

# Authorization Roll Out

Automation using SAP Intelligent RPA

# Typical challenges with authorization roll out in ERP projects

With every ERP implementation, a key task for Authorization Administrators and Security Officer is the design and roll out of the authorization matrix across the different organization units



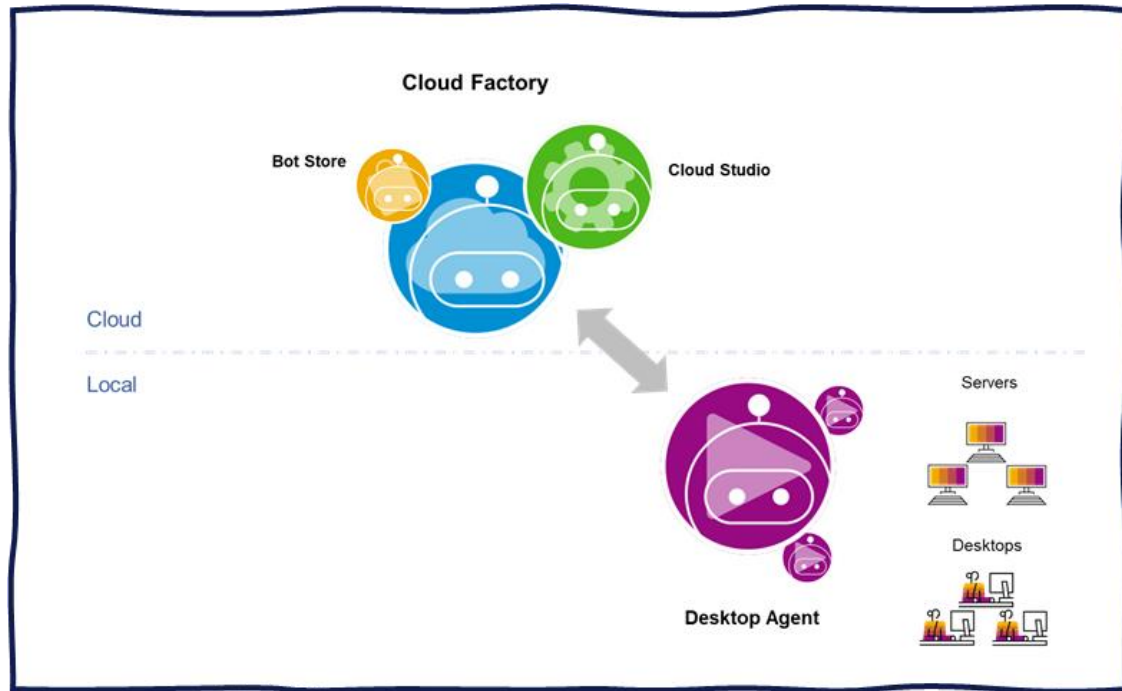
## Challenges and risks:

- Ensure that business users can do their work without any authorization issues while being fully compliant with security and legal requirements at the same time.
  - If rules are not tight enough:  
Security issues, people get access to critical data, can perform unwanted activities, vulnerability
  - If rules are too tight:  
Negative impact on business, users can't perform their jobs properly or on time

## Pain points:

- High time and effort requirement (days or even weeks of work, depending on complexity)
- Rather boring, repetitive manual task
- Only very experienced people can do the job
- Education effort and acceptance
- Often time critical, as being one of the last steps before GoLive

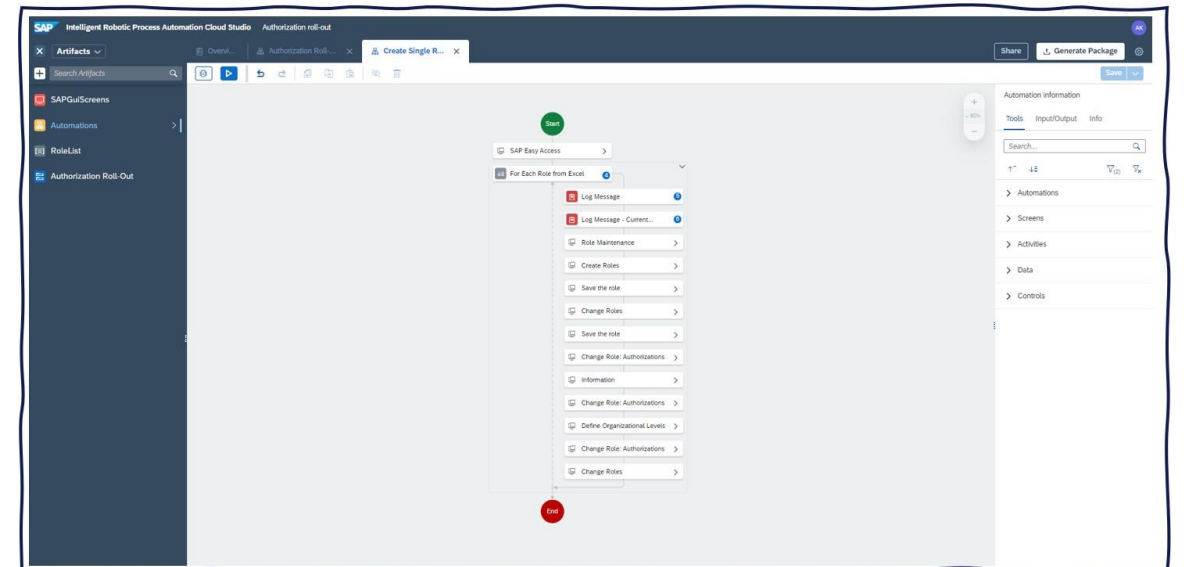
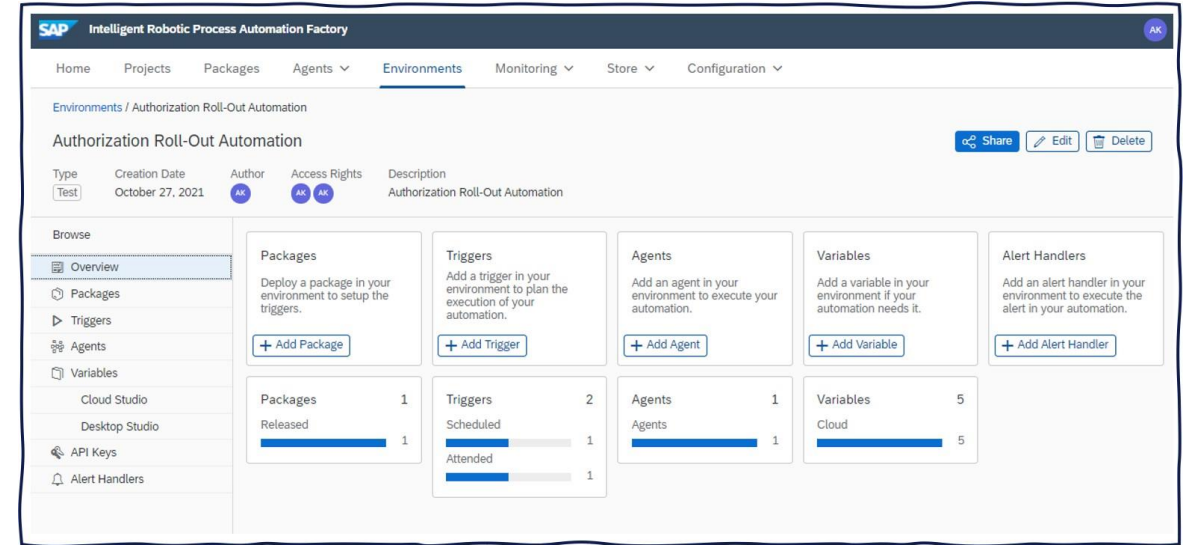
# Let an Authorization Bot based on Artificial Intelligence take over!



- **Authorization Compliance** and **security** based on best practices and automation – ensure **high quality** with **less effort** and stress, especially in critical project phases.
- Provides a **best practice** in designing and implementing User Authorization matrix across organization units especially for **international / wide roll-out** project with **multiple organization levels**.
- Ensure that Business user can do their work without any authorization issues from day one while being in full compliance regarding legislation and security. And in-built **Artificial Intelligence** relieves your experts from boring routine steps and **give** them **back time for valuable tasks**.

# It is no miracle - Authorization roll out bot in brief

- Robotic Process Automation Bot (based on SAP IRPA) for authorization roll out in complex, multiple organization level projects
- No programming skills necessary, only configuration of the bot
- Template driven authorization matrix based on Best Practice
- Extreme accuracy and uniformity (avoidance of errors or typos)
- Modular architecture for optimal adaption and open for extensibility requirements
- Cloud Based, available 24/7
- Attractive pricing
- Available for attended and unattended use
- No disruption of existing systems and IT infrastructure



# Authorization roll out bot at a glance – Benefits

## Improved Quality

- Secure and standardized roll-out process
- Assured quality (based on best practices)
- Transparency, traceability and compliance

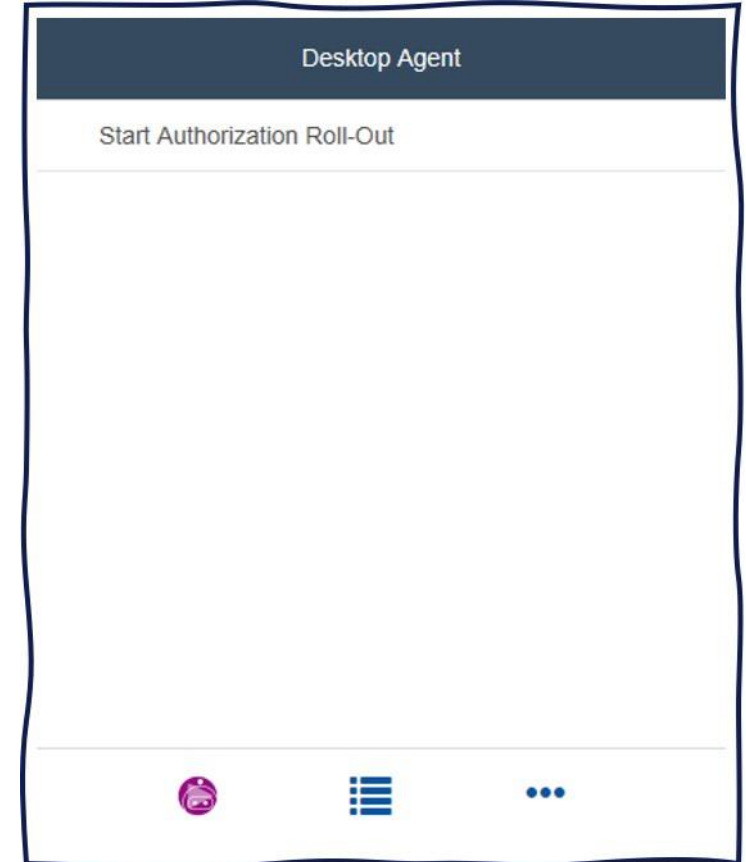
## Better performance at lower cost

- Reduced to few hours
- Reused whenever needed
- System independent and not limited to one system
- Supporting and securing GoLive preparation
- Replaces pure manual repetitive process

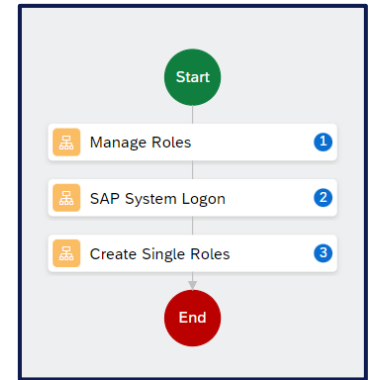
## Less stress for the employees

- Frees highly qualified resources in critical project phases
- Avoided escalations
- Improved employee satisfaction by avoiding boring work

Just press the button...



# Robot Overview Components



Excel Automation  
Generating role names and  
parameter

- Excel Template
- Authorization information
- Roles and related organizational levels
- Generation of concatenated roles

SAP System Login

- Login into a specified SAP System
- Cloud Factory manageable system parameter
- System ID, Client, User, PW

Role and Authorization  
creation

- Running transaction PFCG
- Create roles based on excel information
- Adapt organizational levels
- Log activities

# Flexible Excel Template

Master Role	Pre-role	Description	Company Code	Purchasing Group	Purchasing Organization	Plant	Delivered Role
YM_MM_MASTER	Y_MM_D05_DISPLAY	MM Display	1010	1	1010 E010		Y_MM_D05_DISPLAY_1010
YM_MM_MASTER	Y_MM_D05_OTHER	MM Other	1010	1	1010 E010		Y_MM_D05_OTHER_1010
YM_MM_MASTER	Y_MM_D05_DISPLAY	MM Display	1020	2	1020 SH02		Y_MM_D05_DISPLAY_1020
YM_MM_MASTER	Y_MM_D05_OTHER	MM Other	1020	2	1020 SH02		Y_MM_D05_OTHER_1020
YM_MM_MASTER	Y_MM_D05_DISPLAY	MM Display	1710	17	1710 E012		Y_MM_D05_DISPLAY_1710
YM_MM_MASTER	Y_MM_D05_OTHER	MM Other	1710	17	1710 E012		Y_MM_D05_OTHER_1710
YM_MM_MASTER	Y_MM_D05_DISPLAY	MM Display	1720	18	1720 SH04		Y_MM_D05_DISPLAY_1720
YM_MM_MASTER	Y_MM_D05_OTHER	MM Other	1720	18	1720 SH04		Y_MM_D05_OTHER_1720
YM_MM_MASTER	Y_MM_D05_DISPLAY	MM Display	2010	21	2010 E014		Y_MM_D05_DISPLAY_2010
YM_MM_MASTER	Y_MM_D05_OTHER	MM Other	2010	21	2010 E014		Y_MM_D05_OTHER_2010

- Excel template covers master roles, roles and organization levels
- It's a flexible framework where any organizational part (sales, production, ...) can be easily included
- The bot is using the template for creating concatenated roles (last column)
- Content is used for creating roles and authorizations

# Automating PFCG transaction

The screenshots illustrate the configuration of the 'YM\_MM\_MASTER' role. Key elements include:

- Role Maintenance:** Overview of the role 'YM\_MM\_MASTER' (MM Master Role).
- Change Roles:** Details for the role, including description and target system.
- Change Role: Authorizations:** Configuration of authorization objects for the role. The role status is 'Changed'.
- Define Organizational Levels:** A dialog box to define values for organizational levels. The table below shows the configured values.

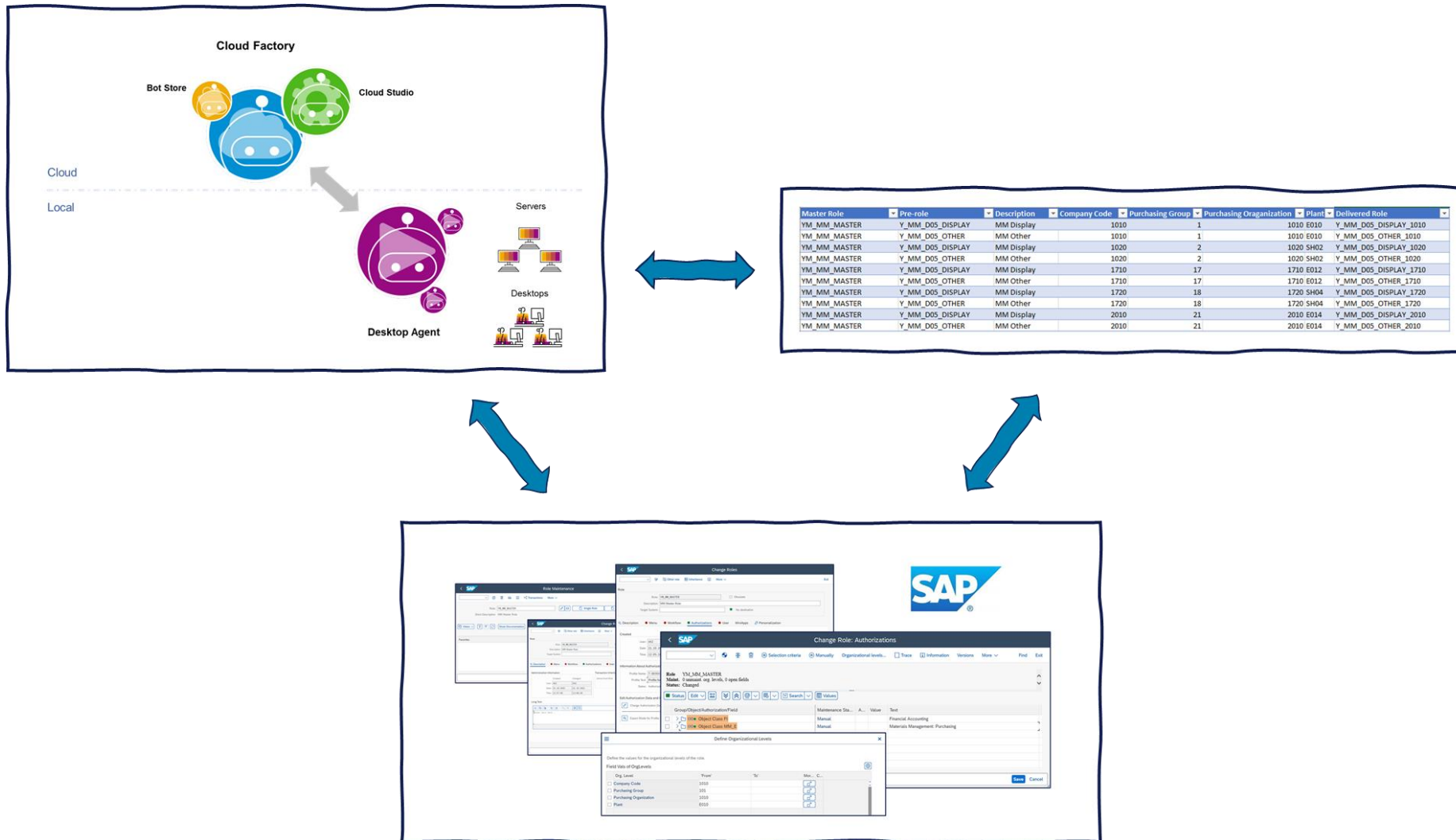
Group/Object/Authorization/Field	Maintenance Sta...	A...	Value	Text
Object Class FI	Manual			Financial Accounting
Object Class MM_E	Manual			Materials Management: Purchasing

Field Vals of OrgLevels	Org. Level	'From'	'To'	Mor... C...
<input type="checkbox"/>	Company Code	1010		
<input type="checkbox"/>	Purchasing Group	101		
<input type="checkbox"/>	Purchasing Organization	1010		
<input type="checkbox"/>	Plant	E010		



# Overview





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