CC_RemoteServerConnection – Client access to Remote Server Services

Revision History

2017-03-22	Robin Lamacraft	Original draft - 09.01 CC_ServerConnection
2018-08-16	Nils Tolleshaug	Updated with Revision history and update of the content New document name: CC_RemoteServerConnection

SCOPE
In the HRE Remote-Server configuration, this module is used to access and receive replies to requests associated with a HRE Remote Server over a TCP/IP network. This module establishes connection with Server via a Local or Wide-area Network (such as the internet). If the HRE Server is within the same computer the Local Client Server module is used (see CC-LocalServerConnection.docx).

ACTIONS
It negotiates with the server to:
1. Connect with the Server
2. Query the Server Status
3. Make requests to update the database
4. Make requests to retrieve data from the database
5. Perform large database intensive processes
6. Transmit files in both directions between the Client and Server. The file transfers should be background FTP asynchronous transfers with progress messages via the shorter multi-queue packet services. It is the API of this module that must be used for all Server services. The Client Server Bridge module has a subset of the Server Connection Module API.

USED BY
Used by the Business Rules Layer in the HRE client to access remote HRE database on a server. The Request from the Remote Request Manager is processed on the server by the Remote Connection Listener and passed over HRE Server API to Request Listener. HRE Server Services are implemented on the Remote Server. Communication between Remote Request Manager and Remote Connection Listener uses HTTPS over TCP/IP.

AUXILARY DATA USED
Stores the "sessionID" parameter used to identify the individual user session between Client and HRE server.

REQUIRED SERVICES – Dependencies (to be updated)

First-Order Dependencies	Second-Order Dependencies	Higher-Order Dependencies

APPLICATION PROGRAMMING INTERFACE (API)
The API interfaces used by Business Rules Layer are documented in the Javadoc specification for class RemoteRequestManager.

class RemoteRequestManager uses HTTPS communication over TCP/IP to access the HRE server according to the REST specification. The REST communication according to specification is "Stateless"

HRE Server API to Request Listener.

WARNING CONDITIONS
1. Need details of the condition that raised the warning, example message and possible next steps.

ERROR CONDITIONS
1. Need to record the condition that raised the error, example message and possible next steps.