



The Handover Process Manager

ProcMan Overview





"...not only for mainframe specialists ..."

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ProcMan Overview



→ Workload-Objects

ProcManthe Change-Management-Tool

- ProcMan controls and automates the change requests as bridge for Dev&Ops
- ProcMan is designed for the editing of workload objects such as:
 - JCL-Jobs, Procedures, etc.
 - IWS z/OS Applications, Operations
 - Control-M Folders / Jobs
 - Customer specific dialogues for any objects
 - Interface to ticket or change request tools possible (via web services)

Staging-Concepts



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Why do I need ProcMan?

- Changes to Production are often made following "informal" requests via phone calls, emails, or even in person.
- Developers may provide sample JCL, scripts and/or other documents which are easily misplaced or are quickly outdated by further changes.
- Some change ticket systems, to log these requests, only offer freeform text fields.
- Operations planners may perform quick manual changes, with little or no verification.
- Without enforced common rules in place, planners may implement changes using their own methods.
- Teams are not all on the same page and resolving issues takes much longer especially if someone is absent or working at another location.
- When whole "packages" have to be introduced to Production, it is easy to forget some pieces.
- It's very easy to forget who really requested changes, or when they were performe or even why.



What is ProcMan doing for me?

- The embedded workflow manager moves your objects through your stages (e.g. Development, Test, Production, as many stages as you need).
- Stage depending changes are made automatically, "on the fly" based on customized "rules".
- ProcMan transports and manages information for any system. There are universal interfaces that helps to automate it (z/OS and distributed).
- ProcMan is customizable: You define the workflow of your handover stages, the forms, the change rules for all objects you want to manage, exactly to your needs.
- You don't need to change your current systems, ProcMan integrates into what you currently have.
- After ProcMan is activated auditors will be happy. Now they can easily find all changes well documented, and secure.

The Solution: ProcMan

A quick overview of the ProcMan components:

- ProcMan has a hierarchical client along with a user/roles based security concept
- ProcMan is a modular system, you can license only what you need
 - Workflow Manager (is the required base component)
 - JCL module: Works with all JCL parameters and a rules based JCL generator
 - IWSz module: For changes on IWSz applications and ad-hoc CP plan requests
 - Control-M module: For changes on folders and its jobs
 - Individual Forms and "Documentation Objects" for "any" change request
 - to be documented and reviewed
 - Universal module for distributed
 - Universal module for z/OS

The Solution: ProcMan

- Basic technical overview:
 - Web user Interface
 - (Apache, PHP and ProcMan Server on Windows or Linux)
 - Database: DB2z or PostgreSQL
 - Optional for JCL: ISPF Admin Dialog and SmartJCL on z/OS
 - Optional for IWSz: WebAdmin z/OS
- The next slides show you examples how ProcMan works.

How does it work?



Working in ProcMan with handover processes



- Roles are assigned with specific rights
- Ensured 4-eyes principle configurable, for each handover process
- Powerful set of rules for checking and generating/adapting the objects

How does it work?

Working in ProcMan with interfaces:



ProcMan Modules

 ProcMan consists of different modules, which are managing particular objects for several dedicated systems:

JCL, Procedures etc.
IWS for z/OS
Control-M
other
Summary

How does it work for JCL?



ProcMan JCL Features

- Customizable dialog to get information about the Jobs, (e.g. Account-Nr, special needs (DB2), new GDG etc.)
- JCL Generator for each stage
 - Some parts are taken from input JCL
 - Some parts from entered user data (e.g. Account)
 - Some parts are set fix from generator rules (e.g. CLASS)
- Generate complete Jobs or Procs and also just partial JCL
 - e.g. include member
 - and even "Non JCL", e.g. control statements for other systems like Beta EJM
- Additional functions like
 - Define GDG base
 - Create Beta 93 update commands
 - Create any other data for any other interface
- JCL Check included
 - Can also verify site spec. standards (QA Tests)
 - You can create your own checks and messages
 - Different check levels on each stage
 - Substitute TWS variable



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<i>⊡Public filters</i>	Description	Demo		date etc. have to be entered
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ProcMan JCL Example, History

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ProcMan JCL Example, Report

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How does it work for IWSz?

Appl: APPL01 Owner: ME Run: DAILY DMY 001 CPUD 005 DEVJ01 Test Approver reviews and generates "Test-Application" (or maybe reject the request)

Appl: APPL01 Owner: ME Run: DAILY DMY 001 CPUT 005 TSTJ01

Developer enters in simplified dialog basic data like e.g. owner, jobname, run days etc. to create a "Dev-Appl"

Appl: APPL01 Owner: ME Run: DAILY DMY 001 CPUP 005 PRDJ01 Production Approver generates "Prod-Application" (or maybe reject)

ProcMan IWSz Features

- Customizable dialog to get information about the applications, Jobs, RunCycles etc.
- Rules to automatically
 - "Generate" application descriptions (e.g. create the application name, set owner etc.)
 - Create the operation list and internal dependencies
 - Verify IWS "syntax"
 - Verify site specific rules (e.g. description must be filled etc.)
- Additional User Data (e.g. to control the Generator)
- Useful functions e.g. to
 - provide simple RunCycle selection list
 - preview calendar of planned run days
 - show dependencies in a graphical flowchart
 - compare applications and versions of applications in detail
- Applications are prepared inside ProcMan, the target IWS system will be updated in time by the approver
- There can be one extra IWS for each stage (or everything in one IWS)
- Extra module for ad-hoc current plan requests (including temporary JCL modifications)

ProcMan IWSz Example



ProcMan IWSz Example

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ProcMan 3.0.13 - H0	ORIZONT		
Menu Home General 	IWSz New H	landover ss data	
	Client Global Definition Process type	HORIZONT GLOBALDEF IWS_NEW	First, the general information like description text, approval
	Description Memo	Demo Show how IWSz handover works	date etc. have to be entered
We construct the second s	Additional pro Change ID Subject field	12345 PHI V	
Search areas Search areas Object Browser Tools TWS Systems	Date for approve in T Date for approve in Production Requestor Name	Test 16.05.2016 ? 31.05.2016 ? Ziegler Helmut	This form (and all following forms) were designed by the administrator.
open all close all Information System Info	Attached files		You decide which fields are there and which data must be entered
	Action Buttons	Cancel	

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ProcMan 3.0.13 - H Menu Home General Logout Switch to client Change Password Options Edit Create Process Work list Edit Public filters HISTORY Administration E Definitions Clients Roles Accounts Counts	ORIZONT Process id: 37 - IWSz No Source TWS System DB State Application id Text Type Owner id Valid from Authority group id Calendar Id Group Definition	ew Handover - Insert application PTDC PTDC PHI00011A Demo Application A HOPC110 O 5.04.2016	You can copy and rename an existing application or use the "Create AD" function, which generates a useful draft version. You have to complete some
Timezone assignment Role assignment Calendars Calendar assignment Search areas Processes Object Browser Tools TWS Systems open all close all Information System Info	Note Hide Note In cas the ap	se of IWS Change, the soplication is made from	fields like Application id. Others can be read only or hidden. selection of the archive

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ProcMan 3.0.13 - 1	HORIZONT		📓 🗉 🎲 🖨 🛠 🌑 🖇	HORIZONT
Menu Home General 	Process id: 37 - IW Source TWS System	Sz New Handover - Insert applicatio	on into AD	^
Change Password Options Edit Create Process Work list ⊡-Public filters HISTORY Administration ⊡-Definitions	DB State Application id Text Type Owner id Valid from Authority group id Calendar Id Group Definition	NACENTED PHI00011A Demo Application A HOPC110 05.04.2016 HORIZONT DEFAULT		
	Note Modify Operations or Run Cycles	"Predefined Run Cyc Cycle definition ar	cles" simplifies the Run nd "Show Run Days"	
System Info	Action Buttons OK Operations Run C	shows a preview	Netplan Reset Cancel Additional Data	

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ProcMan 3.0.13 - HO	RIZONT										© <u>∆</u> ≈ <u>∆</u> 0	HOR	ZONT
Menu Home General Logout Switch to client Change Password Options Edit Create Process Work list EPublic filters HISTORY Administration E Definitions	Process id: 3 Hide Info DB State TWS System Application id Valid from - to Description Owner Type Status Authority group id	7 - IWSz N PTDC PHI00011A 05.04.2016 - 3 Demo Applicati HOPC110 A A HORIZONT	lew Hando	over - Ir	nsert Ope	ations	5						
Clients Roles Accounts Timezone assignment Calendars Calendar assignment Search areas Processes Object Browser	Ws id (1) DUMY (2) CPUP (3) CPUP (4) OFF#	Op no ? 001 ? ? 005 ? ? 010 ? ? 255 ?	Duration \$ 00:00:01 \$ \$ 00:02:00 \$ \$ 00:02:00 \$ \$ 00:02:00 \$ \$ 00:00:01 \$ \$	Text tart nd	Job name START PHI00011 PHI00012 END	001		edecesso	rs	Time Dep. N ♥ N ♥ N ♥ N ♥ N ♥	Operation IA	D Operation	IAT IPree ◆ 0 ◆ 1 ◆ 1 ◆ 1
Tws Systems open all close all Information System Info			The You	oper only	ation li have to optio	st ca o ent onall	n be er/ch y, otł	ger nang ner a	nerat ge the attrib	ed aut e job n utes.	omatio ames	ally. and,	
	Action Buttons OK Operation D	etail Depende	encies Specia	al Resources	Repeat	Netplan	Delete	Cano	el Ado	litional Data			>

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ProcMan 3.0.13 - H	ORIZONT					0 🍪 🖨 🏷 🏡 🥹 🗐	HORIZONT		
Menu Home General	Process id:	37 - IWSz New Har	ndover - Predefined R	un Cycle					
Switch to client	Add predefine	ed Run Cycle to Applicat	ion						
		······································							
Options	Hide Info								
Edit	DB State	INSERTED							
···· Create Process	TWS System	PTDC	T	ha "nra-dafina	d run av				
····· Work list	Application id	PHI00011A		ne pre-denned	a run cy	000			
<i>⊡</i> -Public filters	Valid from - to	05.04.2016 - 31.12.2071		an aread by the		tratar)			
HISTORY	Description	Demo Application		epared by the a	aaminis	strator)			
Administration	Owner	HOPC110							
	Туре	А		simplifies the s	schedul	ind			
Clients	Status	А							
Roles	Authority group id	HORIZONT							
Accounts									
Timezone assignment	Show Filter								
Role assignment									
Calendars	TWS Sys	stem 🗢 Name	Description	Public to	User	Last Change	e Date 🗦		
Calendar assignment	PTDC	DAILY	Every day	HORIZONT, GLOBAL	p390k	24.03.2016 12:26			
Search areas	PTDC	LASTWORKDAY	Last Workday (Ultimo)	HORIZONT, GLOBAL	p390k	24.03.2016 12:32			
Processes	PTDC	WORKDAY	Every workday	HORIZONT, GLOBAL	p390k	24.03.2016 12:28			
Object Browser	Check all Clear all Tog	ggle selection							
TWC Custome			[3 row(s) ha	ve been found.]					
I WS Systems									
open all close all									
- C				lsers don't nee	od nece	<u>ssarily kn</u>	OW		
Information	·								
				anything abo	nut innu	it arrivale			
System Info 💦 🎍	·				σαι πρυ	n annvais,			
				norio do fro					
				perioas, tre	<u>e day ri</u>	JIES, EI <u>C.</u>			
	Action Buttons								
	Add to Application	Modify Delete Inse	ert Copy Cancel						



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ProcMan 3.0.13 - HO	DRIZONT	cpnp			~		Procivian			_	4		<u>ሰ ወ គា</u>	HORIZ	ONT
Menu	Work lis	t													
Home General	3 Process row(s)													
Switch to client Change Password Options Edit		Client _	Process type Description □+ ੵ	Process Id _	Role	User 🗍	Activity Status	Process Status Ç	Description 🗆	<pre>Group Id ↓</pre>	Predecessor Id	Object Count	Change ID	Creator 🖕	Creati Date
Create Process Work list		HORIZONT	IWSz New Handover	37	PLANNER	p390k	Ready	Ready	Demo			1	12345	p390k	05.04.2
		HORIZONT	IWSz New Handover	37	DEVELOPER	2 p390k	Complete	Ready	Demo			1	12345	p390k	05.04.2
Administration		HORIZONT	IWSz New Handover	37	PLANNER	p390k	Ready	Ready	Demo			1	12345	p390k	05.04.2
Clients		HORIZONT	IWSz New Handover	37	TESTER	p390k	Waiting	Ready	Demo			1	12345	p390k	05.04.2
Roles		HORIZONT	IWSz New Handover	37	PLANNER	p390k	Waiting	Ready	Du			1	12345	p390k	05.04.2
Timezone assignment	+	HORIZONT	JCL Change	34	DEVELOPER	t p390k	Interrupted	d Interrupted	d test				123	p390k	05.04.2
Role assignment Calendars	+	HORIZONT	IWSz Change	33	DEVELOPER	R p390k	Interrupted	d Interrupted	d test				123	p390k	24.03.2
Calendar assignment	Check all proce	esses Clear a	ll processes Toggle pr	ocess sel	ection										
Search areas The Processes	Check all activi	ities Clear all	activities Toggle acti	vity select	tion				Λ f + /			rad		loto y	
Object Browser	Check executal	ble activities							Alle	er yo	iu ente	ereu		ala,	you
Tools TWS Systems	Expand all proc	cesses Collap	se all processes						car	n cor	nplete	the	first	activ	itv.
open all close all									ТЬ						
Information •										ie ne		SK II	1 Se	quen	ce
	automatically becomes ready.														
System Info										laarit	a tha	onnli	ooti	<u></u>	-)
	Action Buttons									(wiii	einea	appii	Call	SII(S)	
	OK Rep	port Del	ete Recall	Edit	View	Filter	Search	New Sub	Proc	to	the "L	DEV-	<u>IWS</u>	5").	
	<														

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ProcMan 3.0.13 - H	ORIZONT	ZONT
Menu Home General	Process id: 37 - IWSz New Handover - AD - List of Applications	
Switch to client Change Password Options Edit Create Process	 Notice 2nd activity TWS new AV modify the applications and write it to Dev-TWS 	
Work list Work list HISTORY Administration Definitions	Source TWS System - ProcMan Dev TWS	
Clients Roles Accounts Timezone assignment Role assignment	IWS System Application id Description Valid from Valid to Type State Last change date User Version Process id PTDC PHI00011A Demo Application 05.04.2016 31.12.2071 A A HOPC110 INSERTED 05.04.2016 1 37 Check all Clear all Toggle selection Check all Clear all Toggle selection Figure 1 Figure 2 Figure 2	PTDC
Calendars Calendar assignment Search areas ⊕Processes Object Browser	Target TWS System - ProcMan Dev TWS TWS System + Application id + Description + Valid from + It is up to the admin, which functions	Process i
Press "TV application System Info	WS Update" to write the n into the target system (e.g. Browse/Modify/Delete etc.) you enable/disable during the approval activities	
	Action Buttons Modify TWS Update Netplan Report Compare Interrupt Reject Discard Done	>

ProcMan IWSz Example

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ProcMan 3.0.13 - HO	RIZONI										4	\$ \$	<u> 9 9</u>	HORIZ	
Menu	Work list	t													
General Logout	3 Process row(s	5)													
Switch to client Change Password Options Edit		Client	Process type Description □+ ੵ	Process Id	Role	User 🌲	Activity Status	Process Status	Description □→ 🖕	Group Id	Predecessor Id	Object Count	Change ID	Creator	Creat Date
Work list	-	HORIZONT	IWSz New Handover	37	TESTER	p390k	Ready	Ready	Demo			1	12345	p390k	05.04.2
Public filters		HORIZONT	IWSz New Handover	37	DEVELOPE	R p390k	Complete	Ready	Demo			1	12345	p390k	05.04.2
Administration		HORIZONT	IWSz New Handover	37	PLANNER	p390k	Complete	Ready	Demo			1	12345	p390k	05.04.2
Definitions Clients		HORIZONT	IWSz New Handover	37	TESTER	p390k	Ready	Ready	Demo			1	12345	p390k	05.04.2
Roles		HORIZONT	IWSz New Handover	37	PLANNER	p390k	Waiting	Peady	Demo			1	12345	p390k	05.04.2
Accounts Timezone assignment	+	HORIZONT	JCL Change	34	DEVELOPE	R p390k	Interrupted	11.	test				123	p390k	05.04.2
Role assignment	+	HORIZONT	IWSz Change	33	DEVELOPE	R p390k	Interrupted	I Inte.					123	p390k	24.03.2
Calendars Calendar assignment Search areas	Check all proce	sses Clear a	II processes Toggle pi	ocess sel	ection										
	Check all activit	ties Clear all	l activities Toggle acti	vity selec	tion						4				
Object Browser Tools	Check executat	le activities					Ai	iter tr	hat, there	e ar	e two	rem	ainir	ng ac	tiviti
TWS Systems open all close all	Expand all proc	esses Collar	ose all processes					Co	opy and	writ	e to T	est-l	WS	(read	dy)
Information								Co	py and w	vrite	e to Pr	od-l'	WS	(wait	ing)
System Info	They will be done sequentially														
	Action Buttons OK Rep	ort De	lete Recall	Edit	View	Filter	Search	New Sub I	Process						
	<														>

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ProcMan 3.0.13 - HC	DRIZONT									🛛 🗐 🔣 HOR	IZONT
Menu Home General	Process id	: 37 - IWSz	z New Han	dover - A	D - List of A	pplicati	ions				
Cogour Switch to client Change Password Coptions Edit	Notice3rd activity TV	VS New									
Create Process	Copy from Dev-	TWS and write it to	Test-TWS.								
The	Source TWS	System - Pro	cMan Dev TV	VS							
pplication(s)	TWS System	Application id	Description	Valid from [‡]	Valid to 🗘 Type	Status 🗘 0	wner 🗘 State 🗘	Last change date	User 🗘 Version	Process id	c
int he conied	PTDC	PHI00011A	Demo Applicatio	on 05.04.2016	31.12.2071 A	A H	OPC110 ACTUAL	05.04.2016 15:46	PM30 1	37	PTDC.A
ist be copied	Check all Clear al T	oggle selection						[I	row(s) nave been round.	1	
a new target											
stem. Note:	Target TWiS	System - Proe	cMan Test TV	NS							
hande rules	TWS Syster	n 🚖 Application i	id 🚖 Descriptio	on 🚖 Valid fro	m 🚖 Valid to 🚖	[vne ≜ Stat	us 🚖 Owner 🚖	State 🚖 Last cha	nge date 🚖 liser	≜ Version ≜	Drocoss
nange ruies		PHI00011A	Demo Applic	ation 05.04.201	.6 31.12.2071 /	A	HOPC110	INSERTED 05.04.201	16 16:02 P390	(1	37
ire running	Check all I Clear all I T	onale selection						[1	row(s) have been found.]	
itomatically.						E	Before [•]	you upda	ate the T	est-IV	VS,
System Info						r	nay wa	ant to cor	npare th	ne app	lica
	Copy Source->T	arget Modify	TWS Update	Netplan	Report Com	are Inte	rrupt Reject	Done			

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ProcMan 3.0.13 - HC	DRIZONT		🗎 🖪 🎲 🖨 🎓 🏠 🛛 🗐 🕇 HORIZONT
Menu	Comparison results		~
Home General Logout Switch to client Change Password Options Edit 	Hide Results Number of differences in Application: 5 Number of differences in Run Cycles: 0 Number of differences in Operations: 2 PHI0011A (version 1) Number of Run Cycles: 1 Number of Operations: 4 PHI0011A (version 1) Number of Run Cycles: 1 Number of Operations: 4		
Definitions Clients	Application	DHIMMAILA (version 1)	DHI00011A (version 1)
Roles	TWS System		
Accounts	Record Status	ACTUAL	INSERTED
Timezone assignment	adidate	05.04.2016	
Role assignment	adltime	15:46	
Calendars	Userid of Last Updater	PM30	
Calendar assignment Search areas Object Browser Object Browser	Operations		e.g. Jobnames have been changed automatically
TWS Systems	Operation 005		
open all close all	005	PHI00011A (version 1)	PHI00011A (version 1)
Information	Job name	PHI00011	THI00011
System Info	Operation 010		
	010	PHI00011A (version 1)	PHI00011A (version 1)
	Job name	PHI00012	THI00012
	Show Identical Cancel Save to File		~



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ProcMan 3.0.13 - H		ORIZONT
Menu Home General	Process id: 37 - IWSz New Handover - AD - List of Applications	
Switch to client Shange Password Options	Notice 5th activity TWS New, Copy from Dev-TWS and write it to Prod-TWS.	
···· Create Process ···· Work list ⊡ <i>···Public filters</i>	Source TWS System - ProcMan Dev TWS	
Administration	TWS System 🗘 Application id 🗘 Description 🗘 Valid from 🗘 Valid to 🗘 Type 🗘 Status 🗘 Owner 🗘 State 🗘 Last change date 🗘 User 🗘 Version 🌣 Process	; id 🗘 🛛 Co
⊡ • Definitions	Demo Application 05.04.2016 31.12.2071 A A HOPC110 ACTUAL 05.04.2016 15:46 PM30 1 37	PTDC.AC
Roles Accounts Timezone assignment Role assignment Calendars Calendar assignment	Check all Cher all Toggle selection Target TWS System - ProcMan Prod TWS	
Search areas	TWS System 🗘 Application id 🗘 Description 🗘 Valid from 🌣 Valid to 🌣 Type 🌣 Status 🗘 Owner 🗘 State 🗢 Last change date 🗘 User 🗘 Version	n 🗘 Process ic
Object Browser Tools	PTPC PHI00011A Demo Application 05.04.2016 31.12.2071 A A HOPC110 INSERTED 05.04.2016 16:23 P390K 1 Check all L Grazelly L Tack Demo Application 05.04.2016 31.12.2071 A A HOPC110 INSERTED 05.04.2016 16:23 P390K 1	37
Information System Info	Finally you do the same for the production IWS (Copy and Update)	
	Action Buttons Copy Source->Target TWS Update Netplan Report Compare Interrupt Reject Done	
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ProcMan IWSz Example, History

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ProcMan 3.0.13 - HO	RIZON	Τ										3	□��⊖≎	☆ 🎯 🗐	HORI	ZONT
Menu	HIST	OR	(Switch of	f filter)												
Home General Logout	13 Proces	ss row	(s)													
Switch to client Change Password Options Edit			Client 🗍	Process type Description □→ ੵ	Process Id	Role	User Ĵ	Activity Status	Process Status	Description □• –	Group Id	Predecessor Id	Object Count	Change ID	Creator	Crea Date
Work list	-		HORIZONT	IWSz New Handover	37				Complete	Demo			3	12345	p390k	05.04
-Public filters			HORIZONT	IWSz New Handover	37	DEVELOPER	p390k	Complete	Complete	Demo			3	12345	p390k	05.04
Administration			HORIZONT	IWSz New Handover	37	PLANNER	p390k	Complete	Complete	Demo			3	12345	p390k	05.04
- Clients			HORIZONT	IWSz New Handover	37	TESTER	p390k	Complete	Complete	Demo			3	12345	p390k	05.04
Roles		<	HORIZONT	IWSz New Handover	37	PLANNER	p390k	Complete	Complete	Demo			3	12345	p390k	05.04
	+		HORIZONT	JCL New Handover	36				Complete	Demo			2	12345	p390k	05.04
Role assignment	+		HORIZONT	IWSz New Handover	32								3	123	p390k	23.03
- Calendar assignment	+		HORIZONT	JCL New Handover	31			M/h	on al	l activitie	20 S	aro		123	p390k	23.03
Search areas	+		HORIZONT	IWSz Change	29			•••••						123	p390k	22.03
nort will show	, 🗆		HORIZONT	JCL Change	27		CC	omple	eted,	you can	i tin	id the		123	p390k	22.03
			HORIZONT	JCL New Handover	26			hanc	lover	nrocass	: in	tha		123	p390k	22.03
ou all details			HORIZONT	IWSz New Handover	25						, ,			123	p390k	21.03
Information	+		HORIZONT	JCL Change	24			Histo	ry" (t	here are	a	lot of		345	p390k	21.03
	+ 🗆		HORIZONT	JCL Change	23			saard	nh an	d filter o	ntic	nne)		234	p390k	20.03
System Info 🕒	+		HORIZONT	JCL New Handover	16			scar	n an		put	5113)		234	p390k	15.03
	Action But	tons	HORIZONT	JCL New Handover	15				Complete	test			1	123	p390k	15.03
	OK	Rep	oort UZODele	etel New Recallover I	Edit	View	ilter	Search	New Sub	Process						
	<															>

ProcMan IWSz Example, Report

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ProcMan 3.0.13 - H	IORIZONT							\$ 632095	HORIZONT
Мепи	Process id: 37 - IWSz	New Hand	lover - Repo	ort					\sim
General	Information	Status 🗘	Role	🗘 User	Date	\$		Description	\$
Switch to client Change Password Options Edit Work list D-Public filters HISTORY Administration Definitions	-History -Applications	Complete Active Ready Complete Active Ready Complete Active Interrupted	PLANNER PLANNER PLANNER TESTER TESTER PLANNER PLANNER PLANNER PLANNER	p390k p390k p390k p390k p390k p390k p390k p390k	05.04.2016 16:27:40 05.04.2016 16:23:03 05.04.2016 16:22:56 05.04.2016 16:22:56 05.04.2016 15:48:31 05.04.2016 15:47:23 05.04.2016 15:47:23 05.04.2016 15:40:39 05.04.2016 15:40:12 05.04.2016 15:34:05	Stat Stat Stat Stat Stat Stat Stat Stat	us changed us changed us changed auto us changed us changed us changed us changed us changed us changed us changed	omatically	
AD - Application Detail Run Cycles • Operations	S	Ready Complete Active Waiting Waiting	PLANNER DEVELOPER DEVELOPER PLANNER TESTER	<u>p390k</u> p390k p390k p390k	05.04.2016 15:30:01 05.04.2016 15:30:01 05.04.2016 14:58:20 05.04.2016 14:58:19 05.04.2016 14:58:19	Stat Stat Stat Stat Crea	us changed auto tus changed tus changed ated ated	omatically	
Application id	PHI00011A	Waiting	PLANNER	p390k	05.04.2016 14:58:19	Crea	ated		
TWS System	PTPC	Ready	DEVELOPER	p390k	05.04.2016 14:58:19	Crea	ated		
Record Status	ACTUAL								
Description Owner Valid from - to	Demo Application HOPC110 05.04.2016 - 31.12.2071			In the r	eport you	can see	e.g.		
Priority	5			who wo	rkad an th	o hondo	VOR		
Auth. group	HORIZONT					ie nanuo	vei,		
Status	A								
lype	A			all entei	red user v	alues and	d all		
Calendar Name	DEFAULT								
Group Definition				version	s of all an	nlication	s of _		
Deadline Smoothing Factor				VC131011	o or an ap	phoadon			
Deadline Feedback Limit	B2001/			all ato	and ato a	ro chow	2		
Last change date	05.04.2016 16:26	Action Button	s Save	all Sic					

How does it work for Control-M?



ProcMan for Control-M features

- Check rules to automatically check naming conventions and standards
 - Distinction between 'warning' and 'erros'
 - Verify Control-M "syntax"
 - Verify site specific rules (e.g. description must be filled etc.)
- Change rules to automatically convert definitions based on rule set
 - Change Folder/Jobname/Member, Application/SubApplication
 - Out and In conditions
 - Folder DSN (library)
 - Memlib for MVS
 - Individual change rules
- Useful functions e.g. to
 - view folder/jobs in XML overview
 - compare versions of folder/jobs in detail
 - import/export job definitions in ProcMan

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◇ ProcMan 5.0.3		HORIZONT					
Home General	Action Buttons OK Report Delete Recall Edit View I Filter Search New Sub Process						
Switch to client Change Password Options	2 Process row(s)						
Edit ← Create Process ← Work list ⊕ <i>Public filters</i> iew	Client Process type Description \Rightarrow Process Id Role User Activity Tatus Description \Rightarrow Description \Rightarrow Group Predecessor Id	Object Change Count D					
Administration	HORIZONT Control-M Delete def 65 DEVELOPER nico-admin Interrupted Interrupted Test PMN 5.0.3 Relea	5.0.3 nico					
Clients Roles Accounts	PIZONT Control-M Dev-Test-P 8 DEVELOPER nico-admin Interrupted Interrupted Test Helmut Check all processes Toggle process selection	123 hein					
 Timezone assignment Role assignment Calendars Calendar assignment Search areas Processes Actions Global Definitions Process Definitions Process Definitions 							
© Object Browser ⊕ Tools Information ►	Administrators are allowed to define clients, roles, process flows, etc.	FI PIOCESSE	50.				
System Info 🕒 🗸		>					

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◆ ProcMan 5.0.3				₭₯₿₯₡₢₽	HORIZO	DNT
Menu 7	Action Buttons					
General						
Switch to client Change Password Options	Process type					
Edit Create Process	Client HORIZONT					
·····Work list ⊡Public filters	Process selection					
View ⊡-Object Browser Administration ⊟Definitions	¢ Name	× v	Description Control-m*			÷
Clients Roles	O CTM_COPY	Control-M Copy from Source to Target				
Accounts	O CTM_DELETE	Control-M Delete definitions				
Role assignment	O CTM_DEV_PROD	Control-M Emergency Dev-Prod				
Calendars	O CTM_DEV_TEST_PROD	Control-M Dev-Test-Prod				
Calendar assignment	O CTM_INIT_PROD	Control-M Init-Prod				
Processes Actions Global Definitions Object Browser	First, selec you v	t the process type want to start				

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ProcMan 5.0.3			
Menu 7 ^	Action Buttons		^
Home	OK Reset Cance		
General			Next, the general information
Switch to client			
Change Password	Control-M De	v-Test-Prod	like description text, approval
Options			
Edit Create Process	General proces	s data	date etc. have to be entered
Work list			
	Client	HORIZONT	
View	Global Definition	GLOBALDEF	
±Object Browser	Process type	CTM_DEV_TEST_PROD	
Definitions	Description	Dama	
Clients	Momo	Demo	
Roles	Memo	Show how Control-M handover works	
Accounts			
Pole assignment			
Calendars			
Calendar assignment			
Search areas			
- Processes	Additional proc	ess data	This form (and all following forms) ware
Actions			This form (and all following forms) were
Process Definitions	Change ID	12345	decigned by the administrator Vou
Object Browser	Subject field	NI V	designed by the authinistrator. Tou
±Tools	Date for approve in	2022/02/18 ?	decide which fields are necessary and
open all close all	Test		decide which helds are necessary and
	Production	2022/02/25 ?	which data must be entered
Information			
System Info 🕒 🗸	Attached files		



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OrecMan 5.0.3 Information ▲	Action Buttons OK CTM Import Copy Restore	Interrupt Discard		Ē	HORIZONT
System Info	Process Id: 71 - Control· ⊞General process data	Action Buttons OK Cancel		×	
	Additional process data Information Hide text	Import from Control-M	Folder	\$	
	There are no documentation object	✓ CTM_DU1 CTM_DU1	DNIPGS2000 DNIPGSFTP1		
Select you fold	ers	 CTM_DU1 CTM_DU1 CTM_DZ1 	DNIPGSSAP1 ZNIPGS2000 DNIPGS20		
:		 CTM_DZ1 CTM_TU1 CTM_TU1 	ZNIPGS20 TNIPGS2000 TNIPGSFTP1		
~			TNIPGSSAP1	v	

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Information	Action Buttons OK View Edit Clone Remove CTM Import Copy Restore] Interrupt Discard		
	Process Id: 71 - Control-M Dev-Test-Prod - Role General process data Additional process data	e: DEVELOPER E fold	o verify if sts in other nts	
	□Check if Folders already exist in ProcMan			
	System ÷	ID *	÷	Existing \Diamond
	TEST CTM_TU1/TNIP PROD CTM_PW1/PNI	'GS2000 PGS2000	Yes Yes	
			Type ÷	Check ÷
	Check all Clear all Toggle selection	New	Missing	
~	Memo History	Edit/Review an are a m (see ty	nd running cheo nust in this case wo slides later)	ck rules

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Information L	Action Buttons		You can reimport,
System Info	Process Id: 71 - Contro	-M Dev-Test-Prod - Role: DEVELOPER - New Object	import from or export to
	System	DEV	
	Folder Name	DNIPGS2000	
	Definition (XML)	Import from Control-M Import from a file Export to a file	
	Index SMART_FOLDER DNIPGS2000 [4] JOB DNIPGS2001 [82] JOB DNIPGSJ2002 [143] JOB DNIPGSJ2003 [206] JOB DNIPGSR3_200 [270]	<pre>2 <deftable folder.xsd"="" xmlns:xsi="http://www.w3.org/2001/XMLSchema-inst.
xsi:noNamespaceSchemaLocation="> 4 <smart_folder <br="" adjust_cond="N">5 APPLICATION="DNIPGS" 6 APPL_TYPE="OS" 7 APR="1" 8 AUG="1" 9 AUTOARCH="1"</smart_folder></deftable></pre>	ance"
By clicking	on the	10 CHANGE_DATE="20220203" 11 CHANGE_TIME="080003" 12 CHANGE_USERID="emuser" 13 CONFIRM="0" 14 CREATED_BY="jens"	Folder and jobs are shown in XML data
index, you ca	an jump	15 CREATION_DATE="20210818" 16 CREATION_TIME="094314" 17 CREATION_USER="emuser"	structure
directly to the	element	18 CRITICAL="0" 19 CYCLIC="0" 20 CYCLIC_TOLERANCE="0"	
		21 CYCLIC_TYPE="C" 22 DATACENTER="CTM_DU1" 23 DAYS="ALL" 24 DAYSKEPINNOTOK="0" 25 DAYS_AND_OR="0" 26 DEC="1" 27 DESCRIPTION="Smart Jobs!" 28 ENFORCE_VALIDATION="N" 29 EFE="1"	

\sim ProcMan ← → C ŵ \sim ProcMan 5.0.3 Information ▲ ^	 + A https://pc110.horizont-it.de:12443/ind Action Buttons OK Save without check Cancel 	By clicking on 'OK' ProcMan executes check rules based on your naming conventions and standards. Check is separated into 'Warning' and 'Error'.	× = NT
System Into	Warning Hide text Rule-008: Out Condition should start with Folder	r/Jobname/Memname, in the attribute "NAME" of the element "OUTCOND" on the line 260!	
	Error Hide text Rule-001: The Folder Name must start with the Rule-0043: The Job Subject (digit 2-3) must be in Rule-006: Missing the mandatory attribute "DES Process Id: 8 - Control-M Dev-Test	first character of the current stage , in the attribute "FOLDER_NAME" of the element "SMART_FOLDER" on the line 4! dentical to the Folder Subject, in the attribute "JOBNAME" of the element "JOB" on the line 140! SCRIPTION" in the element "JOB" on the line 267!	
	System DEV VV Control-M Server CTM Folder Name ZNII Definition (XML) Imp	ith warnings user can continue the activity but th an error user must edit the wrong definitions to continue.	1
•	SMART_FOLDER ZNIPGS2000 [4] JOB DNIPGS2001 [82] JOB DXYPGSJ2003 [140] JOB TNIPGSJ2002 [204] JOB DNIPGS [267]	<pre>xsi:noNamespaceSchemaLocation="Folder.xsd"> MART_FOLDER ADJUST_COND="N" APPLICATION="ZNIPGS" APPL_TYPE="OS" APR="1" AUG="1" AUG="1" AUTOARCH="1" CHANGE_DATE="20211214" CHANGE_TIME="114832" CHANGE_TUFFETD="nico"</pre>	
~	13	CONFIRM="0" CREATED BY="nico"	~

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ProcMan 5.0.3		
Information	Action Buttons	^
	OK Save without check Cancel	
System Info 🕒		
	Process Id: 8 - Control-M Dev-Test-Prod - Role: DEVELOPER - New Object	
	System DEV	
	Eolder Name DNIPGS2000	
	Definition (XML) Import from Control-M Import from a file Export to a file	
	Index1 xml version='1.0' encoding='UTF-8' ? <deftable <br="" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"></deftable> xsi:noNamespaceSchemaLocation="Folder.xsd"> <th>^</th>	^
	AUG="1" AUG="1" AUTOARCH="1" O CHANGE_DATE="20220203" Now you CHANGE_TIME="080003" CHANGE_USERID="emuser" because the confirme="0"	i can continue ne folder and the
	14 CREATED_BY="jens" jobs fulfi	Il the rule set.
	16 CREATION_TIME="094314"	_
	18 CRITICAL="0"	
	19 CYCLIC="0"	
	20 CYCLIC_IOLERANCE="0" 21 CYCLIC_TYPE="C"	
	22 DATACENTER="CTM_DU1"	
	23 DAYS="ALL"	
	25 DAYS AND OR="O"	
	26 DEC="1"	
	DESCRIPTION=#Smart_Tobal#	×

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ProcMan 5.0.3	Action Buttons OK View Edit Clone Remove CTM Import Copy Restore Interrupt Discard	
System Into	Process Id: 71 - Control-M Dev-Test-Prod - Role: DEVELOPER ⊞General process data	
	 ■ Additional process data □ Check if Folders already exist in ProcMan 	
	System ID * * TEST CTM_TU1/TNIPGS2000 PROD CTM_PW1/PNIPGS2000	Existing *
	System ID * * DEV CTM_DU1/DNIPGS2000	Type Check * * New Done
	Check all Clear all Toggle selection	
~	Hemo History Alignment Alig	Check is done and first activity can be completed

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◆ ProcMan 5.0.3 Information [▶] System Info [▶]	Process Id: 71 - Control-M Dev-Te Update of folder definitions in Control-M	st-Prod - Role: DEVELOPER	Ē	HORIZONT
	System Server	Folder	Туре	Status
pc110.horizont-it.de	Automati	Progress: 0/1 Close!		

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• ProcMan 5.0.3		8	K 🖶 🛛	HORIZ	ONT
Information	Action Buttons				
System Info					
	Control-M Update Log [2022-02-08 11:19:55 Europe/Paris] Deploying folders on system DEV [2022-02-08 11:20:00 Europe/Paris] An Invalid job was detected JobName: 'DNIPGS2001' MemName: 'mytest1.sh' Field: Host Group Warning: Agent 'Inx-agnt-01' is not defined under Control-M/Server 'CTM_DU1' An Invalid job was detected JobName: 'DNIPGSR3_200' MemName: '' Field: Host Group Warning: Agent 'sap-01' is not defined under Control-M/Server 'CTM_DU1' [2022-02-08 11:20:00 Europe/Paris] Deployed 1 folders: DNIPGS2000				
	Warning message from the Automation API log: There are two not yet defined agents, but folder and jobs have been deployed				

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ProcMan 5.0.3 Menu Home General Change Password Options	OK Repor Work lis	Action Buttons OK Report Delete Recall Edit View Filter Work list 3 Process row(s) This demo uses three different roles in the process. Activity two must be started by a user with role 'Tester'											ZONT
Edit Create Process Work list <i>Dublic filters</i> View		Client Ĵ	Process type Description □→ ੵ	Process Id	Role	User	Activity Status	Process Status	Description □• _	Group Id ੵ	Predecessor Id _	Object Count	Change ID
Object Browser Administration	=	HORIZONT	Control-M Dev-Test-P	71	TESTER	nico-admin	Ready	Ready	Demo			1	12345
Clients		HORIZONT	Control-M Dev-Test-P	71	DEVELOPER	nico-admin	Complete	Ready	Demo			1	12345
Roles		HORIZONT	Control-M Dev-Test-P	71	TESTER	nico-admin	Ready	Ready	Demo			1	12345
Timezone assignment		HORIZONT	Control-M Dev-Test-P	71	PLANNER	nico-admin	Waiting	Ready	Demo			1	12345
Role assignment	+	HORIZONI	Control-M Delete def		VELOPER	nico-admin	Interrupted	Interrupted	I Test PMN 5.0.3 Relea				5.0.3
Calendar assignment	+	HORIZONT	Control-M Dev-Test-P		PER	nico-admin	Interrupted	Interrupted	l Test Helmut				123
System Information	Check all activities Check executable Expand all process After deploy is done, you can complete the first activity. The next "task" in sequence automatically becomes ready. (write the folder(s) to the "TEST" environment).											>	

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ProcMan 5.0.3	Artiss Ruthers										
Information	OK View Edit Restore Reject Interrupt Discard	Continue with activity two to									
System Info	Process Id: 71 - Control-M Dev-Test-Prod - Role: TESTER	deploy Control-M objects into TEST environment									
	General process data Additional process data										
	Memo Deploy into TEST environment is aproved • Check if Folders already exist in ProcMan	11.									
	System ID * * TEST CTM_TU1/TNIPGS2000	Type Check * * New Done									
	Check all Clear all Toggle selection	re running ally									

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Options		3 PTOC	essito	w(s)												
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⊡ Public filters					~	Description □+ 🗍	Id [—]			Status	Status		Iđ	Id	Count	ID _
view ⊕Object Browser																
Administration]	но	ORIZONT	Control-M Dev-Test-P	71	PLANNER	nico-admin	Ready	Ready	Demo			1	12345
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Accounts			-	HC		Control-M Dev-Test-P	71		nico-admin	Ready	Ready	Demo			1	12345
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Home Genera	u	OK Repor	Action Buttons OK Report Delete Recall Edit View I Filter Search New Sub Process											
Swi	tch to cli	CTM His	tory (Swit	tch off filter)										
Report	will show	34 Process ro	w(s)											
you all	details		Client	Process type Description □+ ੵ	Process Id	Role 💭	User	Activity Status	Process Status	Description □→ 🗘	Object Count	Change ID	Creator	Creati Date
View	JCL History		HORIZONT	Control-M Dev-Test-P	71		nico-admin		Complete	Demo	1	12345	nico-admin	2022/02
Obje Adminis	ect Browser stration		HORIZONT	Control-M Dev-Test-P	71	DEVELOPER	nico-admin	Complete	Complete	Demo	1	12345	nico-admin	2022/02
⊡Def	initions		HORIZONT	Control-M Dev-Test-P	71	TESTER	nico-admin	Complete	Complete	Demo	1	12345	nico-admin	2022/02
	Roles	2	HORIZONT	Control-M Dev-Test-P	71	PLANNER	nico-admin	Complete	Complete	Demo	1	12345	nico-admin	2022/02
	Accounts	+	PORIZONT	Control-M Dev-Test-P	70		t391d		Complete	Test PMN 5.0.3	1	00001	nico-admin	2022/01
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	open all close all	+	HORIZONT	Control-M Copy from	59		nico-admin		Complete	Test 5.0.3	1		nico-admin	2022/01
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ProcMan 5.0.3 Menu	Action Buttons Save Show Cancel	le selection	and se	ee all changes	A O HORIZONT			
General Logout	System: PROD, ID:	CTM PW1/PNIPGS2000						
Switch to client	2022/02/08 12:33:33	3 - PROD × Compare with: Interim object	versions used in the process	× 2022/02/08 12:14:38 - TEST ×				
Change Password	Type	New	· · · · · · · · · · · · · · · · · · ·	New				
Edit	Version saved by	nico-admin		nico-admin				
Create Process	System	PROD		TEST				
···· Work list	Control-M Server	CTM_PW1		CTM_TU1				
-Public filters	Folder Name	PNIPGS2000		TNIPGS2000				
JCL History View D-Object Browser Administration D-Definitions 		<pre><?xml version='1.0' encoding='01-8' ?; <deftable n"<br="" xmlns:xsi="http://www.w3.org/
xsi:noNamespaceSchemaLocation
<SMART_FOLDER ADJUST_COND=">APPLICATION="PNIPGS" APPL_TYPE="OS" APR="1" AUG="1" AUG="1" AUG="1"</deftable></pre>	, 2001/XMLSchema-instance" ="Folder.xsd">	<pre></pre> <pre> <pre></pre> <pre></pre></pre>				
In the report you who worked on all entered user versions of all stages etc. a	u can see e. the handov values and folders of a are shown.	.g. er, change_date="20220203" change_tme="080003" change_tme="080003" change_userid="emuser confirm="0" creation_date="202108 creation_tme="094314 creation_tme="094314 creation_tme="094314 creation_tser="emuser critical="0" cyclic="0" cyclic="0" cyclic_tolerance="0" cyclic_type="c" Datacentee="ctm_ent" Days="all" Days="all" Days_and_or="0" page 3.00	;" " !18" "	AUTOARCH="1" CHANGE_DATE="2022020 CHANGE_TIME="080003" CHANGE_USERID="emuse CONFIRM="0" CREATED_BY="jens" CREATION_DATE="20210 CREATION_TIME="09431 CREATION_USER="emuse CRITICAL="0" CYCLIC="0" CYCLIC="0" CYCLIC_TOLERANCE="0" CYCLIC_TYPE="CTM_U" DAYS="ALL" DAYSEEPINNOTOK="0" DAYS_AND_OR="0"	3" r" 818" 4" r"			
Information L		DEC="1" DESCRIPTION="Smart Jo ENFORCE_VALIDATION="N FEB="1"	bs!" "	DEC="1" DESCRIPTION="Smart J ENFORCE_VALIDATION=" FEB="1"	obs!" N"			

How does it work for "Universal Objects"?

Developer (Requestor) starts a handover (order) process, gets a form and enters the required values

YOUR OWN FORM: PM Field1: Value1 PM Field2: PM Field3: Test Approver reviews it, may enter other data, and accept, or reject.

YOUR OWN FORM: PM Field1: Value1 PM Field2: Value2 PM Field3:

The form and it's values can be stored and versions kept and used as input for change requests

YOUR OWN FORM: PM Field1: Value1 PM Field2: Value2 PM Field3: Value3 Prod Approver reviews it, may enter other data, and accept, or reject.

ProcMan "other" Features (Universal-Module)

There is a so called "Universal Object Module":

- The workflow can span one or more activities ("stages")
- You design the forms with required and optional fields, users, based on roles, may have to fill different fields
- It can be a one way only (so called "simple ticket process"), which is stored in the archive for review only
- It can be defined as an "Object" (e.g. special kind of Job or Job-Documentation), which is stored in versions and can be re-used for later requests
- There is an extra "Object Browser" just to browse the current content
- Every activity can call a script (on any "connectable") system and pass all available field values as parameter to the script

ProcMan Benefits



Benefits with ProcMan

- Segregation of duties for Dev + Ops through activities and roles
- Automated object changes
- Automated environment updates possible
- Compliance for all rules and standards
- Browser application, adaptable for different user groups
- Interfaces to other workflow or request systems
- Versioning of all objects
- Seamless audit-trail for all changes by ProcMan
- Replacement of in-house developed software solutions
- Updates in production only by ProcMan, "hands-off-production"
- Establish 4-eyes-principles

Thanks for your attention! Do you have any questions?



Please feel free to visit us in Munich or send an email to info@horizont-it.com