Installation Instructions

RLB Drop Folder File Watcher

# Description

Windows service to monitor designated “RLB Drop Folder” network folder for new RLB download files copied/moved by members of the AP/AR teams or others. When a file matches the profile of an RLB AP or AR download file, the appropriate AP/AR process will be automatically kicked off. Files not recognized as a valid AP/AR file will be moved to a designated “process junk folder”. The “junk” folder will be cleared by the service whenever the service stops. The service is designed to run continuously and will automatically restart if host job server is restarted. Service events are logged in specified log file and saved to the specified log folder. Log files are appended until a set file size is reached, then a new log file will be created. A specified number of log files are kept in the log folder. Service activity is also logged in a database. Service start, stop and exception activities will also be logged in the Windows Application event log on the job server.

This installation process will set the service recovery settings to attempt service restart every minute at failure.

# Monitoring

Service activity is logged in configurable application log files and also in a database table (MCK\_INTEGRATION\RLBDropFolderWatcher). Additional process notes associated with RLBDropFolderWatcher records may be saved to the MCK\_INTEGRATION\RLBProcessNotes table. Service start, stop and exceptions are visible in the Windows Application event log.

NOTE: An additional monitoring process should be attached to the Drop Folder File Watcher service to ensure the service is running and/or restarted after a failure. If service is down: Process files and/or bad files may accumulate in the “watch” folder. These files will not be moved to the “junk” folder when service is re-started.

# Database Files Location (TFS)

$/ViewPoint/Integration/RetailLockBox/McKinstry.ViewpointImport/Database

# Solution Location (TFS)

$/ViewPoint/Integration/RetailLockBox/McKinstry.ViewpointImport

## Projects

$/ViewPoint/Integration/RetailLockBox/McKinstry.ViewpointImport/McKinstry.Viewpoint.DropFolderWatcher

$/ViewPoint/Integration/RetailLockBox/McKinstry.ViewpointImport/McKinstry.ViewpointImport.Common

## Common Database Objects (In Installation Order)

|  |  |  |  |
| --- | --- | --- | --- |
| **File** | **Name** | **Type** | **Description** |
| dbo.RLBProcessNotes.sql | RLBProcessNotes | Table | CreatesRLBProcessNotes table |

## Application Database Objects (In Installation Order)

|  |  |  |  |
| --- | --- | --- | --- |
| **File** | **Name** | **Type** | **Description** |
| dbo.RLBDropFolderWatcher.sql | RLBDropFolderWatcher | Table | Creates RLBDropFolderWatcher table |

## Application Installation Files

|  |  |
| --- | --- |
| **File** | **Description** |
| CommonSettings.config | Configuration file for common RLB Viewpoint assembly |
| EntityFramework.dll | Required Entity Framework assembly |
| EntityFramework.SqlServer.dll | Required Entity Framework SQL assembly |
| LINQtoCSV.dll | Required assembly for LINQtoCSV program |
| log4net.dll | Required assembly for log4net logging program |
| Logging.config | Required logging configuration file used by log4net logging program |
| McKinstry.Viewpoint.DropFolderWatcher.exe | Drop Folder Watcher program |
| McKinstry.Viewpoint.DropFolderWatcher.exe.config | Configuration file for Drop Folder Watcher program |
| McKinstry.ViewpointImport.Common.dll | Common assembly for Viewpoint RLB programs |
| WinSCP.exe | Required executable for WinSCP FTP program |
| WinSCPnet.dll | Required assembly for WinSCP FTP program |

## Local Settings (McKinstry.Viewpoint.DropFolderWatcher.exe.config)

|  |  |  |
| --- | --- | --- |
| **Setting** | **Description** | **Notes** |
| APApplicationPath | Sets path for AP process executable | Use full path to application |
| ARApplicationPath | Sets path for AR process executable | Use full path to application |
| RollingLogFileAppender | Set location of log file, log file size and max number of log files | Log4Net rolling log file appender settings |

## Relevant Global Settings (CommonSettings.config)

|  |  |  |
| --- | --- | --- |
| **Setting** | **Description** | **Notes** |
| RlbDownloadFileDrop | Sets file drop for users to upload files to VP | Used by service – folder to watch |
| RlbDownloadJunkFolder | Sets junk file location for drop folder watcher | Used by service – junk folder |
| ARFilePrefix | Sets file prefix for AR import files | Valid files begin with this prefix |
| APFilePrefix | Sets file prefix for AP import files | Valid files begin with this prefix |
| MckIntegrationConnectionString | Sets the connection to Integration database | Change data source per environment |
| ViewpointConnectionString | Sets the connection to Viewpoint database | Change data source per environment |

## Installing Database Objects

1. Get database files from TFS
2. Open connection to database using SQL Server Management Studio
3. Run SQL scripts in above Database Objects table in the specified order

## Installing Application Files

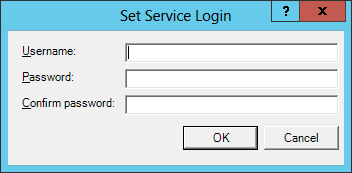
1. Create installation folder for application.
   1. e.g. C:\Scripts\RetailLockBox\DropFolderWatcher
2. Get Solution from TFS and build
   1. Output files will be found in build output folder (debug or release)
      1. Debug: ..\McKinstry.Viewpoint.DropFolderWatcher \bin\Debug
      2. Release: ..\McKinstry.Viewpoint.DropFolderWatcher \bin\Release
3. Copy Installation Files (above table) to Installation Folder
4. Change the Application Settings
   1. Open the settings file ‘McKinstry.Viewpoint.DropFolderWatcher.exe.config’ in text editor.
   2. Ensure the settings (above table) are set
   3. Open the settings file ‘CommonSettings.config’ in text editor
   4. Ensure the settings (above table) are set

## Installing Application

Command Line Service Installation

1. Open a command prompt and change directory to the installation location
   * (e.g. C:\Scripts\RetailLockBox\APRemoteFileDownload>)
   * Run command to install service: installutil McKinstry.Viewpoint.DropFolderWatcher.exe
     + Installation information is saved in installation log files: InstallUtil.InstallLog, McKinstry.Viewpoint.DropFolderWatcher.InstallLog.

The service is configured to run as a specified user. A prompt will appear to enter account credentials for the service. The username must be a domain name (e.g. mckinstry\viewpointsvc):



NOTE: installutil program location may need to be added to the command path depending on application server configuration.

Command Line Service Configuration

1. Run command to set service recovery options: sc failure DropFolderWatcherService reset= 0 actions= restart/60000
   * Command will configure the service recovery properties to restart after failure, and retry every minute thereafter.

NOTE: sc program location may need to be added to the command path depending on application server configuration.

## Uninstalling Application

Command Line Service Uninstallation

1. Open the
2. Open a command prompt and change directory to the installation location
   1. (e.g. C:\Scripts\RetailLockBox\APRemoteFileDownload>)
   2. Run command: installutil /u McKinstry.Viewpoint.DropFolderWatcher.exe

NOTE: installutil program location may need to be added to the command path depending on application server configuration.

Services Microsoft Management Console (MMC) snap-in

For information on managing services with MMC, see:

<https://technet.microsoft.com/en-us/library/cc772408.aspx>