

INTECA PLUGINS FOR ENTERPRISE ARCHITECT



Inteca

| IT's about business



INTECA PLUGINS FOR SPARX SYSTEMS ENTERPRISE ARCHITECT

Sparx Systems Enterprise Architect is a comprehensive CASE/BPM tool embraced by nearly one million users worldwide. As a trusted platform for modeling, design, and analysis, it has become a cornerstone for businesses aiming to visualize, analyze, and innovate.

We've taken its capabilities a step further. Our suite of plugins integrates seamlessly with Sparx Enterprise Architect, not only enhancing its core features but also transforming models into executable specifications for OpenAPI, Kafka, and Kubernetes. Beyond just model versioning and dependency management, we empower users to bridge the gap between design and deployment, making the transition from visual models to real-world applications smoother and more efficient.

Versioning Plugin

The Inteca Versioning Plugin provides a number of functionalities that are not available in the basic version of Enterprise Architect, but turn out to be very useful when working in large repositories with many modelers: The plugin extends EA with the following functionalities:



Model Versioning:

- Create and manage multiple concurrent versions of models in a single repository.
- No need to switch between baselines.



Dependency Management:

- Track and modify dependencies between different model versions.
- Update relationships to reflect the evolution of model versions.



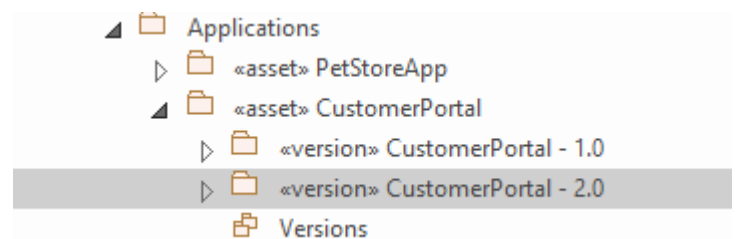
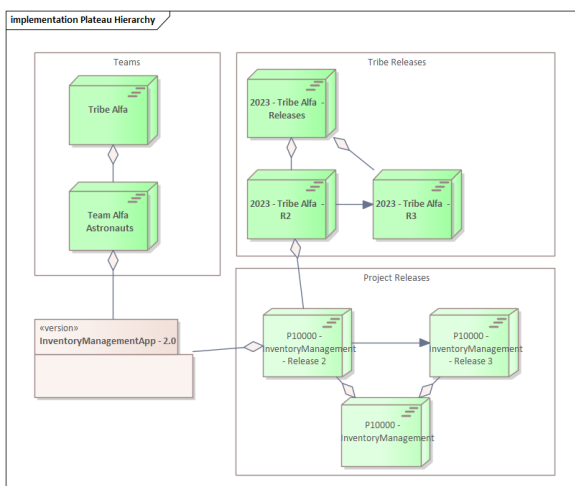
Diagram Management for Versioned Elements:

- View diagrams containing elements of a selected model version.
- Manage and update model element versions on the diagram



Model Release Analysis:

- Manage set of model versions as a Release
- Automatically analyze Model Release dependencies to manage model consistency.
- Generate reports detailing content of the Release.





Model Releasing:

- Identify new model versions for release and analyze their current relationships.
- Automatically update relations between released elements to maintain repository consistency.



Documentation Generation:

- Generate consolidated documentation for model releases (like: Release Solution Architecture, Team/Vendor Specific Change Specification Document)



Version Diff:

- Compare two versions of the model
- View comparison reports in a separate window alongside Enterprise Architect
- Easily filter, search, group results, and limit displayed attributes.
- Export comparison results to Excel.
- Compatible with both Inteca Versioning Plugin and the classic baselines of Enterprise Architect






Plateau			
Element	Type	Stereotype	Version
compo			
Plateau: P10000 - InventoryManagement - Release 1			
InventoryMgmApp	Component	application	1.0
InventoryMgmLogic	Component	Logic	1.0
Plateau: P10000 - InventoryManagement - Release 2			
InventoryMgmApp	Component	application	2.0
InventoryMgmLogic	Component	Logic	2.0
CustomerPortal	Component	application	2.0
CustomerPortalBac...	Component	Logic	2.0
CustomerPortalFro...	Component		2.0
Plateau: P10001 - PetStoreApp - Release 1 - New Component			

Compare with Baseline					
Drag a column here to group by this column.					
Name	Type	Status	Stereotype	Date modified	
Contains:	Contains:	Contains:	Contains:	Contains:	Contains:
InventoryManagementApp - 2.1	Package	Changed	version		
Interfaces	Package	Changed			
InventoryMgm	Interface	Changed	OpenApiInterface		
Links	Links	Child changed			
Dependency	Dependency	Baseline only			
Operations		Child changed			
getOrderByCategory(string)	Operation	Changed	GET		
getOrderById(string)	Operation	Changed	GET		
updateOrder(Order)	Operation	Model only	PUT		
Integration Architecture	Package	Changed			
Integration Architecture		Model only			
Visual Elements	Visual Elements	Model only			
Visual Connectors	Visual Connectors	Model only			
Data Model	Package	Changed			
Domain	Package	Changed			
Category	Class	Changed			
Item	Class	Changed			
Order	Class	Changed			
Domain	Logical	Identical			
Messages/Services	Package	Changed			
Fault_Message	Package	Changed			
FaultMessage	Class	Changed			

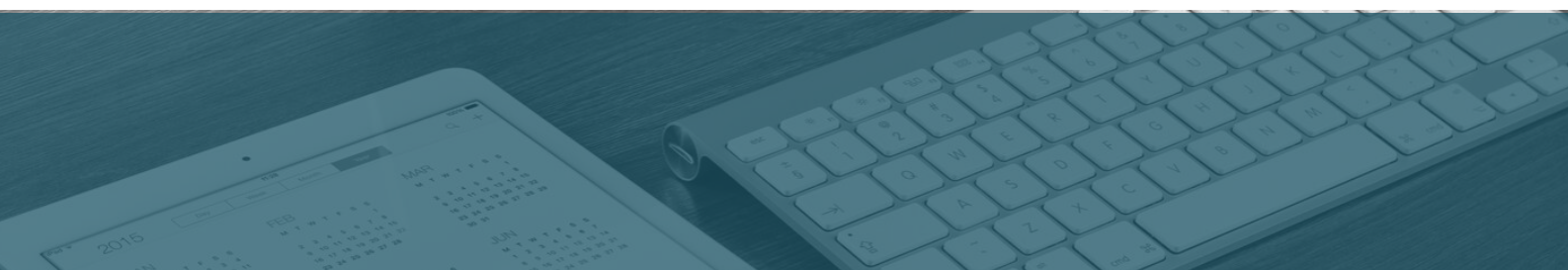
Export to excel

Toggle Rows Expansion

OpenAPI Plugin

-  Generating OpenAPI 2.0 (Swagger)/ OpenAPI 3.0 specifications based on EA models
-  Importing OpenApi/Swagger specifications to model
-  Generating JSON Schemas out of EA Models
-  Built-in UML / Swagger type mapping with customized configuration
-  API call example editor based on the UML model

One of the main elements of architecture that are managed are the models of services provided in the organisation. Components and services are designed in UML language in a uniform way, regardless of the target implementation method (e.g. REST or SOAP , Messaging). The designer focuses on understanding the domain model and designing services in a way that will give the greatest benefit and convenience to consumers. With OpenAPI Plugin, models are converted to executable specifications (OpenAPI/Swagger/JSON Schema) with one click using our plugin.

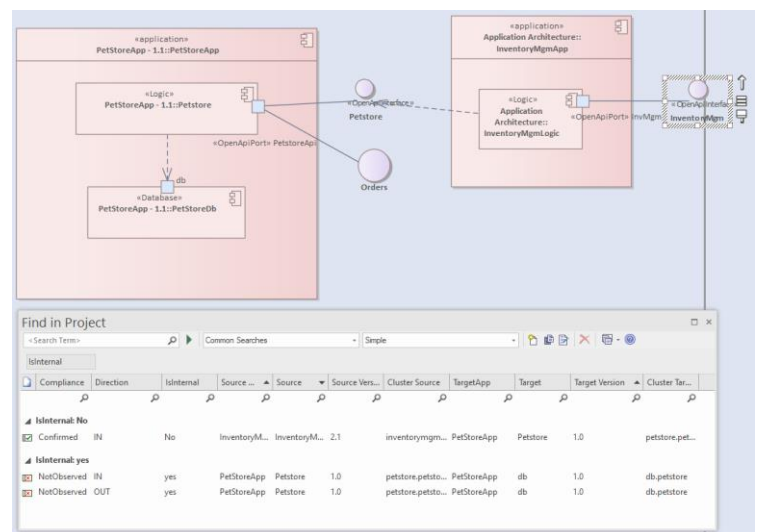


EAK8S - EA Plugin for Kubernetes

- ✓ Generate Kubernetes Deployment artifacts for CI/CD pipelines from Visual Architecture Models in Enterprise Architect.
- ✓ Compare model state to cluster environment state
- ✓ Automatic Solution Architecture Compliance Check
- ✓ Verify component dependencies and update EA model based on runtime state

EAK8S is a plugin allowing to connect Enterprise Architect to Kubernetes runtimes. The plugin facilitates the DevOps approach driven by the visual modeling in EA. The Design & Architecture models could be automatically converted into Kubernetes deployments,

according to configurable templates. Once deployed, the running solution could be examined in the cluster by verifying solution components. Application boundaries and component dependencies could be tracked automatically. The actual observed dependencies could be imported into EA models.



EA Plugin for Kafka



Generating Avro Schemas



Importing existing Avro Schemas to EA to support model driven design.



Support for the ProtoBuf (coming soon)






Modeling patterns for Kafka

Convert UML class models to Avro and ProtoBuf schemas.

Reuse your OpenAPI / SOA / WSDL / XML Schema solution models to generate schemas for messaging and stream processing applications.

SOA Plugin

-  UML profile for ISO20022 for financial institutions
-  Transformation of Enterprise Architect models to ISO20022 compliant WSDL/XSD specifications
-  Support for the repository of business components, news and services components
-  Compliance with BIAN (Banking Industry Architecture Network)

Inteca SOA Plugin enables designing services for the banking sector in accordance with ISO20022 and BIAN. The functionality of the plugin allows to build message models for business services on a class diagram compliant with ISO20022 (UML profile for ISO20022) and to transform these models into the representation of messages in XSD-compliant ISO2002, and then generate WSDL files (service contracts) together with textual documentation.



Inteca
IT's about business

We assist our customers End to End,
starting from business requirement to a
complete solution running in production

Every day we solve complex problems in
the name of our mission delivering
business value through the use of
information technology.

**HOW CAN WE SUPPORT
YOUR ORGANIZATION?**



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