

Tool Description

Define some information for the tool

Tool characteristics

Name*:	<input type="text" value="cpacwslnititalizer"/>	
Icon path:	<input type="text" value="logo.png"/> ...	<input checked="" type="checkbox"/> Copy into configuration folder
Group Path:	<input type="text" value="CPAWCS"/> ...	
Documentation:	<input type="text" value="How to integrate a tool in RCE10_V3.pdf"/> ...	
Description:	<div><div></div></div>	

Contact Information

Name:	<input type="text" value="Marko Alder"/>
E-Mail:	<input type="text" value="marko.alder@dlr.de"/>



< Back

Next >

Save As ...

Save and update


Cancel

Inputs and Outputs

Configure the inputs and outputs of the tool

Inputs Outputs Verification

Input	Data type	Handling	Constraint	
CPAWCS_in	File	Single (consumed), Queu...	Required	<div>Add...</div> <div>Edit...</div> <div>Remove</div>

 Edit... Input

Name*:

CPAWCS_in

Data type*:

File

Handling*:

☐ Constant (not consumed)
 ☒ Single (consumed)
 ☒ Queue (consumed)

Default handling*:

Single (consumed)

Constraint*:

☒ Required
 ☐ Required if connected
 ☐ Not required

Default constraint*:

Required

OK

Cancel



< Back

Next >

Save As ...

Save and update

Cancel

Inputs and Outputs

Configure the inputs and outputs of the tool

Inputs Outputs Verification

Output	Data type
CPAWCS_out	File

Add...

Edit...

Remove

Edit... Output

Name*: CPAWCS_out

Data type*: File

OK Cancel



< Back

Next >

Save As ...

Save and update

Cancel

Define properties of the tool

Property keys for group "Default":

Key

Display name

Define at wo...

Default va...

Comment

Add...

Edit...

Remove

Add...

Rename...

Remove

☐ Write key-value properties file at runtime (in "Config" folder)

working/Config/



[< Back](#)

[Next >](#)

Save As ...

Save and update

Cancel

Launch Settings

⚠ Currently, only one launch setting is possible

Host	Tool directory	Version	Working directory	Add...
RCE	C:\Users\alde_ma\Docum...	1.0	RCE temp directory	Edit...
				Remove

Edit Launch Settings

Tool directory*: C:\Users\alde_ma\Documents\Workshops\Dirawi\DummyTools\cp ...

Version*: 1.0

Working directory (absolute): ...

☒ Create arbitrary directory in RCE temp directory

☐ Limit parallel executions

OK

Cancel

☐ Use a new working directory on each run

Tool Copying Behaviour

- ☒ Do not copy tool
- ☐ Copy tool to working directory once
- ☐ Copy tool to working directory on each run

Clean up choices for working directory(ies) in workflow configuration*

- ☒ Never delete working directory(ies)
- ☒ Delete working directory(ies) when workflow is finished
- ☒ Keep in case of failed workflow run
- ☐ Delete working directory(ies) after each run of the tool
- ☐ Keep in case of failed tool run

*Defines the user's choices when configuring the component



< Back

Next >

Save As ...

Save and update

Cancel

```
C:\ProgramData\mambaforge\Scripts\  
activate.bat cpacsSeminar  
python "${dir:tool}"\run.py
```

Integrate a Tool as a Workflow Component

Execution

Configure the execution command and optionally a pre execution, post execution, and tool run imitation script

Execution command(s)	Pre execution script	Post execution script	Tool run imitation script
<input checked="" type="checkbox"/> Command(s) for Windows <div>1 C:\ProgramData\mambaforge Scripts\activate.bat cpacsSeminar 2 python "\${dir:tool}"\run.py</div>	<input type="checkbox"/> Command(s) for Linux <div>1</div>		

Inputs

CPAWCS_in ▼ Insert

Properties

▼ Insert

Directories

Config dir ▼ Insert

Note: Command(s) executed as batch file Note: Command language is Bash

Execution Options

☐ Exit code other than 0 is not an error

Execute (command(s), pre execution/post execution/tool run imitation script) from

☒ Working directory

☐ Tool directory

Tool run imitation mode

☐ Support tool run imitation

? < Back Next > Save As ... Save and update Cancel

```
# create folder in working directory for tool input variable
if not already existing
input_dir = os.path.join("${dir:working}", "ToolInput")

try:
    os.mkdir(input_dir)
except:
    print("An exception occurred")

shutil.copyfile("${in:CPAWCS_in}", os.path.join(input_dir,
"toolInput.xml"))

# make sure that the toolOutput folder exists
try:
    os.mkdir(os.path.join("${dir:working}", 'ToolOutput'))
except:
    print("An exception occurred")
```

Execution

Configure the execution command and optionally a pre execution, post execution, and tool run imitation script

Execution command(s) Pre execution script Post execution script Tool run imitation script

```
1 # create folder in working directory for tool input
variable if not already existing
2 input_dir = os.path.join("${dir:working}", "ToolInput")
3
4 try:
5     os.mkdir(input_dir)
6 except:
7     print("An exception occurred")
8
9 shutil.copyfile("${in:CPAWCS_in}", os.path.join
(input_dir, "toolInput.xml"))
10
11 # make sure that the toolOutput folder exists
12 try:
13     os.mkdir(os.path.join("${dir:working}",
'ToolOutput'))
14 except:
15     print("An exception occurred")
```

Inputs

Insert

Outputs

Insert

Properties

Insert

Directories

Insert

Note: Script language is embedded Python 2.5 (plain Python without specific modules)

Tool run imitation mode

☐ Support tool run imitation

< Back


Next >

Save As ...

Save and update

Cancel

```
${out:CPAWCS_out} =  
os.path.join("${dir:working}",  
'ToolOutput', 'toolOutput.xml')
```

 Integrate a Tool as a Workflow Component

Execution

Configure the execution command and optionally a pre execution, post execution, and tool run imitation script

Execution command(s) | Pre execution script | Post execution script | Tool run imitation script

```
1 | ${out:CPAWCS_out} = os.path.join("${dir:working}",  
2 | 'ToolOutput', 'toolOutput.xml')
```

Inputs
CPAWCS_in ▼ Insert

Outputs
CPAWCS_out ▼ Insert

Properties
▼ Insert

Directories
Config dir ▼ Insert


Additional Properties
Tool exit code ▼ Insert

Insert copy of file/dir...

Note: Script language is embedded Python 2.5 (plain Python without specific modules)

Tool run imitation mode

☐ Support tool run imitation



< Back

Next >

Save As ...

Save and update

Cancel