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TIM Smartform Suite - DRAFT

1. Introduction and differentiation of the TIM Smartform Suite from HTML smartforms

- Configuration instead of programming
- Quick smartform design. Validation, layout and structure
 - Access to the Tim smartform suite
- Ausbaustufen:
 - TIM Smartform Designer
 - TIM Smartform Architect
 - TIM Smartform Expert
 - Every created configuration can be opened in every version but can only be altered if the used version includes the functionalities.

2. Access to the Tim smartform suite

2.1 Systemroles required to access the TSS

A user has to have the following roles roles to use the corresponding version of the TIM smartform suite:

- "smartform-designer" to gain excess to TIM Smartform Designer
- "smartform-architect" to gain excess to TIM Smartform Architect
- "smartform-expert" to gain excess to TIM Smartform Expert

2.2 Access via repository

The access to the configurator of the TSS happens via TIM Repository. In the Tab "Smartform" you can find an "EDIT"-Button. The configurator will be opened in a seperate tab upon clicking it.

TIM			tsstest		3 Oliver Schirach 😢 🏪 Deutsch 🕑
Process Repository Client					
Fachlicher Prozess TSS Testprozess Giversion 2 Oversion 1	Veröffentlicht 06.09.2016	Version 2 (Schreibgeschutzt) 9:11 Uhr EDERHERSTELLEN	Model Beschreibung Small		BEARBEITEN
	Allgemeine Prozess Attribute		Basisinformationen	[neu]	
	Name	Wert	Basisinformationen	Prozessinformationen	Zusatzinformationen
	Name	TSS Testprozess			
	Version	2			
	archiviert				
	Ersteller	Oliver Schirach(49999)			
	CPM Berechnung				
	Puffer beibehalten				

2.3 Systemroles for the maintenance of TSS resources

Every data-artifact wich is used for the creation of a smartform is saved in a central database. An UI is integrated for the management of the artifacts was integrated in the admin client. A user needs the following role to manage the tss-recources (z.B- confiuratins, CSV-documents, CSS-documents etc. Maintenance of TSS-Resourcen in his client or super- client:

 "resource-manager" (If a user is a "resource-manager he doesn't necessarily need the role "admin")

2.3.1 Global ressources in the super- client

After the installation/update of the TSS the basic configurations (documenttype CONFIG-document) for the applications CMD and CFG have to be uploaded in the super- client.

- The configurations dor ACM, TIM-portal and TIM-smartform are included in the product, but can be individualized.
- With the document-type CSS you can provide a CSS-document in order to implement your corporate identity (Colors, accent etc.) globally for the configurator(CFG) and the representation of the smartform (TIM Smartform)
 - The document will be automatically renamed into css.css upon uploading.

TIM		super-Ma	ndant	🚨 Oli Super 🕲 🏓 Deutsch	v 🕛 🔝
Administration					
Anwendung CFG ~	Dokumenter Erweiterung	typ Konfigura	tionsdateien 🗸	Erst. Nutzer	^
CFG. CFG.	config	1089438	12.08.2016 16:37:16	superoli@tim-solutions.de	
TIM-Portal TIM-Smartform					~

• With the document-type TODO?Logo-Dateien? you can upload a PNG-Document with your corporate logo, wich will be automatically renamed into logo.png upon uploading and will be displayed in the top-left corner of the configurator.

2.3.2 Client-specific resources

It is possible to have artifacts in your client, wich are only available and effective in your client.

- For example a CSS-document wich implements your corporate CI
- Documents with the types .csv, .txt, .xls, .png etc for integration in smartforms

TIM				tsstest	🤱 Oliver Schirach 🔘 🍱 Deutsch	~ ()	
Administration							
Verwaltung Context-Rollen Prozessraum tsstest	Timer Email Qu	ueue Regel Matrix Dokumen		CSS-Dateien v	urces 💰		^
Dokument	Dateiname	Erweiterung	_	Konfigurationsdateien Beschreibungen	Erst. Nutzer		
CSS.CSS CS	S	CSS	1210	CSS-Dateien	oliver.schirach@tim-solutions.de		
				Daten-Dateien Tabellendefinitionen Dokumentationen Hilfe-Dateien Bild-Dateien Logo-Dateien			~

3. TIM Smartform Designer

3.1 Target group & project-scope

- Proffesional users who want to creaete a simple smartform
- Predefined templates
- Intentionally limited choice of possible data-types.
- Creation and arrangement of attributes
- Only simple Smartform, which means without tab-pages, tables or accordions etc. Nur einfache Smartforms, d.h. ohne Tabpages, Tabellen, Accordions, etc.
 - For more complex smartforms you have to use the other versions: TIM Smartform Architect and TIM Smartform Expert.

3.2 Explanation of the UI and function - target group professional users!

3.2.1 UI and operationg philosophy

The smartform designer focuses on the smartform.

- It is based on a template and provides the opportunity to arrange atributes per drag and drop.
- With this function you can design you smartform compatible with your process.
- The TSS enables you to use a uniform operating philosophy in your smartforms.
 - Because of the uniform structures of the arrangements of attribute, validations, and mandatory fields and editability etc. your end-users will quickly understand all your processes.

ĭM√			TIM Smartfo	rm Desig
ponente TSS Testproz	2855		AKTIVITÄTEN EINLESEN LEERE VORLAGE IMPORT EXPORT VALIDIEREN TESTEN VER	RÖFFENTLIC
	Status -	~ Attribut ausblenden	ELEME	ENTE ANPASS
	Basisinformationen	Prozessinformationen	Zusatzinformationen	
agsteller (tss.starter) Def. (tss.filename)				
-Inst. (tss.pname)				
lus (tss.status)				
2				

- With the button Import activities you can import the activities of your modeled process
- With the *Import* and *Export* button you can import configurations or export them as a backup or for further usage in other processes.
- With the *Validate* button you can validate your configuration.
- With the *Test* button you can test your smartform from user-perspective:(For further details see 3.2.3 Testmode)
- With the button *Deploy* you can safe your configurations. Everything you change must be safed by pressing the *Deploy* button, afterwards it can be seen in the ToDo client.
- If you refresh your browser without pressing the *Deploy* button your changes will be lost.
 Before/after doing big changes it is strongly recommended to safe your changes by pressing *Deploy*
- The changes on your smartform will be effective for the value "—" in the status-dropdown. In symbolizes the basic configuartion.
- In the chapter 3.2.4 Statusspecified configuration Import activities it will be explained, how you can individualize your smartform for specific activities in the process.
- Attributes can be placed in any order, moved to another element or be hidden for a specific status via drag and drop
- For further details: 3.2.2 Attributes

3.2.2 Attributes

In the smartform Designer you can create attributes to gather and display process information.

- A new attribute can be created by drag&dropping the [new] () tag into the smartfom.
 - This is only possible if the status-dropdown is set to "—". (For further details to statusspecified configurations see also Statusspecified configuration - Import activities)
- A new attribute will be safed as a TIM-process-variable.
- For futher usage (e.g. in Word templates or Emails etc.) the attributes can be found in the process with \${name_of_the_attribute}
- Eine spätere Auswertbarkeit im Dashboard zur KVP ist gegeben
- If a new attribute is dragged into the smartform or if an existing attribute is clicked, a pop-up

will appear. There you can change the properties of the attribute:

TIM		TIM Smartform Designer					
Komponente TSS Testprozess		AKTWITATEN ERLESEN LEERE VORLAGE IMPORT EXPORT VILIDEREN TESTEN VERÖFFENTLICHEN					
Attribute Status [neu] () Antragsdatum (tss.creation_c Basisint	ormationen Proz	Menden ELEMENTE ANPASSEN ELEMENTE ANPASSEN essinformationen Zusstzinformationen					
Antragsteller (tss.starter) ProzDef. (tss.filename) ProzInst. (tss.pname)							
Status (tss.status) Vomarne (vomarne) < >	Eingabe-Formular	2					
	Attribut vomarne						
	Beschreibung Bitte geben Sie hier Ihren Vorman Datentyp string4000 Text (bis zu 40(~)						
	Default-Wert Beschriftung Vorname						
	UI-Flag D Layout 0						
	Breite Übers. 135 px						
	Breite Zw.raum 5 px Breite Wert 215 px						
	Hohe 24 px FÜR ALLE STATUS AUF STANDARD ZURÜCKS	ETZEN					
Field	Description						
Attribute	Identifier of the at	tribute. Can be referenced with \${} in emails. ("status" and "name" s attribute-identifier)					
Decription	Appears as a toolt	p as soon as the user places his mouse on the attribute					
Data-Type	You can select a data-type or create an individual validation (see also Data-Types)						
Caption	Will be displayed a	Will be displayed as text in the left side of the attribute					
UI-Flag	Definition of the editability of the attribute						
Layout	Selection of a layo	ut for the display of the attribute. (see also Data-Types)					
Width label	Width of the space	where the desctription will appear					
Width space	Distance between	description and attribute					
Width value	Width of the attrib	ute					
Height		oute. Every height that is bigger than 24px will be displayed with the ' (see also Data-Types)					
Button		Description					
Reset all sta	tus to default	This button will appear, if the status-dropdown is set to "—". It will reset every status-specified versions of the attribute.					
Reset actua	status to default	This button will appear if the status-dropdown is set to something different then "—". By pressing it you will reset the configurations of this attribute for the selected status.					
"Reset a sel property"-Ic	ected attribute- on	Every attribute-property that differs from the default-configuration will be desplayed in a bold text. Moreover a button will appear, that will reset the property upon pushing					
Copy-Icon		Uses the attribute for the creation of a new one. The properties <i>Attribute</i> and <i>Label</i> will be reseted.					
Delete-Icon		Deletes the attribute. This icon only appears while the status- dropdown is set to "—". If you want to hide an attribute, drag&drop it onto the <i>Hide attribute</i> area near the status-dropdown. The attribute will be hidden for the selected status but is still available in the attribute-list in the left side of the screen					
Save-Icon		Saves the changes/new attribute					
Reset-Icon		Sets all attributes to the last saved value					

Reference: For further details see also Statusspecified configuration - Import activities

- Every new or changed attribute must be safed by clicking on the save-icon.
 Afterwards the pop-up can be closed and the new/changed attribute will appear on the smartform.
- Every attribute can be moved inside one element or to another per drag&drop.
- If you want to hide an attribute, drag&drop it onto the *Hide attribute* area near the statusdropdown. The attribute will be hidden for the selected status. See also the screenshots in Statusspecified configuration - Import activities
 - \circ The attribute will be still saved in the coniguration, but invisible for the selected status.

The Ui-Flags define the editability and can be found in the attribute Pop-up. You can either select them fromm a list wich pops up after ckicking on the magnifying glass or write them in the text field:

Eingabe-Forn	lulai					
Attribut	vorname		UI-	Flag		
Beschreibung	Bitte geben Sie hier Ihren	Vornam		Wer	ldentifier	Beschreibung
Datentyp	string4000 Text (bis zu 4			М	Pflichtfeld	Pflichteingabefeld
Datentyp	stillig4000 Text (bis 20 4			E	editierbar	editierbares Attribut
Default-Wert				D	schreibgeschützt	schreibgeschütztes Attribut
Beschriftung	Vorname			R	Refresh	Nach Änderung des Wertes Daten selektieren und refreshe
Desennitung	vontanie			h	Hintergrundtext	Text zur Beschreibung als Hintergrundtext
UI-Flag	D			w	www	Link in das Internet
Layout	Layout 0	~		е	email-Link	Link zum E-Mail-System
				r	aktualisieren	nach Änderung des Wertes Bedienoberfläche refreshen
Breite Übers.	135	рх				
Breite Zw.raum	5	рх				
Breite Wert	215	рх				
Höhe	24	рх				
FÜR ALLE STA	ATUS AUF STANDARD ZU	RÜCKSETZEN				

3.2.3 Testmode

After clicking on the *Test*-button the smartform will appear like it would look in the current status. Now you can check if the attributes are editable and visible like they should be.

TIM								TIM Smartform Designer
Komponente TSS Testproz	Zess				AKTIVITÄTE	N EINLESI	EN LEERE VORLAGE MPORT EXPORT VALIDIEREN	TESTEN VERÖFFENTLICHEN
✓ Attribute	Status		~ 📑 Att	ribut ausble	nden			ELEMENTE ANPASSEN
[neu] () Anmerkungen des Sachbeart		ormationen		Prozess	informationen	Zusatzir	formationen	
Anmerkungen des Starters (a Antragsdatum (tss.creation c	Vomame			Name de	es Vorgangs test	Anmerk	ingen des Sachbearbeiters	
Antragsteller (tss.starter) Entscheidung für den Prozes	Nachnar	ne		Lieferdat	um			
Lieferdatum (lieferdatum)	Straße		Nr.			Anmerku	ungen des Starters	
Linie (linie) Nachname (nachname)	PLZ		Ort	Entsche	idung für den Prozessverlauf Onein ja		-	
Nr. (nr) Ort (ort)		SmartForm						×
PLZ (plz)		TSS Testprozess						SPEICHERN
ProzDef. (tss.filename) ProzInst. (tss.pname)		Basisinformationen			Prozessinformationen		Zusatzinformationen	
Status (tss.status) Straße (strasse)		Vomame			Name des Vorgangs		Anmerkungen des Sachbearbeiters	
Vorname (vorname)		Nachname			Wunschdatum			
< >		Straße		Nr.			Anmerkungen des Starters	
		PLZ	Ort		Entscheidung für den Prozessverlauf Onein	⊖ ja		

3.2.4 Statusspecified configuration - Import activities

After you have constructed a smartform for the "—"-status you can now define special process-cases. You need to click the *IMPORT ACTIVITIES* -button.The status-dropdown will be filled with your process activities.

- Now you can select an activity or a standart status [neu, Suche, in Arbeit, Prozess-Manager, beendet, Betrachter] and change your smartform as you wish:
 Insert attributes
- Relocate or hide attributes
- Modify attribute properties by clicking on an attribute. See also 3.2.2 Attribute

* You can for example make a certain field a mandatory field for an activity. **Attention**: If you want to create an attribute just for one status, you have to create it for the status "—" first, then drag it onto *Hide attribute*. Afterwards you have to select the status you want this specific attribute to be visible in and then drag&drop the attribute from the attribute list on the left side of the screen.

TIM				TIM Smartform Designer
Komponente TSS Testprozess				AKTIVITÄTEN ENLESEN LEERE VORLAGE IMPORT EXPORT VALIDEREN TESTEN VERÖFFENTUCHEN
		it ausblenden		ELEMENTE ANPASSEN
(neu) () Antragadaum (tss.creation, c Antragateler (tss.statere) Prozbrst. (tss.ficamme) Status (tss.status) ≤ 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	alsinformati Arigabe für den Stafter Paralisi Arigabe für den Sachbearbeiter (Soche) (fined) (fined) (fined) (Prozes-Manager] (bendet) (Betrachter)	Prozessinformationen	Zusatzinformationen	9
Komponente TSS Testpro	zess Status [neu] V	sa Attribut auflame des Vorgangs	AKTIVITÄT	TIM Smartform Designer En Enlesen Leere Vorlage import export Validieren testen veröffentlichen Elemente Andassen
Anmerkungen des Sachbeart		test	<u> </u>	
Anmerkungen des Starters (a Antragsdatum (tss.creation_c		Prozessinformationen		Zusatzinformationen
Antragsteller (tss.starter) Entscheidung für den Prozes Lieferdatum (lieferdatum)	Nachname	Lieferdatum		Anmerkungen des Sachbearbeiters
Linie (inie) Nachname (nachname) Nr. (nr) Pit2. (siz) ProzJoř. (ts. filename) ProzJoř. (ts. filename) Status (ts. status) Straße (strasse) Vomame (vomame) ∢ >	PL2 Ot	Entscheidung für den Prozessverlauf	⊖ nein ⊖ ja	Anmerkungen des Statters

• in the attribute pop-up the status-specified configurations will be displayed **bold**. Configurations

that are inherited from the "-"-status will be displayed cursive

omponente TSS Testpro			AKTIVITÄTEN EINLESEN LEERE VORLAGE IMPORT EXPORT VALIDIEREN TESTEN VERÖFFENTUC
Attribute	Status [neu] V	Attribut ausblenden	ARTIVITATEN EINESEN LEERE VORDAGE IMPORT EAPORT VALUEREN TESTEN VERUPPENTIGE ELEMENTE ANPAS
nmerkungen des Sachbeart nmerkungen des Starters (a	Basisinformationen	Prozessinformationen	Zusatzinformationen
ntragsdatum (tss.creation_c ntragsteller (tss.starter)	Vomame	Lieferdatum	Anmerkungen des Sachbearbeiters
tscheidung für den Prozes	Nachname	Eingabe-Formular	X
eferdatum (lieferdatum) nie (linie)	Straße 1	Ir. E	C82
chname (nachname) (nr)	PLZ Ort	Attribut lieferdatum	
t (ort)		Beschreibung Bitte geben Sie das gewür	nschte .
Z (plz) ozDef. (tss.filename)		Datentyp date Datums-Angabe	
ozInst. (tss.pname) atus (tss.status)		Beschriftung Lieferdatum	
raße (strasse)		Eigenschaften EM	3 4
mame (vomame)		Layout 1	statusabhängige Werte rücksetzen
		Breite Übers. 135	px
		Breite Zw.raum 5	px
		Breite Wert 215	рх
		Höhe 24	px

• Specification of the configurations of the smartform that was created above for the status [neu], which is active while the process is started.

TIM				TIM Smartform Designer
Komponente TSS Testproz	ess		AKTIVITÄTEN EINLESEN LEERE VORLAGE IMPORT EXPORT VALIDIE	EREN TESTEN VERÖFFENTLICHEN
	Status [neu] 🗸 🔂	ttribut ausblenden		ELEMENTE ANPASSEN
Annierkungen des Starters (a	Basisinformationen	Prozessinformationen	Zusatzinformationen	
Antragsteller (tss.starter) Entscheidung für den Prozes Lieferdatum (lieferdatum) Linie (linie)	Voname Straße Nr.	Lieferdatum	Anmerkungen des Stachbearbeiters	
Nachname (nachname) Nr. (nr) Ort (ort) PLZ (plz)	PLZ Ort			
ProzDef. (tss.filename) ProzInst. (tss.pname) Status (tss.status)				
Straße (strasse) Vorname (vorname) ∢ >				

3.2.5 Data-Types

TIM										TIM Sma	artform Designer
Komponente TSS Testpr	ozess				AKI	TVITÄTEN EINLESEN	LEERE VORLAGE	IMPORT EXPOR	T VALIDIEREN	TESTEN	VERÖFFENTLICHEN
- Attribute	Status		 Attr 	ribut ausblenden							ELEMENTE ANPASSEN
[neu] () Anmerkungen des Sachbear	Basisinformationen			Prozessinformati	onen	Zusatzinform	nationen				
Annerkungen des Statters (Antragstaltum (tiss creation_ Antragstaltum (tiss creation_ Entscheidung für den Prozet Leiferdatum (iderdatum) Linie (ürie) Nachname (nachname) Nt. (nr) ProzDef. (tiss.filename) ProzInst. (tiss.pname) Strafte (strasse) Vorname (vorname) Werteilste (autocompleteMit €	Vename Nachname Straße PLZ	Ort	he .	Name des Varean El Eingabe-Fort Attribut Beschreibung Datentyp Default-Wert Beschriftung Ul-Flag Layout Breite Obers. Breite Zwraum Breite Wert Höhe FOR ALLE ST] dierung von E-Mails Nachkommastellen ung kommastelle ertrenzeichen und Währ	rung EUR				

In the attributee pop-up yoiu can find a list of predefined data-types:

• While using the Smartform designer you will be limited to the following list of data-types.

Data-type	Description	Example for usage		
boolean	Booleschean Value	Can be used as a check box		
decision-no-yes	Boolscher Value Yes/No	As a radio box with the options Yes/No		
date	Date	Can be used as a textbox with a date-picker		
email	Text box that automatically validates Email-adresses	As a textbox		
float.2	A number that is rounded to two decimal places	A text-field, wich will try to parse any input t a number with two decimal places and won't accept any other input		
int	A whole number	A text-field that will try to parse any input to a whole number and won't accept any other input		
message	Displays a message	To display a legend		
percent.0	Percentage without decimal places	As a text field with the unit %		
price-€	Pricing with thousends seperator and EUR as currency	A textfield with the unit EUR and validation of numbers with up tp two decimal places		
string4000	A character string up to 4000 characters	As a textfield or box		

• If you click the symbol on the right side of the datatype-dropdown list in the attribute-popup you can look through different layouts

Datentypen												
Auswahl	autocomplete		< ► Q 🗂 Q 🔚 ⊅	•								
Basisinformationen		•	Werte Layout	Werte Layout								
Datentyp	autocomplete		Wert E1									
				Layout 1	Layout 1 Layout 2				Layout 3			
Basistyp	string Zeichenkette	~	Standard Eint	trag 1	Standard	Eintrag 1	Standard	Eintrag 1	Standard	Eintrag 1		
Länge		100	schreibgesch. Eint	ntrag 1	schreibgesch.	Eintrag 1	schreibgesch.	Eintrag 1	schreibgesch.	Eintrag 1		
Eigenschaften			editierbar Eint	ntrag 1	editierbar	Eintrag 1	v editierbar	Eintrag 1	editierbar	Eintrag 1	۹,	
 verw. Werte Referenzlist 			Standard (groß)		Standard (groß)		Standard (groß)		Standard (groß)			
autocomple			Eintrag 1		Eintrag 1	Eintrag 2	Identifier Eintrag 1	Beschreibung	Eintrag 1			
O autocomple							Linuag I					
O autocomple	te5											
Referenz							~					
Anzeige			schreibgeschützt (gro	oß)	schreibgeschütz	zt (groß)	schreibgeschüt		schreibgeschüt			
HTML-Snippet		۹,	Eintrag 1		Eintrag 1 Eintrag 2		 Iden Eintrag 1 	tifier Beschreibung	Eintrag 1	Eintrag 2		
							 Eintrag 2 		_			
							>					
			editierbar (groß)		editierbar (groß))	editierbar (groß		editierbar (groß			
			Eintrag 1		Eintrag 1 Eintrag 2		 Identif Eintrag 1 		Eintrag 1	O Eintrag 2		
							O Eintrag 2					

- You can also create an own data-type in the *Data-type*-popup by clicking the green PLUS-Icon

 This data-types are based on existing data-types
 - By creating length-limitations or input-masks you can create a validation. This can be used to create a field that validates input to fit a certain structure, for example an accounting area XX_098_XX.
- For further details to the creation of new data-types see 6.4 Module Datatypes
 - Coplex data-tyoes, like CSV-Lists for autocomletes or Dropdowns can be created in the TIM Smartform Architect
 - Created data-types will appear in the data-type dropdown-list in the attribute pop-up and can be also used in the designer.

Some comlex data-types can be created in the Designer:

• Radio-Buttons with more than two options:

You have to create a new data-type, like descriped above: You will have to select the basic-type "String" and "Value List" as Property. The "Length" defines the maximum numbver of characters that can be used in the Label of each button. After saving (click floppy disk) two tabs will appear: "Values" and "Layout". In the tab "Values" you can create the radio-buttons. The property "Value" will define the value which the radio button will return upon being selected. Now you have to save the attribute and close the pop-up. In the remaining pop-up you have to select "Layout 3" and set the "Height" to >= 25 pixel.

3.2.6 Templates

The basis of a smartform is the template. Upon creating a new smartform, the *3columns*-template will be selected. If you need a special template you have to create it by using the Smartform-Architect or - Expert. A user with the right *smartform-architect* or *smartform-expert* can create a unique template. **Attention**: The Smartform Architect is for professional users. Because of that it is impossible to create complex layouts with tabs or dummies for the display of tables with the designer.

• By clicking on TODO *ELEMENTE ANPASSEN* you can change the headline of the selected template element:

TIM	M V										
Komponente TSS Testproz	855				AKTIVITÄTE	ILEERE	VORLAGE IMPORT EXPORT VALIDIEREN TR	ESTEN VERÖFFENTLICHEN			
	Status V Attribut ausbienden										
[neu] () Anmerkungen des Sachbeart	Basisinformationen		Prozessinformationen			Bemerkungen der Prozessbeteiligten					
Anmerkungen des Starters (a Entscheidung für den Prozes	Vorname	Name des Vorgangs test			Anmerkungen des Sach	<u> </u>					
Lieferdatum (lieferdatum)	Nachname		Lieferdatum								
Nachhame (nachhame)	Straße	Nr.			O sala . O la	Anmerkungen des Starte	Irs				
Ort (ort)	PLZ Ort		Elemente	×							
PLZ (plz) ProzDef. (tss.filename)			Template 3colum	ns	~		•				
ProzInst. (tss.pname) Status (tss.status)			ElemTyp	Element	t Beschriftung	Beschreibung					
Straße (strasse)			🔯 🛦 🦁 🔺	_	Basisinformationen						
/orname (vorname) Verteliste (autocompleteMitV				column2 column3	Prozessinformationer Bemerkungen der	Tooltip für Spaltenüb					
< >					Beschriftung des						

3.2.7 Ergebnis im ToDo Client

The following screenshot shows a configured smartform at the beginning of the process and for the first task. You can see that some attributes are hidden and others are coloured red:

• Smartform at the beginning of a process "TSS Testprozess":

TIM	4		ts	and the stest stes	liver Schirach 🗹 🗮 Deutsch 🔽 🕐 🕅 🖗 🖽 🖶 🕥 Prozesse starten 📃 🔍
📲 Prozessinstanz	Start Parameter				
*Smartform 🖗					
TSS Testprozess			[neu]		STARTEN
Basisinformatione	n	Prozessinformation	en		Bemerkungen der Prozessbeteiligten
Vomame	Oliver	Lieferdatum	23.09.2016		Anmerkungen des Sachbearbeiters
Nachname	Schirach	Werteliste	E	۹,	
Straße	Parkring Nr. 29		Eintrag 1		
PLZ	85748 Ort Garching		Eintrag 2		Anmerkungen des Starters

• Smartform for the first task "Erste Aufgabe im Prozess" of the process "TSS Testprozess":

Aufgabe Image: State and the sta										
TSS Testprozess	- olsch - 20160001		Erste Aufgabe im Proze	ss SPEICHERN	WEITER					
Basisinformationen		Prozessinformatione	n	Bemerkungen der Prozessbeteiligten						
Vorname	Oliver	Name des Vorgangs	- olsch - 20160001	Anmerkungen des Sachbearbeiters						
Nachname	Schirach	Lieferdatum	23.09.2016							
Straße	Parkring Nr. 29			Anmerkungen des Starters						
PLZ	85748 Ort Garching	Entscheidung für den F	Prozessverlauf O nein O ja	Anmerkungen des Stanters						
		Werteliste	Eintrag 2 Das Pflie	ht-Attribut Entscheidung für den Prozessverlauf ist nicht belegt	.1					

3.2.8 Configurations for testing

The configurations used for the process above can be found here: Example configurations

4. TIM Smartform Architect

4.1 Targetgroup & projectscope

- IT consultants
- Creation of complex smartforms with data-structures, tabs etc.
- Integration of structured data from csv, txt xls oder database-tables
- Creation of translations for multi-language smartforms
- Creation of data-types, templates and messages for a process
- Easy excess to Groovy for showInterface in order to modify the user interface.
- ANYTHING that is defined for a process. E.g. Templates, data-types etc. only exists for the process where it was created

4.2 Explanation of the UI and functions

- TODO Überblick: Menü; Sidebar; WYSIWYG
- For further details see 6. Module des TIM Smartform Architect und Expert

5. TIM Smartform Expert

5.1 Targetgroup & projectscope

- IT consultants and developers
- Deep system integration
- Complex configuration-possibility
- Groovy extended. CBAGenericActionHandler can be used in the process
- ANYTHING that is defined for a process. E.g. Templates, data-types etc. only exists for the process where it was created

5.2 Explanation of the UI and functions

- TODO Überblick: Menü; Sidebar; WYSIWYG
- For further details ss 6. Modules of the TIM Smartform Architect und Expert

6. Modules of the TIM Smartform Architect und Expert

6.1 Module UI

• Creation of new templates:

You need architect- or expert-rights. Click on the tab "Templates" in the top left corner, then on the green "PLUS-Icon". Name your template by entering something in the field "Template" and save everything (by clicking on the floppy disk). Afterwards click the tab "Elements" and then the green "PLUS-icon" on the top right corner. Name your element. (This is not the only correct way but a step by step tutorial on how to create a blank element with a certain size) Select position 1 if you havent placed any other elements into your smartform. Select "A-Element" as the "Element type" and "uie-details formular element" as "UIE". In the section "positioning you can select the size and the gap between this and other elements. To finalize this creation click *SAVE* and *DEPLOY*.

6.2 Module templates

6.3 Module tables

- TODO dau- immer entsprechend des Dateityps, oder Datenbankzugriff
- Bei Ablage als Prozessvariable (BL-Flag P) immer dau-tim verwenden. Achtung: Max. 4000 Zeichen in einer Prozessvariable erlaubt. Dies schließt Steuerzeichen der Tabelle mit ein. Bitte nur zum fixen Testen verwenden

6.4 Module Datatypes

List of all basic types and further details

Regular expressions

- Represent patterns of valid strings.
- If there is a pattern for the regular expression, then teh attribute value is only allowed if it is simular to the pattern.
- The sytax of regular expressions is not easy, please use literature e.g.: http://www.regular-expressions.info/quickstart.html.

Masks

- Only allow input with a certain pattern:
 - $\circ~$ 0 .. algebraic signs and numbers
 - 9 .. only nummbers
 - $\circ\,$ a .. Letters (A-Z,a-z) and '-' and '_'
 - z .. only letters (A-Z,a-z)
 - \circ * .. letters (A-Z,a-z) ,numbers, '-' and '_

6.5 Module massage

6.6 Module translation

6.7 Module functional structure

6.8 Maintenance of TSS-Resourcen

7. Usefull tipps for the most common smartform applications

7.1 Display attributes in the taskbar

- Attributes that are visible in the taskbar are called Indexfields
- There are 10 fields wich can display any attribute
- Modul tables select tim_process Tab Attribute select Attribut In the right sidebar you have to select the BL-Flag 1 or 2 ... or 0 save Deploy Start a real process for testing
- The headlines for each index can be changed in the custom.js like this for every vlient:
 - gadget.languages.de.standard_smartformindex1 = 'Überschrift für Index 1 in DE';
 - gadget.languages.en.standard_smartformindex2 = 'Überschrift für Index 1 in EN';

7.2 Special properties of attributes

- Additional flags for "E" or "D" :
 - Mail (e): A button will appear on the right side of the input field. If clicked, the default Email massenger will be opened. The email adress will be auto-filled.
 - HTML-Hyperlink (w): A button will appear on the right side of the input field. If clicked the default browser will be opened and the entered adress will be opened.
- Additional flags for "E":
 - $\circ\,$ Placeholder (h): The entered text will additionally be displayed in the background of the textfield
 - refresh (r): After enterign something in the field, the smartform will be refreshed. The Groovy method showInterface will be executed again. Functions wich are stored there cna now modify the smartorm, e.g. change the visibility of of attributes etc.
 - If this flags ar ecombined with the flag "D" or aren't combined with the flag "E" they won't have any impact.
- Break of the label-width and field-width:
 - $^{\circ}$ Normally an attribute will be displayed like this: Label + gap + field
 - If the field should appear under the label, then the label-width has to be bigger than usual. If the label-width + gap-width + value-width are bigger than the element they are placed in the input field will be placed under the label.

7.3 Import a csv-document for an autocomplete-/dropdownfield

- First you have to create a module wich is named like the csv, txt or xls file
 - $\circ\,$ The table must get the mathcing DAU
 - $\circ\,$ The BLU must be set to "blu-basic"
 - Now you have to create an attribute for every column
 - TODO Dies ist analog zu den Attributen im Smartform auszufüllen
 - Important: DA-flag must be set to "SIU"
 - Index: Here you have to select wich columns will be used as a unique reference (=index 1) of a data type
 - Ref.-type:
 - Here you select wich attribute will be used as a discription, for example in a drop. This is selected with "D"
 - Here you select wich attribute will be used as short identifier. This is selected with "I"
 - Here you select wich attribute will be used if a selected entry will be saved. This is selected with "V"
 - For further details see TODO (Exemplarisches Ergebnis eines Dropdowneintrags im HTML: <option value="Attribut mit V">"Attribut mit I" "Attribut mit D"</option>)
- TODO Nun muss die Datei via Tab Ressources im Admin Client hochgeladen werden. Hierbei ist der Datentyp Datendatei auszuwählen
 - After the upload press the button "Delete Cache"
- Data-type for Dropdown
 - $\circ~$ For the table to be used as a basis for a dropdown or an autocomplete field a data-type must be created

- Baic-type: = Data-type of the column of the CSV which is used as the unique reference
- Properties: Reference list
- Table: a priviously created table
- Attribute: The attribute from the table which should be saved in the database. It has to be unique. Matches the attribute with "V"
- Filter: optional here you can limit the number of results to one attribute. Use this syntax: ATTRIBUT= . By using ATTRIBUT={ATTRIBUT_IN_TIM_PROCESS} you can search the content of another attribute. IMPORTANT: The attribute wich is searched has to have te "r"-flag, so if the value is changed the table will be loaded with the new filter.
- Display:
 - Leave empty, then the default will be applied: I and D
 - or select attributes with {Attribut}, that should be displayed e.g.: {nachname}, {vorname} results in: "Schirach, Oliver"
- Alternativly a table can be used as a grid to display data sets in a table

7.4 Creation of tabpages

- Now you have to create a template for each tab
 - $\circ\,$ Attention: Please avoid same element-letter, because then attributes would appear in every tab with the same letter
 - If overlapping letters cannot be avoided then attributes must not be placed by drag&drop
 - The attributes then have to be placed via user interface attribute assigned in the table to the selected letters. Make sure the selected tab is the one you want to place the attribute on. If an element-letter is entered in the table then the attribute will only appear on the selevted tab.
- In order to combine the tab with the element in the smartform, TODO müss aus dem Accordion in Bedienoberfläche Editor der Eintrag "[neu] ()" aus dem Untermenü "Inhalte" auf das Element mit der uie-tabpages-interfaces gezogen werden
 - $\circ\,$ An empty sidebar will appear, where the added Tab will be configured:
 - User interface: technical name for the tab
 - Description: label for the tab
 - superordinate: Smartform
 - Template: The template for the tab
 - Menu / content: Select the element with the uie-tabpages-interfaces
 - UIU: If the tab contains processvariables that are saved in tim_process, then: uiuselection
 - Wenn das Tab auf eine Tabelle zeigt, die mit dem Prozess in Verbindung steht, dann uiu-details
 - Properties: E, so the tab is editable
 - additionally n and a, if the tab uses a table and the attribute are arranged in the tab. If you use a grid, don't use n and a
 - Icons: Not necessary. They are used if you use a grid to display data-sets
 - Table: tim_process, if only process varables should be displayed
 - Filter: Limitation of table to certain entries. YOu can desplay information that is filtered by one or more attributes

7.5 Integration of a TODO fachlichen table as a grid

• Attention: Used template grid - template in the user interface section - Elements - G - set to uiegrid-edit or the icons won't be visible

7.6 Creation of an accordion

Subelements

7.7 Creation of a Groovy code, wich will be executed upon loading the smartform

- In the module user interface there is a sidebar with the button "showInterface" for every interface
 - $^{\circ}$ There you can save Groovy code which will be executed as soon as the site will be loaded
- With the flag r you can reload a page after a value is entered.
 - $\circ\,$ The interface will be reloaded and showInterface will be executed again
 - All dynamic filters in data-types or tables that access other attributes will be executed again too
 - Incoming data will be preserved
- Examples:
 - $\circ\,$ Pick out the user language and set it into the attribute "language":

```
def locale = FRAME.getProperty("locale_id").toUpperCase();
if (locale != null && locale.length() > 1 && locale.substring(0,2) !=
"DE") {
    DATA_ROW.setValue("mm_sprache","EN");
    }
```

• Set a UI-Flags for an attribut:

```
ICbaRow attribut_xxxx = FRAME.searchRow("dd_intattr", "interf_recid="
+ CONFIG_ROW.getRecid() + "&attr_id=TECHNISCHER_ATTRIBUTNAME");
    attribut_xxxx.setValue("ui_flag", "D");
```

• Read the value for an attribute:

```
String wert_des_attributs_im_moment_des_seitenaufbaus =
DATA_ROW.getValue("TECHNISCHER_ATTRIBUTNAME");
```

• Set a value for an attribute:

```
DATA_ROW.setValue("TECHNISCHER_ATTRIBUTNAME",
"neuer_Wert_für_das_Attribut");
```

7.8 Configuration of status-specified attribute-properties

• Reset variants of an attribute to standart

- "Reset for every status" bzw. "Reset" buttons
- Statusoverview. Copy , delete , * Step that has been omitted *

8. Installation

• see also Installation

9. Old CBA Wiki

16.0 Übersicht
16.1 Einführung
16.2 Tabellen
16.3 Datentypen
16.4 Templates
16.5 Bedienoberflächen
16.6 Meldungen
16.7 TIM-Anbindung

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