



# **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/](https://community.uipath.com/zurich/)



**Roman Tobler**

Routinuum  
Co-CEO & Owner



**Jacqui Muller**

Dimension Data / North West  
University

Application Architect / Part-Time Lecturer





# JACQUI MULLER

---

UiPath MVP & Johannesburg Chapter Leader

Application Architect at Dimension Data

Decision Support Systems Lecturer at North West University

Python Lecturer at Brainster

Author of [TheJPanda](#) and [JD Bots](#) blogs



LinkedIn



The JPanda



JD Bots



# ROMAN TOBLER

---

Co-CEO and Owner of Routinum

Zurich RPA Community Chapter Leader

Author of [Excelblog.ch](https://excelblog.ch) (mainly in German)



LinkedIn



Routinum



Excelblog.ch

# 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

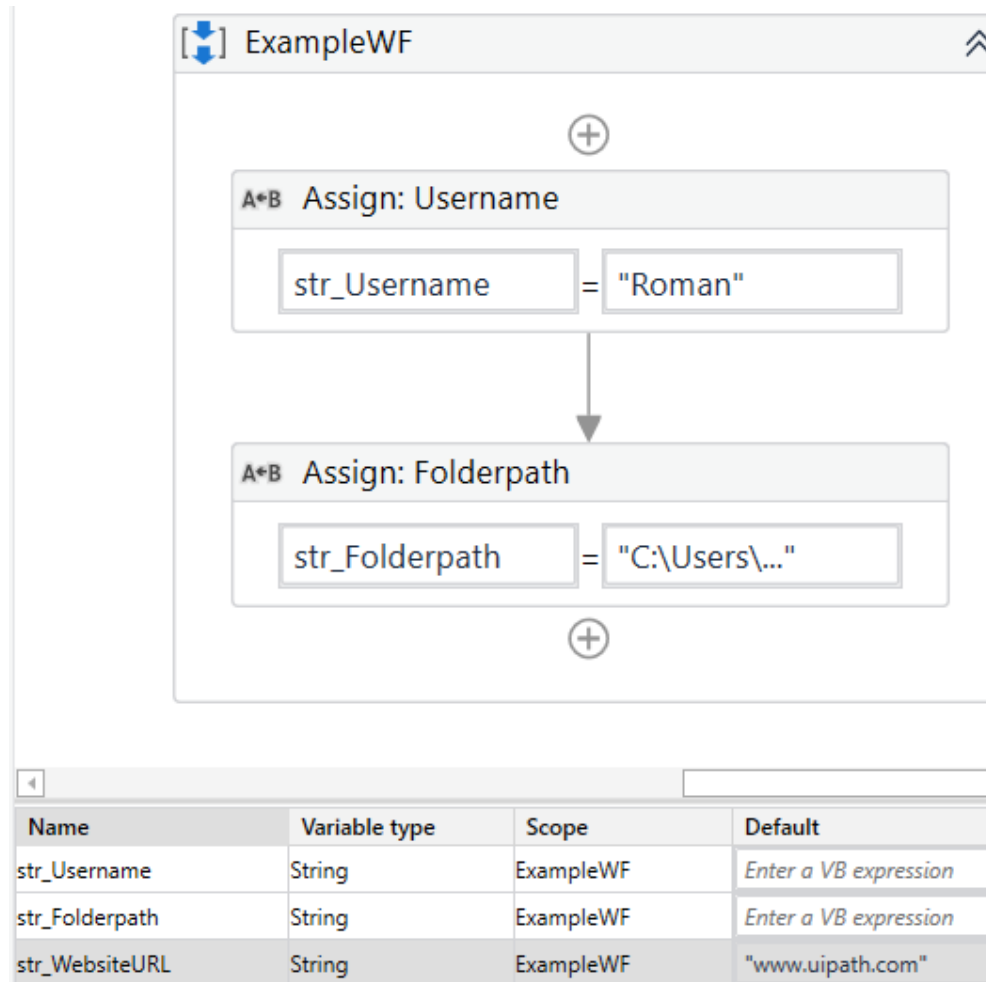
# Methods of Config

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



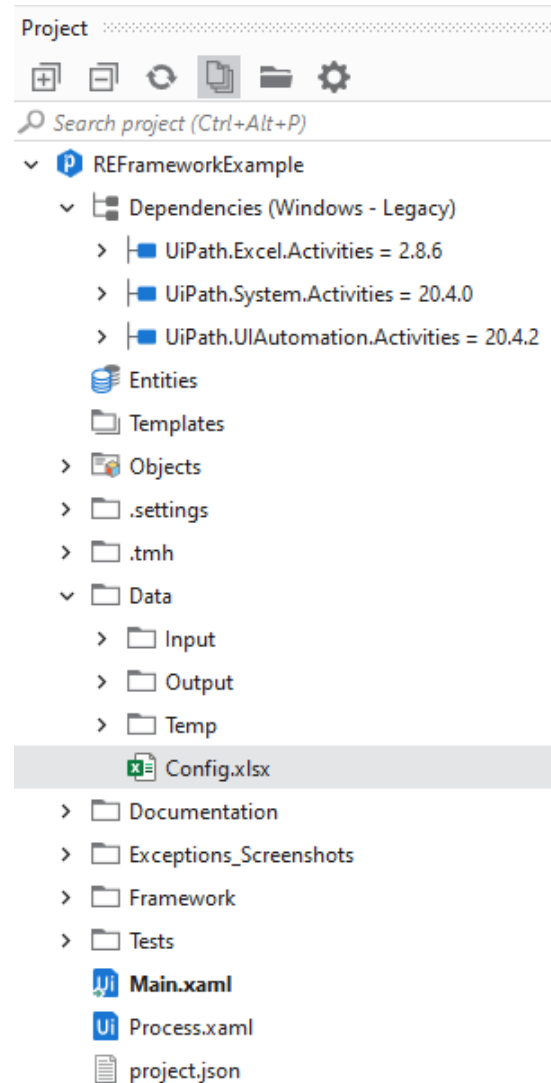
# Hard-coding

Assigning Variables and Arguments (or setting Default values)





# Excel Datatable (REF – Config)



# Expanding / «Tweaking» Excel

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

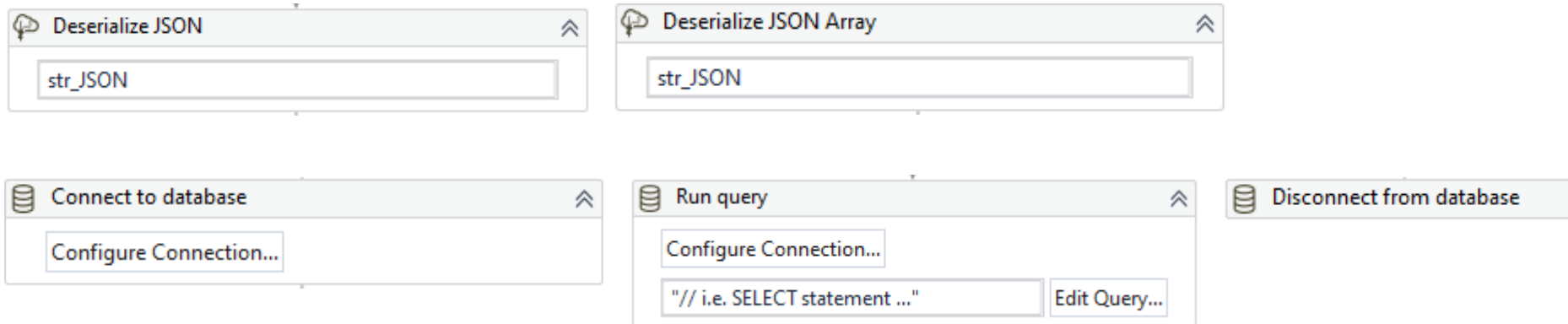
Settings

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)

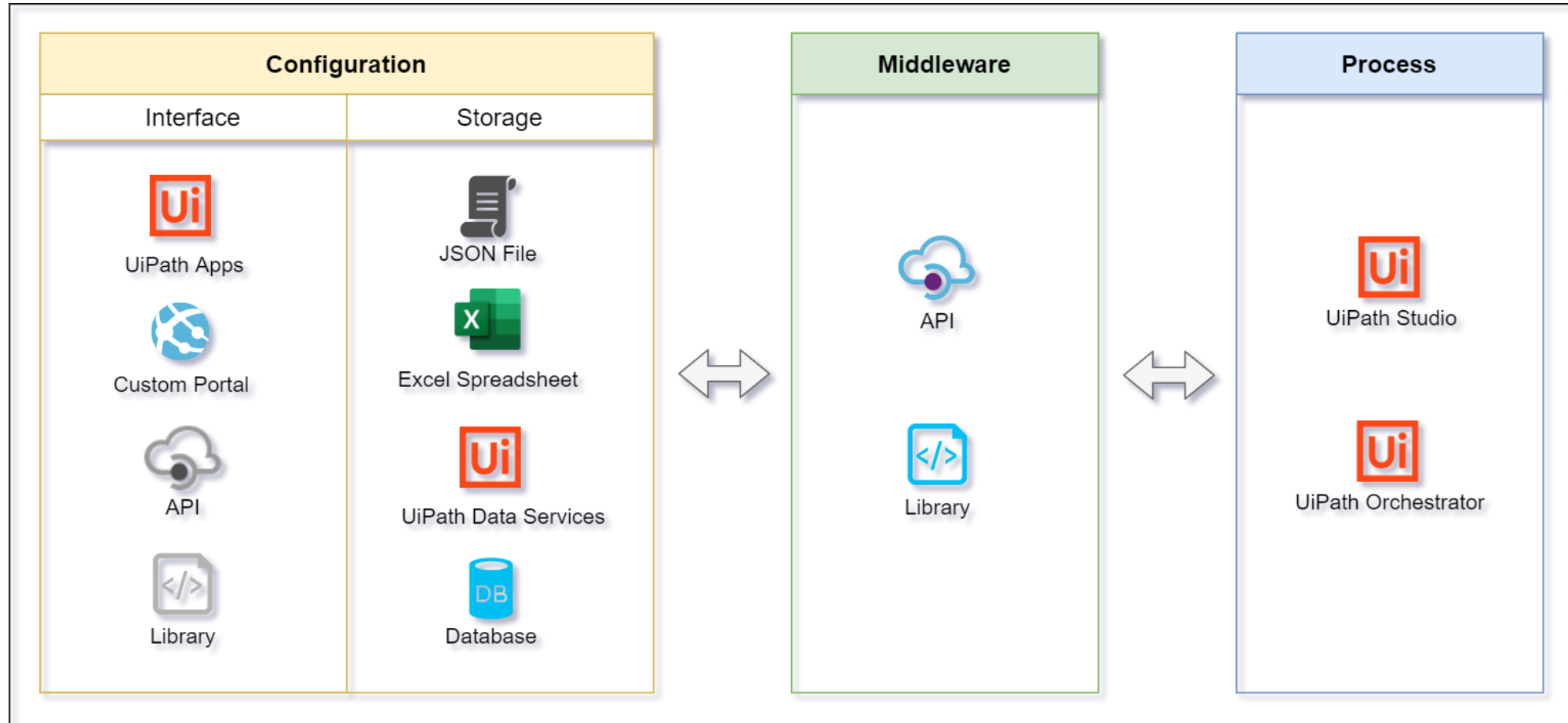




# Portal-Based Configuration Management

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"/>	ErrorReceipients	jacqui.muller@dimensiondata.com	The recipients of error notifications	  

### Dev Config Details (+)

Replicate to Prod

<input type="checkbox"/>	Name	Value	Description	
<input type="checkbox"/>	ErrorReceipients	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 <sup>1.0</sup> OAS3

#### Config

GET /api/Config/{processId}

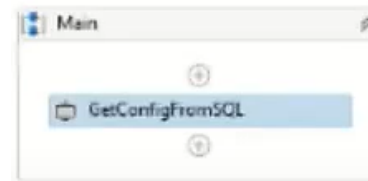
POST /api/Config

#### 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/](https://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

