

Requirements	Fully Complies	Does not Comply	Notes + Further Information
1 Facility Registry			
1.1 Non-Functional Requirements			
1.1.1 System must have a data recovery and back-up solution			
1.1.2 System must allow for real time updates			
1.1.3 System must provide sufficient support documentation in English			
1.1.4 System must be easily scalable to a minimum of double the current facility count in Rwanda			
1.1.5 System must provide user restricted security to configuration			
1.1.6			
1.2 Functional Requirements			
1.2.1 Each facility is identified by facility ID a unique national sequential number of 5 digits followed by two control digits (MOD 11)			
1.2.2 The system must generate a unique number (including control digits) for new facilities added to the system.			
1.2.3 The system will calculate the population for the Facility catchment area: The system will automatically calculate the population of the HC facility catchment area by adding the population of the respective geographical area selected. The tables with the population for each village will be stored in the system by database script. In addition to that, the tables with the hierarchical geographical structure from provinces, district, sector, cell and villages with their names and codes will also be stored directly in the database by script. Based on the villages population the system will add and store the population for the respective cells, sector, district and provinces			
1.2.4 Inaugurated date must be greater than current date			
1.2.5 The facility register must be able to support each HC facility defined with a different catchment area			
1.2.6 The administration and maintenance are to be centralized and access controlled.			

1.2.7	Services provided by the facility should be represented in a hierarchical structure			
1.2.8	The facility registry must be able to support each HC facility may have one or more implementing partner organizations			
1.2.9	Query Health Facility - to query Health Care Facilities by any of the filters below:HC facility type of Internet connection• HC facility telephone number (cell and or fixed)			
1.2.9.1	The HC Facility Registry can be Queried by HC Facility number			
1.2.9.2	The HC Facility Registry can be Queried by HC facility name			
1.2.9.3	The HC Facility Registry can be Queried by Type of HC facility			
1.2.9.4	The HC Facility Registry can be Queried by HC facility status			
1.2.9.5	The HC Facility Registry can be Queried by HC facility category			
1.2.9.6	The HC Facility Registry can be Queried by HC facility date inaugurated (should be able to query before, or after partial dates)			
1.2.9.7	The HC Facility Registry can be Queried by HC facility director name			
1.2.9.8	The HC Facility Registry can be Queried by HC facility director NID			
1.2.9.9	The HC Facility Registry can be Queried by HC facility partner organizations (need to structure this field)			
1.2.9.10	The HC Facility Registry can be Queried by HC facility referral villages			
1.2.9.11	The HC Facility Registry can be Queried by HC facility latitude or longitude			
1.2.9.12	The HC Facility Registry can be Queried by HC address (province, District, Sector, Village, Cell)			
1.2.9.13	The HC Facility Registry can be Queried by HC facility number of rooms (less or greater than should also be allowed)			
1.2.9.14	The HC Facility Registry can be Queried by HC facility number of patient beds (less or greater than should also be allowed)			
1.2.9.15	The HC Facility Registry can be Queried by HC facility number of ambulances (less or greater than should also be allowed)			
1.2.9.16	The HC Facility Registry can be Queried by HC facility number of cars (less or greater than should also be allowed)			
1.2.9.17	The HC Facility Registry can be Queried by HC facility number of motorcycles (less or greater than should also be allowed)			
1.2.9.18	The HC Facility Registry can be Queried by HC facility electricity source			
1.2.9.19	The HC Facility Registry can be Queried by HC facility water source			
1.2.9.20	The HC Facility Registry can be Queried by HC facility number of freezers (less or greater than should also be allowed)			

1.2.9.21	The HC Facility Registry can be Queried by HC facility number of computers ((less or greater than should also be allowed)			
1.2.9.22	The HC Facility Registry can be Queried by HC facility type of Internet connection• HC facility telephone number (cell and or fixed)			
1.2.10	The HC Facility Registry can be Queried by Other Registries (Provider, Client, Terminology) and Shared Health Records)			
1.2.11				
1.2.12	The System provides a RESTful interface to exchange information with other systems (see message specification section for more details)			
1.3	Data / Field Requirements: The Facility Registry must be able to represent the following fields and store the following data:			
1.3.1	HC Facility number <Integer> A unique national sequential number of 5 digits followed by two control digits (MOD 11)			
1.3.1.1	HC facility name <String> <<insert description>>			
1.3.1.2	Type of HC facility <String> The type of the facility. 1 = National Referral Hospital (HNR) 2 = Provincial Referral Hospital (PH) 3 = District Hospital (HD) 4 = Health Center (CS) 5 = Health Post (PS) 6 = Dispensary (DISP) 7 = Community Dispensary (FOSACOM) 8= Prison Clinic (PRIS) 9 = Medical Clinic (CLIN) 10 = Military Hospital (HM) 11 = District Pharmacy (DP) 12= Blood Bank (BB) 13 =Other (*)			

<p>1.3.1.3 HC facility status <String> The status of the facility.</p> <p>1 = Active 2 = Planned 3 = Closed</p>			
<p>1.3.1.4 HC facility category <String> The category of the facility.</p> <p>1 = Public 2 = Agrée 3 = Private 4 = Community owned 5 = Parastatal (Military, Police, Prison, State run dispensaries)</p>			
<p>1.3.1.5 HC facility date inaugurated <Date> The date that the facility was inaugurated. This date can be partial, both the day and month may be left off if required.</p> <p>Must accept partial dates; Must be lower or equal the current date</p>			
<p>1.3.1.6 HC facility director name <String></p>			
<p>1.3.1.7 HC facility director NID <Integer></p>			
<p>1.3.1.8 HC facility partner organizations (need to structure this field)</p> <p>10 = MSH 1 = CAAC 11 = Non-affilie 5 = GF 8 = MAP 7 = IHI/HCSP 3 = EGPAF 9 = ICAP/CU 4 = FHI</p>			

<p>2 = CRS 12 = PIH/CF 6 = GTZ 13 = DREW</p>			
1.3.1.9 HC facility referral villages <String>			
1.3.1.10 HC facility latitude and longitude <Double> DDD.DDDDD °			
1.3.1.11 HC address (province, District, Sector, Village, Cell) See <i>Rwanda_Administrative_Structure_ISO_codes.ods</i> for codes to use with this parameter.			
1.3.1.12 HC facility number of rooms <Integer>			
1.3.1.13 HC facility number of patient beds <Integer>			
1.3.1.14 HC facility number of ambulances <Integer>			
1.3.1.15 HC facility number of cars <Integer>			
1.3.1.16 HC facility number of motorcycles <Integer>			
1.3.1.17 HC facility electricity source <String> 1 = National Grid 2 = Generator 3 = Solar panels 4 = No electricity			
1.3.1.18 HC facility water source <String> 1 = National piped water supply 2 = Local piped water supply 3 = Protected well 4 = Open well 5 = Surface water (river, lake, etc.) 6 = Rain water reservoir			

7 = Water Truck 8 = No regular water source			
1.3.1.19 HC facility number of freezers <Integer>			
1.3.1.20 HC facility number of computers <Integer>			
1.3.1.21 HC facility type of Internet connection<String> 1 = Cell Modem 2 = Fixed Line (ADSL, fiber) 3 = Satellite (VSAT) 4 = Wireless (WINMAX) 5 = No Internet connection			
1.3.1.22 HC facility telephone number (cell and or fixed) <Integer>			
1.4 Communication / Messaging The Facility Registry must be able to exchange data in accordance with the following messaging specification and templates.			
1.4.1.1 Queries the HC Facility registry for HC Facilities using a variety of possible parameters. This transaction returns a list of HC Facilities that match the criteria specified in the query parameters. Otherwise, if an error occurred, then an error is returned.			
1.4.1.2 Fetches a HC Facility's data for the facility specified by the facility ID parameter			