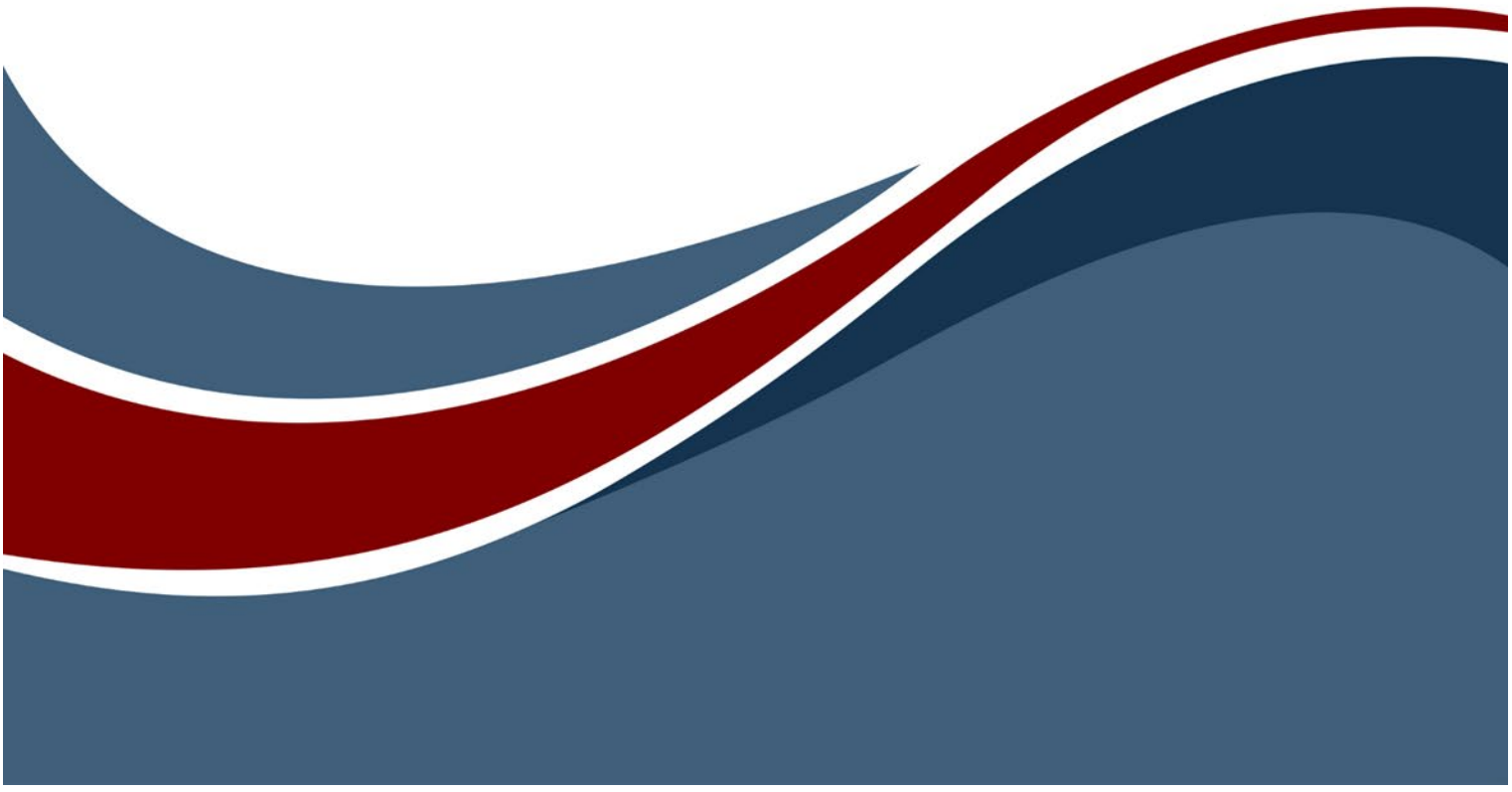
GENESYS™2024

Security Classification Schema Extension User Guide



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Zuken Vitech Inc.
2270 Kraft Drive, Suite 1600
Blacksburg, Virginia 24060
+1 540 951 3322 | Fax: +1 540 951 8222
www.vitechcorp.com

Customer Support:
+1 540 951 3999 | support@vitechcorp.com

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CUSTOMER RESOURCE OPTIONS

Supporting users throughout their entire journey of learning model-based systems engineering (MBSE) is central to Vitech's mission. For users looking for additional resources outside of this document, please refer to the links below. Alternatively, all links may be found at www.vitechcorp.com/online-resources/.

[Webinars]

Immense, on-demand library of webinar recordings, including systems engineering industry and tool-specific content.

[Screencasts]

Short videos to guide users through installation and usage of GENESYS.

[A Primer for Model-Based Systems Engineering]

Our free eBook and our most popular resource for new and experienced practitioners alike.

[Help Files]

Searchable online access to GENESYS help files.

[Technical Papers]

Library of technical and white papers for download, authored by Vitech systems engineers.

[Technical Support]

Frequently Asked Questions (FAQ), support-ticket web form, and information regarding email, phone, and chat support options.

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1. PURPOSE

The Security Classification Schema extension was developed to allow users the ability to associate a security level or classification to entities in the system design. This extension is included in the Capability Architecture Development Schema and the UAF Schema by default since many of the attributes are used in these two frameworks. We have made the standalone schema changes available for users developing a systems architecture using the basic schema.

This schema extension can be imported into any project where the user requires the ability to classify information. The extension provides a new class, "**Classification**," which is used to provide classification information for individual entities in the design as well as classification for formal documentation of the system design.

When a **Classification** is used to "classify" a **Document** that is being produced using the Formal Documentation reports, the Security Level attribute is placed in the document header and footer on each page.

2. DETAILS OF SCHEMA EXTENSION

List of Schema Changes from Base Schema

- New relation pairs
  - classified by / classifies - Classified by associates an entity that is officially identified as sensitive to which only authorized individuals may have access with a security label (entity) identifying its sensitivity level.

- New class
  - **Classification**
    - *Attributes:*
      - Abbreviation
      - Classification Category
      - Dissemination Control
      - Releasability
      - Security Level
    - *Relations:*
      - classifies with target classes **ChangeRequestPackage, Component, Concern, DefinedTerm, Document, DomainSet, Event, Exit, ExternalFile, Function, Item, Link, Mode, Organization, Product, ProgramActivity, ProgramElement, Requirement, RequirementGroup, Resource, Risk, ServiceSpecification, State, TestActivity, TestConfiguration, TestItem, TestProcedure, Text, Transition, UseCase, VerificationEvent, VerificationRequirement** , and **VerificationRequirementGroup**

- Class changes
  - ChangeRequestPackage
    - Added classified by relation with target class **Classification**
  - Component
    - Added classified by relation with target class **Classification**
  - DefinedTerm
    - Added classified by relation with target class **Classification**
  - Document
    - Added classified by relation with target class **Classification**
  - DomainSet
    - Added classified by relation with target class **Classification**
  - Event
    - Added classified by relation with target class **Classification**

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- Exit
  - Added classified by relation with target class **Classification**
- ExternalFile
  - Added classified by relation with target class **Classification**
- Function
  - Added classified by relation with target class **Classification**
- Item
  - Added classified by relation with target class **Classification**
- Link
  - Added classified by relation with target class **Classification**
- Mode
  - Added classified by relation with target class **Classification**
- Organization
  - Added classified by relation with target class **Classification**
- Product
  - Added classified by relation with target class **Classification**
- ProgramActivity
  - Added classified by relation with target class **Classification**
- ProgramElement
  - Added classified by relation with target class **Classification**
- Requirement
  - Added classified by relation with target class **Classification**
- RequirementGroup
  - Added classified by relation with target class **Classification**
- Resource
  - Added classified by relation with target class **Classification**
- Risk
  - Added classified by relation with target class **Classification**
- ServiceSpecification
  - Added classified by relation with target class **Classification**
- State
  - Added classified by relation with target class **Classification**
- TestActivity
  - Added classified by relation with target class **Classification**
- TestConfiguration
  - Added classified by relation with target class **Classification**
- TestItem
  - Added classified by relation with target class **Classification**
- TestProcedure
  - Added classified by relation with target class **Classification**
- Text
  - Added classified by relation with target class **Classification**
- Transition
  - Added classified by relation with target class **Classification**
- UseCase
  - Added classified by relation with target class **Classification**
- VerificationEvent
  - Added classified by relation with target class **Classification**
- VerificationRequirement
  - Added classified by relation with target class **Classification**
- VerificationRequirementGroup
  - Added classified by relation with target class **Classification**

3. UAF CONSIDERATIONS

When using this extension with UAF, there are several key considerations:

- The **Classification** class is not visible in the standard UAF Facility. You must change the Facility to All Classes to view the class if you need to modify its attributes. This does not impact the ability to use the classified by / classifies relationship pair, which is visible in all classes where the relationship is applicable.
- Target classes for the Classifies relationship include all available classes except for **Category, ContainmentPackage, DigitialthreadPackage, Package, Note, Review, RequirementGroup, VerificationRequirementGroup, and UMLAssociation.**

4. INSTRUCTION FOR USE

In order to use this extension a project administrator will have to import the XML file containing the schema extension into the existing project.

1. From GENESYS, select File Menu >> Import.
2. Use the file browser to select Program Files\Vitech\GENESYS 2024\Extensions\ SecurityClassificationSchema.gnsx and click Open.
3. In the import wizard, you will see the Project “Security Classification Schema” in the Project listing. Select “Next” to continue to Step 2.
4. Select the second radio button, labeled “Import Into Project,” and select your project from the drop-down list. Select “Next” to continue to Step 3.
5. Review the screen to ensure that you have selected to import “Security Classification Schema” into your project. Select “Import” to start the import process.

Once the import completes click OK and the schema extension is ready to be used. Once you have imported the extension once you will not need to import it again. Simply export your database using the default export option and the schema and data are contained within one GNSX file.

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