Confirm®

Microsoft App-V

v20.00e.AM
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January 07, 2020
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Overview
This document explains the steps to deploy Confirm Client as Microsoft App-V Package.

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Overview
Microsoft Application Virtualization (App-V) is an application virtualization solution from Microsoft. It helps businesses to provide their end users with access to virtually any application, anywhere without installing applications directly on their computers. Here we will follow these three basic steps for the virtualization of Confirm Client application.

1. Install the Microsoft App-V Sequencer on a computer.
2. Use the Microsoft App-V sequencer to create virtual application package of Confirm Client.
3. Deploy the virtual package on Microsoft App-V Client.

This document covers setting up the Sequencer workstation, walkthrough to create virtual application for Confirm Client, and walkthrough to deploy the package, using Microsoft App-V.

App-V Package Creation

App-V Sequencer
The App-V Sequencer is a component of the App-V suite used to convert standard applications into virtual packages for deployment to computers running the App-V Client. It analyses the application for the resources that it requires and creates the system guard runtime environment that it will require. Most importantly, the sequencer translates file and registry references into user, machine, and operating system neutral references.

Prerequisites for App-V Sequencer Workstation

Prerequisites for Confirm Client
• Visual C++ 2013 x86 / x64
• Visual C++ 2015 x86 / x64
• MapXtreme Redistributable

Install App-V Sequencer

Package Creation Walkthrough
This section outlines the sequencing process of Confirm Client application.

Start Microsoft App-V Sequencer
Launch ‘Microsoft Application Virtualization Sequencer’ from ‘Start’ menu.
Welcome Screen
Select ‘Create a New Virtual Application Package’ to create a new virtual application package.

Packaging Method
Select ‘Create Package’ option to create a new package.
Prepare Computer
This process examines and prompts for any running processes that might prevent successful sequenc- ing.

Stop all the running processes to continue creating the package. Click ‘Refresh’ button.
Type of Application

Select 'Standard Application' to continue creating the package.

Select Installer

Select 'Confirm MapXtreme' installer file to have the sequencing wizard automatically launch the installer wizard.
Package Name

Specify unique name for the package under ‘Virtual Application Package Name’. This name is independent of the ‘Primary Virtual Application Directory’. This name will identify the virtual application package in the App-V Management Console. Save the package in a directory named for the package name is recommended.

Specify directory under ‘Primary Virtual Application Directory’ that will contain all files for the sequence. It is recommended to define the application’s default installation directory (example C:\Program Files\Pitney Bowes\Confirm).

Installation

Install MapXtreme using the steps documented when locally installing it.
Run additional Installers. Click ‘Run...’ button after the completion of MapXtreme installer; select the next (Confirm Client) installation program. Install ‘Confirm Client’ using the steps documented when locally installing it.
You must complete the application installations before you continue.

Important:
Some installers require a system restart. If the installer requests a restart, click OK. The computer will restart and the sequencer will automatically resume after the restart.

Installers may take several seconds to start.
If you have additional installer or executable files to run as part of creating this package, locate and run the applicable files now while App-V continues to monitor computer activity.

If there are no additional programs to install, select "I am finished installing" and then click "Next".

I am finished installing.

Learn more about installation systems.

File Name: setup.exe

Open

Instal1 file(s) (*.*).

Installing Client Software for Confirm version 14.2.1

You continue.

WARNING: This program is protected by copyright law and international treaties.

Start
Next
Cancel

Pitney Bowes

Welcome to the InstallShield Wizard for Confirm Version 14.2.1

The InstallShield Wizard will install Confirm on your computer. To continue, click Next.

Neither the InstallShield Wizard nor your computer will restart.

Any errors that occur during setup will halt and run to the next event.

File: setup.exe

Type: Windows Installer

Size: 31,330 KB

Date Modified: 28/12/2013 17:37

Folder: Local Disk (C:)

File: Confirm.ini

Type: Config File

Size: 98,983 KB

Date Modified: 28/12/2013 17:37

Folder: Local Disk (C:)

File: Confirm.bat

Type: Windows Batch File

Size: 1 KB

Date Modified: 28/12/2013 17:37

Folder: Local Disk (C:)

File: splash.bmp

Type: Bitmap image

Size: 440 KB

Date Modified: 28/12/2013 17:37

Folder: Local Disk (C:)

File: setup.exe

Type: Installer files (*.*.

Size: 2.933 MB

Date Modified: 28/12/2013 16:13

Folder: Local Disk (C:)

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Select 'I am finished installing' tick box once 'Confirm Client' installation is complete and then click ‘Next’.

Configure Software – Confirm Client

At this stage, execute the Confirm Client application(s) at least once by selecting the application and clicking the “Run Selected” or “Run All” buttons (multiple executions are recommended to ensure any second-run tasks are executed). It is during this execution the following can be configured. Once both configurations are done, exit the application and continue with next steps of sequencing

- dbconfig.cfg file: Configure dbconfig.cfg from Database Setting screen.
- Registry entries: On dbconfig.cfg file is configured, login to all the flavors of Confirm once, automatically creates/configures the registry entries behind the scene.
Installation Report

The Microsoft App-V Sequencer lists the issues discovered during sequencing in the Installation Report page. It also displays the diagnostic messages categorized into Errors, Warnings, and Information depending on the severity of the issue. Double click an item to see detailed information about the issue as well as suggestions for resolution.
We may ignore these three warnings and continue creating the package.

**Customize**

Select ‘Stop now’ once the application configuration is complete.
Create Package

Specify a save location and utilize the package name as the directory (Example: `\Desktop\Confirm`).

Create Package – Completion Report

The Microsoft App-V Sequencer lists the diagnostic messages categorized into Errors, Warnings, and Information depending on the severity of the issue. Double click an item to see detailed information about the issue as well as suggestions for resolution.
App-V Package Files

Following files are created when sequencer is used to create a package of Confirm Client application.

<table>
<thead>
<tr>
<th>File Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.msi file</td>
<td>This Windows Installer (.msi) file is created by the sequencer and is used to install the virtual package of Confirm Client on target computers.</td>
</tr>
<tr>
<td>Report.xml file</td>
<td>In this file, the sequencer saves all issues, warnings, and errors that are discovered during sequencing of Confirm Client application to create a virtual package. It displays the information after the package has been created. This report can be used for diagnosing and troubleshooting.</td>
</tr>
<tr>
<td>.appv file</td>
<td>This is the virtual application file of Confirm Client application.</td>
</tr>
<tr>
<td>Deployment configuration file</td>
<td>The deployment configuration file determines how the virtual Confirm Client application will be deployed to target computers.</td>
</tr>
<tr>
<td>User configuration file</td>
<td>The user configuration file determines how the virtual Confirm Client application will run on target computers.</td>
</tr>
</tbody>
</table>

App-V Package Deployment

App-V Client

The Microsoft Application Virtualization (App-V) client is the component that runs a virtualized application on a target computer. The client enables users to interact with icons and to double-click file types, so that they can start a virtualized application.

Prerequisites for App-V Client

Follow the link for information.


Install Microsoft App-V Client

Follow the link for information

Uninstall Microsoft App-V Client
Follow the link for information

Package Deployment Walkthrough
This section outlines the deployment of virtual package (Confirm Client) using Windows PowerShell 3.0.

PowerShell Console
To open a PowerShell console, click Start and type PowerShell. Run Windows PowerShell as Administrator.

Changing the Windows PowerShell Script Execution Policy
Execute the command to allow all Windows PowerShell scripts to run.
Command: Set-ExecutionPolicy Unrestricted

Install App-V Client Cmdlets
Execute the command to install App-V cmdlets.
Command: Import-Module AppvClient

Add the package to App-V Client
Execute the command to add Confirm Client application package to Microsoft App-V Client.
Command: : Add-AppvClientPackage -Path '{full path of Confirm Client virtual package}'
Publish the package
Execute the command to publish a package to the current user.
Command: `Publish-AppvClientPackage -Name "{name of Confirm Client virtual package}" -Global`

Remove the package
Execute the command to remove the already published package when needed.
Command: `Remove-AppvClientPackage -Name "{name of Confirm Client virtual package}"`
FAQ

1. What is the need for virtualization?
   
   It provides the agility, scalability, cost-saving required in today's business scenarios. It reduces
   • Infrastructure downtime.
   • Saves time and resources that are spend deploying/providing operating systems to users.
   • Saves troubleshooting time for application installations.
   • Multiple version of the same application can be deployed on one machine.

2. Can I do sequencing on a physical machine?
   
   Yes, sequencing can be done on a physical machine. But, this is recommended to sequence using a virtual machine. This is due to starting over to correct a mistake. Thus, the sequencing workstation needs to return to a clean configuration several times. Using a virtual machine is strongly advised to allow the use of snapshots and/or undo disks. After sequencing a virtual application package, the machine can be reverted to a clean state.

3. I am getting error when launching .Net screens of the Confirm client?
   
   You need to check whether both 32 bit and 64 bit of the Microsoft Visual C++ Redistributable is installed on the machine. If yes, ideally you should remove the 32 bit Microsoft Visual C++ Redistributable from the machine to fix the issue.

4. How to get list of all packages which are present on a machine?
   
   The command “Get-AppvClientPackage –All” lists all the packages which are present on a machine.

5. How to remove a package which is present on a machine?
   
   The command “Remove-AppvClientPackage” removes a package from a machine. “Remove-AppvClientPackage” supports the following inputs for the package.
   • Name
   • PackageID
   • Version
   • VersionID

6. Why do we need to run “Set-ExecutionPolicy”?
   
   The “Set-ExecutionPolicy” cmdlet enables you to determine which Windows PowerShell scripts (if any) will be allowed to run on your computer. Windows PowerShell has four different execution policies:
   • Restricted - No scripts can be run. Windows PowerShell can be used only in interactive mode.
   • AllSigned - Only scripts signed by a trusted publisher can be run.
   • RemoteSigned - Downloaded scripts must be signed by a trusted publisher before they can be run
   • Unrestricted - No restrictions; all Windows PowerShell scripts can be run.