

WEM Upgrade Instructions

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Document Summary

With the introduction of WEM 2.4.1 and higher, the use of Message Queuing, Particular, and NServiceBus (NSB) is no longer required. These software applications/services require manual intervention to uninstall from the system. The WEM configuration has slightly changed to better support auxiliary systems, deprecate configuration options that are no longer required, and add additional support to better deal with FTP temporary files on security hardened systems.

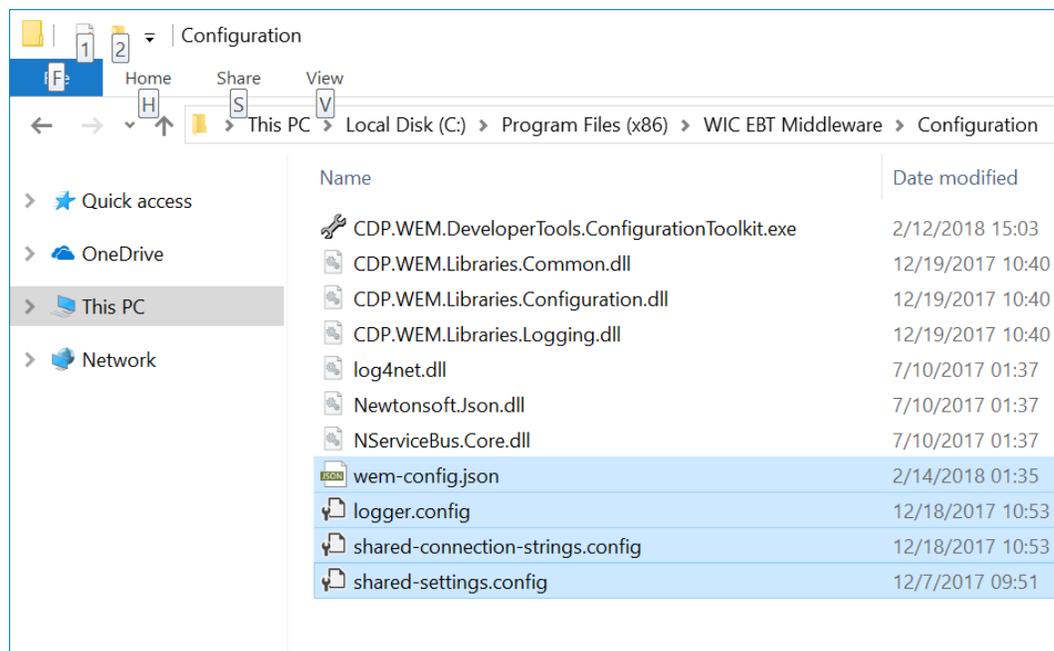
*****Note: All steps must be performed with a user account that has administrative access and elevated privileges.**

*****Note: The user will need to obtain their WIC MIS System Id. This value is located in your EBT provider's ICD.**

Backup of the WEM Configuration Files

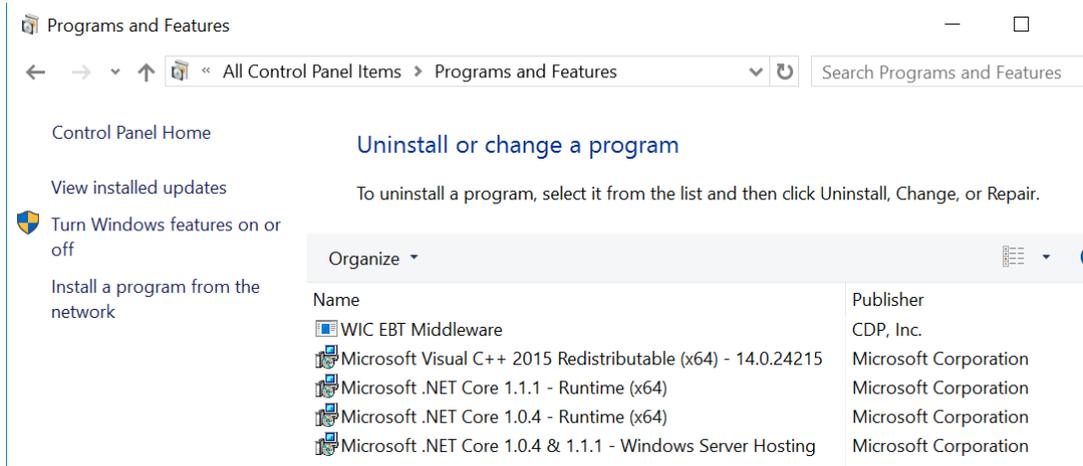
*****NOTE:** A number of configuration options have been changed in the WEM. Backup copies of the original WEM configuration files are required to complete the upgrade to the latest version of WEM. These four files are located in the original WEM install directory configuration area (ex. **C:\Program Files (x86)\WIC EBT Middleware\Configuration**).

1. **wem-config.json**
2. **logger.config**
3. **shared-connection-strings.config**
4. **shared-settings.config**

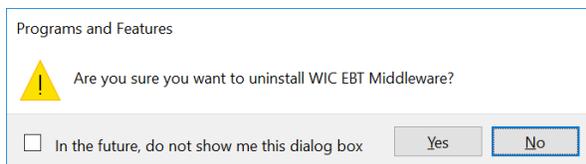


Note: Please keep these files in a safe place during the transition.

Uninstall the WEM Software



The user will need to uninstall the previous version of WEM from the Add/Remove programs. (If you are running a newer version of Microsoft Server, it could be called Programs and Features located in the control panel.) Double-click the WIC EBT Middleware.



Click Yes and continue through the uninstall of WIC EBT Middleware. When the process is completed, the user will notice that the WIC EBT Middleware no longer exists in the Programs list.

Cleanup of WEM Services

From time to time, during the uninstall of WEM, a situation can occur that halts the ability to remove the services from the operating system. This situation could occur for a variety of reasons; most commonly, the service somehow thinks it has dependencies on other resources and can not remove itself fully. To get around this situation after an uninstall of WEM, the following procedures can be used to clean the system.

Verify that the services do not exist. If the services do exist, the user will need to make sure that the services are not running. This can be performed from the Window's Services.

WIC EBT Middleware Client Endpoint - v.2.4.0.0	Provides an endpoint for clients connecting to the WIC EBT Middleware solution using HTTP/HTTPS protocol.	Automatic	Local System
WIC EBT Middleware File Processor - v.2.4.0.0	Provides folder watching and file transfer support for the WIC EBT Middleware solution.	Automatic	Local System
WIC EBT Middleware Message Processor - v.2.4.0.0	Provides message translation, mapping, and other processing support to the WIC EBT Middleware solution.	Automatic	Local System
WIC EBT Middleware Socket Host - v.2.4.0.0	Provides an endpoint for clients connecting to the WIC EBT Middleware solution using TCP/IP sockets.	Automatic	Local System

From a command prompt with elevated privilege (Run as Administrator), the user will need to run the following commands.

1. For the WIC EBT Middleware Client Endpoint
sc.exe delete WEM.ClientEndpoint
2. For the WIC EBT Middleware File Processor

sc.exe delete WEM.FileProcessing

3. For the WIC EBT Middleware Message Processing

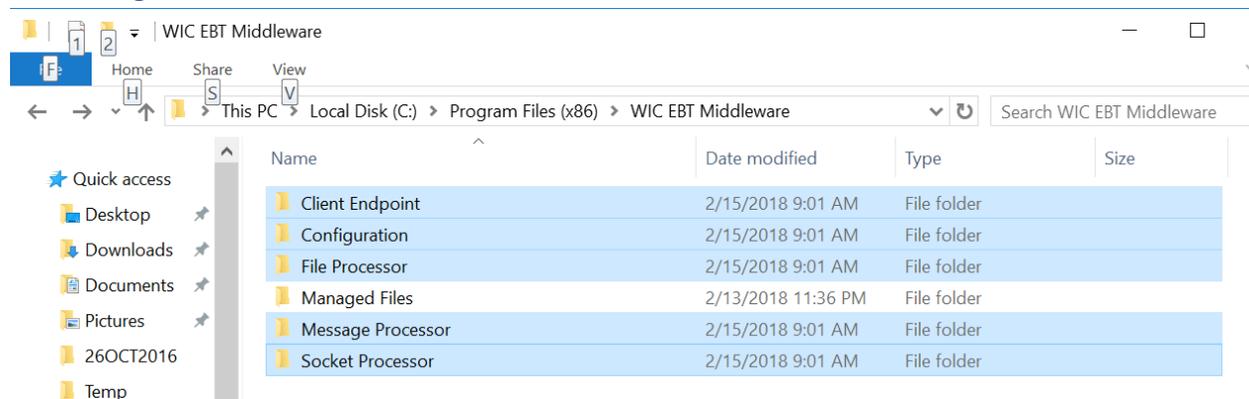
sc.exe delete WEM.MessageProcessing

4. For the WIC EBT Middleware Socket Host

sc.exe delete WEM.SocketHost

The user will then need to close Windows Services. The user will then need to re-open Windows Services, because sometimes the operating system will mark a service for deletion, but the Windows Services module will have a hold that blocks the final step of deletion. Verify after Windows Services has been reopened, that all WIC EBT Middleware services are no longer present in the list.

Removing WEM Folder Artifacts



The user will need to remove the following folders from the default install folder (ex. **C:\Program Files (x86)\WIC EBT Middleware\Configuration**).

1. Client Endpoint
2. Configuration
3. File Processor
4. Message Processor
5. Socket Processor

*****NOTE: DO NOT REMOVE the Managed Files folder!!!**

Uninstall Particular Service Control

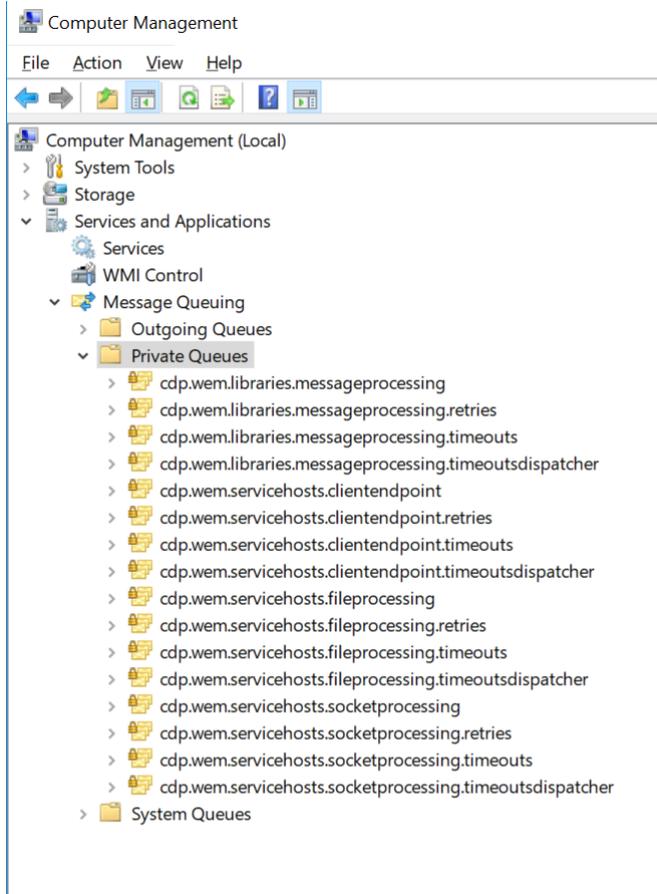
From the Add/Remove Programs uninstall all Particular Software components.

 Particular Software ServicePulse	Particular Software
 Particular Software ServiceInsight	Particular Software
 Particular Software ServiceControl Management	Particular Software

Verify after installation that the Particular Software components no longer appear in the Programs list.

Uninstall/Cleanup of Queues in MQueue

If you are using Message Queueing for only the WEM software suite, removing the queues is as easy as uninstalling Message Queueing from the operating system; but if the user requires Message Queueing for other applications other than WEM, the user will need to remove all the private queues associated with WEM. The following is the list of WEM queues that will need to be removed from the system. To perform the removal right-click on each of the `cdp.wem` queues and click Delete. To verify the queues are deleted, right-click the Private Queues and click Refresh. The queues should no longer be listed in the Private Queues area.



Installation of a WEM

Please follow the setup instructions located in **WEM Installation Guide - End User / Server Installation**.

Modifying WEM Configuration Files

The WEM configuration files will need to be updated. The majority of the configuration changes will require information contained in the previous configuration files.

logger.config

The user will need to copy **connectionString** value from the created backup **logger.config** and update the **connectionString** value in the new **logger.config** located in the new configuration area (ex. **C:\Program Files (x86)\WIC EBT Middleware\Configuration**).

```

logger.config - Notepad
File Edit Format View Help
<?xml version="1.0" encoding="utf-8"?>
<log4net>
  <appender name="AdoNetAppender" type="log4net.Appender.AdoNetAppender">
    <bufferSize value="1" />
    <connectionType value="System.Data.SqlClient.SqlConnection, System.Data, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" />
    <connectionString value="data source=omsq102;initial catalog=wem;integrated security=false;persist security info=true;enlist=false;User ID=wemuser;Password=password"/>
  </appender>
</log4net>

```

The user will also need to verify WEM’s current log level which is located in the <root> XML tag. The value for a production environment should be the value “**ERROR**”

```

logger.config - Notepad
File Edit Format View Help
</layout>
</appender>
<root>
  <level value="ERROR" />
  <appender-ref ref="AdoNetAppender" />
  <appender-ref ref="ColoredConsoleAppender"/>
</root>
</log4net>

```

shared-connection-strings.config

The user will need to copy the <add name="DefaultConnection" value from the created backup **shared-connection-strings.config** and update the <add name="DefaultConnection" value in the new **shared-connection-strings.config** located in the new configuration area (ex. **C:\Program Files (x86)\WIC EBT Middleware\Configuration**).

shared-settings.config

No changes are required for this file.

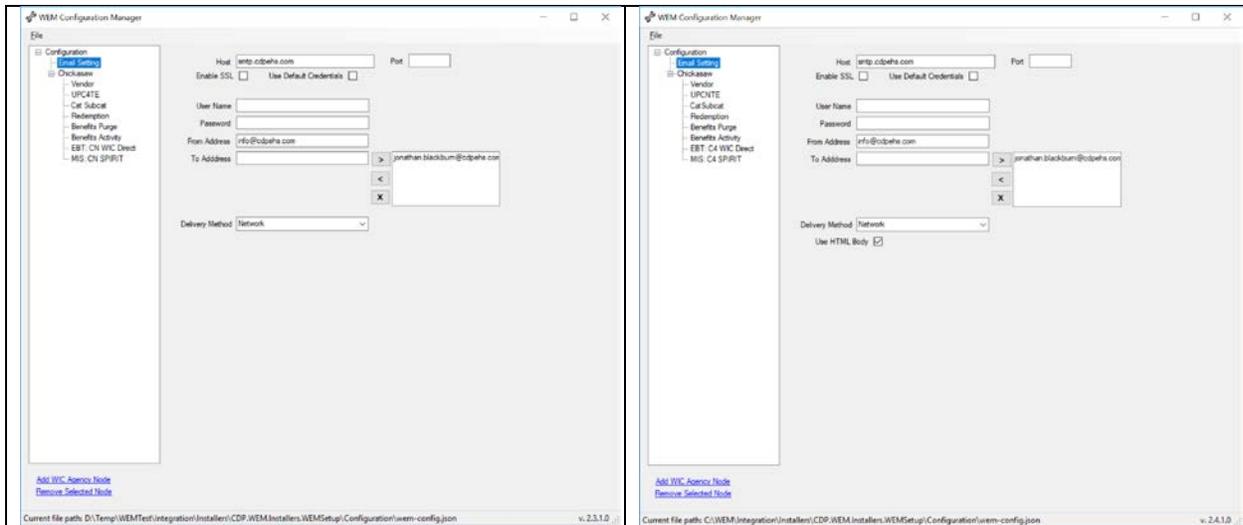
wem-config.json

The user will need to copy the **wem-config.json** file from the backup and paste the file into the new configuration area (ex. **C:\Program Files (x86)\WIC EBT Middleware\Configuration**). Once this is completed the user will need to use the developer **CDP.WEM.DeveloperTools.ConfigurationToolkit.exe** located in the new configuration area (ex. **C:\Program Files (x86)\WIC EBT Middleware\Configuration**).

There are a number of changes to the WEM configuration that help facilitate some of the functionality to assist in File Processing.

Email Settings

Old	New
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Use HTML Body has been added. This option provides a new cleaner view about the files that are processed.

UPC4TE settings

File Type has now been changed from [UPC4TE] to [UPCNT].

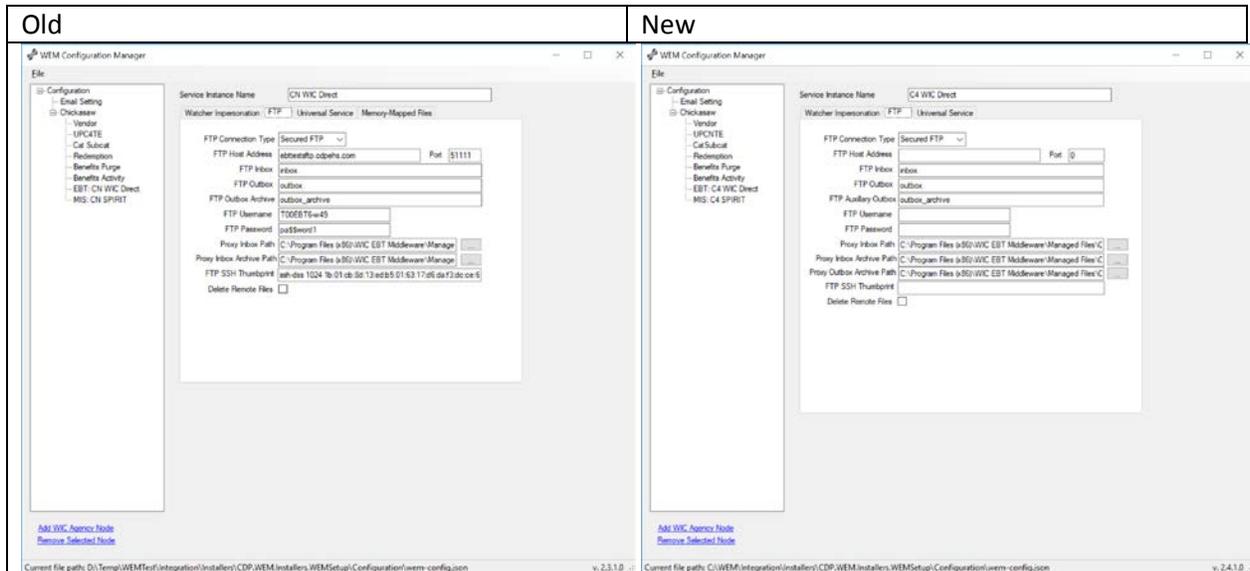
File Type	UPCNT
Message Type	9500
Transaction Type	MOWUPC
File Name Format	{0}.upxml-2014
Send Email	<input checked="" type="checkbox"/>

CAT Subcat settings

File Type has now been changed from [Cat Subcat] to [CatSubcat]. **(No space between the 't' and 'S')**

File Type	CatSubcat
Message Type	9400
Transaction Type	MOWCSB
File Name Format	{0}.csxml-2014
Send Email	<input checked="" type="checkbox"/>

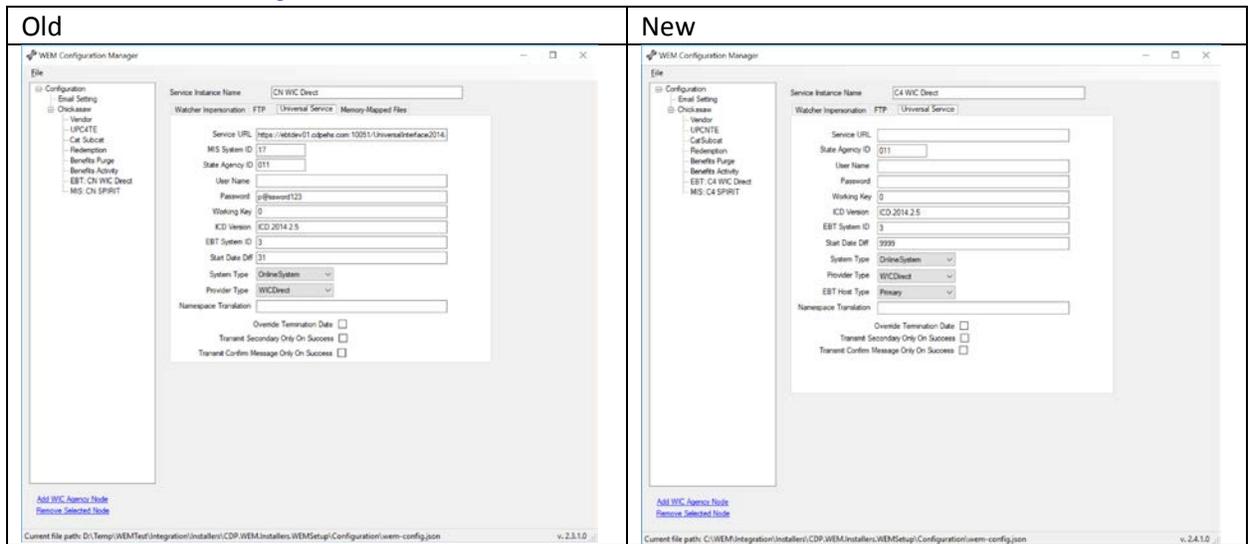
FTP Settings



FTP Outbox Archive label has been changed to **FTP Auxiliary Outbox** to note that the system information in the folder is for auxiliary systems.

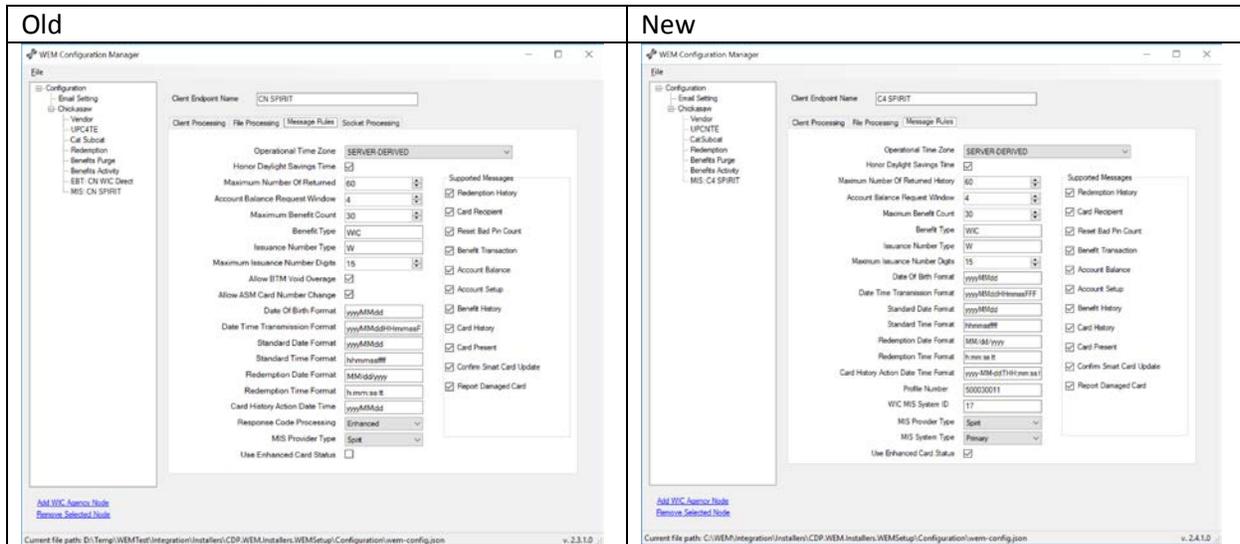
Proxy Outbox Archive Path has been added to help direct different outbox backups when more than one EBT system has been put into place (Offline EBT for Smart Card configurations). If Smart Card mode is not being used, set the value to the same value as the archive output folder. (ex. **C:\Program Files (x86)\WIC EBT Middleware\Managed Files\C4\Archive\Outbox**)

Universal Service settings



EBT Host Type has been added to provide EBT designation of a Primary or Subordinate system. This facilitates traffic direction. A primary system sends and receives batch files 2 directions. A subordinate system only receives information and transmits information to the primary EBT system, but never transmits information to the MIS system. In most systems this setting will be set to **Primary**.

Message Rules Settings



Profile Number has been added to facilitate configurations that include MIS clients that transmit Summer EBT as well as regular EBT. *****NOTE: profile number should NOT contain a dash.** The profile number can be obtained from the backup **wem-config.json** in the **Agency** area.

WIC MIS System ID has been added to facilitate configurations that include MIS clients that transmit Summer EBT as well as regular EBT. It was added to the MIS configuration, and can be obtained from your EBT provider's ICD.

MIS System Type has been added to support Primary/Alternate MIS systems. Alternate MIS systems represent Summer EBT benefit systems, and Primary MIS systems represent regular EBT benefit systems. In most cases this value will be a **Primary** system.

The user will need to save the configuration. Once saved the user can bring up the WEM services normally.