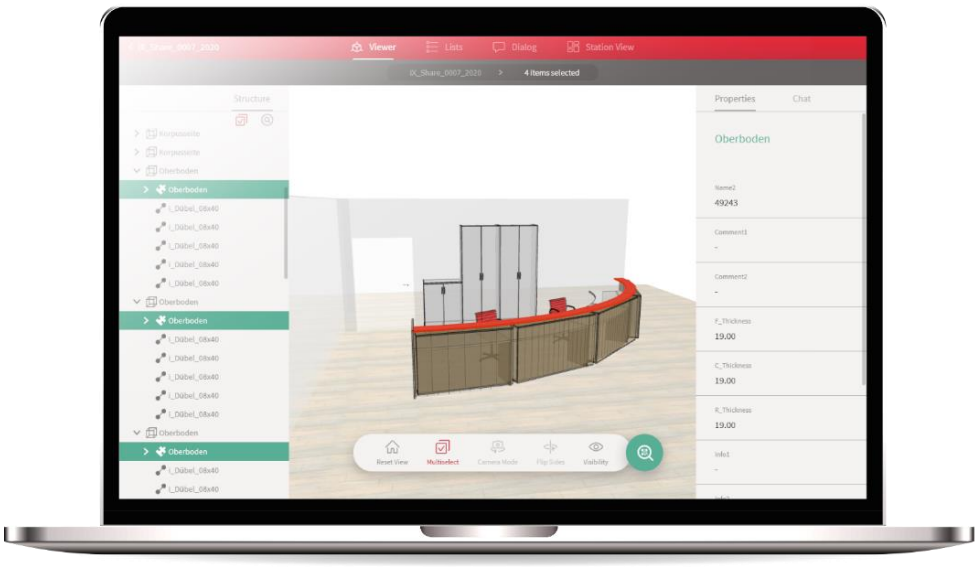
iX Scout

Data transfer and login



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1. Introduction

With the product iX Scout, imos AG provides an online tool for displaying order and production data.

It delivers

- up-to-date data with a high information density

and it allows for

- easy and intuitive handling
- continuous communication between the order processing and production departments as well as
- retrieving production information digitally using a QR code/ barcode and thus a paperless production.

iX Scout can be reached at https://ix-share.imos3d.com/app/

Here the customer logs in with his imos account. The prerequisite for using the application is data that users made available.

The data required for iX Scout is supplied by corresponding order output batches

- iX Scout create transfer file and
- Create iX Scout graphic file or
  Create iX Scout graphic file with CAD elements.

In addition, other outputs can be generated such as Document Manager drawings, CNC preview images, Reports or QR codes/ barcodes.

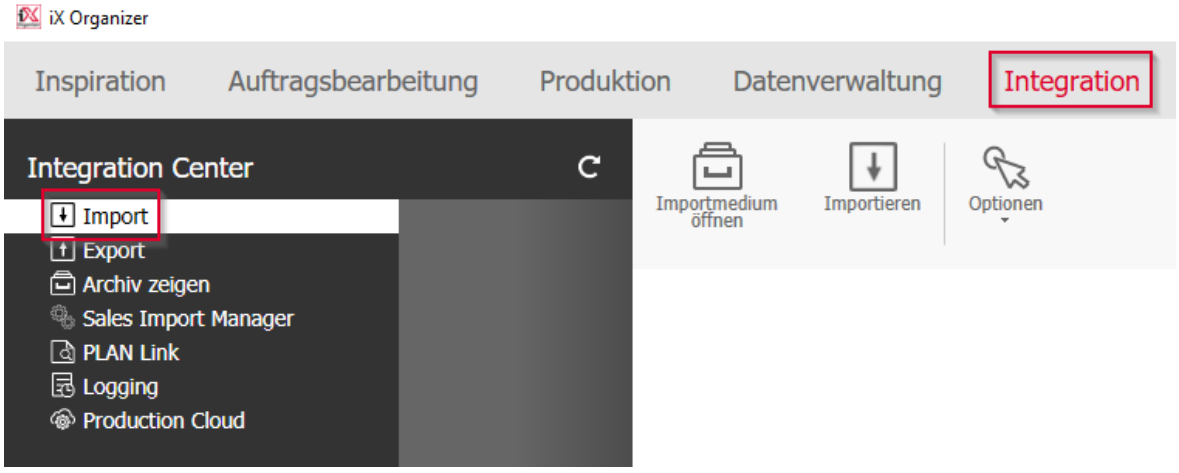
As soon as all required data has been collected in the order specific iX Scout folder, the contents of the folder can be transferred to the online platform. There are two possibilities:

- click on "iX Scout" in the iX Organizer Order Manager or in the iX CAD ribbon menu tab Output
- use an output batch that contains the batch function “Upload iX Scout data”

2. Provide data

Data is generated and made available via the iX Organizer.

Tip: A sample configuration is provided in the Online Help. You can find these in the article "iX Scout - a production communication platform".



The corresponding .zip file can be loaded via Integration>Import and contains all the necessary configurations as well as an example drawing output configuration.

If the import is not to be used, the configuration can also be carried out manually using these instructions.

2.1 Output batch

The output of required and optional data is based on an Output Batch. In addition to the necessary outputs, any number of batches with different configurations can be created.

2.1.1 Necessary outputs

There are two output functions without which iX Scout cannot work: "Create iX Scout transfer file" and "Create iX Scout graphic file" or "Create iX Scout graphic file with CAD elements".

2.1.1.1 Generate iX Scout transfer file

Generates a list file for iX Scout. This output is not user configurable.

2.1.1.2 Create iX Scout graphic file

Generates the 3D graphic content of the order without room and decorative objects . The display is therefore based on pure imos parts.

2.1.1.3 Create iX Scout graphic file with CAD elements

Generates the 3D graphic content of the order with room and decorative objects . As with the drawing output, the order for will be opened in iX CAD.

2.1.2 Optional outputs

In addition to the necessary data, Document Manager drawings, CNC program preview images, barcodes and reports can optionally be generated and transferred.

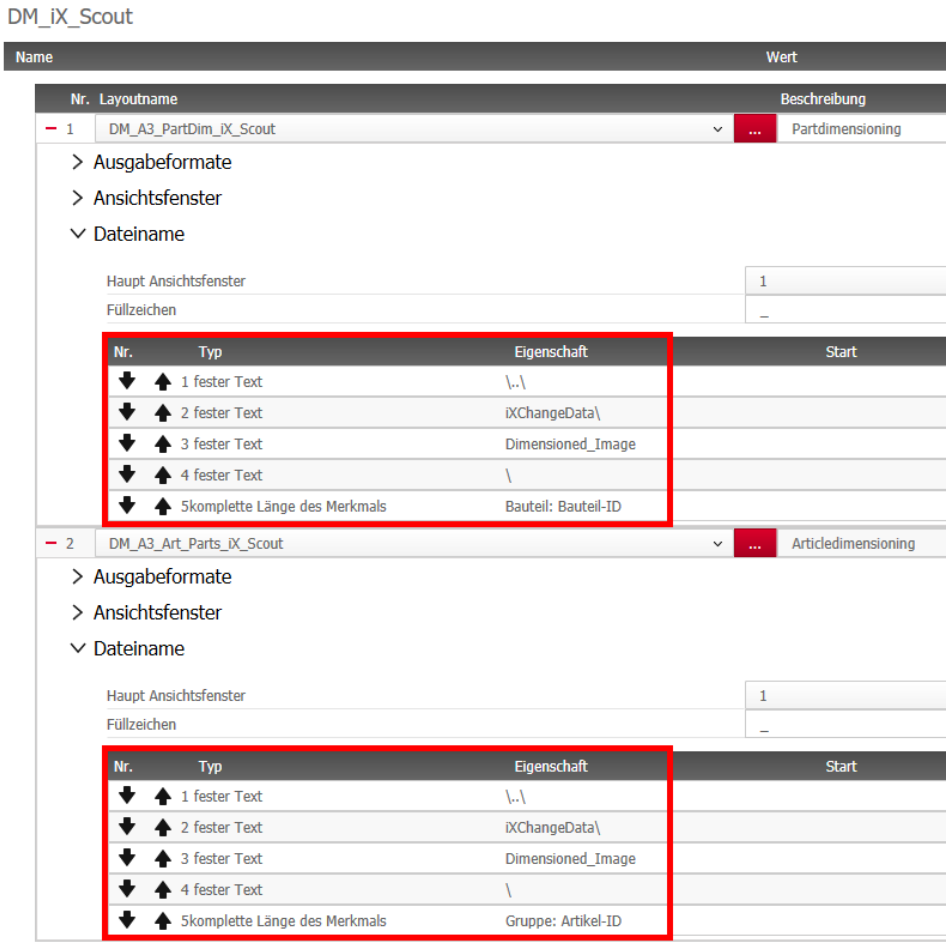
2.1.2.1 Document Manager

One drawing may be defined and created as desired for each article and individual component.

It is important that the output path and the file names correspond to the following scheme:

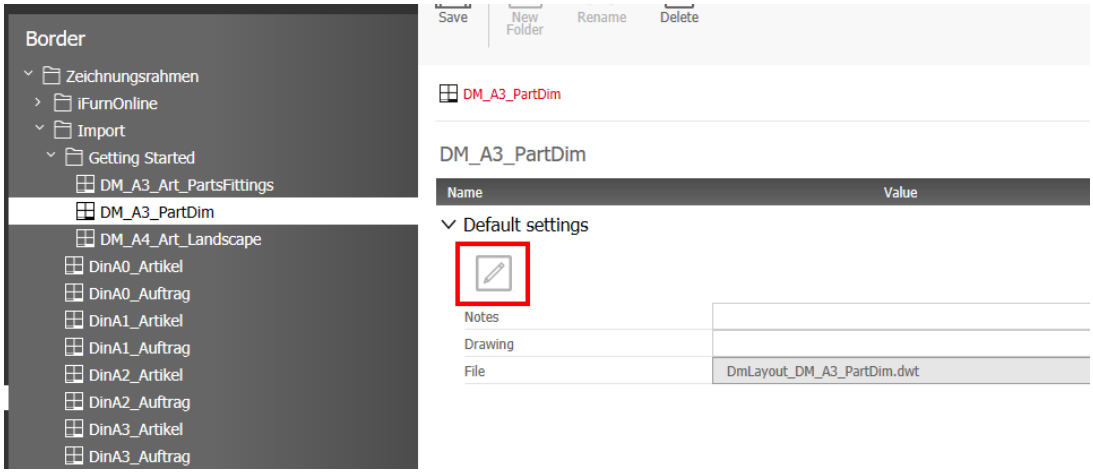
- Each drawing must be stored under the following file path:
  <order directory>\iXChangeData\Dimensioned_Image
- The file names must correspond to the article or part IDs.
- The file format must be .png

In the Document Manager principle, the whole thing looks like this:

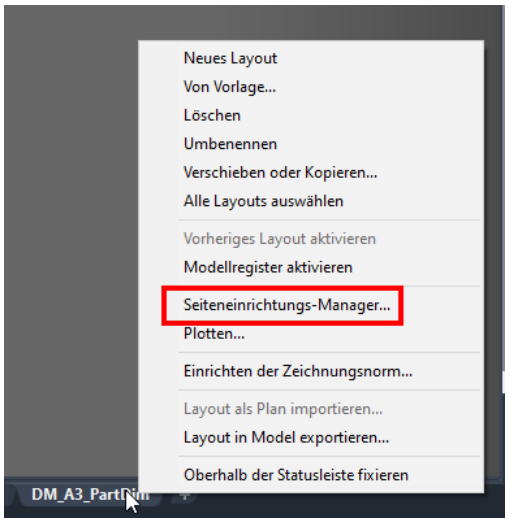


Tip: In order to reduce the file size so that large orders can also be uploaded without problems, the resolution of the output can be reduced.

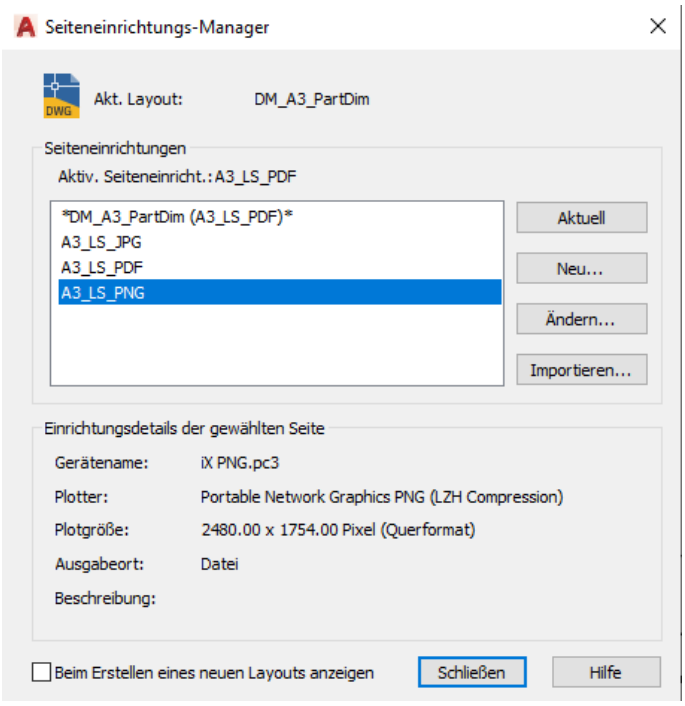
To do this, open the drawing frame.



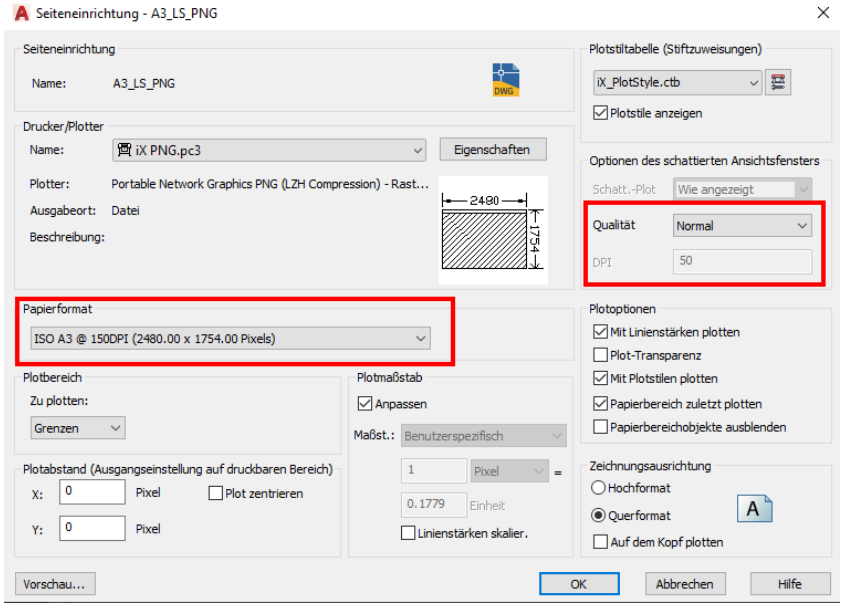
Right-clicking on the layout tab at the bottom opens the context menu. Here you select the "Page Setup Manager".



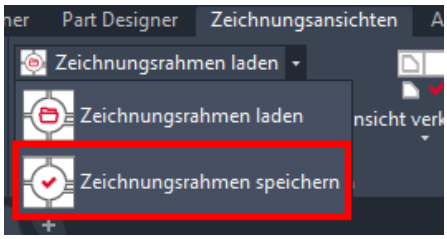
Next select the .png output and change the template or create a new one.



In the "Page setup" dialog, the paper format is then selected accordingly and the quality adjusted. The values must each be chosen according to your requirement.



Finally, the drawing frame must be saved.



2.1.2.1.1 Changes in version 14.0.02.469:

The drawing name must be appended with "_1". This change is already included in the current sample import ZIP. (The ZIP file can be found on the iX Scout pages in the iX 2021 Online Help.)

Another drawing can optionally be created with the extension "_2".

Note: The amount of data could increase critically! It is recommended to issue a second drawing only when required and taking into account the data limit!

2.1.2.2 CNC preview images

In order to generate preview images that show the program content and the position of the part on the machine, this output must be defined accordingly.

There are two ways to implement this.

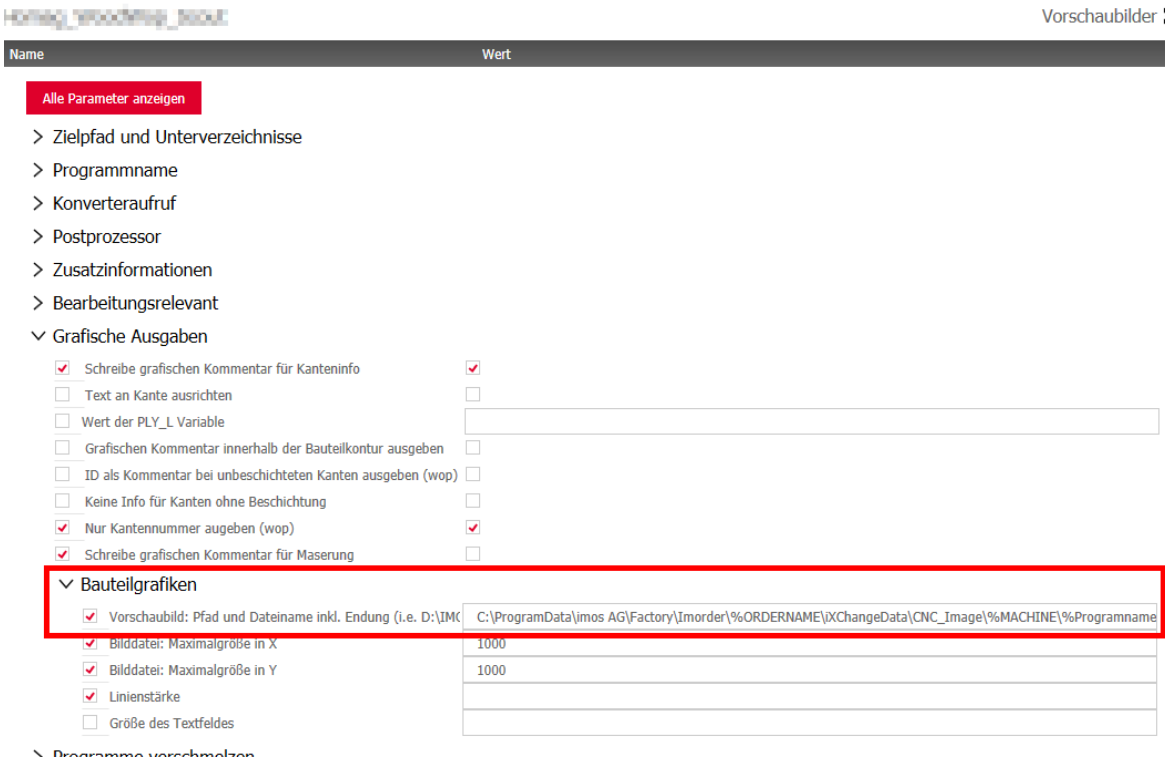
2.1.2.2.1 Setting in the machine definition

The output path and the definition of the output can be entered directly in the machine definition in the Workflow Center. In this case, only the program content is automatically depicted.

The path must look like this:

```
…\Imorder\%ORDERNAME\iXChangeData\CNC_Image\%MACHINE\%Programname.png
```

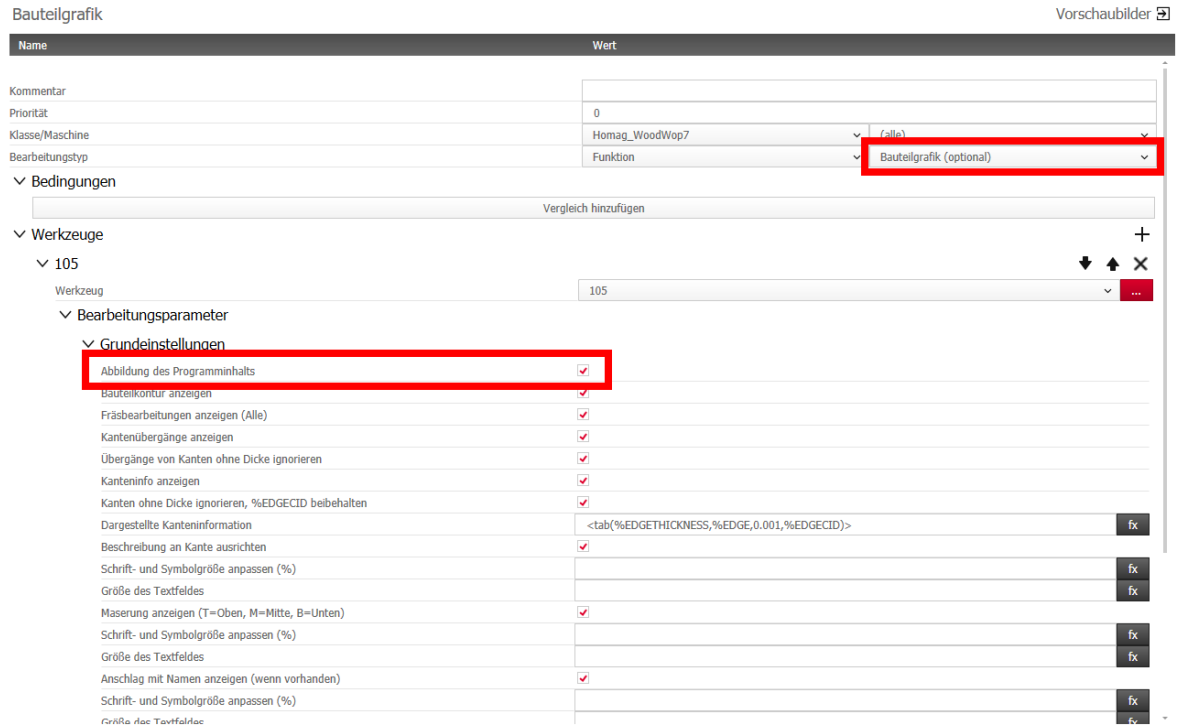
You can find the relevant fields here:



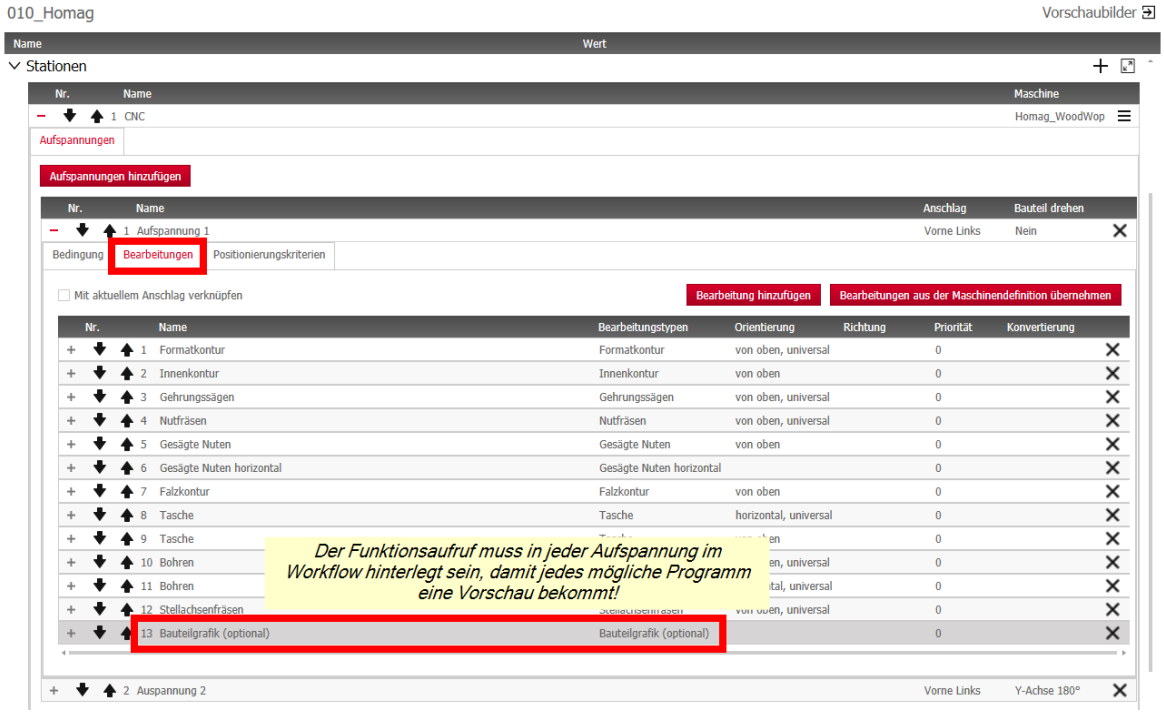
2.1.2.2.2 Creation via function call

If the method described above is not practicable, for example because this path has already been assigned, output can be generated via function calls. The file path must be defined as under 2.1.2.2.1 . The system and the assignment of the calls can look like this, for example:

Function call:



In the workflow:

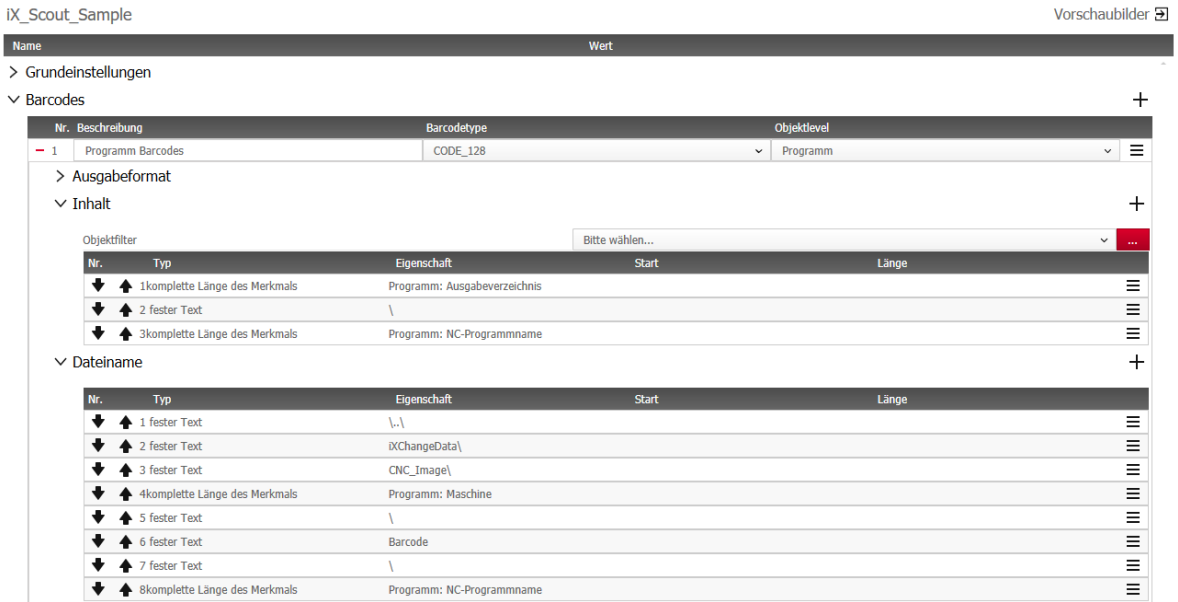


Note: The function call must be stored in each Position in the workflow so that every possible program gets a preview.

2.1.2.3 Barcodes

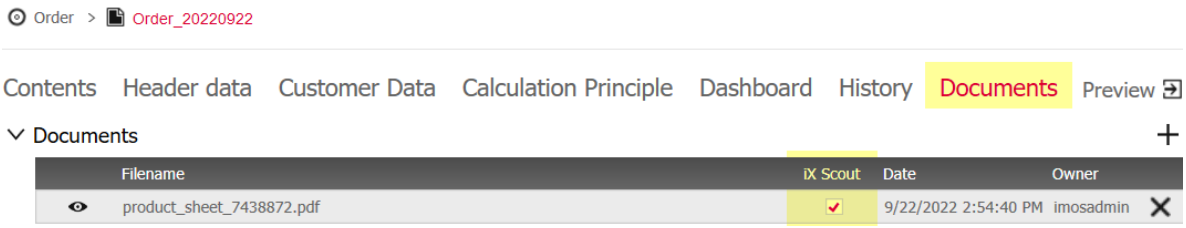
With the help of Barcode principles, the barcodes of the individual machine programs can be generated and shared. As with the CNC preview images, the save path is important for a successful transfer.

Here is an example of machine program barcodes:



2.1.2.4 Reports

By default, file attachments in the order management are released for transfer to iX Scout by ticking the "iX Scout" checkbox.

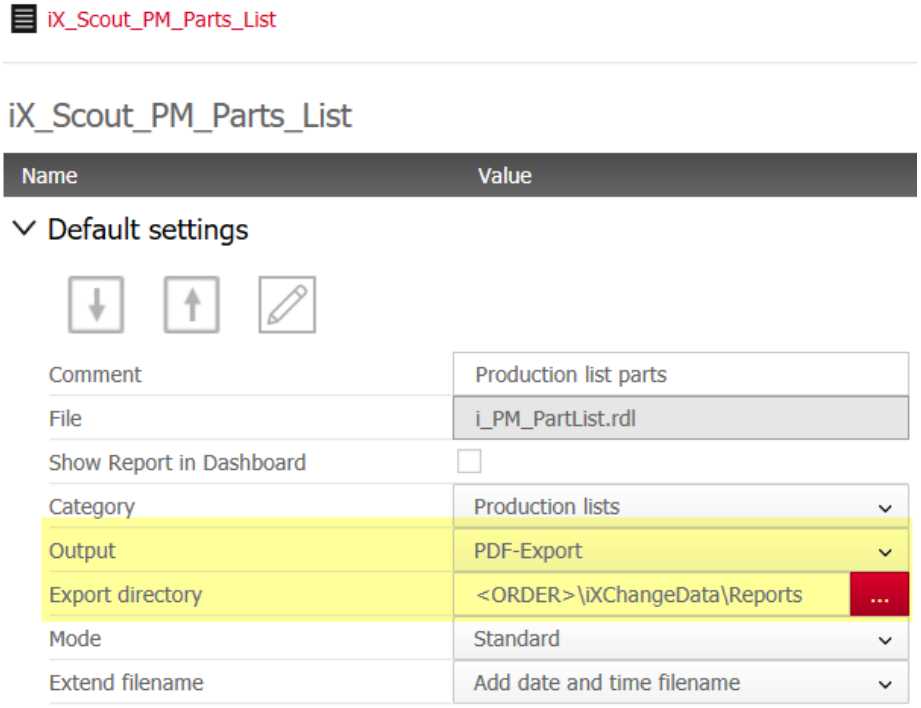


Since reports are typically changed and updated often, there is another possibility for them:

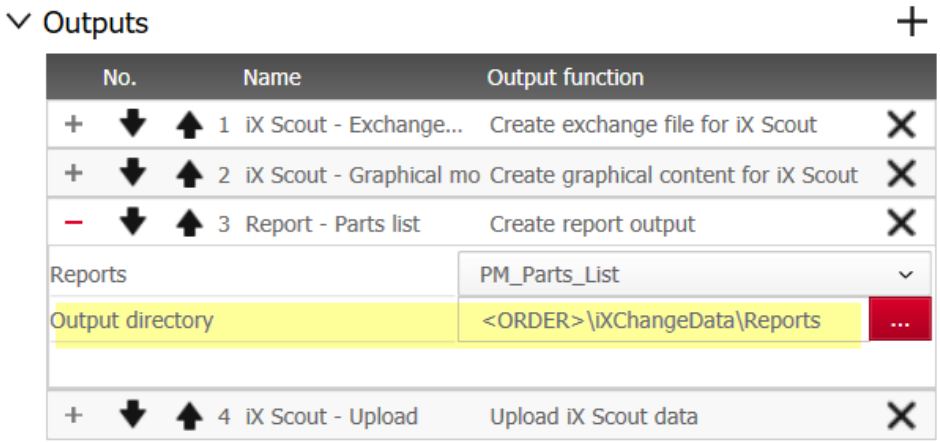
To provide and release a report to iX Scout, the file only has to be stored in the directory **<ORDER>\iXChangeData \Reports** – so the manual attachment in the Order Manager and ticking the iX Scout checkbox can be omitted.

You can specify this directory as the storage location in the Export directory field of the Report principle and the "Create report output" batch function**.**

Export directory field in the report principle:

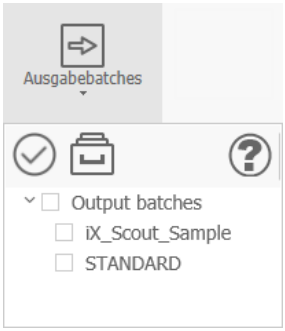


Export directory field in the output batch function "Create report output":



3. Data transfer

3.1 Generate data



To generate the required data, start the respective Output Batch in iX Organizer.

Notes:

- In particular, select the necessary Output Batch (see 2.1.1).
- If you want to transfer files to iX Scout, please note that the size of the iX Scout transfer file is limited. As of June 2022, the limit is 512MB.

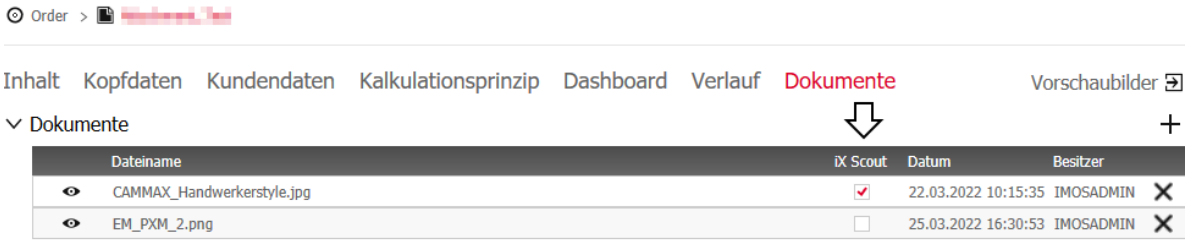
3.2 Optional file attachments

Optionally, you can attach additional files to an order. For example:

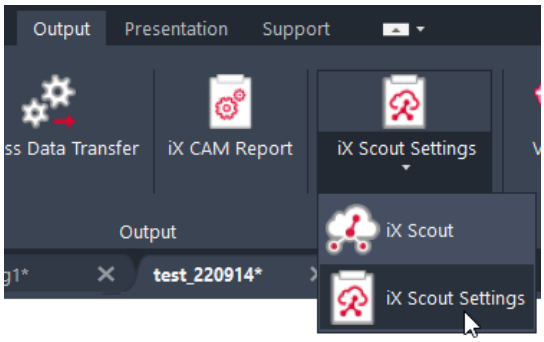
- PDF brochures
- Photographs of handwritten notes and sketches
- CAM preview images
- ...

The function can be found in the "Documents" area in the Order Manager of iX Organizer and in the "Save as" dialog of iX CAD. When attached, the files themselves are saved as a copy of the original file in the following order directory:
`<ORDER>\iXChangeData\Attachments`

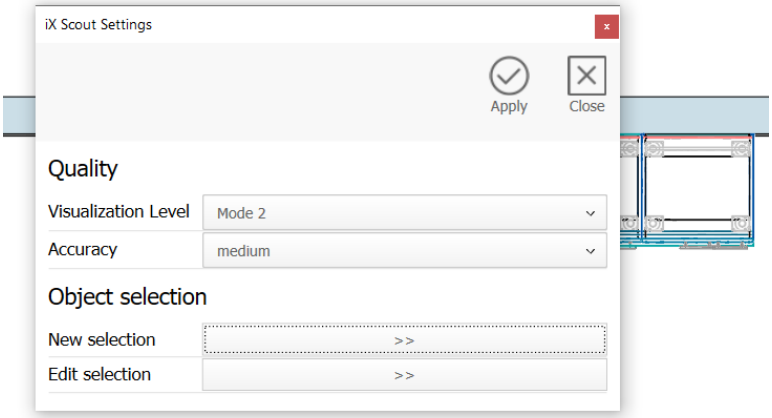
To release a file for the iX Scout transfer, check the "iX Scout" checkbox in the corresponding table row. Files without the tick will not be uploaded to iX Scout.



3.3 Order related graphics settings



When generating the iX Scout transfer files, the 3D model of the order is converted into an iX Scout compatible format. A user can configure some of the graphics settings for this in the **iX Scout options** for the currently open order. The function is located in the "Outputs" tab of the iX CAD ribbon.



Change the settings as desired and click the Apply button.

Description of the settings in the iX Scout Options dialog

Option	Description
Visualization level	Visualization levels as in the Visu-Manager. Default value: - “Start visualization level” from the iX Options Possible values: - From 0 to 6
Accuracy	Level of detail of arcs in the drawing. The higher the level of detail, the larger the 3D model file becomes. "High" is therefore only recommended for complex curved parts. Default value: - Medium Possible values: - Low - Medium - High
New selection	Select iX elements and room objects that you want to transfer to iX Scout. Temporarily hides the dialog and shows it again as soon as you confirm the selection with a right-click. Default selection if you do not make a custom selection: All iX elements of the order are transferred during the iX Scout transfer.
Edit selection	Edit the selection retrospectively. Temporarily hides the dialog and shows it again as soon as you confirm the selection with a right-click.
Apply button	Saves the changes and closes the dialog.
Cancel button	Closes the dialog without saving the changes.

3.4 Transfer data

The options for transfer to iX Scout are described in the following chapters.

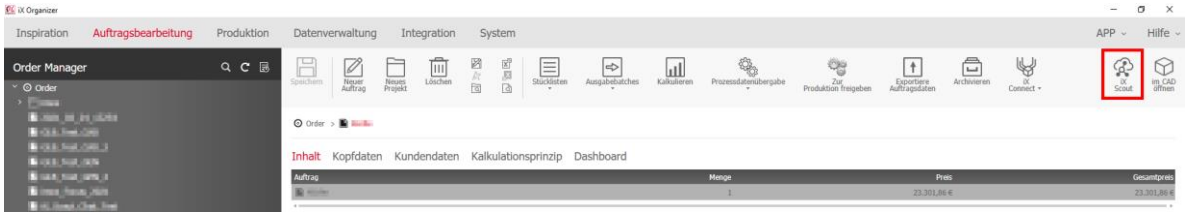
During the transfer, all data from the directory `...\Imorder\%ORDERNAME\iXChangeData\` is packed into a ZIP and transferred to iX Scout. The user will be notified after a successful upload.

3.4.1 Transfer data via iX CAD

The transfer takes place via the "iX Scout" button in the "Output" tab of the ribbon.

3.4.2 Transfer data via iX Organizer Order Manager

The transfer takes place in Order Manager via the "iX Scout" button.



3.4.3 Transfer data via Output Batch

Order data and associated outputs can also be transferred to iX Scout using the Output Batch function "Upload iX Scout data".

For generating desired output files, the same Output Batch ideally also contains the other iX Scout output functions as well as the "Create report output" function.

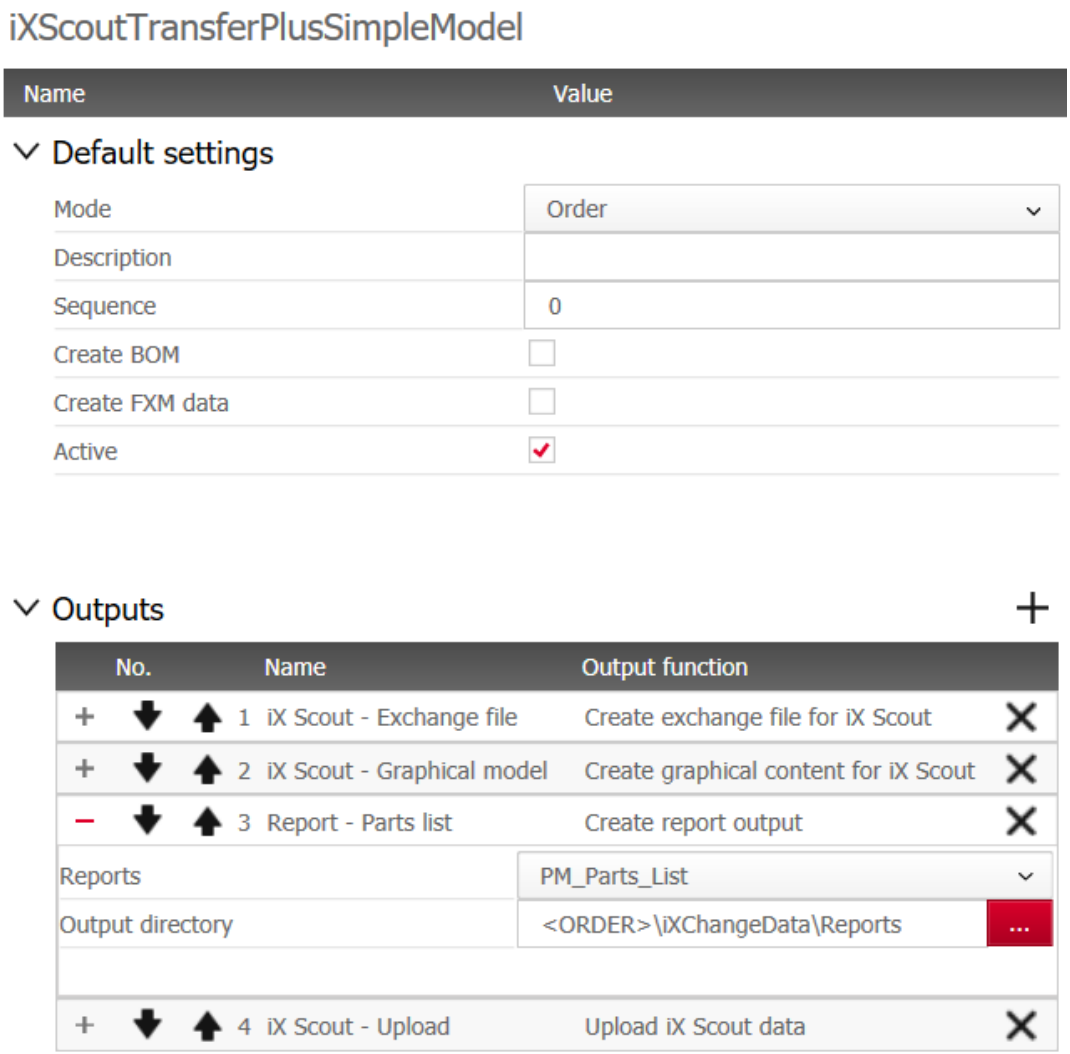
The Output Batch can be triggered manually in the iX Organizer Order Manager or automatically by iX Integration Server.

When using an iBot, all orders will be transferred to iX Scout by the Integration Server. When using the "Insert into job table" function in the Order Manager, only the orders that have been added to the job table are transferred to iX Scout by the Integration Server.

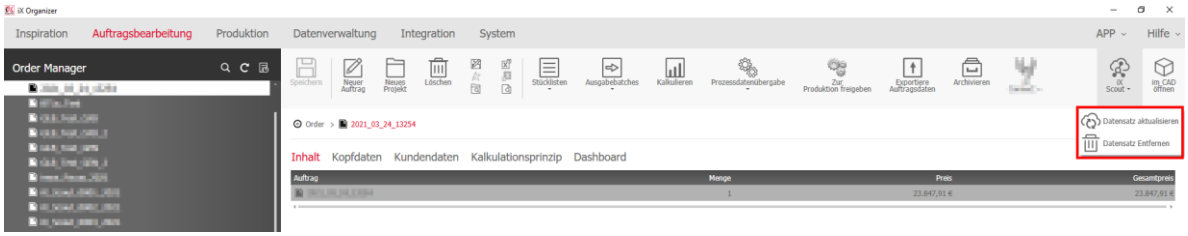
Attention: Always insert the output function "Upload iX Scout data" as the last table row in the "Outputs" section so that the files are already generated before they are uploaded.

Example configuration of an output batch for iX Scout

- Mode = Order
- Output functions:
  - Generate iX Scout transfer file
  - Create iX Scout graphic file
  - Generate report output
    - Reports = Report principle " PM_Parts_list "
    - = <ORDER>\iXChangeData\Reports
  - Upload iX Scout data



3.5 Refresh/ remove data

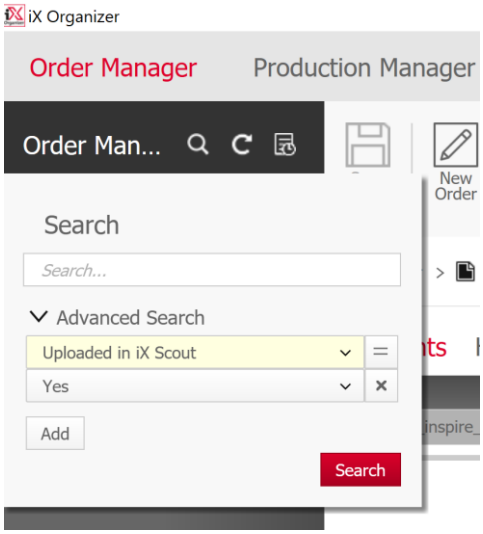


If an order has already been transferred to iX Scout, the following iX Scout functions are available in Order Management:

- Update record set: Uploads changes made to the order to iX Scout.
- Remove record set: Deletes the order in iX Scout.

3.6 Find iX Scout orders in the Order Manager

In the iX Organizer Order Manager you can find orders that have already been uploaded to iX Scout using the filter "Uploaded in iX Scout"="Yes".



4. Fetch data in iX Scout

In order to fetch data and information provided in iX Scout, there is a functionality for scanning QR codes/ barcodes, which is described further on in the documentation. However, this function requires corresponding fetch parameters in a certain form.

In order to be able to use the Scan module, a QR code/ barcode must be generated. This code must contain the following information:

- **partId =** as a keyword followed by a part ID (e.g. 16395), terminated with a semicolon.
- **orderName =** as a keyword followed by an order name, again terminated with a semicolon.

This information can either be specified in an imos Barcode principle in order to have a QR code/ barcode generated by imos, or the information can be given to another system for further processing by means of process data transfer.

Tip: If the camera of the end device (e.g. a tablet) is not used for input, but rather a handheld scanner, the information can be encoded not only as a QR code but also in another form.

5. Login to iX Scout

iX Scout can be reached at https://ix-share.imos3d.com/app/

Here a user logs in with his imos account.

Note: Prerequisites for using the application are available data and an iX Scout license that has been assigned to the user in the imos License Portal.