ProcMan

Change Management for IWS

ProcMan

The handover process manager for IWS, JCL and more

- ProcMan controls and automates the change request to be approved and deployed by the Operations planner.
- ProcMan is a change and lifecycle management system for workload automation objects

ProcMan Objects

ProcMan supports the following object types:

- JCL Member, Jobs, Procedures, etc.
- IWSz Applications, Jobs regarding Operations
- IWSd Jobstreams, Jobs etc.
- Customer specific forms for any other object type

ProcMan Stages

- ProcMan supports as many stages as you need:
  - ⇨Production
  - Test ⇦⇨ Production
  - Development ⇨ Test ⇨Production
  - Development ⇨ Test1 ⇨ Test2 ⇨ Acceptance ⇨ Production
  - Stage1 ⇨ Stage2 ⇨ Stage3 ⇨ Stage4 ⇨ Stage5 ⇨ … ⇨ Stage n

Generate and Change JCL on the fly

Generate and Change IWS on the fly

ProcMan Rules

- Define your Check and Change Rules (of your site standards)
  - Simple change or set of parameters, e.g.

    Set Jobname column 1 = “P”
  - Simple check of site standards, e.g.

    If operation-description = blank, issue error message “description must not be empty”
  - Nested Conditions are possible, e.g.

    If target=“PROD” & substr(WSID,1,1) = “T” then substr(WSID,1,1) “P”)
  - DO/END loops can be coded
  - “Table Functions” simplify value changes, e.g.

    find in mytable column1 “ABC”, take value of column2

    find in mytable column1 Calendar, take value of column2

ProcMan IWSz Example

ProcMan

https://pc110.horizont-it.de:10443/index.php

ProcMan 4.0.2 - HORIZONT

HORIZONT

Menu

Home
General
- Logout
- Switch to client
- Change Password
- Options

Edit
- Create Process
- Work list
- *Public filters*
- *Private filters*
  - Done last Month
  - my history
  - my work list
  - Package-Test

View
- Object Browser
  - IWSz Applications
  - JCL Archive
  - JobWorkflow

Administration
- Definitions
- Tools
- IWS z/OS module

open all | close all

Information

System Info

my work list (Switch off filter)

2 Process row(s)

Client	Process type Description	Process Id	Role	User	Activity Status	Process Status	Description	Object Count	Change ID	Action Description	Creator	Creatic Date
HORIZONT	JCL New Handover	518	DEVELOPER	p390k	Interrupted	Interrupted	Test Helmut	1	123	JCL New Request	p390k	28.03.20
HORIZONT	IWSz Change	513	DEVELOPER	p390k	Interrupted	Interrupted	test		3456	IWSz Change Request	p390k	25.03.20

Check all processes Clear all processes Toggle process selection

eck all activities Clear all activities Toggle activity selection

xecutable activities

ocesses Collapse all processes

Action Buttons

OK | Report | Delete | Recall | Edit | View | Filter | Search | New Sub Process

Click on “Create Process” in the users menu to start a new handover process

After logon, the ProcMan menu and the "work list“ appears. Here, already started handover processes are shown.

ProcMan IWSz Example

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open all | close all

Information

System Info

IWSz New Handover

General process data

Client	HORIZONT
Global Definition	GLOBALDEF
Process type	IWS_NEW
Description	Demo
Memo	Show how IWSz handover works

First, enter general information such as description text, approval date etc.

Additional process data

Change ID	12345
Subject field	PHI
Date for approve in Test	28.02.2019 ?
Date for approve in Production	29.03.2019 ?
Requestor Name	Helmut Ziegler

This form (and all following forms) were designed by the administrator: You decide which fields are shown and which data is required.

Attached files

Add

Action Buttons

OK Reset Cancel

Create New Application

Copy and re-name an existing application, or use the “Create AD” function to generate a draft version. Some fields, such as Application id, are required. Others can be read only or hidden.

Create New Application

ProcMan

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ProcMan 4.0.2 - HORIZONT

HORIZONT

Information

System Info

Process id: 520 - IWSz New Handover - Insert application into AD

Target IWS System	PTDC	Specify one IWS system.
DB State		
Application id	PHI#1000A0	Specify the name of the application, 1-16 alphanumeric characters, the first alphabetic or national.
Text	Demo Application 1	Specify a description of the application, up to 24 characters.
Type	A	Specify an application type. A = application, G = group definition.
Owner id	HOPC110	Specify the name of the owner, 1-16 characters.
Valid from	28.03.2019	Specify the date when the application is available for scheduling and can be run.
Authority group id	HORIZONT	Specify the name of the authority group for the application, 1-8 alphanumeric characters, the first alphabetic or national.
Calendar Id	DEFAULT	Specify the name of a calendar, 1-16 alphanumeric characters, the first alphabetic or national. If no name is specified, the name DEFAULT is used. Calendar id cannot be specified for an application in an application group.
Group Definition		Specify the group definition that will be used for the calendar and generation of run cycles. The specification of group definition is only valid for applications, and is mutually exclusive with the specification of calendar and run cycle information.

Modify Operations or Run Cycles

Action Buttons

OK | Operations | Run Cycles | Dependencies | Add Predefined Run Cycle | Show Run Days | Netplan | Reset | Cancel | Additional Data

Create New Application

ProcMan

https://pc110.horizont-it.de:10443/index.php

ProcMan 4.0.2 - HORIZONT

HORIZONT

Information

System Info

Process id: 520 - IWSz New Handover - Modify Operations

Hide Info

DB State	INSERTED
IWS System	PTDC
Application id	**PHI#1000A0**
Valid from - to	28.03.2019 - 31.12.2071
Description	Demo Application 1
Owner	HOPC110
Type	A
Status	A
Authority group id	HORIZONT

	Ws id	Op no	Duration	Text	Job name	Int Predecessors					Time Dep.	Operation IAD	Operation
(1)	DUMY	001	00:00:01	Start	START						N		
(2)	CPUP	005	00:02:00		PHI10005	001					N		
(3)	CPUP	010	00:02:00		PHI1000A	001					N		
(4)	DUMY	255	00:00:01	End	END	005	010				N		

+

In addition to IWS fields, you can optionally enter “special control info” which is used later by the rules

Action Buttons

OK | Operation Detail | Dependencies | Special Resources | Operator Instructions | Repeat | Netplan | Delete | Cancel | Additional Data

Create New Application

Here for example, this operation should Not run in test

Create New Application

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open all | close all

Information

System Info

my work list (Switch off filter)

3 Process row(s)

Client	Process type Description	Process Id	Role	User	Activity Status	Process Status	Description	Object Count	Change ID	Action Description	Creator
HORIZONT	IWSz New Handover	520	PLANNER	p390k	Ready	Ready	Demo	1	12345	IWSz New Dev Approve	p390k
HORIZONT	IWSz New Handover	520	DEVELOPER	p390k	Complete	Ready	Demo	1	12345	IWSz New Request	p390k
HORIZONT	IWSz New Handover	520	PLANNER	p390k	Ready	Ready	Demo	1	12345	IWSz New Dev Approve	p390k
HORIZONT	IWSz New Handover	520	TESTER	p390k	Waiting	Read	Demo	1	12345	IWSz New Test Approv...	p390k
HORIZONT	IWSz New Handover	520	PLANNER	p390k	Waiting	Read	Demo	1	12345	IWSz New Prod Approv...	p390k
HORIZONT	JCL New Handover	518	DEVELOPER	p390k	Interrupted	Interr	lmut	1	123	JCL New Request	p390k
HORIZONT	IWSz Change	513	DEVELOPER	p390k	Interrupted	Interru			3456	IWSz Change Request	p390k

Check all processes Clear all processes Toggle process selection

Check all activities Clear all activities Toggle activity selection

Check executable activities

Expand all processes Collapse all processes

Action Buttons

OK | Report | Delete | Recall | Edit | View | Filter | Search | New Sub Process

After all data is entered, the first activity is complete. The next task in the sequence is automatically ready

Update Development IWS

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HORIZONT

Information

System Info

Process id: 520 - IWSz New Handover - AD - List of Applications

Show general process information
Show additional process information

Notice

2nd activity TWS new

Approver modify the applications and write it to Dev-TWS

Source IWS System - ProcMan Dev IWS

	IWS System	Application id	Description	Valid from	Valid to	Type	Status	Owner	State	Last change date	User	Version	Process id	
✔	PTDC	PHI#1000A0	Demo Application 1	28.03.2019	31.12.2071	A	A	HOPC110	INSERTED	28.03.2019 16:32	P390K	1	520	PTI

[1 row(s) have been found.]

Check all | Clear all | Toggle selection

Target IWS System - ProcMan Dev IWS

Valid from	Valid to	Type	Status	Owner	State	Last change date	User	Version	Process
No record.									

"TWS Update" writes the application to the target system

Action Buttons

Modify | IWS Update | Netplan | Report | Compare | Interrupt | Reject | Discard | Done

ProcMan IWSz Example

ProcMan

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ProcMan 4.0.2 - HORIZONT

HORIZONT

Menu

Home
General
- Logout
- Switch to client
- Change Password
- Options

Edit
- Create Process
- Work list
- Public filters
- Private filters
  - Done last Month
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  - JCL Archive
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- Tools
- IWS z/OS module

open all | close all

Information

System Info

my work list (Switch off filter)

3 Process row(s)

Client	Process type Description	Process Id	Role	User	Activity Status	Process Status	Description	Object Count	Change ID	Action Description	Creator
HORIZONT	IWSz New Handover	520	TESTER	p390k	Ready	Ready	Demo	1	12345	IWSz New Test Approv...	p390k
HORIZONT	IWSz New Handover	520	DEVELOPER	p390k	Complete	Ready	Demo	1	12345	IWSz New Request	p390k
HORIZONT	IWSz New Handover	520	PLANNER	p390k	Complete	Ready	Demo	1	12345	IWSz New Dev Approve	p390k
HORIZONT	IWSz New Handover	520	TESTER	p390k	Ready	Ready	Demo	1	12345	IWSz New Test Approv...	p390k
HORIZONT	IWSz New Handover	520	PLANNER	p390k	Waiting	Ready	Demo	1	12345	IWSz New Prod Approv...	p390k
HORIZONT	JCL New Handover	518	DEVELOPER	p390k	Interrupted	ted	Test Helmut	1	123	JCL New Request	p390k
HORIZONT	IWSz Change	513	DEVELOPER	p390k	Interrupted	In			3456	IWSz Change Request	p390k

Check all processes Clear all processes Toggle process selection

Check all activities Clear all activities Toggle activity selection

Check executable activities

Expand all processes Collapse all processes

Action Buttons

OK | Report | Delete | Recall | Edit | View | Filter | Search | New Sub Process

Now there are two remaining activities:
1. Copy and write to Test-IWS (ready)
2. Copy and write to Prod-IWS (waiting)

They will be performed sequentially

Copy Application into Test System

Next, the application(s) must be copied to a new target system. Change rules run automatically.

Before you update the Test-IWS, you may want to compare the application

Compare Development and Test Version

ProcMan

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ProcMan 4.0.2 - HORIZONT

HORIZONT

Information

System Info

Process id: 520 - IWSz New Handover - Compare AD

Comparison results

Show Results

Dev Version

Test Version

Application

	PHI#1000A0 (version 1)	PHI#1000A0 (version 1)
IWS System	PTDC	PTTC
Record Status	ACTUAL	

Operations

Operation 005

005	PHI#1000A0 (version 1)	
Job name	PHI10005	THI10005

Operation 010

010	PHI#1000A0 (version 1)	PHI#1000A0 (version 1)
Ws id	CPUP	DUMY
Job name	PHI1000A	THI1000A
	PHI#1000A0 (version 1)	PHI#1000A0 (version 1)

In addition to the job names, the WS for OP 010 has automatically been changed, based on the option “run in test = no”

Action Buttons

Show Identical | Cancel | Save to File

Graphical Netplan

Update Test System

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HORIZONT

Information

System Info

Process id: 520 - IWSz New Handover - AD - List of Applications

Show general process information
Show additional process information

Notice

3rd activity TWS New

Copy from Dev-TWS and write it to Test-TWS.

Source IWS System - ProcMan Dev IWS

IWS System	Application id	Description	Valid from	Valid to	Type	Status	Owner	State	Last change date	User	Version	Process id	
PTDC	PHI#1000A0	Demo Application 1	28.03.2019	31.12.2071	A	A	HOPC110	ACTUAL	28.03.2019 16:42	P390K	1	520	PT

[1 row(s) have been found.]

Check all | Clear all | Toggle selection

Target IWS System - ProcMan Test IWS

IWS System	Application id	Description	Valid from	Valid to	Type	Status	Owner	State	Last change date	User	Version	Proce
PTTC	PHI#1000A0	Demo Application 1	28.03.201						2019 16:46	P390K	1	520

[1 row(s) have been found.]

Check all | Clear all | Toggle selection

If everything looks good, update the Test System

Action Buttons

Copy Source->Target | Modify | IWS Update | Netplan | Report | Compare | Interrupt | Reject | Done

Copy to and Update Production System

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ProcMan 4.0.2 - HORIZONT

HORIZONT

Menu

Home
General
- Logout
- Switch to client
- Change Password
- Options

Edit
- Create Process
- Work list
- *Public filters*
- *Private filters*
  - Done last Month
  - my history
  - my work list
  - Package-Test

View
- Object Browser
  - IWSz Applications
  - JCL Archive
  - JobWorkflow

Administration
- Definitions
- Tools
- IWS

Infor

Syste

my work list (Switch off filter)

3 Process row(s)

Client	Process type Description	Process Id	Role	User	Activity Status	Process Status	Description	Object Count	Change ID	Action Description	Creator
HORIZONT	IWSz New Handover	520	PLANNER	p390k	Ready	Ready	Demo	2	12345	IWSz New Prod Approv...	p390k
HORIZONT	IWSz New Handover	520	DEVELOPER	p390k	Complete	Ready	Demo	2	12345	IWSz New Request	p390k
HORIZONT	IWSz New Handover	520	PLANNER	p390k	Complete	Ready	Demo	2	12345	IWSz New Dev Approve	p390k
HORIZONT	IWSz New Handover	520	TESTER	p390k	Complete	Ready	Demo	2	12345	IWSz New Test Approv...	p390k
HORIZONT	IWSz New Handover	520	PLANNER	p390k	Ready	Ready	Demo	2	12345	IWSz New Prod Approv...	p390k
HORIZONT	JCL New Handover	518	DEVELOPER	p390k	Interrupted	Interrupted	Test Helmut	1	123	JCL New Request	p390k
HORIZONT	IWSz Change	513	DEVELOPER	p390k	Interrupted	Interrupted	test		3456	IWSz Change Request	p390k

ll processes Toggle process selection

The last remaining activity (updating production) will be automatically completed on the entered date. Here, the time is 6:00 a.m. or later

Action Buttons

OK | Report | Delete | Recall | Edit | View | Filter | Search | New Sub Process

Review Completed Processes

ProcMan

https://pc110.horizont-it.de:10443/index.php

ProcMan 4.0.2 - HORIZONT

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General
- Logout
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- Change Password
- Options

Edit
- Create Process
- Work list
- Public filters
- Private filters
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  - my history
  - my work list
  - Package-Test

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  - JCL Archive
  - JobWorkflow

Information

System Info

my history (Switch off filter)

Page 1 > >>

100 Process row(s)

Client	Process type Description	Process Id	Role	User	Activity Status	Process Status	Description	Object Count	Change ID	Action Description
HORIZONT	IWSz New Handover	520		t391d		Complete	Demo	3	12345	
HORIZONT	IWSz New Handover	520	DEVELOPER	p390k	Complete	Complete	Demo	3	12345	IWSz New Request
HORIZONT	IWSz New Handover	520	PLANNER	p390k	Complete	Complete	Demo	3	12345	IWSz New Dev Approve
HORIZONT	IWSz New Handover	520	TESTER	p390k	Complete	Complete	Demo	3	12345	IWSz New Test Approv...
HORIZONT	IWSz New Handover	520	PLANNER	t391d	Complete	Complete	Demo	3	12345	IWSz New Prod Approv..
HORIZONT	Universal zOS Order	519		p390k			test		12345	
HORIZONT	Universal zOS Order	515		p39						
HORIZONT	JobWorkflow New hand...	514		p39						
HORIZONT	IWSz New Handover	512		t39						
HORIZONT	IWSz Change	509		t39						
HORIZONT	IWSz New Handover	508		t39						
HORIZONT	IWSz New Handover	507		t391d		Complete	test auto	3	123	
HORIZONT	IWSz New Handover	505		p390k		Complete	test addata	3	123	

Action Buttons

OK | Report | Delete | Recall | Edit | View | Filter | Search | New Sub Process

Report shows all details

After all activities have been completed, the handover process can be found in “History”

Report

ProcMan

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General
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  - JCL Archive
  - JobWorkflow

Administration
- Definitions
- Tools
- IWS z/OS module

open all | close all

Information

System Info

Process id: 520 - IWSz New Handover - Report

- Information
- History
- Applications
  - all
  - IWSz New Request
  - IWSz New Dev Approve
  - IWSz New Test Approve
  - IWSz New Prod Approve

Status	Role	User	Date	Description
Complete	PLANNER	t391d	29.03.2019 06:00:20	Status changed
Complete	PLANNER	t391d	29.03.2019 06:00:18	Status changed
Active	PLANNER		29.03.2019 06:00:05	Status changed (autoexec)
Ready	PLANNER		28.03.2019 17:05:16	Status changed automatically
Complete	TESTER	p390k	28.03.2019 17:05:16	Status changed
Active	TESTER	p390k	28.03.2019 16:46:08	Status changed
Ready	TESTER		28.03.2019 16:42:38	Status changed
Complete	PLANNER	p390k	28.03.2019 16:42:38	Status changed
Active	PLANNER	p390k	28.03.2019 16:39:48	Status changed
Ready	PLANNER		28.03.2019 16:32:40	Status changed
Complete	DEVELOPER	p390k	28.03.2019 16:32:40	Status changed
Active	DEVELOPER	p390k	28.03.2019 16:06:40	Status changed
Waiting	PLANNER	p390k	28.03.2019 16:06:39	Created
Waiting	TESTER	p390k	28.03.2019 16:06:39	Created
Waiting	PLANNER	p390k	28.03.2019 16:06:39	Created
Ready	DEVELOPER	p390k	28.03.2019 16:06:39	Created

The last update was automatically executed

The report shows, e.g. who worked when on the handover

Action Buttons

OK Save

Report, IWS Application Details

Process id: 520 - IWSz New Handover - AD Report

PHI#1000A0

Application id	PHI#1000A0
IWS System	PTPC
Record Status	ACTUAL
Description	Demo Application 1
Owner	HOPC110
Valid from - to	28.03.2019 – 31.12.2071
Priority	5
Auth. group	HORIZONT
Status	A
Type	A
Calendar Name	DEFAULT
Group Definition	
Deadline Smoothing Factor	
Deadline Feedback Limit	

Review all details of all versions of the applications, run cycles, operations, etc.

Run Cycles

	Name of Period/Rule	Input	Deadline Day	Deadline time	Type	Free Day Rule	In Effect	Out of Effect	Variable Table	Description	Shift	Shift day type
(1)	DAY	06:00	01	05:59	N - Offset-based normal run cycle	4 - Do not run	11.01.2011	31.12.2071	GLOBAL			
	Show Detail											

Operation Text

Operation	Ws id	Opno	Operation Text
START	DUMY	001	Start
PHI10005	CPUP	005	
PHI1000A	CPUP	010	
END	DUMY	255	End

ProcMan Summary

ProcMan major features are:

- Easy to use web dialog
- Client and user role security concept, 4 eyes principle
- Flexible configurable and exactly customizable to your needs
- Powerful verification and generator rules
- Transfer with automatic adaption to several target systems
- New in V4: Automatic deployment by embedded scheduler
- Keep all versions in the archive for review/comparison and re-use
- Controlled, on-time and audit-proof handovers
  from development through test into production

ProcMan

Many thanks for your attention