

## Method Note

# ParaVision 360 & PET Data Storage

### Introduction

Bruker NMI systems using ParaVision 360 are equipped with (1) a Workplace Computer, and (2) a Reconstruction Server/Computer. Reconstructed PET, CT, and MR data is located on the ParaVision 360 Workplace Computer in the **PVDataset format**. **Raw & Listmode PET and Raw CT data** is located on the reconstruction server/computer. Data storage locations for the reconstructed and Raw & Listmode data are shown below. When data storage reaches capacity, new data collection is not possible and/or new data reconstruction is not possible. Details for checking disc space and transferring data is provided below.



	Reconstruction Server/Computer	ParaVision 360 Workplace Computer
	<i>PET (LM &amp; Raw) &amp; CT (Raw) Data</i>	<i>PET, CT, &amp; MR PVDatasets</i>
<b>File Paths</b>	<b>CT Data:</b> Ct_data>nmsu (or other user)  <b>PET Data:</b> nmi_data>ParaVision>data>nmsu (or other user)	<b>Reconstructed Data:</b> 1.8TB Hard Drive, PV3603.X>data>nmsu (or other user)

## ParaVision 360 Workplace & Reconstruction Server/Computer Disk Space

### Checking Workplace Computer Disk Space

The user may check the **ParaVision 360 Workplace Computer** disk space by going to Help>Support>Workstation>Disk as below. In the example below, the disc space is at 42% capacity.

The screenshot shows the ParaVision 360 Workplace interface. The 'Workstation' icon is selected in the left sidebar. The main window displays the 'Disk' section, which includes a table of partitions and a table of filesystem space usage.

major	minor	#blocks	name
259	0	250059096	nvme0n1
259	1	204800	nvme0n1p1
259	2	1048576	nvme0n1p2
259	3	248804679	nvme0n1p3
8	0	1953514584	sda
8	1	1953513543	sda1
11	0	1048575	sr0

Filesystem	Size	Used	Avail	Use%	Mounted on
devtmpfs	32G	0	32G	0%	/dev
tmpfs	32G	32K	32G	1%	/dev/shm
tmpfs	32G	2.0M	32G	1%	/run
tmpfs	32G	0	32G	0%	/sys/fs/cgroup
/dev/nvme0n1p3	234G	152G	71G	69%	/
/dev/nvme0n1p2	976M	503M	407M	50%	/boot
/dev/nvme0n1p1	200M	26M	174M	14%	/boot/efi
/dev/sda1	1.8T	730G	1012G	42%	/opt/nmrdata
tmpfs	6.3G	20K	6.3G	1%	/run/user/1000

### Checking the Reconstruction Server/Computer Disk Space

The user may check the **Reconstruction Server/Computer** disc space by going to Help>Support>Device PET>Hardware as below. In the example below, there is 24.9 TB available.

The screenshot shows the ParaVision 360 Workplace interface. The 'Device PET' icon is selected in the left sidebar. The main window displays the 'Hardware' section, which includes a table of detector temperatures and a list of hardware specifications.

Detector Average Temperature
25.22 °C

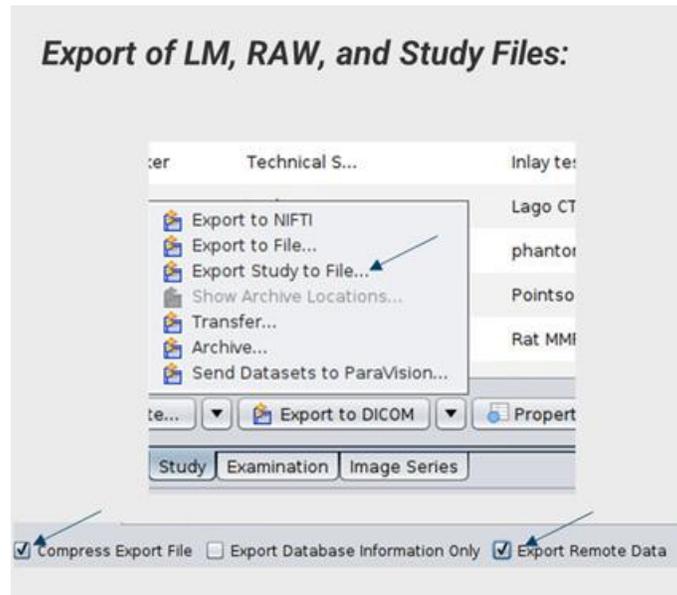
Detector Temperatures
24.89 25.53 25.93 24.8 25.01 25.9 25.53 25.23 24.95 25.47 26.3 25.41 25.01 25.07 25.2 25.81 25.44 24.86 25.72 24.98 24.95 24.95 25.07 24.4

Calibration Name: Default Calibration  
Number of Detectors: 8  
Number of Rings: 3  
Server Disk Capacity: 24972 GByte

## Transferring PVDatasets and Raw & LM Data Starting in ParaVision 360 v3.7

Starting in ParaVision 360 version 3.7, a PET PVDataset may be exported for backup with the corresponding Raw & LM data from the reconstruction/server computer, creating a complete backup study file via the Workplace Computer. This improves the process for managing data backup. The complete study may be easily re-imported directly from the ParaVision 360 workstation.

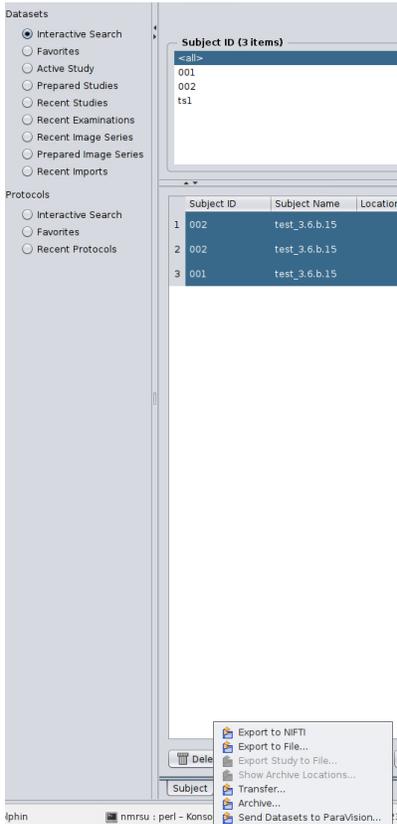


Export a PVDataset with LM & Raw Data from the ParaVision 360 workstation Database Browser. Select the target data>Export Study to File>Compress Export File>Export Remote Data.

## Transferring PVDatasets and Raw & LM Data *Prior to ParaVision 360 to v3.7*

### Archive PVDatasets

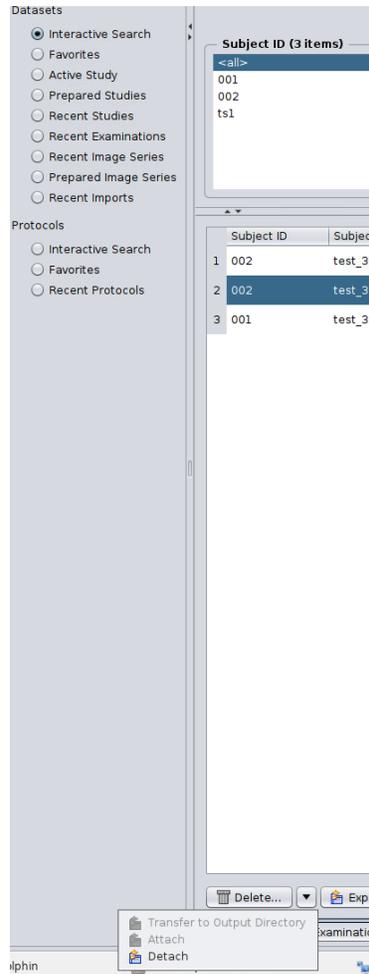
Archive PVDatasets using the ParaVision 360 Dataset Browser. Open the “Dataset Browser” (Menu: Window > Dataset Browser). Select the studies to be exported from the Study subcard as below. Select the drop-down right of “Export to DICOM”, and then select Archive.



Choose the Transfer/Archive directory to Archive the PVDatasets to an external drive. (Note, to define the Archive selection initially, Select Options>ArchiveTransfer).

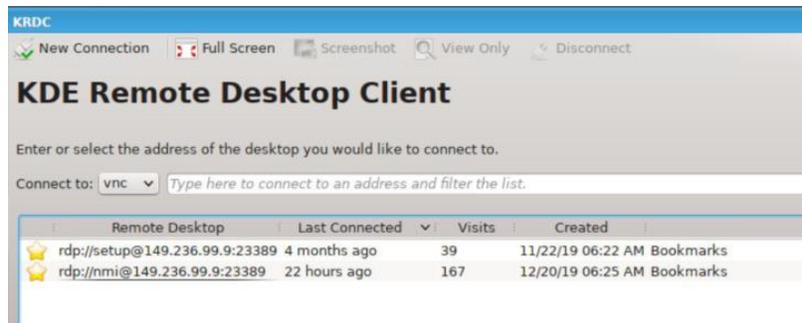


Once the Archive is complete, Select the Studies in the Dataset Browser. Select the drop-down right of “Delete”, and then select Detach. (Note, Studies may be reattached from the external drive by highlighting the study in the Database Browser and select Attach).

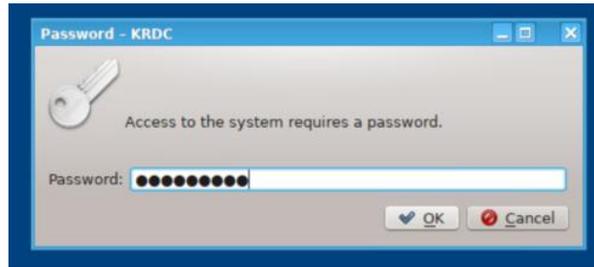


### Reconstruction Server/Computer Disk Space & Transferring Raw & LM Data

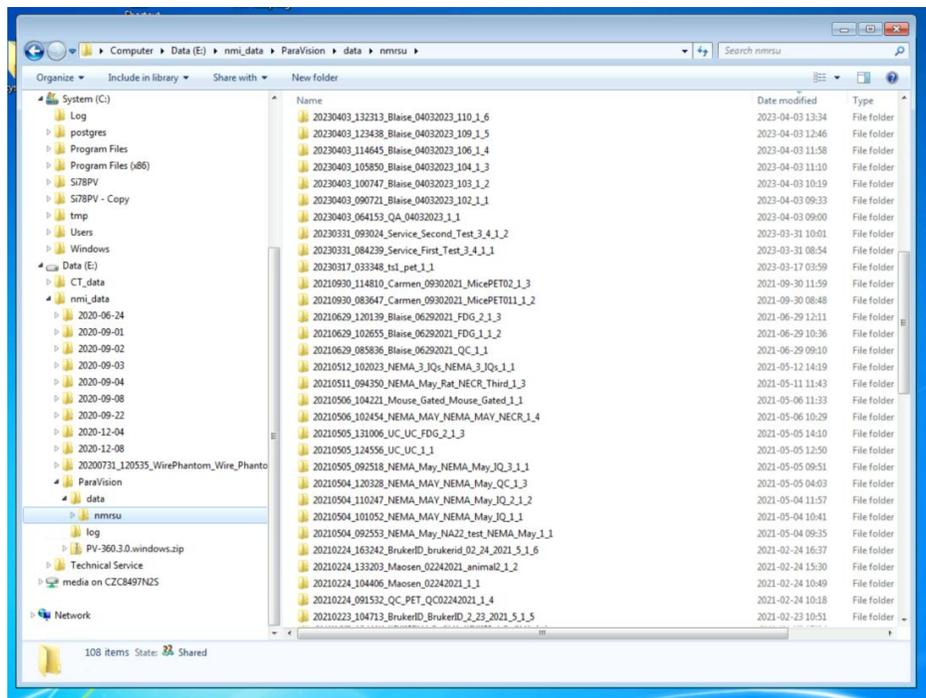
The user may reach the **Reconstruction Server/Computer** using KRDC application at the ParaVision 360 Workplace Computer. Double-click rdp://nmi@149.236.99.9:23389 as below.



Enter the password “NmilsPci!” and select OK.



Navigate the “nmi\_data -> ParaVision -> data -> nmrsu (or other user)” folder as below. Check the disk space and/or transfer data to an external drive.



## **Bruker BioSpin Preclinical Imaging**

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