

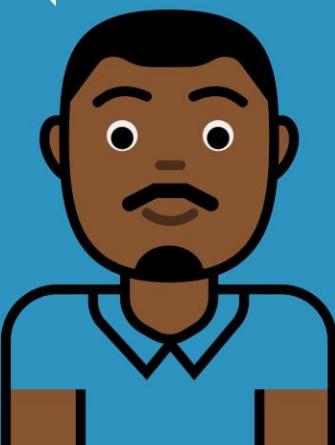


DR. WALLNER ENGINEERING



/// IHR TRAINER HEUTE IST AFOLABI ESAN

# HERZLICH WILLKOMMEN





/// SIEMENS PLM CONNECTION 2024

# ***ACTIVE WORKSPACE UI CUSTOMIZING***

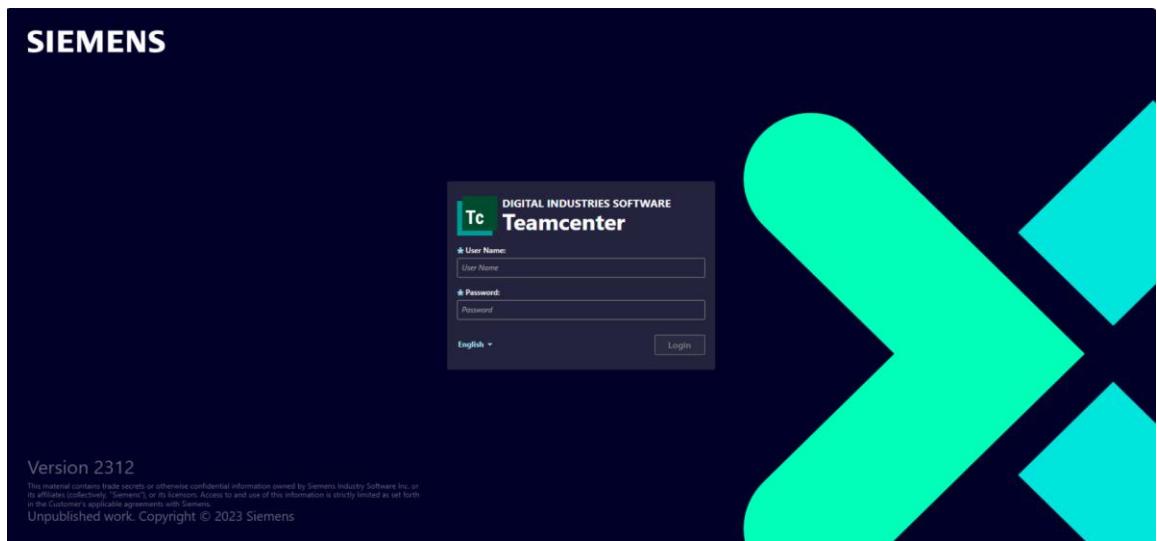
Afolabi Esan, 11.06.2024, 13:55 – 14:35 Uhr /// Raum 2015



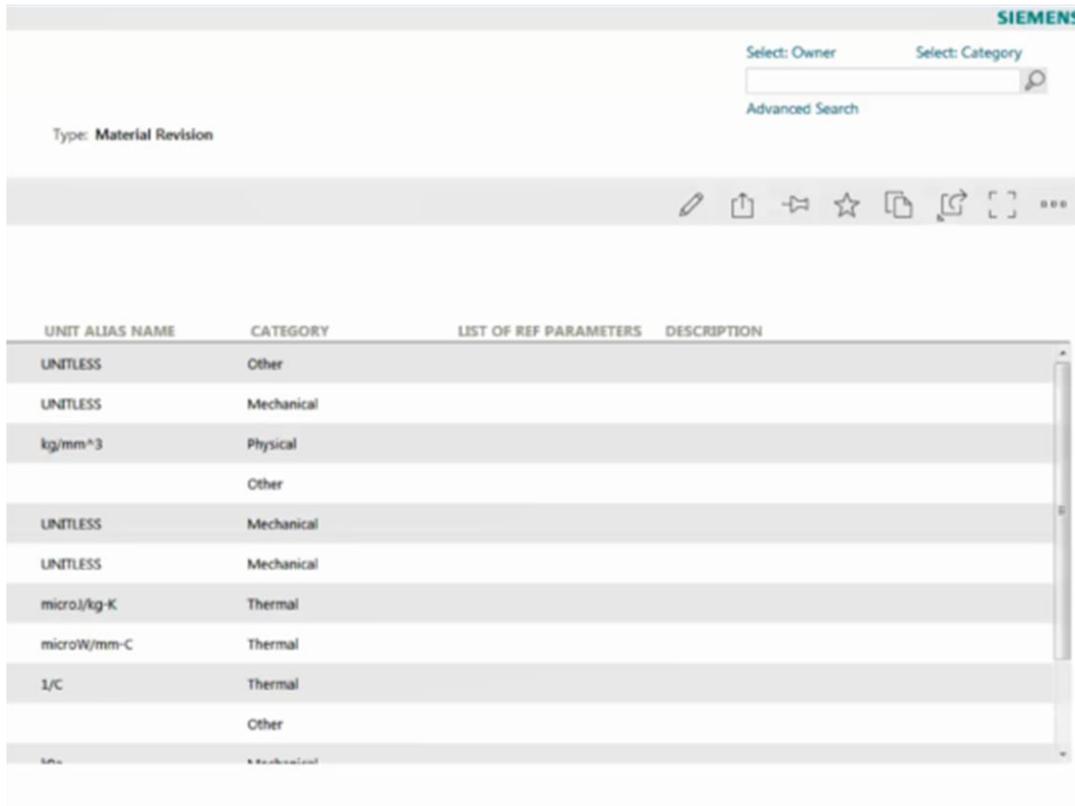
/// ÜBERSICHT

# **INHALT**

1. Vorteile des UI Builders
2. Voraussetzungen für den UI Builder
3. Anwendungsbeispiele
4. Zusammenfassung

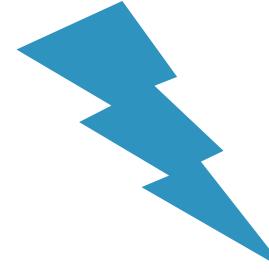


# Vorteile des UI Builders



The screenshot shows a Siemens UI Builder application window. At the top, there's a header with the SIEMENS logo and search fields for 'Select: Owner' and 'Select: Category'. Below the header is a search bar with a magnifying glass icon and a link to 'Advanced Search'. The main area has a title 'Type: Material Revision'. A toolbar below the header contains various icons for editing and navigation. The central part of the screen is a table with columns: UNIT ALIAS NAME, CATEGORY, LIST OF REF PARAMETERS, and DESCRIPTION. The table lists several entries:

UNIT ALIAS NAME	CATEGORY	LIST OF REF PARAMETERS	DESCRIPTION
UNITLESS	Other		
UNITLESS	Mechanical		
kg/mm <sup>3</sup>	Physical		
	Other		
UNITLESS	Mechanical		
UNITLESS	Mechanical		
microJ/kg-K	Thermal		
microW/mm-C	Thermal		
1/C	Thermal		
	Other		
0.000	Electrical		

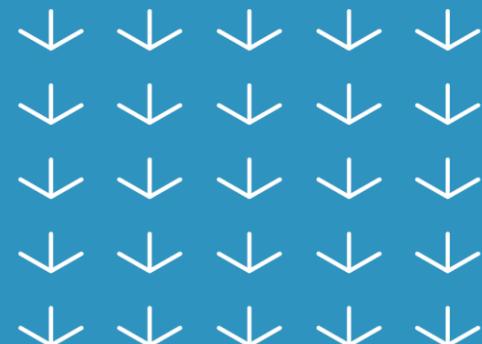


- Geschwindigkeit = Produktivität
- Usability = Akzeptanz
- Zeit = \$\$\$

/// 1.

# **VORAUSSETZUNGEN FÜR DEN UI BUILDER**

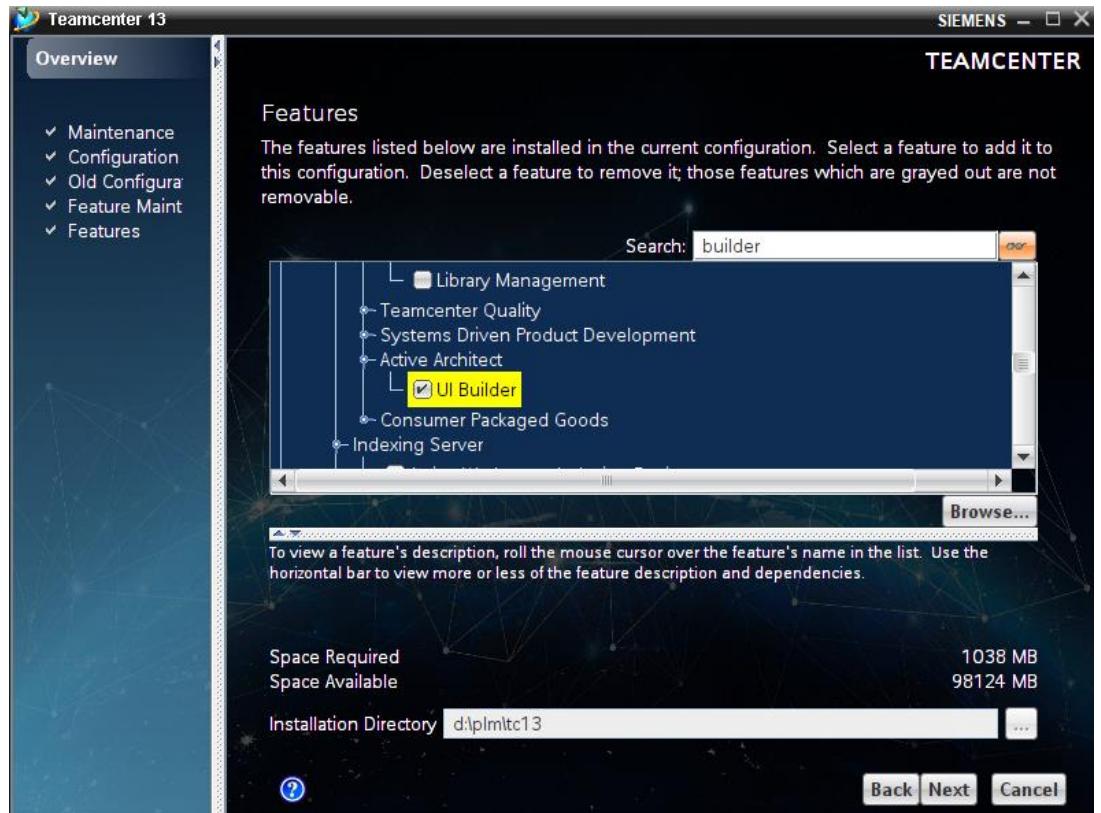
- Installation
- Active Architect?
- UI Builder im Active Architect
- Ausführung



# Installation

Active Architect kann entweder mit dem Deployment Center oder dem Teamcenter Environment Manager (TEM) installiert werden:

- Active Workspace Client
- Active Workspace Microservices
- Active Workspace Gateway
- Active Architect Core
- Active Architect → UI Builder



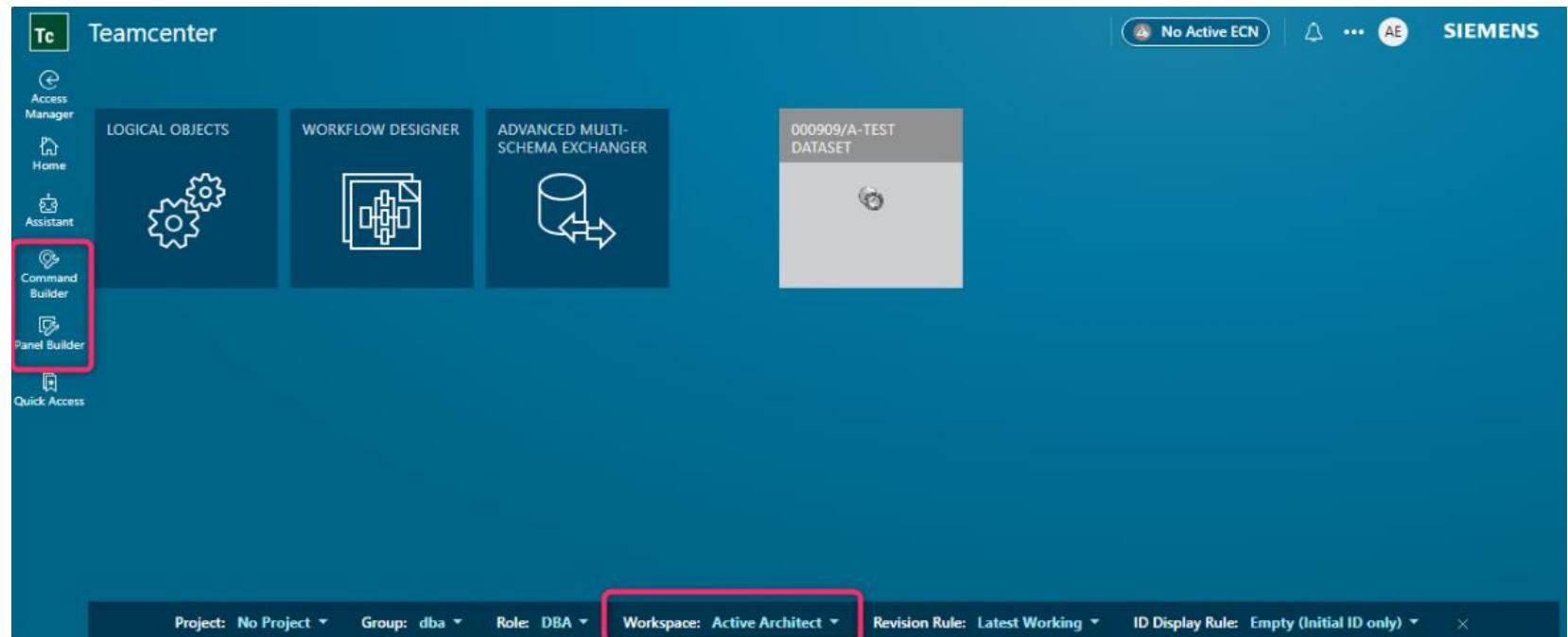
## Deployment Center:

Die Komponente "UI-Builder" wird automatisch hinzugefügt, wenn die Teamcenter-Software in der Aufgabe-Software hinzugefügt ist.

# Active Architect?

Ein Workspace als Sammlung von Seiten, die uns folgendes ermöglicht:

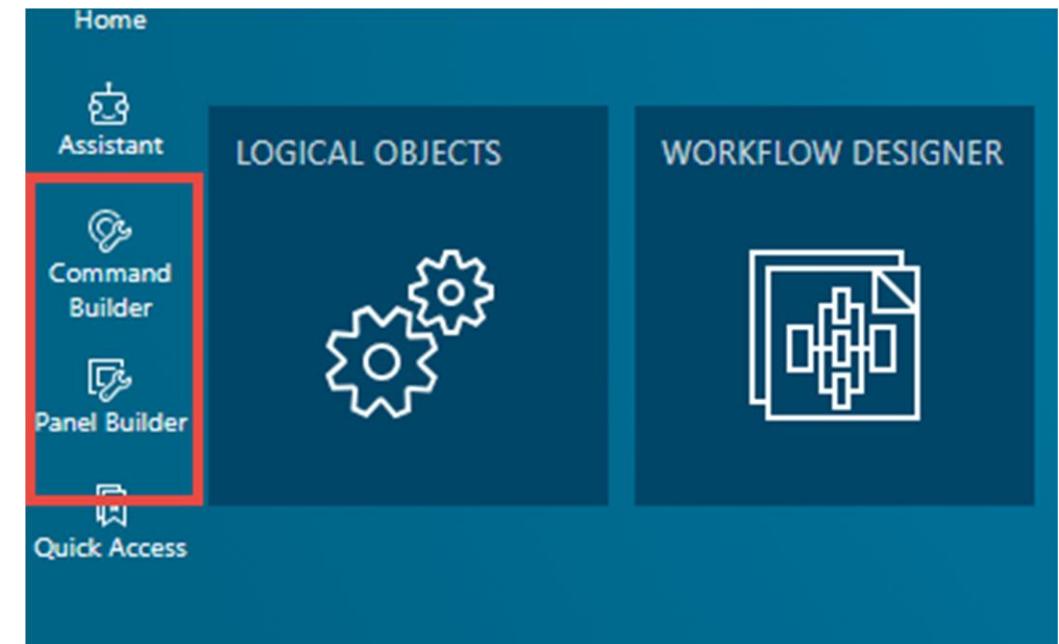
- Einfache Änderung vorhandener Command-Platzierung, -Sichtbarkeit, -Symbole usw.
- Logische Objekte
- Workflow Designer
- XRT-Editor



# UI Builder im Active Architect

Der Active Workspace UI Builder besteht aus mehreren Hauptspeicherorten, die die Benutzeroberfläche für die dynamische Konfiguration bereitstellen.

- **Command Builder:** Suchen, Ändern und Erstellen von Befehlen
- **Panel Builder:** Erstellen und Ändern von Fenstern
- **Action Builder:** Bestandteil für Command und Panel Builder



# Ausführung

1. Workspace: **Active Architect** wechseln.
2. Verbindung im „Development Mode“ erzeugen

## Normale URL:

<http://SERVER:3000/#/showHome>

## Development Mode URL:

<http://SERVER:3000/devMode/#/showHome>



### Bemerkung: Veraltet

Ab Active-Workspace@6.2.0 ist „/devMode/“ zuverwenden



### Bemerkung: Neu

Ab Active-Workspace@6.3.0 ist das Umschalten in Dev-Mode mit einem Command verfügbar

The screenshot shows the Command Builder interface with the 'Commands' tab selected. A search bar at the top displays 'Commands'. Below it, there are several buttons: 'Build Changes', 'Development Mode' (which is highlighted with a red box), and 'Reset Deltas'. The main area lists commands with their icons and command IDs. The 'Development Mode' command is listed under 'Find in this content'.

Icon	Command ID	Description
Table icon	splmTableFreezeColumn	Command ID: splmTableFreezeColumn
Table icon with freeze symbol	splmTableUnfreezeColumn	Command ID: splmTableUnfreezeColumn
Full Screen icon	Awp0TaskbarFullScreen	Command ID: Awp0TaskbarFullScreen

/// 2.

## **ANWENDUNGSBEISPIELE**

- Senden eines Objektes nach NX - QuickSelect
- Senden eines Objektes nach NX im Kontextmenü (RMT)
- Eigene Hilfe-Seite erstellen



# Login Active Workspace

1. Starten Sie Teamcenter AW Client im Web Browser
2. Melden Sie sich an mit  
**Benutzername= tcadmin**  
**Passwort = tcadmin**
3. Wechseln Sie die Gruppe auf „**dba**“
4. Wechseln Sie das Workspace auf „**Active Architect**“
5. „**Command Builder**“ aus dem Global Navigation auswählen

# Deep Dive UI Builder (1)

**NPM** ist ein Werkzeug, das speziell für Node.js entwickelt wurde und dazu dient, JavaScript-Pakete zu erstellen, zu exportieren und zu bearbeiten

Durch die Verwendung von **npm run generateModule** können Sie manuell Befehle, Module, Typen usw. generieren.

- In Stage Folder wechseln
  - `%TC_ROOT\aws2\stage`
- Initenv.cmd ausführen
- **npm run generateModule** ausführen

```
npm run generateModule

D:\plm\tc2312\aws2\stage>npm run generateModule
> active-workspace@7.0.3 generateModule
> node node_modules/@swf/tooling/js/generator.js

[Info] Select a type to generate. Available types are:
authenticator: Generates an authenticator.
command: Generates a zero compile command.

commonFrame: Generates 'starter code' files for common-app-frame.
It is minimal 'declarative' code that creates basic working structure for a location, in alignment with CTO guidelines.
It creates rootView/ViewModel & locationView/ViewModel files inside a module which can always be enhanced later

kit: Generates a kit.json.
A kit.json is a combination of modules which will be included in the site build

location: Generates a location.
A location groups sublocations together within application.
Examples are "Inbox" and "Search"

module: Generates a module.
A module is a build configuration that determines which code to include and how to process it.

solution: Generates a solution.

state: Generates a state. A state is a page within a solution. The page's display is a declarative view and view model

subLocation: Generates a subLocation.
sublocation is a page which can be accessed in Active Workspace. The standard view consists of a primary and secondary workarea.
Examples are "My Tasks" within "Inbox" location and "Results" within "Search" location

theme: Generates a theme.
A theme can change the colors that are used in your site. The default themes are Light and Dark

type: Generates a type.
This will allow you to define a custom type icon for a type.

workinstrView: Generates a zero compile workinstr gallery view within EWI solution.

workspace: Generates a workspace.

Enter type to generate: ■
```

# Deep Dive UI Builder (2)

## **Änderungen exportieren:**

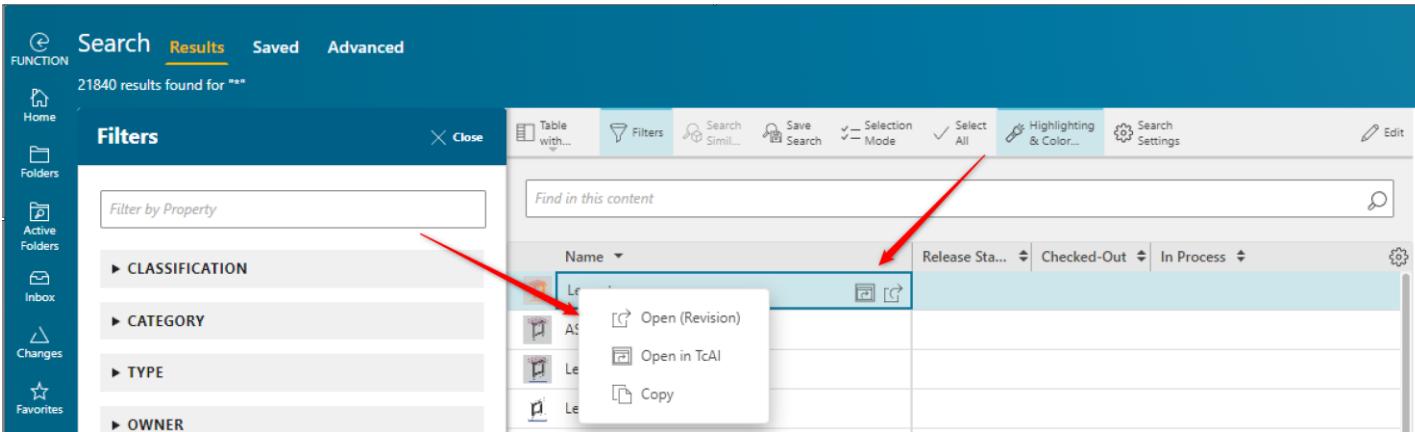
Änderung aus dem Dev-Mode in dem erstellten Modul exportieren

Im CommandsViewModel.json werden alle neuen Commands, Icons, Placements etc. definiert

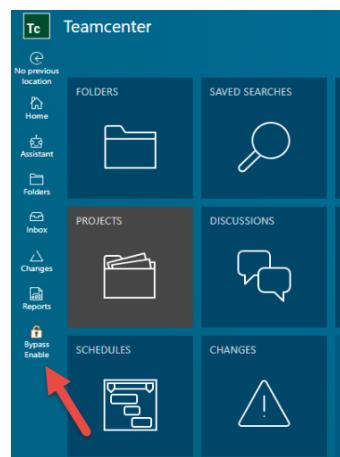
**<npm run exportToSrc>**



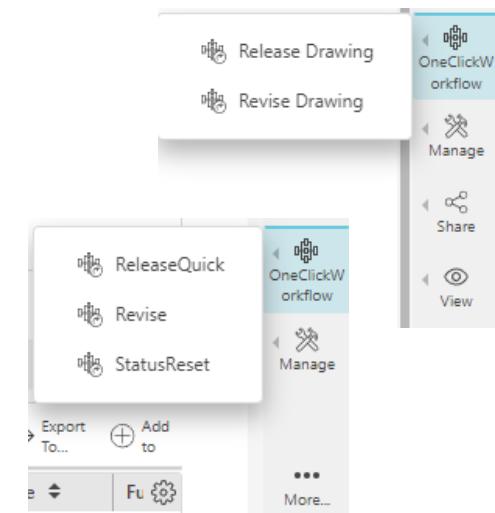
# Weitere Beispiele aus der Praxis



Bsp: Aus dem context menu oder Cell



Bypass  
(Enable/disable)



One Click Workflow

# Zusammenfassung

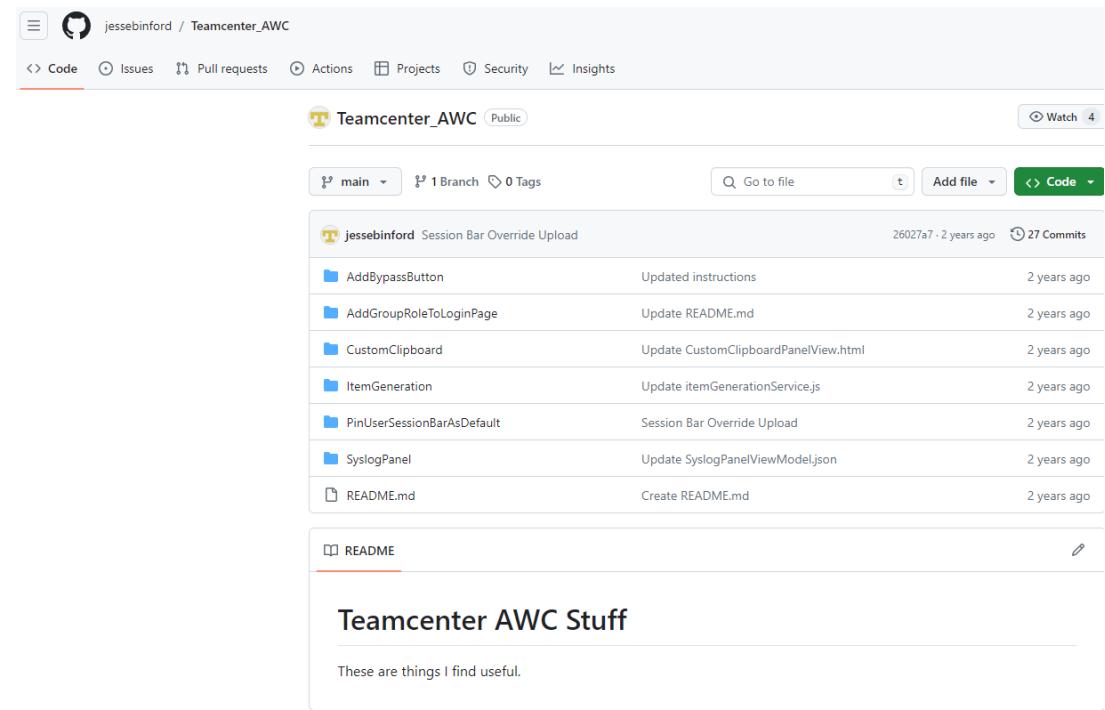
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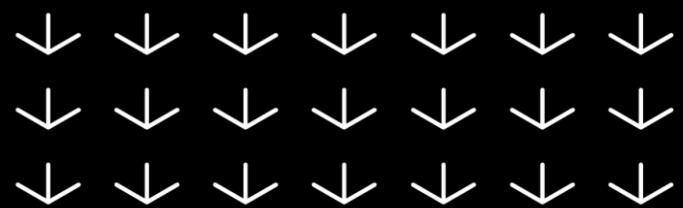
- Bsp: OneClick Workflow
- Bsp: Rechte Maustaste
- Tiefes Verständnis von Vorteil

# GitHub Community

- Active Workspace Community
- Ablage von Active Workspace Extension-Beispiele
- Wissensaustausch



[Teamcenter's Active Workspace extensions \(github.com\)](https://github.com/jessebinford/Teamcenter_AWC)



/// BEI FRAGEN FINDEN SIE UNS AM STAND 22

**VIELEN DANK!**





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# Deep Dive UI Builder (3)

Nutzen von Redux/React

