**Glossary**

**BIKS**

The initial name for the new framework

**DAIPAN**

The current name for the entire framework

**PLC/SPS**

Programmable logic controller. One type of hardware that can be used as data source

**Viewer**

The thin, on its own “dumb” application for GUI display

**Client/ModelClient**

An instance of the model and controller for multiplexing updates onto 1 to n Viewers

**WorkerEngines**

Called „workers“ in þe tongues of olde, they are a logical unit encapsulating the communication to a single PLC. They’re defined via a WorkerDefinition.xml file.

**EngineGroups**

Originally called “WorkerGroups“ they aggregate 1 to n WorkerEngines into a grouping. They’re defined via a GroupDefinition.xml

**WorkerDefinition.xml**

The definition file for a WorkerEngine. It contains a structured description of the inputs and outputs of a Knowledge Processing Unit (KPU).

**KPU / Knowledge Processing Unit**

A microservice designed for automated reception, transformation and transmission of (possibly structured) data. A KPU is typically designed as a workflow. Currently employing Microsoft Workflow Foundation which has long since fallen out of favor from Microsoft and should sooner or later be replaced by another workflow engine.

**Security**

A component of the assistant containing the session management for the communication interface used by the viewers. Furthermore, contains the components to secure that communication against attacks.

**Init Handshake**

**The first information package sent by a viewer to the URI configured to be the communication endpoint of the assistant. This happens right at the start of the viewer for it to check the availability of the assistant / correct configuration of the URI**

**Login**

**The (usually manually triggered) step after the initial handshake to authenticate the viewer via user credentials entered by a user. The credentials are then routed and checked via communication -> security -> access control -> identity provider.**

**I.I.S.B.**

**Intelligence Industry System Breanos. Surrogate name for B.I.K.S. Was invented during a discussion.**

**I.D.A.M.**

**Industrial Dynamic Assistant Management. Surrogate name for A.D.A.M.**

**Was invented during a discussion.**

**SFA Service**

**Each component of the assistant is run as a (micro-)service in the Service Fabric application deployed onto the Azure Service Fabric by Microsoft.**

**SFA Application**

**All SFA services are deployed into a SFA Application. They can be reached via a fabric URL. A valid fabric URL can be e.g. “fabric:/Blackboard”.**

**“Session”**

**Connects one or several engine groups with one or several clients in a sort-of observer pattern so updates from the engine groups reach the clients.**

**External Communication / “ECOM”**

**ACS / Access Control Service**

**The micro service that handles permission checks, credentials and so on in conjunction with some Identity Provider, e.g. the Breanos Identity Provider (BIP)**

**BIP / Breanos Identity Provider**

**One implementation of the IdentityProvider interface which is used to encapsulate “user”- and “group”-semantics/concepts. There can be different identity providers but only one should be used at one time**