Troubleshooting Manual KPU (Lessons Learned)

Enterprise Architect

Reverse Engineering against git Repo

When using Enterprise Architect for Reverse Engineering (Code Engineering -> Import Source Directory), classes from other git branches in the same repository are automatically included in the diagrams.

For example, if there is a Development branch as well as a Master branch at the same time, EA will also find and include classes only present in one of the two branches.

Workflow Foundation

Incompatibility with .NET Core

Workflow Foundation doesn’t work with .NET Core. Microsoft seems to have decided against making .NET Core and WF 4.5 compatible with one another.

As a temporary work-around we decided to leave our SFA-services as .NET Framework services.

Designer without x64

Workflow Designer in Visual Studio does not support showing activities that were compiled against x64. The workflows themselves run without problems however. The symptom is that once you open an activity XAML in VS, you get informed that there are supposedly errors in the XAML. Upon closer inspection you will not find any errors.

As a temporary work-around, when having to work with the designer, you need to compile KpuActivityLibrary, Kpu.Data and Kpu.Contracts against x86. Now the activities will load correctly in the Designer and can be manipulated as normal. Before deployment you need to compile all projects against x64 again.

We thought about defining workflows as DynamicActivity in code only. This brings its own problems with it – for example you’d need another form of host class as basis for the workflow and despite the effort you get no tangible benefits towards reverse engineering. When also taking into consideration time constraints we have decided against this for now.

Service Bus

Certificates

If a developer is to use a Service Bus on a server, that developer’s computer needs to have the according certificates installed. Otherwise there will be several layers of errors, including the token provider being unable to provide a token, a trust relation that could not be established and a missing or wrong certificate.