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HL7 Socket Installation

To install the [Socket Project](#) as a Windows Service:

1. Download the Socket Project by clicking the link [here](#).
2. Right click CW6SocketV10.zip.
3. Click Extract Files.
4. Select a Destination Path.
5. Click OK.
6. Right click *Command Prompt*.
7. Click *Run as Administrator*.
8. In the Command Window, navigate to the folder where you put the *cw_hl7socket.exe*.
9. Run the following command: *cw_hl7socket install*.

This installs the Socket as a Windows service with auto startup mode. Verify if the *SocketServer* service is listed in the Windows Services.

CAREWare Setup

The setup steps include modifying settings in CAREWare's common storage table, turning on indexes, updating mappings, and completing the user notification and condition setup. This section provides instructions on how to complete these steps.

Note: CAREWare creates some default mappings when a user activates an index; these can be updated by the provider.

Configure Common Storage

There are three ways of editing common storage:

1. CW Admin Utility
2. HL7 Feed Settings screen
3. SQL Server Management Studio

Note: It is a good idea to contact the [CAREWare Help Desk](#) and ask what build is currently recommended to use with the Socket Interface.

The steps for updating the common storage table in CW Admin are as follows:

1. Make sure all users are logged out of CAREWare.
2. Go to *C:\Program Files\CAREWare Business Tier*.
3. Right click *CW Admin*.
4. Click *Run as Administrator*.
5. Click *Stop Server*.
6. Click *Common Storage Setting*.
7. Click *cmm_st_pk* to set the list in alphabetical order.
8. Scroll to the HL7 settings listed below.
9. Once updated, click *Server Settings*.
10. Click *Start Server*.

The screenshot shows the 'CAREWare Server Settings' application window. The 'Common Storage Settings' tab is active, displaying a table of settings. The table has five columns: 'cmm_st_pk', 'cmm_st_text', 'cmm_st_date', and 'cmm_st_number'. The 'cmm_st_pk' column is sorted in ascending order. The settings listed include folder paths for incoming, parsing error, and processed messages, as well as various HL7 socket interface parameters like processing limits, purge intervals, and thresholds.

cmm_st_pk	cmm_st_text	cmm_st_date	cmm_st_number
genderDeduction			0
HL7AutoAddClients	no		
HL7ClientTable	cw_map_client_provider		
HL7ClientTableField	map_cl_client_id		
HL7IncomingMessageFolder	C:\PDI_SF_Florida\Server Application\bin\incomingHL7Files		
HL7ParsingErrorMessageFolder	C:\PDI_SF_Florida\Server Application\bin\parsingErrorHL7Files		
HL7ProcessedMessageFolder	C:\PDI_SF_Florida\Server Application\bin\processedHL7Files		
HL7ProcessFlag			1
HL7ProcessingLimit			10000
HL7Providers			
HL7SocketAutoDeleteClientScoreHigher			30
HL7SocketAutoDeleteClientScoreLower			3
HL7SocketAutoPurgeHigherInterval			60
HL7SocketAutoPurgeLowerInterval			30
HL7SocketFallbackProvider			
HL7SocketHigherScoreLastPurgeDate		7/23/2020 9:36 ...	
HL7SocketInterfaceAutoPurgeCutoff			12
HL7SocketInterfaceProcessFlag			1
HL7SocketLowerScoreLastPurgeDate		7/23/2020 9:36 ...	
HL7SocketManualClientMatching			0
HL7SocketRecordLimit			1000
HL7Threshold			75

These are the folder that require configuration for the HL7 Socket Interface:

HL7IncomingMessageFolder – HL7 files are placed here to begin processing.

HL7ParsingErrorMessageFolder – HL7 files are parsed here if errors occur. Resolving errors allows the file to continue with processing.

HL7ProcessedMessageFolder – HL7 files are stored here once processing is complete.

Note: The other HL7 Common Storage Settings can be updated in the CAREWare user interface.

When editing in SQL Management Studio, please follow these steps:

1. Log into the CAREWare database instance.
2. Expand *Databases*.
3. Expand *CW_Data*.
4. Expand *Tables*.
5. Scroll to *cw_common_storage*.
6. Include Where *cmm_st_pk* like '%HL7%' in the select or edit query to get HL7 settings.

When editing HL7 Feed Settings in CAREWare, please follow these steps:

1. Log into Central Administration.
2. Click *Administrative Options*.
3. Click *Server Management*.
4. Click *Common Storage Values*.
5. Type *HL7* in the search field.
6. Click any setting to be adjusted to highlight it.
7. Click *View*.
8. Click *Edit*.

Administrative Options > Server Management > Common Storage Values

[View](#) [Back](#) [Print or Export](#)

Common Storage Values

Search:

Variable Name	Value	Can Update
AddEncounter	1	Administrative Options > Da
couchdbhost	localhost	Administrative Options > Da
couchdbName	cw_socket_db	Administrative Options > Da
couchdbPassword		Administrative Options > Da
couchDBport	5984	Administrative Options > Da
couchdbUserName		Administrative Options > Da
CWLabsSouceFiles	C:\Program Files\CAREWare\RW CA	Requires restart
HL7AutoAddClients	no	Administrative Options > Da
HL7ClientTable	cw_map_client_provider	Administrative Options > Da
HL7ClientTableField	map_cl_client_id	Administrative Options > Da
HL7IncomingMessageFolder	C:\Program Files\CAREWare\RW CA	Requires restart
HL7ParsingErrorMessageFolder	C:\Program Files\CAREWare\RW CA	EDITABLE IN LIST
HL7PreProcessing	0	EDITABLE IN LIST

Requires restart – Changes to this setting take effect once the CAREWare Business Tier service is restarted.

Editable In List – Changes to this setting take effect once saved.

Administrative Options >... – The location where this setting can be edited in CAREWare is listed under Can Update. For example, the HL7SocketAutoDeleteClientScoreHigher setting is located at Administrative Options>Data Import and Export Features>HL7 Socket Interface>Interface Settings.

Administrative Options > Data Import and Export Features > HL7 Socket Interface > **Interface Settings**

[Edit](#) [Fallback Conditions](#) [Couchbase Settings](#) [Back](#)

Interface Settings

Client Matching

Manual Matching:

Auto Add Clients:

Auto-Purge Settings

Settings for unmatched client data only

Higher Interval (Days):

Higher Score:

Last Higher Activity:

Lower Interval (Days):

Lower Score:

Last Lower Activity:

Setting for purging the entire interface data

Interval (months):

Other Settings

Auto Add Encounter:

Export Malformed Files To Disk:

Observation Provider:

Threshold:

Client Matching Table:

Client Matching Field:

Fallback Provider:

Users can edit HL7 Socket Interface settings in CAREWare by following these instructions:

1. Log into Central Administration.
2. Click *Administrative Options*.
3. Click *Data Import and Export Features*.
4. Click *HL7 Socket Interface*.
5. Click *Interface Settings*.

Note: The file folder settings for HL7 imports and processes need to be edited in Common Storage Settings.

Once common storage is configured, the next step is to turn on the import process indexes. There are different indexes for each message type - ADT, BAR, SCH, PWX, IMM, MDC and ORU—and the index labels begin with those message type abbreviations. Each message type has three associated indexes: Map Provider, Map Client, and Process Records. They are separated to make it easier to track down the processes.

Click [here](#) for a list of indexes and field definitions.

Administrative Options > Data Import and Export Features > HL7 Socket Interface > HL7 Socket Interface > **HL7 Feed Processes**

[Field Mappings](#) [Toggle Status](#) [Back](#) [Print or Export](#)

HL7 Feed Processes - Test Provider 1

Search:

Index	Description	Status
ADT_Map_Client	Match patients for ADT Import	Inactive
ADT_Map_Provider	Match provider for ADT Import	Inactive
ADT_Process_Records	Process Hospital Admit records	Inactive
ANN_SCR_Map_Client	Match patients for annual screening Import	Inactive
ANN_SCR_Map_Provider	Match provider for annual screening Import	Inactive
ANN_SCR_Process_Records	Process Annual Screening imports	Inactive
BAR_Map_Client	Match patients for diagnosis Import	Active
BAR_Map_Provider	Match provider for diagnosis Import	Active
BAR_Process_Records	Process diagnosis imports	Active
DFT_Map_Client	Match patients for dental service Import	Inactive
DFT_Map_Provider	Match provider for dental service Import	Inactive

For additional information about the HL7 Processes, refer to the HL7 Socket Tech guide [here](#).