interactive user response times for native DHMSM EHR data shall be less than 3 seconds for interactive user activity in the non-clinical modules		8		20140701_Additional Clarifications 2011 02 22 HSD CONOPS.pdf	90%	100%
0222	Non-DoD Registration	The system shall be capable of the registration of non-DoD patients				2010 01 21 Health Readiness CONOPS.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0223	Occupational Health Interface	The system shall establish an interface to exchange data with occupational health systems				2011 11 17 FHP CONOPS.pdf DHMSM Interface Strategy v1 0 25-07-2014.pdf 2010 01 21 Health Readiness CONOPS.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0224	Medical Readiness Interface	The system shall establish an interface to exchange data with medical readiness systems				2011 11 17 FHP CONOPS.pdf DHMSM Interface Strategy v1 0 25-07-2014.pdf 2010 01 21 Health Readiness CONOPS.pdf	Threshold = Objective	Requirement realized
0225	Record Segregation - Individual	The system shall include the ability to select individual patient records for segregation				2010 01 21 Health Readiness CONOPS.pdf 2011 02 22 HSS CONOPS.pdf	Threshold = Objective	Requirement realized
0226	Record Segregation - Group	The system shall include the ability to select groups of patient records for segregation				2010 01 21 Health Readiness CONOPS.pdf 2011 02 22 HSS CONOPS.pdf	Threshold = Objective	Requirement realized
0227	Blood Interface	The system shall have the ability to exchange data with the Blood Bank/Blood Management System				2011 11 17 FHP CONOPS.pdf DHMSM Interface Strategy v1 0 25-07-2014.pdf 2010 01 21 Health Readiness CONOPS.pdf 2011 02 22 HSS CONOPS.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized

0228	Billing Management	The system shall be capable of processing all stages of the billing lifecycle for medical services (e.g., dental, radiology, laboratory, pharmacy)				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0229	HSDW Interface	The system shall establish an interface to exchange data with Health Services Data Warehouses (HSDWs)				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized
0230	MDR Interface	The system shall establish an interface to exchange data with the Military Health System Data Repository (MDR)				DHMSM Interface Strategy v1 0 25-07-2014.pdf 2011 02 22 HSD CONOPS.pdf	Threshold = Objective	Requirement realized