RHEA Project

Use Case Specification: Call Interoperability interfaces of HC Facility Registry

GID: 0006
UC: 01.006

Version: 0.3

Revision History

Date	Version	Description	Author(s)
22/07/11	0.1	Initial creation	Antoine, Christian, Ryan, Wayne
28/07/11	0.2	Edited scenarios and data sturcture	Ryan
25/08/11	0.3	Edited from Mead's comments	Ryan

Description

This use case describes the interoperability interfaces supplied by the HC Facility registry and how those interfaces will respond when receiving messages in different scenarios.

Actors

The PoS System querying the HC Facility registry.

Pre-condition

● none

Post-condition

● none

Special Requirements

● Web services must be secured using a security protocol still to be determined

● Handling of HC Facility resources types (eg. Number of bed, number of ambulances etc) should be generalized and greater than or less than filters should be able to be applied when querying the system.

Primary Scenario

Query the HC Facility registry with a valid message

1. The sending system generates a message to query the HC Facility registry to obtain all the information on one or more HC Facilities. The query message should contain all the fields that the calling system wants to filter by.
2. The HC Facility registry receives the message.
3. The HC Facility registry parses the message and extracts the parameters that it will use to search for facilities.
4. The HC Facility registry performs the search using those parameters and obtains a list of HC Facilities.
5. The HC Facility registry generates a message containing this list of HC Facilities for the sending system.
6. The HC Facility registry returns this message with the list of facilities to the sending system.

Secondary Scenarios

Query the HC Facility registry with a invalid message

1. The sending system generates a message to query the HC Facility registry to obtain all the information on one or more HC Facilities. The query message should contain all the fields that the calling system want to filter by.
2. The HC Facility registry receives the message.
3. The HC Facility registry is unable to parses the message due to errors.
4. The HC Facility registry generates a message with an error code relating to the error that occurred.
5. The HC Facility registry returns this message with the error code to the sending system.

Query the HC Facility registry but no facilities are found

1. The sending system generates a message to query the HC Facility registry to obtain all the information on one or more HC Facilities. The query message should contain all the fields that the calling system want to filter by.
2. The HC Facility registry receives the message.
3. The HC Facility registry parses the message and extracts the parameters that it will use to perform the search.
4. The HC Facility registry performs the search using those parameters and finds that there are no HC Facilities that match that specific criteria.
5. The HC Facility registry generates a message that informs the sending system that no facilities were found.
6. The HC Facility registry returns this message to the sending system.

Draft Screens
none

Data elements for message transmission

Data to be filtered by in the query message

Element	Description	Length /Type	Status(R=Required, O=Optional)	Behavior	Map To Existing Field or New
HC Facility number					
HC facility name					
Type of HC facility					
HC facility status					
HC facility category					
HC facility date inaugurated	should be able to query before, or after partial dates				
HC facility director name					
HC facility director NID					
HC facility partner organization					
HC facility referral villages					
HC facility latitude or longitude					
HC address	province, District, Sector, Village,				

	Cell				
HC facility number of rooms	less or greater than should also be allowed				
HC facility number of patient beds	less or greater than should also be allowed				
HC facility number of ambulances	less or greater than should also be allowed				
HC facility number of cars	less or greater than should also be allowed				
HC facility number of motorcycles	less or greater than should also be allowed				
HC facility electricity source					
HC facility water source					
HC facility number of freezers	less or greater than should also be allowed				
HC facility number of computers	less or greater than should also be allowed				
HC facility type of Internet connection					
HC facility telephone number	cell and or fixed				

Data for response message

All information stored about a facility is returned. See UC01.002MaintainHealthCareFacilies.doc for the latest data structure for this section.

Data for error response message

Element	Description	Length/Type	Status(R=Required, O=Optional)	Behavior	Map To Existing Field or New
Error Code	The code of the error that occurred				
Error Message	The more detailed error description				

References

- Health Informatics Standards Infrastructure for Rwanda: Health Care Facility Registry and Health Care Professional Registry - version 1.7