This manual introduces you to Innoslate concepts and graphical interfaces to help you get started using Innoslate.

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Section One: Introducing Innoslate

About Innoslate

Innoslate takes the next step in software by providing the future standard for Model-Based Systems Engineering (MBSE) as a service implementation of new and classic systems engineering principles and practices to address today’s and future system of systems level problems.

Innoslate is a cloud based web application developed by SPEC Innovations. This application was specifically designed for systems engineers and requirements managers, providing the first integrated Systems Engineering and Requirements Management tool on the cloud that supports the full lifecycle from requirements analysis and management to operations and support.

Innoslate provides a secure, transparent, and automatically upgraded environment to reduce IT costs and enhance collaboration on small and large problems.

Innoslate is the first tool to implement the new lifecycle modeling language (LML). This language was developed to simplify the entities, relationships, attributes and diagrams used in systems engineering and project management.

About Projects

In Innoslate, information is stored within projects. Each project has its own database that is stored physically separate from other projects. Each project also has a list of users who have permissions to access that project. A project can contain any number of requirements documents, system models, simulation results, reports, etc. A default project is created for you upon signing in to Innoslate for the first time.

Innoslate users have the ability to create any number of additional new projects, edit the name and description of existing projects, delete existing projects and share their existing projects with any other Innoslate user.

About User Permissions

Any permissions granted to an Innoslate user are assigned at the project level. Innoslate users can have one of three project-level permission levels, described in the following table:

<table>
<thead>
<tr>
<th>Project-Level Permission Levels</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read Only</td>
<td>View project contents only, add and remove your own comments, unable to share project.</td>
</tr>
<tr>
<td>Read / Write</td>
<td>View, modify, and delete project contents, add and remove comments, unable to share project.</td>
</tr>
<tr>
<td>Owner</td>
<td>View, modify, and delete project contents, add and remove comments, share project with other users.</td>
</tr>
</tbody>
</table>

About Entities and Attributes

Information in each Innoslate project is divided into entities, attributes and relationships. Entities are comprised of attributes and relationships with other entities. Every entity in Innoslate has a name, number and description attribute no matter which Class.
About Relationships and Traceability

All relationships in Innoslate are two way, the relation and inverse relation comprise one relationship. This way provides traceability back and forth between both involved entities.

About Views

Different people require different ways of visualizing information as well different information entirely.

For example:

- Systems Engineers are interested in creating system models and simulating system models.
- Requirements Managers are interested in managing requirements documents.

Innoslate has different views built in to accommodate for different types of users. Each view, in some way displays a subset of the entities, attributes and relationships within a project.

The Database, Entity and Search Views of Innoslate are particularly useful for Systems Engineers as they give you full control over your database and access to every type of relationship.

The Requirements View of Innoslate is particularly useful for Requirements Managers as it allows you to edit statements and requirements directly in a document-like display.

The aim of the different Innoslate views is to not overwhelm the user with too much information that they may or may not care about.

About Tools

A large set of tools are available to Innoslate users including Diagrams, DoDAF Dashboard, Export Project, Import Analyzer, Reports, the Share Project Dialog and the Manage Projects Dialog. For more information on each of the tools please see their individual write-ups in Section Two of this document.

About Collaboration

Innoslate was built for today’s collaboration needs. Included with Innoslate is a set of integrated live collaboration features comprised of project sharing, live chat, version control and more.

Team members no longer need to be maintaining their own separate databases and can instead share a single project database and communicate with each directly within Innoslate, removing the need for any additional collaboration systems. Colleagues can even share projects at different privilege levels, giving the project owner complete control over you can modify, add, and share within a project. Innoslate also enables support for model-based design reviews by incorporating a comment system that allows for subject matter experts to provide feedback without modifying the actual project.

These features make Innoslate the best systems engineering and requirements management tool for any size team demanding modern live collaboration with their colleagues.
Section Two: Navigating Innoslate

Top Navigation Bar

The navigation bar, located at the top of Innoslate, is a constant fixture throughout the application. No matter where you navigate within Innoslate, the navigation bar will remain fixed at the top of your browser window.

Menu Items on the Left

MENU Dropdown

The MENU dropdown is the leftmost feature of the top navigation bar. This dropdown contains menu items with the links necessary to successfully navigate around Innoslate. The links under the dropdown are arranged into four columns: General, Documents, Tools, and Quick Links.

Under the “General” column are navigational links to your project’s Dashboard, Database View, Search View, and the Schema Editor respectively.

Under the “Documents” column are navigational links to views that are historically considered to be documents, such as: CONOPs, Requirements, Test Plans, and SOPs. To show the complete list of document views select the Show More menu item to expand the list.

Under the “Tools” column are navigational links to tools within Innoslate. The DoDAF Dashboard link navigates to your project’s DoDAF Dashboard, the Export Project link automatically downloads an export xml file of your current Innoslate project, the Import Analyzer link navigates to Import Analyzer tool and the Reports link navigates to a Reports tool with direct access to all reports that have been ran on your project.

Under the “Quick Links” the Sharespace link opens Innoslate.com’s Sharespace page (https://innoslate.com/sharespace/), the Help Center link opens Innoslate.com’s Help Center page (https://innoslate.com/help/), the FAQ’s link opens Innoslate.com’s Frequent Questions page (https://innoslate.com/frequent-questions/), and the Contact Support link opens Innoslate.com’s Contact Support page (https://innoslate.com/contact-support/).

Pinned Buttons

The next set of buttons to the immediate right of the MENU dropdown are items which have been “pinned” to the top menu bar. By default, four items are pinned to the bar: Dashboard, Database, Requirements, and Search. Simply click the button with the name of the view or tool and you will be automatically navigated there. We recommend pinning the features of Innoslate you use most often for easy one-click access.
Menu Items on the Right

Toggle Chat Button
The first button on the right of the toolbar is the **Toggle Chat** button. Clicking this button, shown below, toggles the collaboration sidebar open and closed. You will find the collaboration sidebar fixed to the right of your browser window when it is open. The sidebar allows you to see which users are currently online, collaborating on the same project and give you access to chat with those users in a group or point to point.

![Toggle Chat Button](image)

Share Button
Clicking the **Share** button, shown below, opens the **Share Project** dialog.

![Share Button](image)

Switch Project Dropdown
The **Switch Project** dropdown is located immediately to the right of the Share button. This dropdown, as shown below, contains links that switch Innoslate to any of your existing projects as well as a Manage Projects link that opens the Manage Projects dialog.

![Switch Project Dropdown](image)

User Dropdown
The **User** dropdown, as shown below, is the last and right-most menu item of the top navigation bar. Here you have access to update your Innoslate user account profile, change your password, upgrade your plan, downgrade your plan, or sign out of your account.

![User Dropdown](image)
Views

Dashboard

This view, as shown below, serves as your project’s home page. Any time after a successful log in to Innoslate or when switching projects you will be automatically navigated to that project’s Dashboard. This view is a new feature of Innoslate 3.0 and is pinned to the top navigation bar by default.

This view is comprised of a set of panels which can be shown or hidden and most can be sorted in any order you like. Available panels include: Getting Started, Recent Notifications, Model Maturity, Statistics, and Send Feedback.
Database View

This view, as shown below, displays all the existing entities which have been created in your project. Some features of this view include displaying entities as a list of rows or as tiles, creating new entities, filtering entities by class or by label, sorting entities by number, sorting entities by name, and sorting entities by date modified.

You can open Entity View of an existing entity by clicking on the entity’s displayed row:
You can filter entities by class in Database View by selecting a Class from the Classes section of the sidebar:

You can filter entities by label in Database View use the Labels section of the sidebar:

You can sort entities in by number, by name or by date modified via clicking on the Sort dropdown in the toolbar:

You can add or remove a label to an existing entity one by one or in bulk by clicking the check box of that entity’s displayed row, clicking the Add Bulk Label dropdown in the toolbar, and selecting from the list of labels:

You can delete an existing entity in Database View by clicking the check box of that entity’s displayed row, and clicking the Delete button in the toolbar:

You can create a new entity in via clicking on the New Entity dropdown in the toolbar and selecting from the list of classes:
You can select multiple entities via clicking the check box of multiple rows or clicking one check box, holding down the Shift key and clicking the check box of the last row you would like to select:

Note: An entity can have more than one label, thus avoiding the classical problem in most Windows tools, where they implement a folder construct. Labels enable us to distinguish entities within a class and many labels that identify types of entities within a class have been pre-loaded to match the Lifecycle Modeling Language (LML) specification. You can add your own labels anytime and use them to help organize your information.
Entity View

This view, as shown below, displays everything associated with an entity including an image, class information, date modified information, date created information, labels, attributes, relationships, and comments.

Add an image by clicking on the **Change** link in the left-hand corner of the sidebar:

Add a Label by clicking on the name of a Label in the Labels section of the sidebar:

Use the **Attributes** panel in Entity View to modify the attributes of the entity:
Create a new Label in your project by clicking on the **New Label** link in the Labels section of the sidebar:

Save an entity by clicking the **Save** split button in the toolbar of Entity View:

Use the **Relationships** panel of Entity View to Add, Create, Modify and Remove the relationships on the entity:

Use the **Comments** panel of Entity View to create a comment on the entity and post it for other users to view:

Create a diagram by clicking on the **Diagrams** dropdown in the toolbar and selecting one of the options:

Revert to an earlier version of the entity by clicking on the **History** button in the toolbar of Entity View:
Requirements View

This document-like view features automatically suggested numbering on entity creation, automatically generated hierarchical relationships, hierarchical display with collapsible sections, inline entity editing, sort ascending/descending on any attribute column, customizable attribute columns, gap analysis indicators, and more.

Baselining capability is now incorporated into Requirements View, providing the power to baseline a document, visualize what has changed since the last baseline and view previous baselined versions of a document.

Innoslate enables requirements analysis by enabling a user to obtain a quality score automatically for each requirement by selecting the Check Quality button. Innoslate will check your requirement against 9 different quality parameters (Clear and Complete to name a few) and determine a quality score accordingly, this provides a quick and efficient way to identify potential problems with your requirements.

All requirements can be easily traced directly to functional and physical elements of a model. Requirements reports are also available, including reports for verification, validation, and traceability.

Requirements View Screenshot:
Search View
Using this view you can Search your project for specific words/numbers by typing the words/numbers into the search box, and then clicking the button with the magnify glass.
Schema Editor

Innoslate implements the Lifecycle Modeling Language (LML), which does not claim to solve everyone’s total data capture needs, hence we have included the capability to extend the current schema. That extension feature manifests itself in Innoslate’s Schema Editor, as shown below. You can create classes (or subclasses), additional attributes (properties) on existing classes or add relationships. We recommend care be used in adding to the schema to avoid duplication and confusion.
Tools

Diagrams

DoDAF Dashboard

Export Project
The Export Project link in the MENU dropdown of the top navigation bar automatically downloads an export (.xml) file of your current Innoslate project. This file can later be imported back into Innoslate using Import Analyzer if need be.

Import Analyzer
The Import Analyzer tool features a single button, shown below, that uploads, reads, and analyzes the document or file and imports that information directly into your project. With support for Microsoft Word®, IBM® Rational® DOORS®, Microsoft Project® and more, Innoslate makes migrating your data easy.

Import Analyzer utilizes smart algorithms to identify and automatically create parent/child relationships between requirements; removing the typically complex task of manually adding these relationships yourself. Import Analyzer also provides the power to transform and clone entities from one entity class to another, cutting down the time needed to build robust system models.
Reports

Reports now have a dedicated user interface in Innoslate 3.0, as shown below, which displays all existing reports which have been run on your project. Some features of this view include displaying a list of reports in rows, sorting reports by number, sorting reports by name, sorting reports by date modified, and deleting reports.

Over eighty reports previously accessible from the Reports Dialog in Innoslate 2.x are now accessible solely via this Reports tool, specifically the tab labeled “2.x Innoslate Reports” as shown below. Available reports categories include: DODAF, JCIDS, MDOAF, Verification & Validation, Program Management, and more.
Share Project Dialog
From the Share Project Dialog, as shown below, you can share your project with another user, edit the permissions of a user you currently share your project with and remove users from your project.

![Share Project Dialog Image]

Manage Projects Dialog
From the Manage Project Dialog, as shown below, you can create, modify and delete Innoslate projects.

![Manage Projects Dialog Image]
Section Three: Innoslate.com Resources

Sharespace
Innoslate.com’s Sharespace page (https://innoslate.com/sharespace/) is what we call the Sharespace.

The purpose of Sharespace is to enable you to provide the results of document analyses, models, and other databases to other users. For example, if you analyze a key NASA policy document and then want to make that accessible to other users, you can export that information and submit it to the site. SPEC Innovations will check over the file to make sure no malware is part of the file and then make it available to any users through the Sharespace. As we build this library, the cost and time saving should be apparent. SPEC Innovations will be contributing whatever we can to this Sharespace. We will encourage other contractors and Government agencies to do the same to make better use of taxpayer dollars.

Help Center
Innoslate.com’s Help Center page (https://innoslate.com/help/) is what we call the Help Center. The Help Center is where all available Innoslate documentation lives.

FAQ’s
Innoslate.com’s FAQ’s page (https://innoslate.com/frequent-questions/) is where you can find the answers to our most Frequently Asked Questions.

Contact Support
Innoslate.com’s Contact Support page (https://innoslate.com/contact-support/) is where you can find our contact information, including how to chat live with customer support.
Section Four: Innoslate Support

The Innoslate Support team aims to provide industry leading support and user engagement. We have maximized the methods available for users to contact support by providing a support telephone line, support email address and online chat support accessible via Innoslate.com on the Contact Support page: https://innoslate.com/contact-support/.