

exSILentia: Integrated Safety Lifecycle Engineering Tool

Integrated Safety Lifecycle Engineering



exSILentia[®]

All important Safety Lifecycle steps in one tool?

With exSILentia version 2 exida provides a single tool interface for all available platforms, and continues to build on the successful first release. New and interesting features and available plug-ins enhance the efficient safety lifecycle experience.

Automated Documentation Generation!

Integration of the SIL selection, Safety Requirements Specification, and SIL verification Lifecycle tasks allows for a clear overview of your functional safety standards compliance. The exSILentia tool enables you to specify several Safety Instrumented Functions within a single project, each having its specific SILect, SIF SRS, and SILver records. The automated documentation generation in exSILentia provides easy complete reports for compliance with functional safety standards like ANSI/ISA 84.00.01:2004, IEC 61508, and IEC 61511 that require these Safety Lifecycle activities.

Approved calculation engine

The exSILentia SILver calculations and development process have been independently verified and certified by a 3rd party. The tool can be used for Safety Instrumented Functions up to SIL 4. The independent assessment relieves the enduser burden of demonstrating the calculation method for each Safety Instrumented Function or System project.



One tool 3 Platforms

The exida designed Safety Lifecycle engineering tool exSILentia, integrates SILect, SIF SRS, and SILver. It is available on 3 different platforms:

exSILentia – standard Windows 2000/NT/XP/Vista environment

exSILentia Server – on Company intranet, Citrix presentation server hosted

exSILentia online – accessible via the exida website

Seamless integration of the different platforms through the exchange of project files

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exSILentia Key Features & Benefits	Saves Engineering Time
Integration of the exida SILect, SIF SRS, and SILver online tools: SILect – Safety Integrity Level Selection tool, featuring Risk Graph, Hazard Matrix and LOPA methodologies SIF SRS – Safety Requirements Specification tool SILver – Safety Integrity Level verification	Less data entry Learn to use one tool for all major Safety Lifecycle tasks
Define multiple Safety Instrumented Functions, each with their own SILect, SIF SRS, and SILver records in a single project	Reuse previous designs
Automated report generation which provides analysis reports for IEC 61508, IEC 61511, and ANSI/ISA 84.00.01- 2004 documentation compliance, SILver Summary reports, and SIF lists for easy Project overview	Standards compliant documentation
Equipment database included that can be updated regularly to include the most current equipment data available (extra fee after year 1)	Increased confidence, No equipment reliability research
SIL verification based upon a 61508 certified Markov model calculation engine to provide precise time dependent calculation.	Increased confidence, Standards compliance

exSILentia Version 2 adds:

- ◇ Plug-in capability, optional plug ins for: Importing data from your PHA's,
- ◇ Creating Cause and Effect diagrams based on your SILver input selections,
- ◇ Proof test report generation.
- ◇ The ability to define user roles and access rights
- ◇ German and Portuguese report languages.
- ◇ Determine SIL capability of the equipment items that you select
- ◇ Understand the concepts of FMEDA and probabilistic hardware analysis.
- ◇ Calculate the Unit MTTFS
- ◇ Automatic SERH update utility

exida equipment database

The exida equipment database contains a tremendous amount of sensor items, ranging from fire & gas, level, proximity, etc., input interface modules, logic solvers, output interface modules, and numerous final elements.

More Information at www.exsientia.com

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