SABSA ® Security Architecture Extension

Disclaimer

The guidelines contained in this document are based on 14.x and 15.0 of Enterprise Architect (EA). Version 3.6.x of the *SABSA Architecture Extension* has been successfully tested for deployment with these versions of EA.

This deployment, as well as the current User Guide, may or may not be applicable to any later version of the tool as released by the vendor, Sparx Systems. If required, updates to this software will be made available to support future versions of Enterprise Architect.

There is no guarantee that versions prior to EA 13.x will work properly. No effort will be made to support earlier releases of Enterprise Architect.

If any problems are encountered, either during installation or operation of this software, please contact us through any of the channels listed at the bottom of this document.

Dependencies

The add-in depends on the following components being installed on the system:

- Interop.EA.dll (part of the standard Sparx installation files).
- Microsoft .Net Framework 4 Client Profile.

Limitations of the trial version.

The software activation is granted for eight (8) consecutive days only. After expiration the SABSA ® Security Architecture MDG Technology will no longer be loaded into Enterprise Architect.

Installation

The installation process is the same for both the trial and the full version.

First, **exit any running instances of Enterprise Architect**, then launch the “setup.exe” program and follow the on-screen instructions.

The installation will attempt to update the Windows registry, so the User needs to ensure that s/he has sufficient privileges to run the setup program.

The recommended install path is to place the DLL and any supporting files in an *Addins* folder in the Sparx Systems installation directory, e.g.

C:\Program Files (x86)\Sparx Systems\Addins.

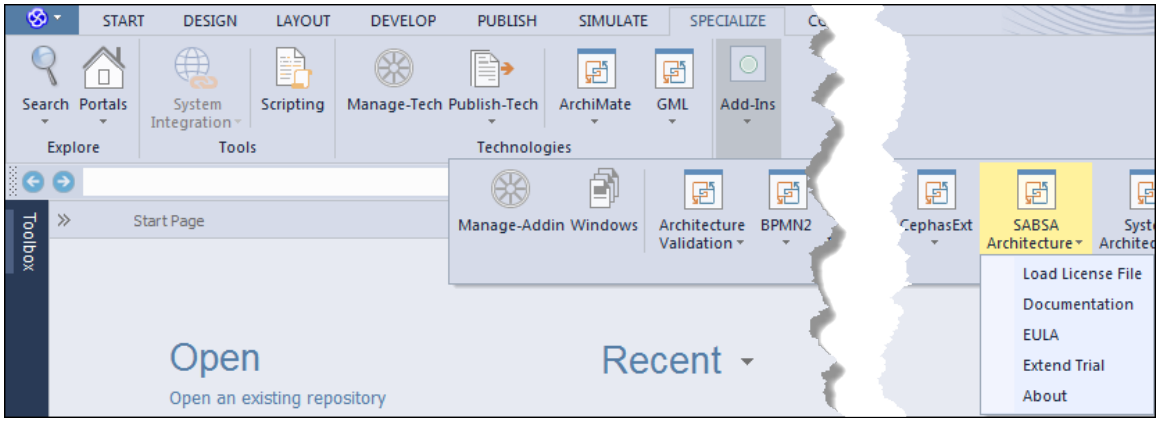
Note that older versions of the software are automatically removed and replaced.

Should the installation fail for any reason other than insufficient User privileges, please take appropriate screenshots and email the data to the support address listed at the bottom of this document.

Verifying the installation

Bring up Enterprise Architect, without necessarily opening a repository, and verify that:

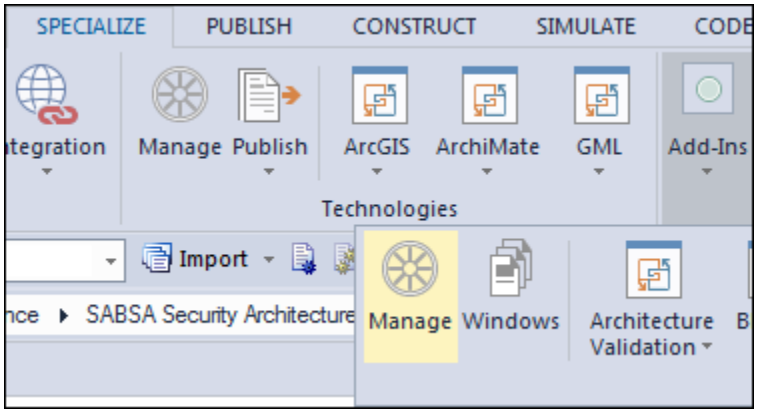
Locate the *SABSA Architecture* entry in the SPECIALIZE ribbon (shown here for version 15.0):



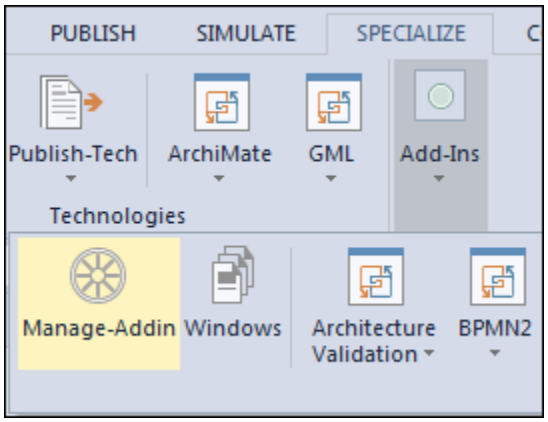
Note that additional extensions may or may not be present, depending on your Enterprise Architect version and configuration.

Should the menu entry **not** be present, open the SPECIALIZE ribbon:

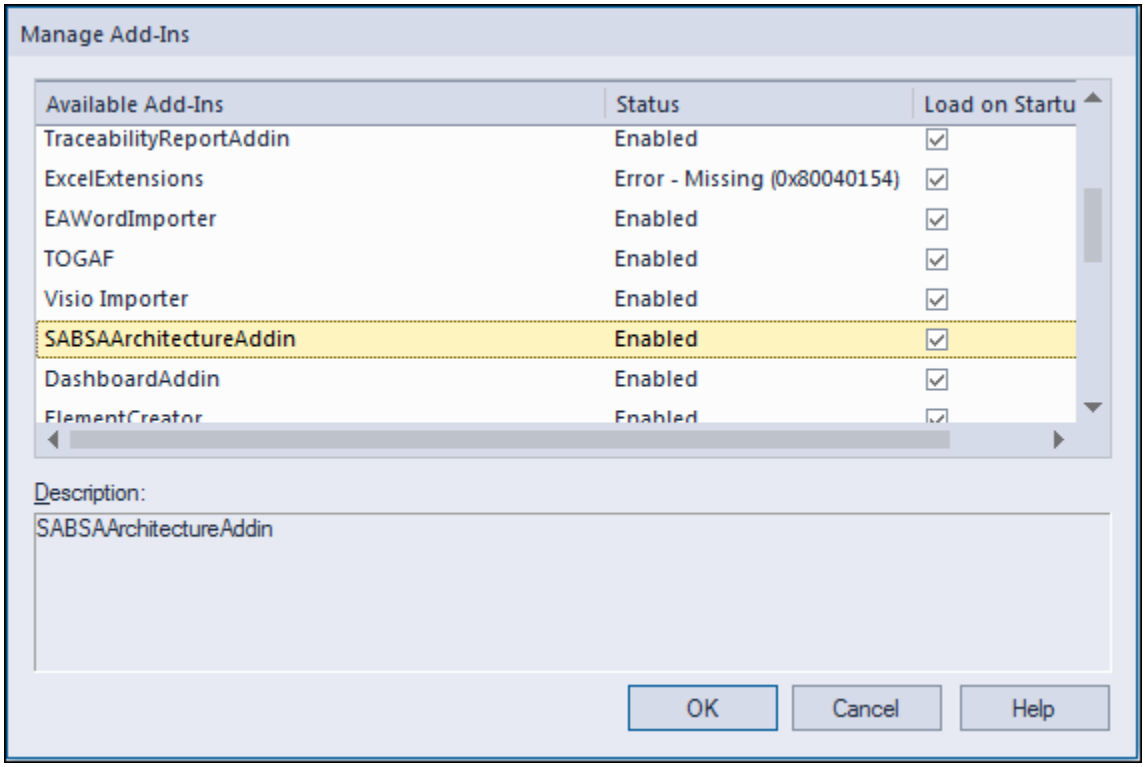
In EA 14.x, select:



In EA 15.0, select:



And confirm that the *SABSA Architecture* extension is loaded and enabled:



If an error status is shown, as in the image above for the Excel extension, this typically means that either:

- The installation process failed and that the DLL cannot be located in the Windows registry, or in the file system.
- The installation did succeed but the DLL file was later moved or deleted.

If the *SABSA Architecture* entry itself is not found, then the extension installation did not complete successfully.

To fix an incorrect installation:

- Exit out of all instances of Enterprise Architect.
- Launch the setup process again. The installer will automatically provide a repair option:

If, after the repair procedure, the *SABSA Architecture* extension is still not loaded correctly in Enterprise Architect, remove the program through the Windows control panel and start the installation process over.

At the completion of a successful installation the following files are present in the selected directory (date modified and size properties may be different from what is shown here):

Name	Date modified	Size	Type
Cephas_Software_EULA.pdf	4/21/2016 3:50 PM	60 KB	Adobe Acrobat Docu...
Cephas_Software_EULA.rtf	4/21/2016 3:49 PM	126 KB	Rich Text Format
cephas-logo-h-banner.jpg	6/2/2016 12:26 PM	7 KB	JPG File
register_SABSAArchitectureAddin.bat	10/3/2018 8:56 AM	1 KB	Windows Batch File
SabsaArchitectureAddin.dll	10/30/2018 11:43 ...	3,994 KB	Application extension
SabsaArchitectureAddin.tlb	10/30/2018 11:43 ...	7 KB	TLB File
SABSASecurityArchitectureExtension.pdf	10/3/2018 10:08 AM	611 KB	Adobe Acrobat Docu...
SABSASecurityArchitectureFramework.xml	9/27/2018 11:20 AM	3,015 KB	XML File
Unregister_SABSAArchitectureAddin.bat	2/28/2017 9:52 AM	1 KB	Windows Batch File

Installing the license key file

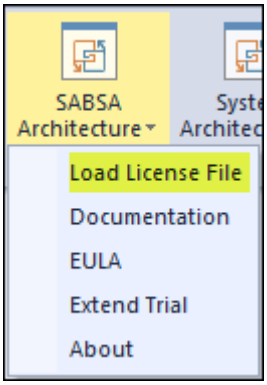
Trial version

The software installation automatically loads the trial version license key. Skip to the Adding the User license Key section.

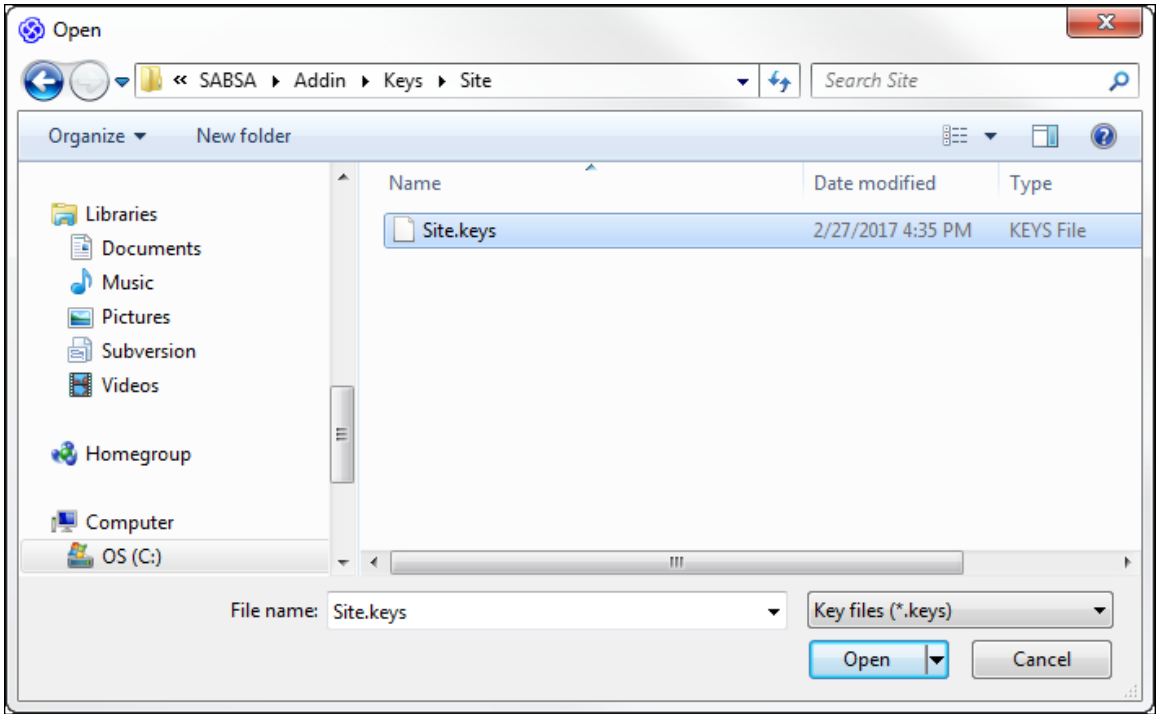
Licensed version

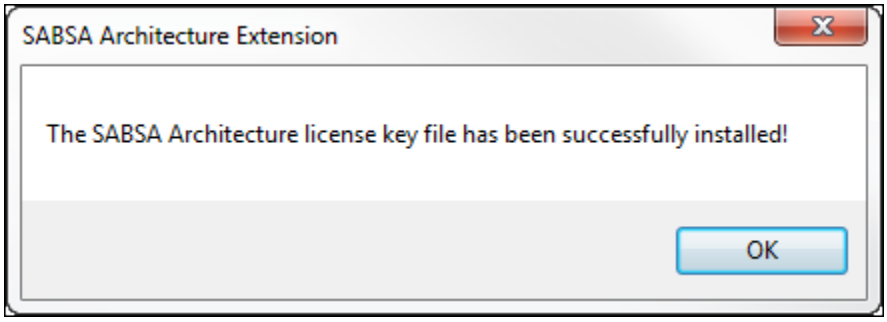
Once the full version of the product has been purchased, a *<license type>.keys* file will be provided by Cephas Consulting which needs to be installed **by each User of the software**, even if a floating or site license key is acquired.

To install the license key file, open Enterprise Architect and in the SPECIALIZE → Add-Ins ribbon panel, select:



Next, select the provided file from the folder in which you copied it. For example, for a site license:





After installing the license key file, continue with the next section.

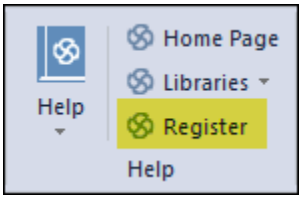
Adding the User license key

Trial, Fixed and Site Licenses

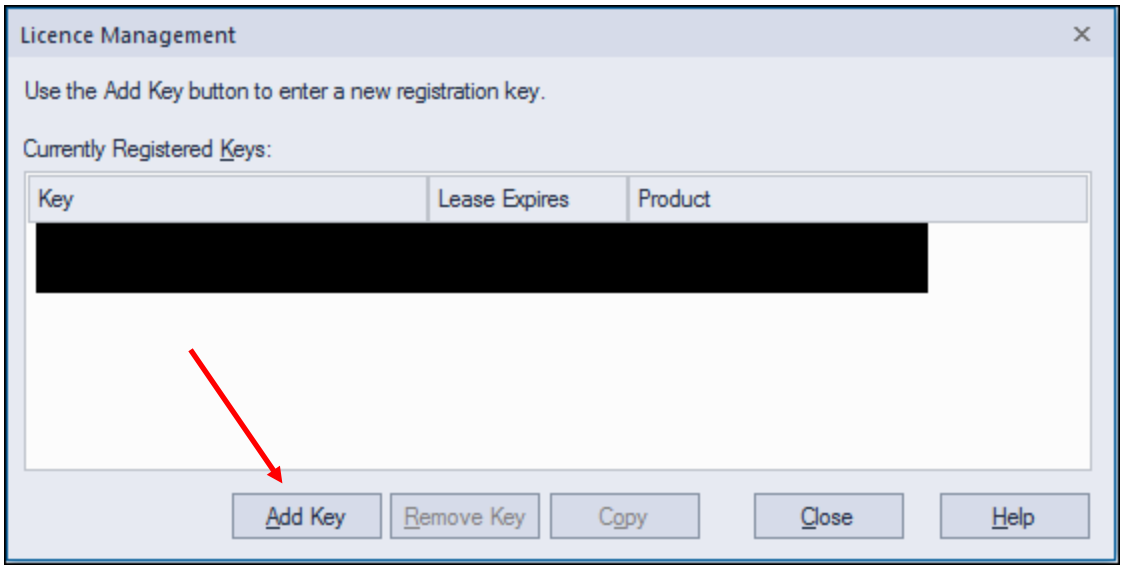
The following step is required for the trial, the fixed as well as the site license of the product, in order to make Enterprise Architect verify the software license.

See here for how to install floating licenses.

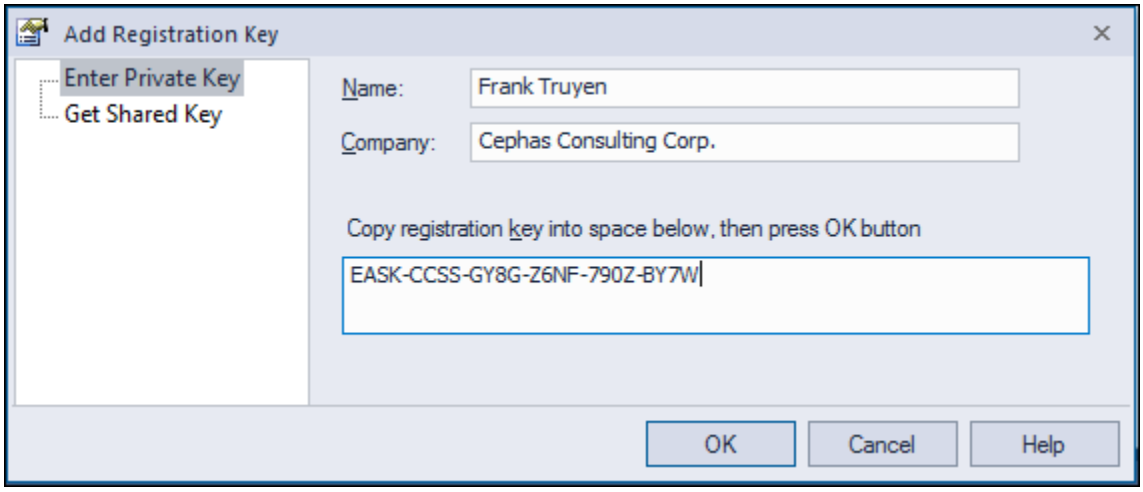
Under the Help panel of the START ribbon, select:



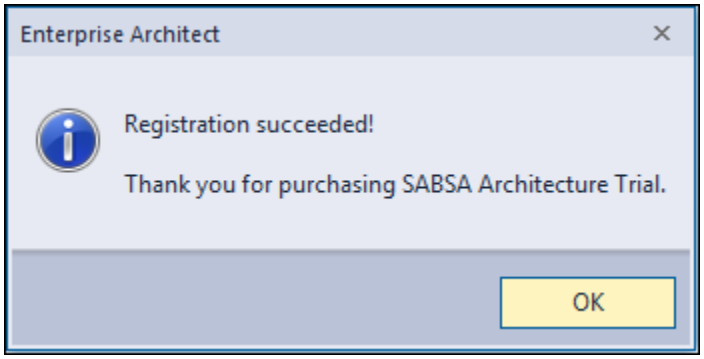
Next, click “Add Key”:



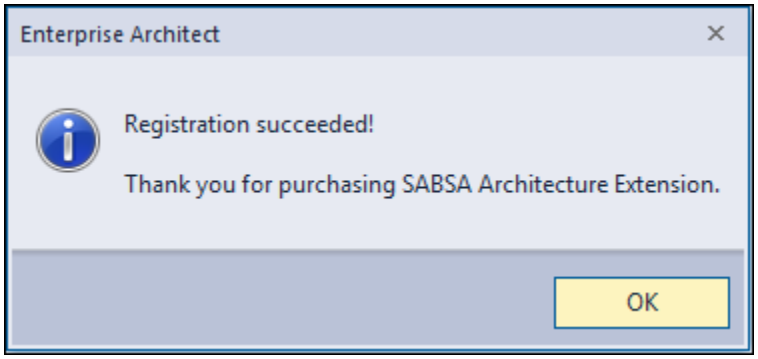
Enter or copy/paste, either the trial key (shown below), or one the full version keys provided as part of the software purchase:



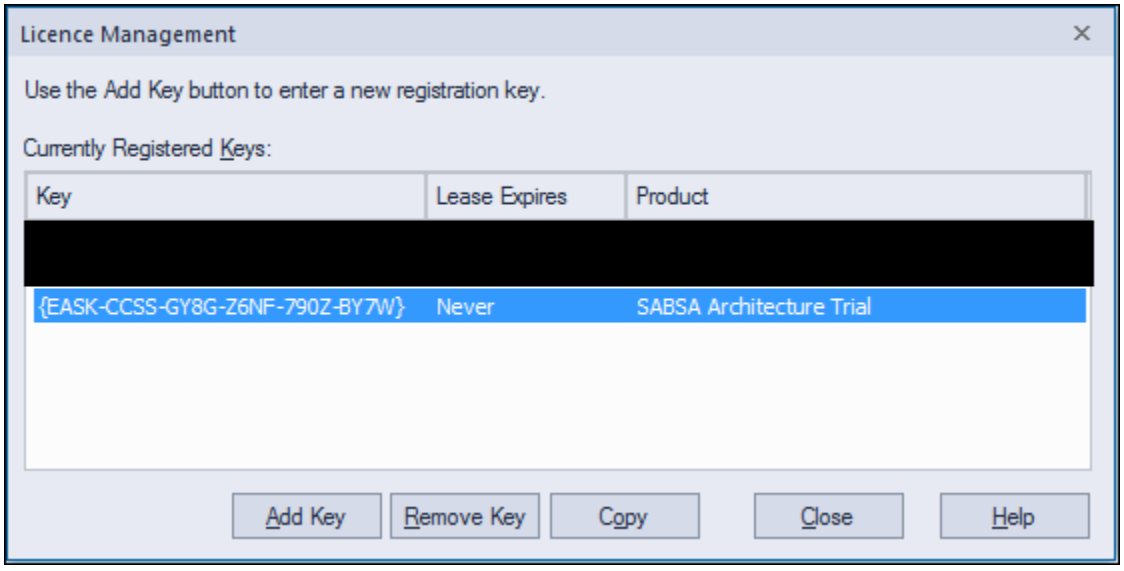
Enterprise Architect will confirm the successful addition of a key:



Or

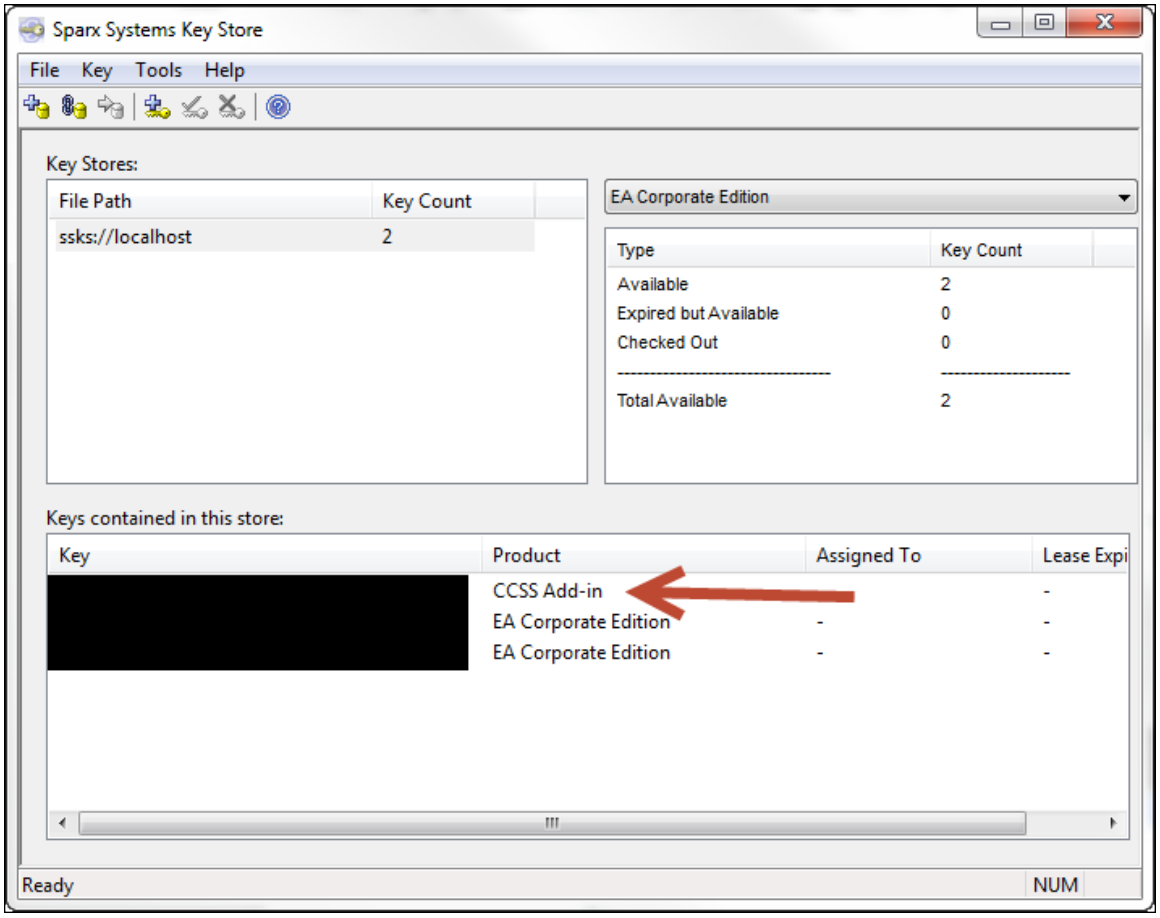


The license is now added to the registered keys:

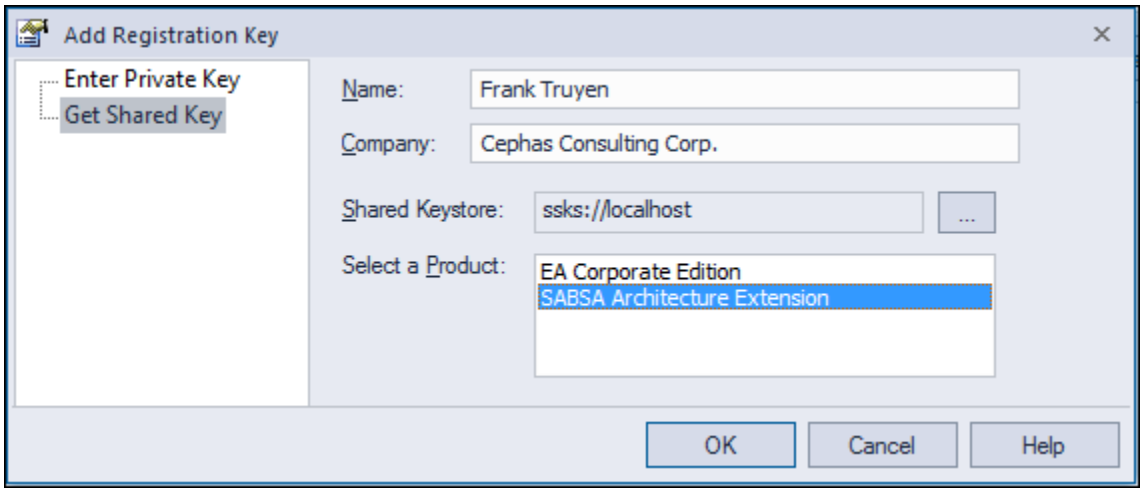


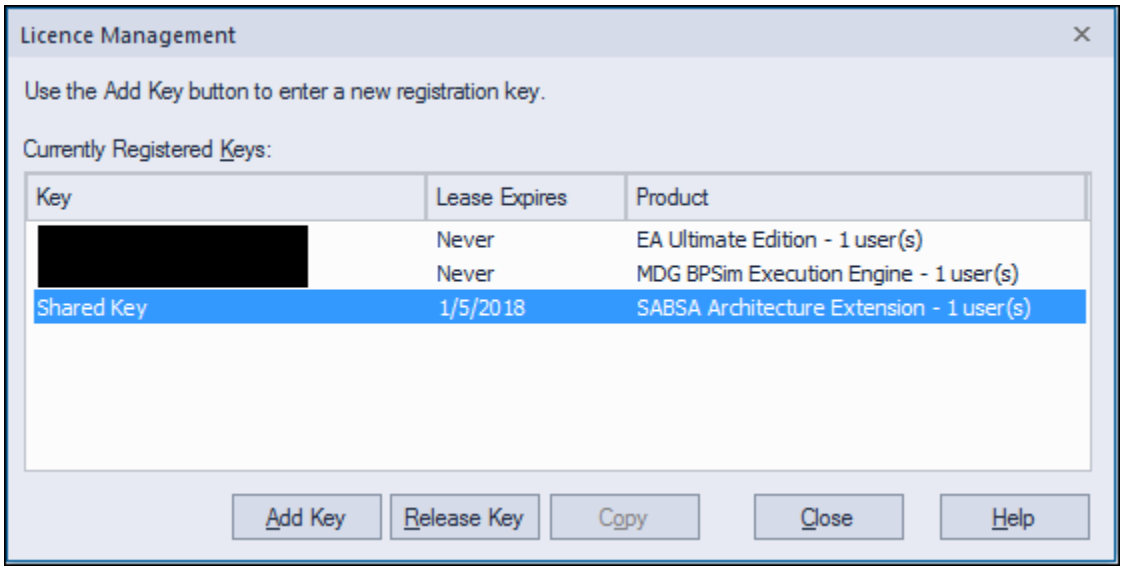
Floating Licenses

First the administrator needs to add the key/s to the Sparx System key store (**version 2.3 or higher**), using the same process as for Enterprise Architect license keys:

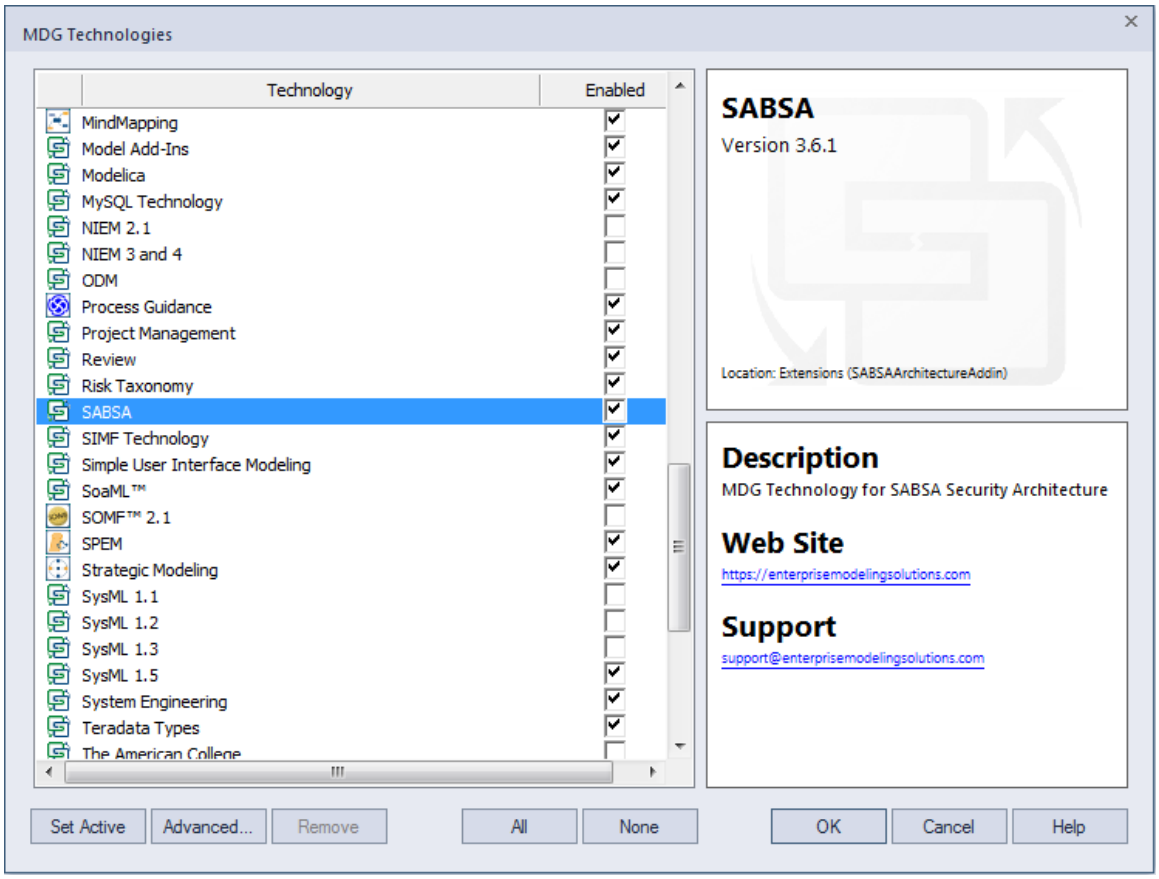


Individual Users can then obtain a key from the store using the “Get Shared Key” tab:





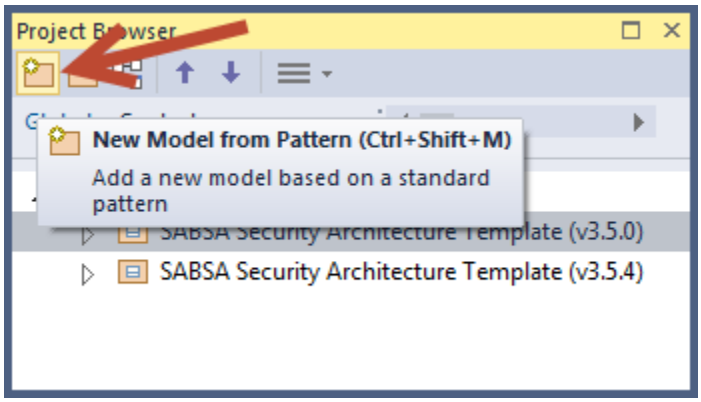
Next **exit the Enterprise Architect tool** and **restart it** in order to load the MDG Technology for SABSA Architecture. You can then verify its status from the SPECIALIZE → Technologies → Manage (version 14.x) or → Manage-Tech (version 15.0) ribbon panel:

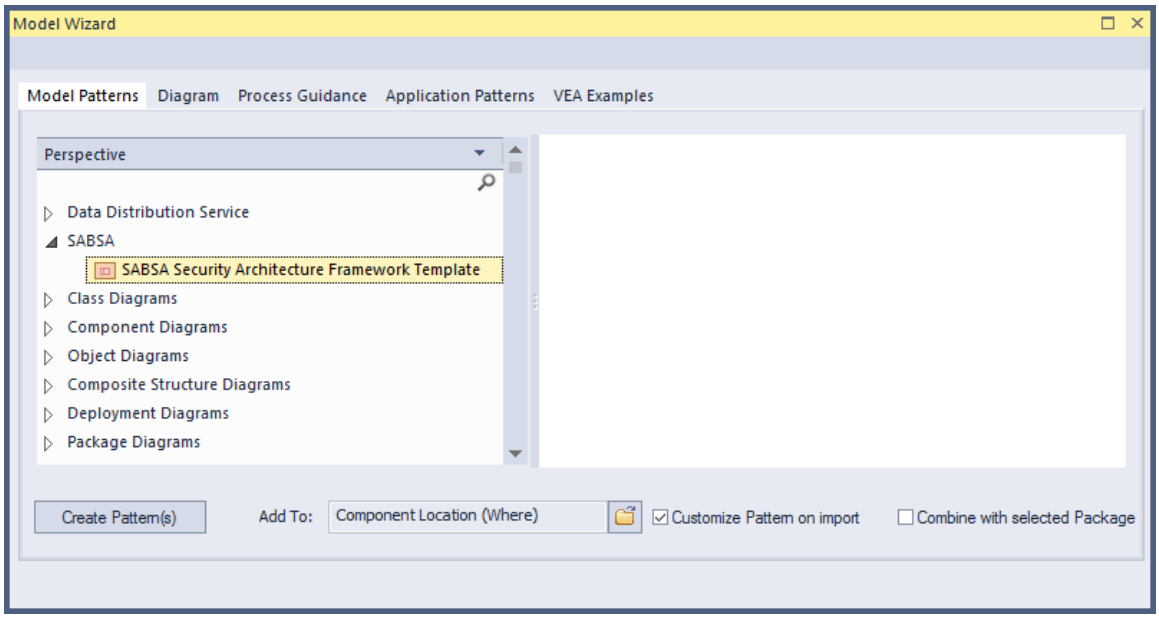


Using the MDG Technology

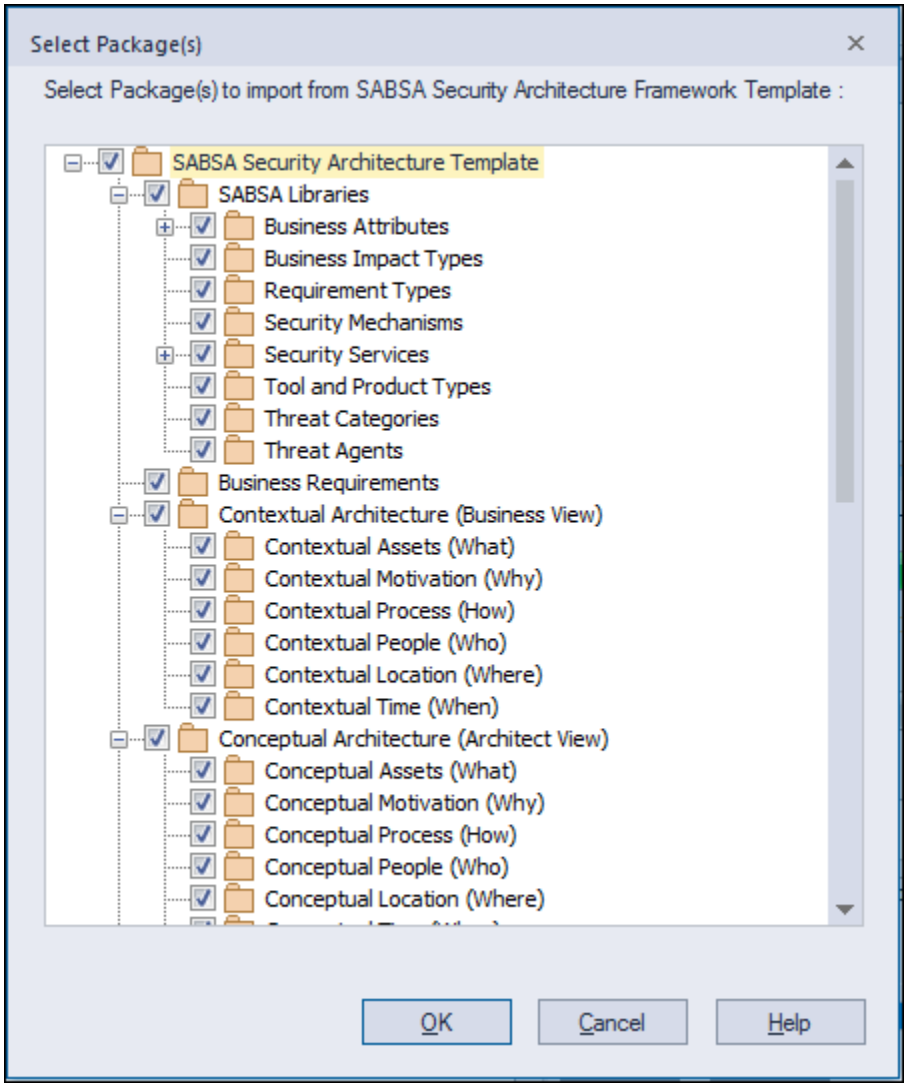
Once the Technology is loaded you can add an instance of the SABSA Security Architecture Framework Template (including the libraries) to your repository using the *Model Patterns* tab of the Model Wizard.

With the *All Perspectives* selected:



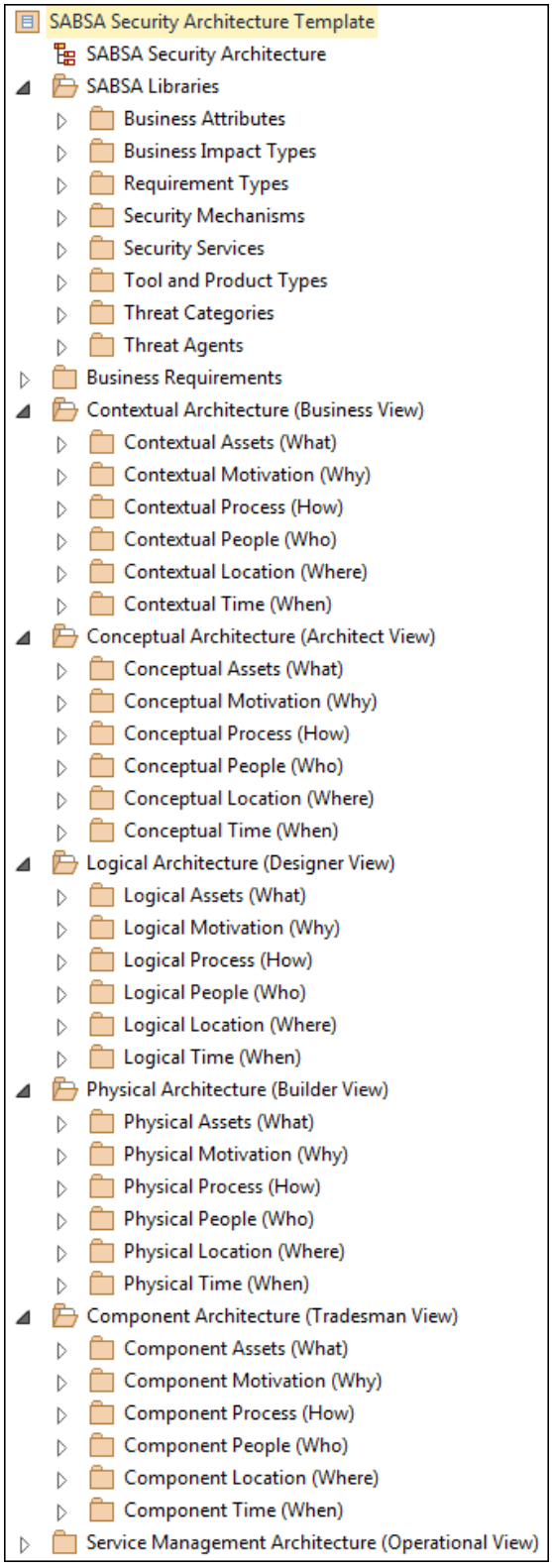


Optionally, customize which parts of the framework to install:



If you create multiple instances of the framework in the same repository/database (e.g. for different projects), it is recommended to reuse the same SABSA Libraries folder structure (e.g. to uncheck that part in the above screenshot) in order to avoid duplicate definitions.

The import will create the following folder/package structure:

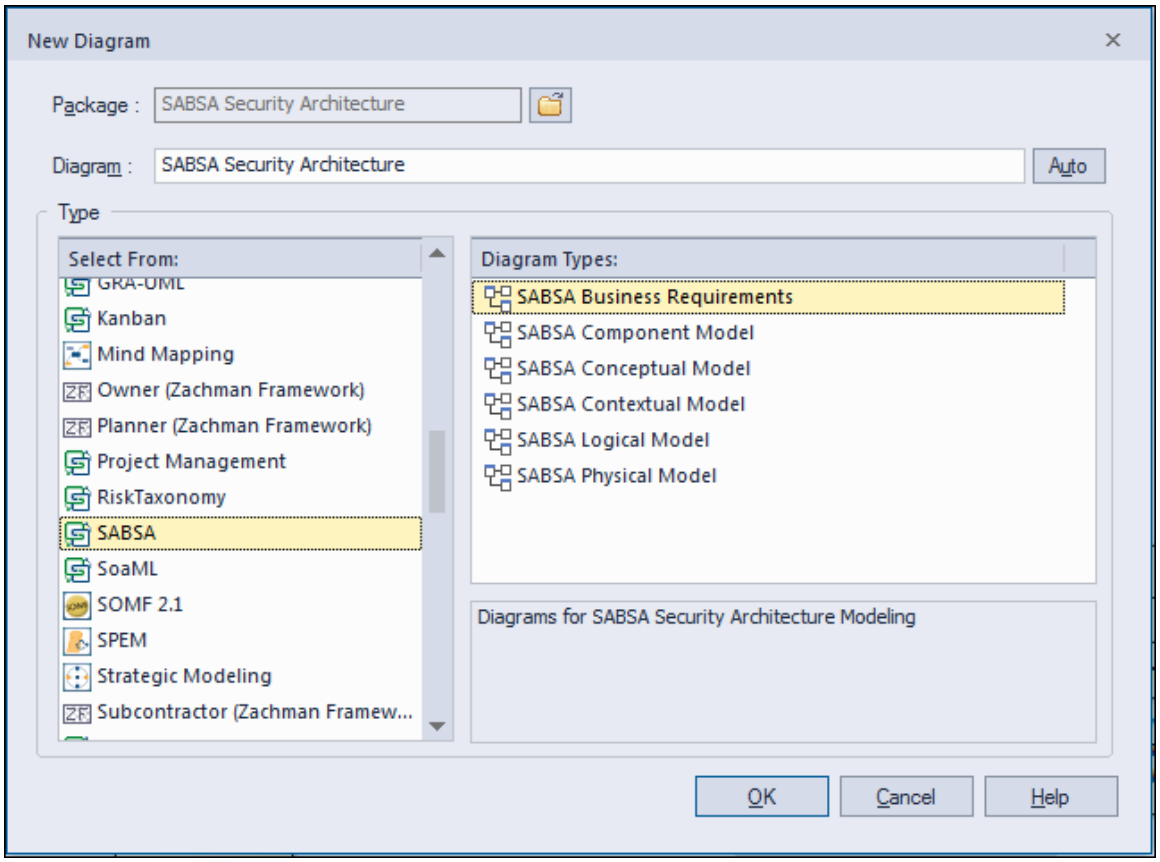


The top level diagram of the framework represents a dashboard to facilitate the navigation of the folder structure and its prebuilt diagrams:

SABSA Framework	**ASSETS** (What)	**MOTIVATION** (Why)	**PROCESS** (How)	**PEOPLE** (Who)	**LOCATION** (Where)	**TIME** (When)
CONTEXTUAL ARCHITECTURE	Business Decisions	Business Risk	Business Processes	Business Governance	Business Geography	Business Time Dependence
	Taxonomy of Business Assets, including Goals & Objectives Contextual Assets Model	Opportunities & Threats Inventory Contextual Motivation Model	inventory of Operational Processes Contextual Process Model	Organizational Structure & Extended Enterprise Contextual People Model	Inventory of Buildings, Sites, Territories, Jurisdictions, etc. Contextual Location Model	Time dependencies of business objectives Contextual Time Model
CONCEPTUAL ARCHITECTURE	Business Knowledge & Risk Strategy	Risk Management Objectives	Strategies for Process Assurance	Roles & Responsibilities	Domain Framework	Time Management Framework
	Business Attributes Profile Conceptual Assets Model	Enablement & Control Objectives; Policy Architecture Conceptual Motivation Model	Process Mapping Framework; Architectural Strategies for ICT Conceptual Process Model	Owners, Custodians and Users; Service Providers & Customers Conceptual People Model	Security Domain Concepts & Framework Conceptual Location Model	Through-Life Risk Management Framework Conceptual Time Model
LOGICAL ARCHITECTURE	Information Assets	Risk Management Policies	Process Maps and Services	Entity & Trust Framework	Domain Maps	Calendar & Timetable
	Inventory of Information Assets Logical Assets Model	Domain Policies Logical Motivation Model	Information Flows; Functional Transformations; Service Oriented Architecture Logical Process Model	Entity Schema; Trust Models; Privilege Profiles Logical People Model	Domain Definitions; Inter-domain associations & interactions Logical Location Model	Start Times, Lifetimes & Deadlines Logical Time Model
PHYSICAL ARCHITECTURE	Data Assets	Risk Management Practices	Process Mechanisms	Human Interface	ICT Infrastructure	Processing Schedule
	Data Dictionary & Data Inventory Physical Assets Model	Risk Management Rules & Procedures Physical Motivation Model	Applications; Middleware; Systems; Security Mechanisms Physical Process Model	User Interface to ICT Systems; Access Control Systems Physical People Model	Host Platforms, Layout & Networks Physical Location Model	Timing & Sequencing of Processes and Sessions Physical Time Model
COMPONENT ARCHITECTURE	ICT Components	Risk Management Tools & Standards	Process Tools & Standards	Personnel Management Tools & Standards	Locator Tools & Standards	Step Timing & Sequencing Tools
	ICT Products, including Data Repositories and Processors Component Assets Model	Risk Analysis Tools; Risk Registers; Risk Monitoring & Reporting Tools Component Motivation Model	Tools and Protocols for Process Delivery Component Process Model	Identities; Job Descriptions; Roles; Functions; Actions & Access Control Lists Component People Model	Nodes, Addresses and other Locators Component Location Model	Time Schedules; Clocks, Timers & Interrupts Component Time Model
SERVICE MANAGEMENT	Service Delivery Management	Operational Risk Management	Process Delivery Management	Personnel Management	Management of Environment	Time & Performance Management
	Assurance of Operational Continuity & Excellence	Risk Assessment; Risk Monitoring & Reporting; Risk Treatment	Management & Support of Systems, Applications & Services	Account Provisioning; User Support Management	Management of Buildings, Sites, Platforms & Networks	Management of Calendar and Timetable

Where possible the framework uses diagrams from standard notations such as UML®, BPMN™ 2.0, and BMM, in addition to modeling extensions provided by Sparx Systems.

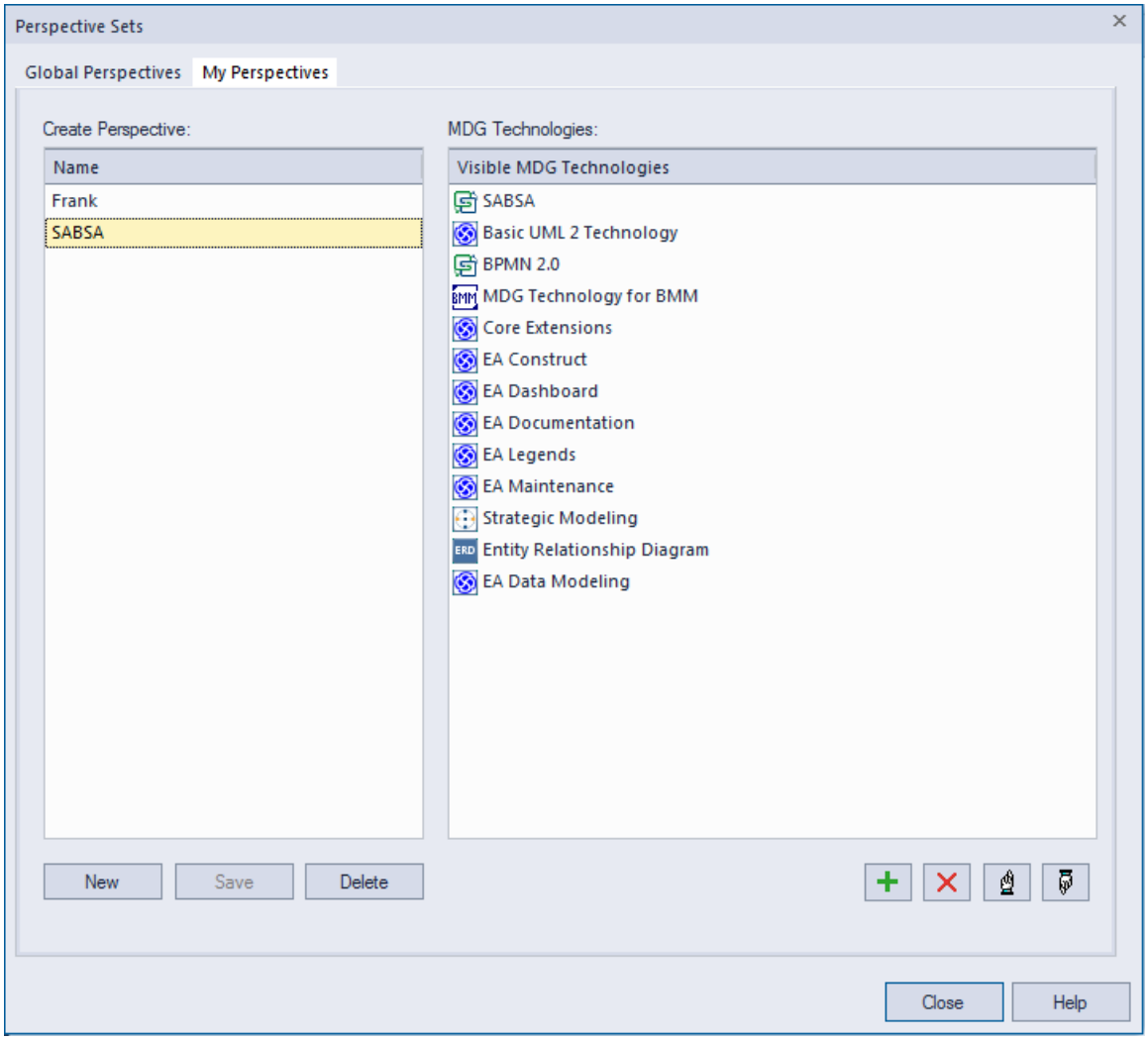
SABSA specific diagrams can be added as needed through the standard *New Diagram* interface:



Please note that the framework uses two diagram types (*Business Motivation Model* and *Business Logistics*) which may not be available in your edition of Enterprise Architect. If you do not have either of these two editions available, you will need to use alternative modeling notations (e.g. ArchiMate 3.0) to populate these cells.

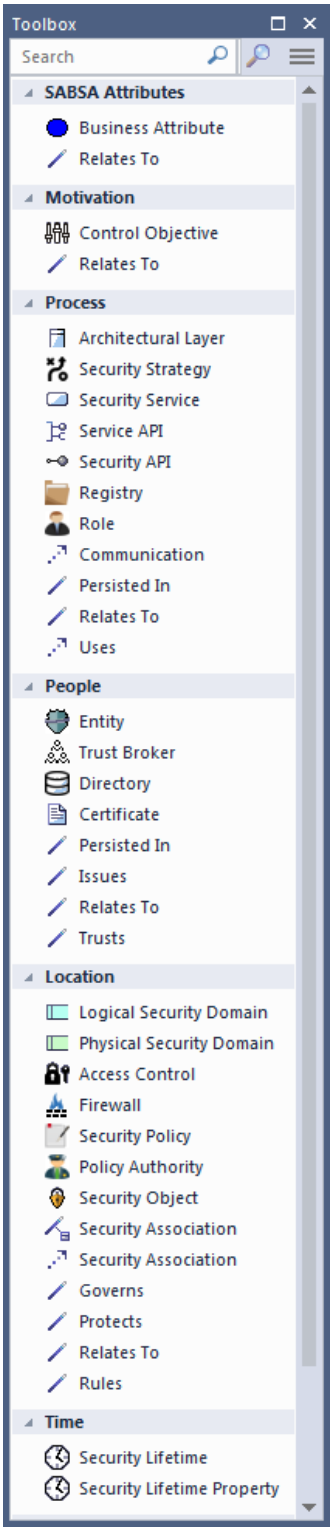
Starting with version 15.0 however the *Business Motivation Model* is included in the Corporation edition.

A custom Perspective can be defined to support not only SABSA but also the additional technologies that either are leveraged by it, or are of use to it:



Feel free to add other technologies (e.g. ArchiMate) that you are currently using.

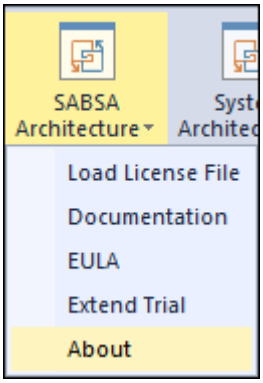
Each of the SABSA specific diagram types has its own dedicated toolbox/stencil. For example, the Conceptual Model diagram is associated with this toolbox:



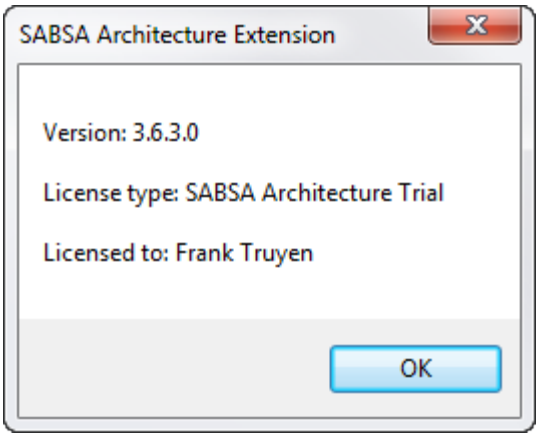
Troubleshooting

If any error is encountered while installing or using this extension, please follow this procedure:

- Take a screenshot of the error message or error condition.
- Provide the version of the SABSA Architecture extension (using the *About* menu item):



For example:



- Supply the version of Enterprise Architect being used.
- Include your operating system and any other execution environment information that may be relevant.

Support and contact information

Use the contact information below for any installation or runtime issues with the extension.

Consider taking our one-day SABSA® training course for hands-on instruction in how to model your security architecture. Alternatively, you can purchase the training material for self-paced learning.

Feature requests or suggestions for improvement are always welcome!

Contact: Frank Truyen

Email: support@enterprisemodelingsolutions.com

Phone : 714-573-7112.