



Configuration Management and Data Service Deep-Dive

June 8, 4:00 PM CET, SAST, 7:30 IST

RPA Community

Chapters Zurich (Switzerland) & Johannesburg (South Africa)

«Configuration Management and Data Service Deep-Dive»

Wednesday, 8. June 2022 (16:00 – 17:30 CET)

The agenda and RSVP can be accessed via:

community.uipath.com/zurich/



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Agenda

- Introduction to Configuration Management and Methods;
- Portal-based Config Management;
- Introduction & Deep Dive into UiPath Data Service;
- Apps & Data Service – Integrations within UiPath;
- Discussion, Q&A.
 - Next Meetups Johannesburg Community: 25 August & end of September
 - Next Meetups Zurich Community: 6 July & 7 September



Configuration Management

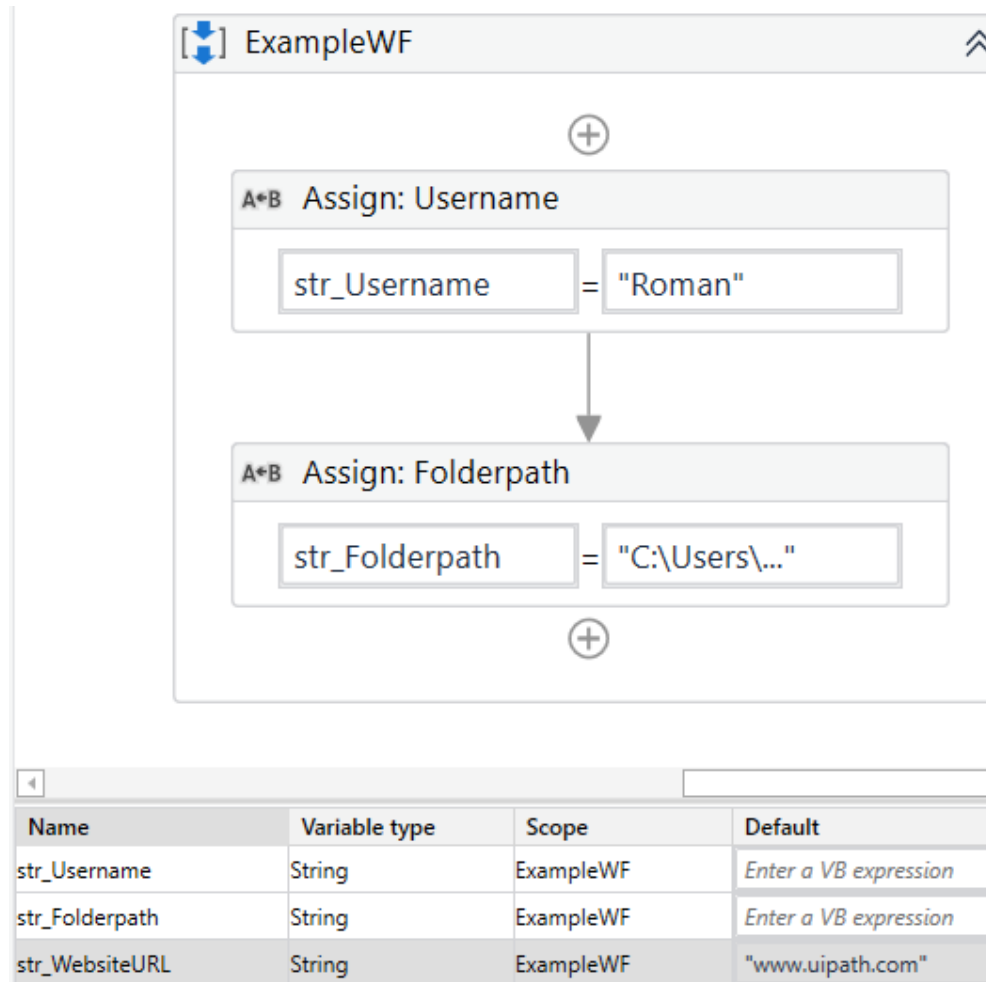
Introduction to Config Management and Methods:
Obstacles and Challenges for mid-/long-term Solutions

Methods of Config

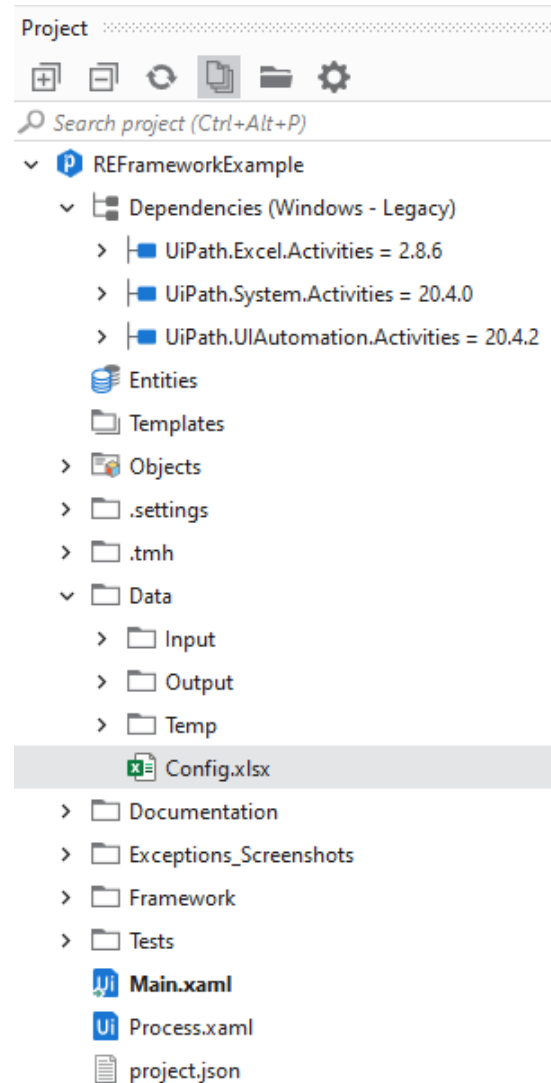
- Hardcoding in the Project / Processes
- Excel Datatable
- JSON files
- SQL Database
- (Orchestrator) Assets

Hard-coding

Assigning Variables and Arguments (or setting Default values)



Excel Datatable (REF – Config)



Expanding / «Tweaking» Excel

	A	B	C
1	Name	Value	Description
2	Process Meta Data		
3	logF_BusinessProcessName	...	Logging field which allows grouping of log data of two or more subprocesses under the same business process name
4			
5	Orchestrator Settings		
6	OrchestratorQueueName	...	Orchestrator queue Name. The value must match with the queue name defined on Orchestrator.
7			
8	Init Appl. / Settings		
9			
10			
11	Paths / Folders		
12	path_Input	C:\...\Input\	
13	path_Output	C:\...\Output\	
14	path_Overall	C:\...\Overall\	
15			
16	Files		
17	xls_FileX	FileX.xlsx	
18			
19	Excel Details		
20	sheet_FileX_X	SheetX	
21	col_FileX_A	A	
22	col_FileX_B	B	
23			
24	Mail Details		
25	mail_Outlook_Account		
26	mail_ErrorRecipient	...	Contact to send Error Messages to
27			
28	Process-specific Header 1		
29			
30			
31	Process-specific Header 2		
32			
33			

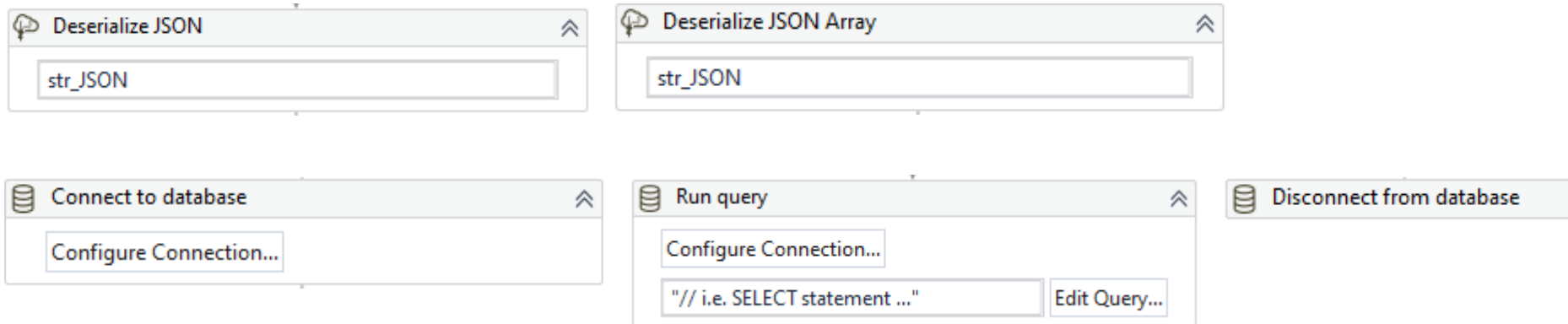
Settings

Constants

Assets

JSON or SQL Config

- JSON as with Excel: Same challenges due to «file characteristics»
- Less intuitive to use (for users) – if any involvement is required at all
- Additional Packages are required (in your template):
 - JSON: UiPath.WebAPI.Activities Package (Official – by UiPath)
 - Databases: UiPath.Database.Activities Package (Official – by UiPath)
- Activities to be used thereafter (some examples)

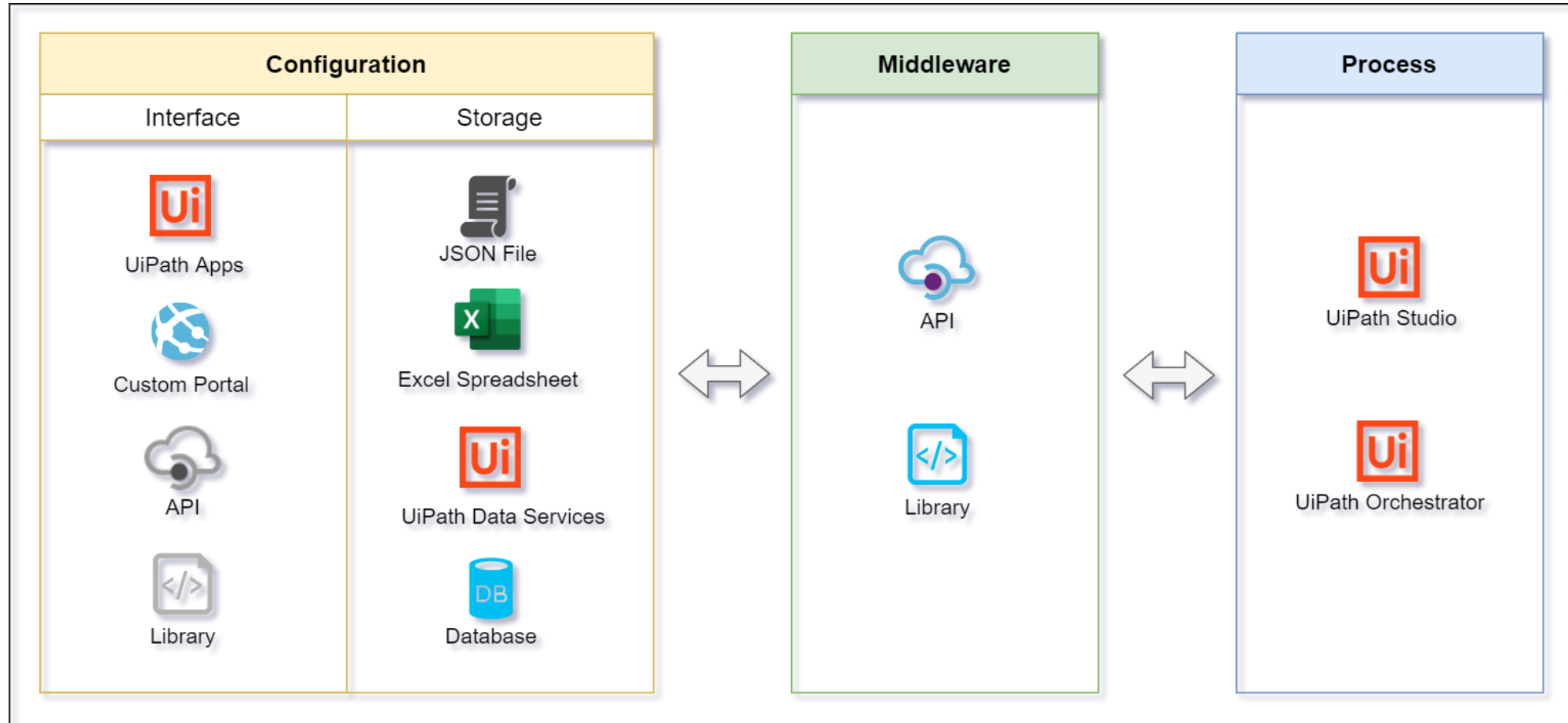




Portal-Based Configuration Management

Introduction to using a portal-based configuration management approach

The Approach



An Example of Using Portal-Based Config

<https://community.uipath.com/events/details/uipath-johannesburg-presents-uipath-configuration-management/>



The Interface

Prod Config Details (+)

Replicate to Dev

<input type="checkbox"/>	Name	Value	Description	
<input type="checkbox"/>	ErrorRecepients	jacqui.muller@dimensiondata.com	The recipients of error notifications	  

Dev Config Details (+)

Replicate to Prod

<input type="checkbox"/>	Name	Value	Description	
<input type="checkbox"/>	ErrorRecepients	jacqui.muller@dimensiondata.com	The recipients of error notifications	  

Create Config

Process

Template Process

Name

Demo Config Item

Value

Demo Config Value

Description

The name, value pair that contains the demo config information needed to access a specific part of the solution

Create

Back to List

An Example of Using Portal-Based Config

<https://community.uipath.com/events/details/uipath-johannesburg-presents-uipath-configuration-management/>



The Middleware

TelemetryAPI ^{1.0} OAS3

Config

GET /api/Config/{processId}

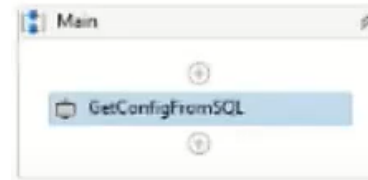
POST /api/Config

ConfigDev

GET /api/ConfigDev/{processId}

POST /api/ConfigDev

Library – Implemented in Process



Properties:

- Current Directory
- Environment
- Output Config Dictionary



UiPath Data Service

An introduction into Data Service

Data Service – Introduction

- Data Service is located in UiPath Cloud (needs to be enabled on the Tenant)
- There are 4 components in Data Service:
 - Entities
 - Fields
 - Records
 - Relationships

Data Service Benefits

- A persistent data storage service and no-code data modeling solution easily integrated in your RPA projects or Apps.
- Relational data types (allowing links between Entities)
- UiPath Cloud-hosted (no infrastructure required)
- Easy to handle Types such as: Text, Number, Yes/No, Date-Time and even Files and individual «Choice Sets»
- Can be accessed via API
 - [https://cloud.uipath.com/\[CloudName\]/\[Tenant\]/dataservice_/api/DataService](https://cloud.uipath.com/[CloudName]/[Tenant]/dataservice_/api/DataService)

Data Service Benefits – Security

- Ask where your Cloud-Setup is being hosted (Data Center)
- Individual Access Management to available (Automation Cloud) User or Groups at Entity-Level

Create Role

Role Name *

ProcessReader

Administrative Permissions

☐ Manage Roles ⓘ

☐ View Schema ⓘ

☐ Customize Schema ⓘ

Data Access Permissions

	Record Access	Create	Read	Edit	Delete
		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Process Overview	All	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

[+ Add Entity](#)

Data Service Introduction & Examples

- Adding a new Entity, Fields and Records
- Create a Studio WF and access/manage the newly-created Entity
- Install Data Service Activities Package
- Query Record(s), show Results
- Update single/multiple Record(s)

Let's Discuss

Potential Use Cases?





UiPath Apps & Data Services

Introduction to using UiPath Apps and Data Services as
an approach to configuration management



github.com/JacquiM/UiPath-Configuration-Management/

Introduction to UiPath Apps

- Easy-to-use
- Quick to setup
- Integrates with UiPath Data Services
- Can kick off processes

Let's Explore Further

Live Demonstration





Next Meetups & Discussion

Meetups, Connect with our Chapters/Communities;
Q&A, Discussion and Remarks

Next Meetups - Johannesburg

- Virtual Meeting, Thursday, 25 August 2022
 - AI/ML: A Demonstration in UiPath
- In-Person Meeting, end of September (in Johannesburg)
 - A day in the life of a citizen developer

Next Meetups - Zurich

- In-Person-Meeting, Wednesday, 6 July 2022 (in Zürich)
 - After-Work BBQ & Drinks at Lake Zurich
 - Infos via Community Page & Slack-Channel
- Wednesday, 7. September 2022
 - Robot Maintenance and Success Factors of Bot-Human-Interactions

RPA Community / Slack

- Link to our Johannesburg Community on UiPath.com:
<https://community.uipath.com/johannesburg/>
- Link to our Zurich Community on UiPath.com:
<https://community.uipath.com/zurich/>
- Link to our Slack-Channel
[see Meetup Chat]
- Reach out to us via LinkedIn
[see introduction above / Meetup Chat]

Discussion, Questions & Remarks

