Gallagher Controller API (FTCAPI) vEI8.10.019

Release Note

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1 Introduction

The Gallagher Controller API allows external systems to easily integrate with Gallagher Command Centre, including gaining a presence within the Command Centre workstation application, displaying text and graphical status to the Command Centre operators, and logging events and alarms into the Command Centre event system. It also allows external systems to take advantage of the Command Centre alarm management functionality, including alarm dialling and action plans.

2 Compatibility

This version of Gallagher Controller API is compatible with version vEL8.10.xxx (or later) of Gallagher Command Centre and vGR8.10.xxx (or later) of the Gallagher Controller 6000 and 7000.

2.1 Microsoft patches required for Windows 8.1 and Server 2012

In order to successfully install the Gallagher Controller API under Windows 8.1 and Windows Server 2012 operating systems, you will need to install the following Microsoft patches:

Step	Install patch…	which will…
1	KB2975061	fix a dll versioning issue which prevents KB2919355 from installing.
2	KB2919355	apply multiple fixes and updates, and is a prerequisite for KB2999226.
3	KB2999226	provide an update for MS Universal C Runtime

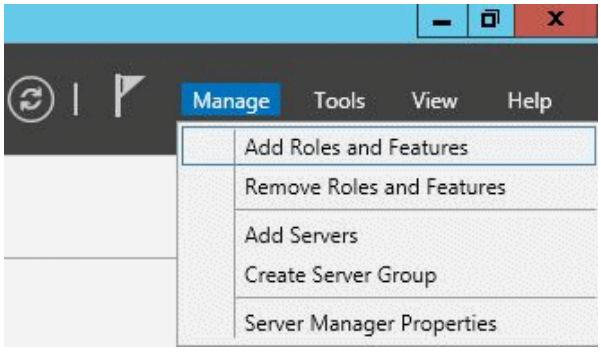
IMPORTANT: The Gallagher Controller API and the 'Gallagher FTCAPI Middleware Framework' must not both be used on the same machine.

3 Prerequisites

1. The installer requires Microsoft .Net Framework to be installed. If not pre-installed, the latest version of Microsoft .Net Framework is available for download from: https://www.microsoft.com/net/download/windows.

   If using Windows Server 2012 you may be required to add Microsoft .Net Framework as a server role. If so, this can be achieved in Server Manager, as follows:

   a) Press <⊞+**C**> on the keyboard, and click **Start**.
   The Start screen displays.
   b) Click the **Server Manager** tile.
   c) Click **Manage** > **Add Roles and Features**.



   The Before you begin screen of the 'Add Roles and Features Wizard' displays.

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d) Click **Next**.
The Select installation type screen displays.

e) Select **Role-based or feature-based installation** and click **Next**.
The Select destination server screen displays.

f) Click the **Select a server from the server pool** radio button and click **Next**.
The Select server roles screen displays.

g) Tick **Web Server** or **Web Server (IIS)** and click **Next**.
The Select features screen displays.

h) Tick **.Net Framework 4.5 Features** and click **Next** until installation starts.

2. Install x86 “Visual C++ redistributables for Visual Studio 2017”.
The **vc_redist.x86.exe** file can be found on Gallagher Command Centre installation DVD at the following location:
`"\Utilities\Controller API\Visual C++ Redistributable for Visual Studio 2017"`

4 Support on redundant servers

From version 7.80 onwards, the license file is not needed on the FTCAPI server and the private key is encrypted in a way which prevents it from being copied to another server. The 'GallagherFTCAPIKey' command line utility can be used to copy the private key to another server.

The 'GallagherFTCAPIKey' command line utility can be used to "export" the private key, (i.e. convert it to a form that can be copied to another machine), and "import" the exported private key on the other machine. It also has a "create" option for generating keys manually.
Notes:

- The user should have Administrator privilege to import and export keys, and should open the command line utility as administrator, otherwise permission issues may be faced.
- A simple password is accepted, even an "s" is acceptable.
- The names of keys should be exact as "GallagherFTCAPI.xxx".

Procedure

1. At the FTCAPI server, open a Command Prompt as an administrator.
2. Enter the following command to create a new private key and certificate in the specified folder:
   `GallagherFTCAPIKey create [keypath]`
3. Enter the following command to export the specified private key:
   Note: If no password is specified then a random password is used.
   `GallagherFTCAPIKey export [private_key_file [exported_key_file [password]]]`
4. Enter the following command to import the exported private key:
   `GallagherFTCAPIKey import [password [exported_key_file [private_key_file]]]`

   The private key is replaced.

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