

# Installing Render Satellites

In this article we'll learn:

- What the term **satellite** means
- How to install **Render Satellites**
- How to manage **Render Satellites** in the Workflow
- Which **features** and **enhancements** are planned for the future regarding Render Satellites.

## 1. General

**ZuniComm**, which is a service for controlling the required SDKs in the Workflow, has been available as an external service called **Render Satellites** since version 1.10.0. With Render Satellites, ripping (rendering as well as rasterizing) can be distributed as a separate entity using available computer resources. A Render Satellite thus represents a dedicated installation of the ZuniComm application on a computer system or virtual machine.

The installation of Render Satellites must be done separately on each respective computer system. We explain the setup and installation process in further detail in this article.

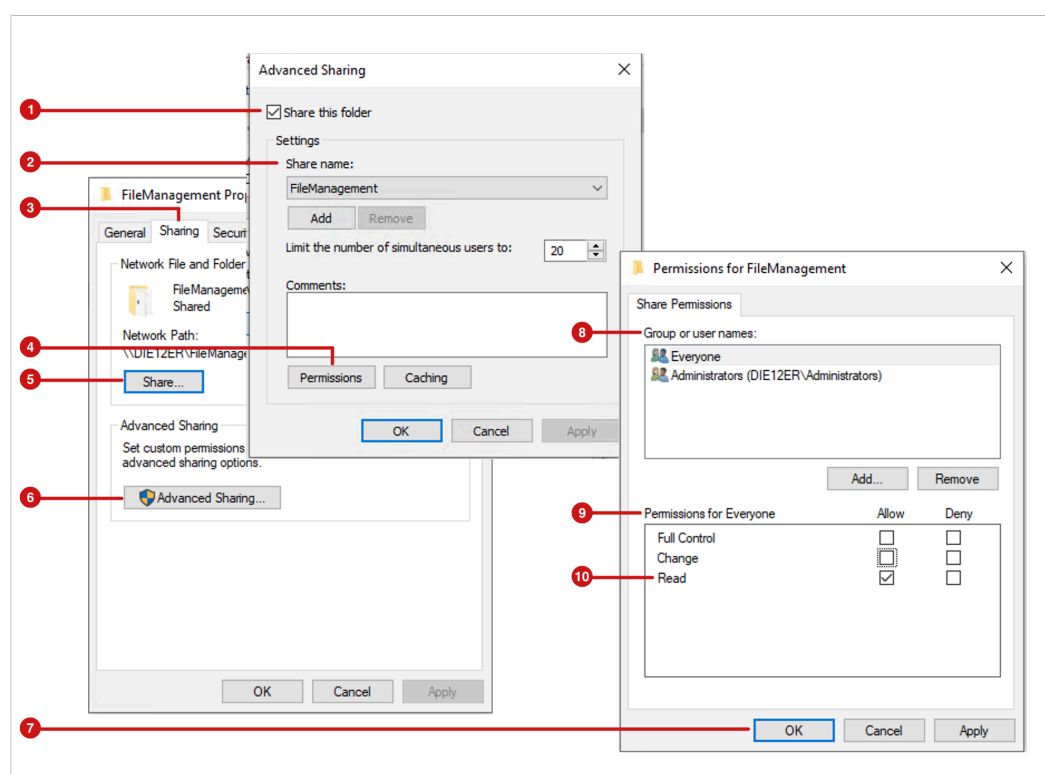
## 2. Preparations in the Workflow

Before a Render Satellite can be installed and created and/or used in the Workflow, the FileManagement directory located on `c:\pms_data` or `d:\pms_data` in the Workflow workstation must be shared in Windows. Follow these steps to accomplish this:

1. First, stop the **PMS** service.
2. On the Workflow workstation, open **Windows Explorer**.
3. Navigate to the **FileManagement** directory under either `c:\pms_data` or `d:\pms_data`.
4. Open the **Properties** settings by right-clicking on the *FileManagement* directory.
5. Select the **Sharing** tab **[3]**.
6. Open the **Advanced Sharing** option **[6]** by clicking on the button.
7. Activate the **Share this folder** **[1]** option.

8. Under **Share name** [2], make sure *FileManagement* is selected.
9. Open the **Permissions** [4] for *FileManagement* by clicking on the button.
10. Under **Group or user names** [8], select the users or groups that are allowed to access the folder.
11. Under **Permissions** for the "Name of selected user" [9] activate the permission *Read* [10] – write permissions are not required and in this case should not be granted.
12. Confirm your settings by pressing **OK** [7].

**Figure 1:** The various dialogs with which the *FileManagement* directory can be shared when using Windows.



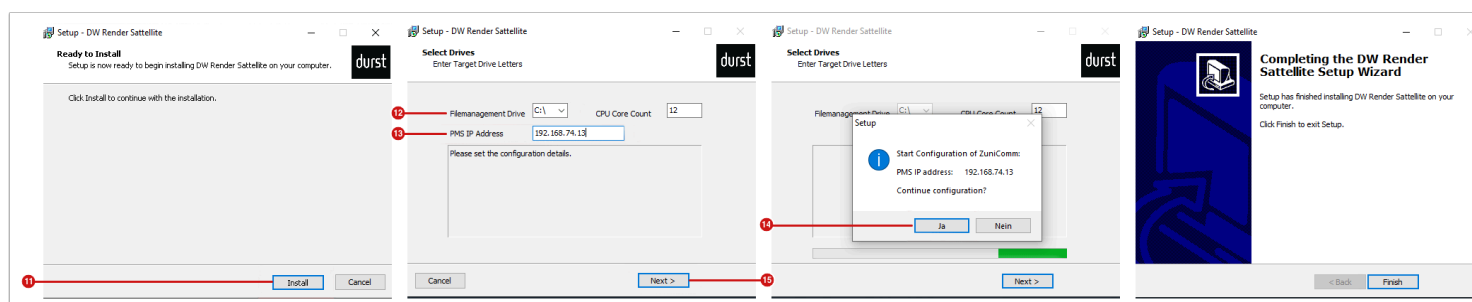
13. After setting the appropriate permissions for the *FileManagement* directory on the Workflow workstation, the Share must be entered in the *application properties* of the Workflow. Proceed as follows:
14. Open the **application.properties** file under `c:\program files\ppd\pms`.
15. Enter the following information in the file:
  - `ppd.common.filemanagement.share=FileManagement`
  - `ppd.common.filemanagement.share.username=` <SMB username of the Workflow workstation>
  - `ppd.common.filemanagement.share.password=` <SMB password of the Workflow workstation>
16. Save the file.
17. Re-start the **PMS** service again.

### 3. Installing Render Satellites

After the Workflow workstation has been correctly prepared and configured, the Render Satellite can be installed on other hardware devices. Please note that no additional Workflows may be installed on the device. In other words, two ZuniComms cannot be installed on the same machine. To install a Render Satellite, follow these steps:

1. Open <https://extranet.durst-group.com/>
2. In the release directory, download the setup for installing the Render Satellite **RS\_Versionsnummer(Build number).exe**.
3. Run the setup and start it by clicking **Install [11]**.
4. To configure the Render Satellite:
  - Select the correct drive under **FileManagement Drive [12]** This is where the *FileManagement* is located.
  - Enter the **IP Address [13]** of the Workflow.
  - Click **Next [15]**.
5. Confirm the setup dialog by clicking on **Yes [14]** to continue.
6. Click on **Finish** to complete the installation.

**Figure 2:** The four dialogs guiding the user through the *DW Render Satellite Installer* setup.



#### Pay attention to the version number of the installer

Pay attention to the version number when installing. The version number of the installer file should match the installation number of the Workflow in the first two digits of the version number, e.g.: 1.10.x. Making changes in the Durst Workflow regarding Render Satellites could possibly lead to problems with older versions of the Render Satellite.

## 4. Configure Render Satellites in the Workflow

After the Workflow workstation has been successfully configured and the Render Satellite has been installed, it can then be created, configured and used in the Workflow. Proceed as follows:

1. Select **Administration > Interfaces**.
2. Click on the **ZuniComm** tab. By installing a Render Satellite on an external workstation, it is automatically registered in the Workflow and displayed in the Render Satellite list under the **ZuniComm** tab.

**Figure 3:** The *Create, Manage and Verify External Services* area with the *ZuniComm* tab enabled, which you can view via *Administration > Interfaces*.

Name	PC Name	IP-Address	Type	Assigned Printers	Job Types	HHR Instances	Version	CPU Cores	RAM	Status	Details
Main		127.0.0.1	Main Instance			6	1.10.2.17	14	65209 MB	✓	ⓘ
Satellite		192.168.74.130	Satellite	Rhotex 500 Tester's Choice		2	1.10.1.3	4	8192 MB	✓	ⓘ

3. Select the newly created Render Satellite in the list and click on **Edit** in the action bar. In the *Edit ZuniComm Instance* dialog you can now choose the following options:
  - **Name** – Select a name for the Render Satellite. You should make sure when multiple Render Satellites are installed, the name of the Render Satellite is unique, which allows easy identification.
  - **HHR Instances** – This defines amount of HHR instances that should be allocated from the total number of the HHR instances that are currently licensed in the Workflow. The number of available HHR Instances is listed below this input field.
  - **Assigned Printers** – Select printers in the Workflow that will serviced by the Render Satellite.

**Figure 4:** The *Edit ZuniComm Instance* dialog.

Edit

## Zunicomm Instance

**Name \***

Render Satellit 1

**HHR Instances \***

2

*Available HHR Instances: 6*

**Assigned Printers**

Add...

Tau 330 RSCi Tester's Choice

P5 miko

Mimaki UCJV300 MC

× Cancel

✓ Save



### Important Information

With the introduction of Render Satellites in version 1.10.0, the initial feature of using Render Satellites for selected printers was implemented. Note that bundling of available render instances to load-balance the render effort is planned for future versions of the Workflow.

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