



VDI PACKAGING TIPS AND TRICKS

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Applies to: LOGFAS

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VDI Packaging Tips and Tricks

1. GENERAL

There are a number of considerations that must be taken into account when packaging LOGFAS for VDI type environments. The following KBA some of the issues the LOGFAS Team has encountered and noted.

2. SYMPTOMS

VDI Packaging issues and errors can show in a number ways.

3. CAUSE

The primary causes of packaging issues involve:

1. Install CrystalReports on the c:\ Drive to avoid long path lengths.
2. PostgreSQL timeouts due to Database Recovery processes when session is improperly shutdown. Recovery can take up to 20 minutes where the database isn't responsive and Windows attempts to kill the service again. This causes an irrecoverable loop of database corruption.
3. Packager does not see that a service has been added.
4. LOGFAS Service Permissions.

4. RESOLUTION / WORKAROUND

1. Before Installing LOGFAS, manually install CrystalReports from ISSetupPrerequisites folder.
 - a. In Windows Explorer, navigate to the ISSetupPrerequisites folder.
 - b. Find the `\{6B3BA13D-31A5-4DEB-BE1C-C0F9C28A8FFF}` sub-folder.
 - a. Double-Click on the `CRRuntime_64bit_13_0_24.msi` to start the installation. Follow the on-screen instructions, ensuring that you choose the `C:\CrystalReports` folder as the Installation folder.
 - c. Find the `ISSetupPrerequisites\{7C0C5FDF-1EB0-49EF-BE8B-726DFD0F0323}` folder.
 - b. Double-click `CRRuntime_32bit_13_0_24.msi` to start the installation. Follow the on-screen instructions, ensuring that you choose the `C:\CrystalReports` folder as the Installation folder.
2. Install LOGFAS as per the LOGFAS Installation Manual.
3. Set the timeout of the **LOGFAS_PostGres** Service to 1200 seconds.

```
C:\> sc config LOGFAS_POSTGRES binpath= "\"C:\Program
Files\NATO\LOGFAS8\DATABASE\SERVER\bin\pg_ctl.exe\" runservice -N
\"LOGFAS_POSTGRES\" -D "\"C:\Program Files\NATO\LOGFAS8\DATABASE\SERVER\Data\" -t
1200 -w -o \" -p 15432\" "
```

4. Export/Import the LOGFAS_Postgres Key

The packager does not notice that the LOGFAS_PostGres service was added. This step to export and import is to encourage the packaging tool to make the service part of the package. Future versions of AppVolumes may not need this step, but doesn't hurt.

```
C:\> reg export "HKLM\System\CurrentControlSet\LOGFAS_PostGres"
LOGFAS_PostGres.reg
```

```
C:\> reg import LOGFAS_PostGres.reg
```

5. LOGFAS Service Permissions

Need to add the permission for Interactive Users to Stop, Start and Restart the **LOGFAS_PostGres** service. This is very important for the Writables!

- a. Show Current Permissions

```
C:\> sc sdshow logfas_postgres
```

```
D:(A;;CCLCSWRPWPDTLOCRRC;;;SY)(A;CCDCLCSWRPWPDTLOCRSDRCWDWO;;;BA)(A;;CCLCSWLOCRRC;;;IU)(A;;CCLCSWLOCRRC;;;SU)S:(AU;FA;CCDCLCSWRPWPDTLOCRSDRCWDWO;;;WD)
```

- b. Copy the output to a text edit and add "**(A;RPWPCR;;;IU)**" just before the S:
- c. Run SDSET Command

```
C:\> sc sdset logfas_postgres
```

```
"D:(A;;CCLCSWRPWPDTLOCRRC;;;SY)(A;CCDCLCSWRPWPDTLOCRSDRCWDWO;;;BA)(A;;CCLCSWLOCRRC;;;IU)(A;;CCLCSWLOCRRC;;;SU)(A;;RPWPCR;;;IU)S:(AU;FA;CCDCLCSWRPWPDTLOCRSDRCWDWO;;;WD)"
```

N.B. Be sure to use YOUR output from above, not this example!

6. Copy any Exercise/Mission Maps required (DCW)

5. PACKAGE CLEANUP

1. Stop the service before finalising the packaging.

It is important to stop the database engine before finalizing the package such that lock files are not included in the package. Also, this test that the permissions (above) for normal users to start/stop postges are actually working.

```
C:\> net stop LOGFAS_PostgreSQL
```

2. Eject the ISO disk image, Delete all ISO etc files.
3. Empty Recycle Bin

6. TEST MODULES

1. Smoke-test all modules

- a. LCM - Local Databases

- a. Open LCM
- b. Check that logfas_logbase and logf_template are shown, without ?
- c. Select logfas_logbase and Action -> Export. Select Desktop to write the file to and click Save.
- d. Activate logfas_logbase by double-clicking. Notice green tick in Active column.

- b. LDM - Crystal Reports

- a. Open LDM -> Reports -> Items -> RIC Report
- b. Select Classification NATO UNCLASSIFIED and click OK
- c. Confirm that the LDM Report Viewer opens and shows a report "Reportable Item Codes (Short) Report"

- c. ADAMS:

- a. Open ADAMS, and wait for the module to open. Close ADAMS.

- d. CORSOM:
 - a. Open CORSOM, and wait for the module to open. Close CORSOM.
- e. EVE
 - a. Open EVE, and wait for the module to open. Close EVE.
- f. GEOMAN
 - a. Open GEOMAN, and wait for the module to open. Close GEOMAN.
- g. SDM
 - a. Open SDM, and wait for the module to open. Close SDM.
- h. SPM
 - a. Open SPM, and wait for the module to open. Close SPM.
- i. UMM
 - a. Open UMM, and wait for the module to open. Close UMM.

7. FINALIZE THE PACKAGE

1. Click OK to stop the packaging
 - a. Confirm with Yes
 - b. Hit Finalize on the popup for Crystal Reports (not sure what this is)
 - c. Click OK on question to reboot. Wait for the reboot to finish.
 - d. Login again and wait for "Finalizing package" to complete and the message "Packaging successful!"