APIS IQ-Software
FMEA, Risk Analysis, Functional Safety

Features - Compendium

APIS IQ-RM PRO - Software for FMEA, Control Plan and Process Flow Diagram

- *Methodology according to AIAG, SAE and VDA*
- *Knowledge based, efficient and flexible*

- *High performance Windows Application*
- *Integration Features for Workflow and Document Management*

Method Support Features

Modelling (Structur / Functions)
- *Project, Structure, Variant*
- *Process Flow, graphically*
- *Structure Tree*
- *Function Net*

Failure Analysis
- *Failure Net / Fault Tree (with calculation)*
- *FMEA (AIAG, SAE, VDA, DRBFM)*
- *Control Plan*
- *Cause and Effect Diagram*

Risk Evaluation
- *Catalog for Actions*
- *Catalog for S, O, D*
- *Risk Matrix colors*

Optimization /
Continuous Improvement Process
- *Change History*
- *Action Groups / Grouped Actions*
- *Meeting Log*

Mechatronic FMEA
- *Operating Conditions*
- *Error Detection, Error Response*

Functional Safety
- *IEC 61508 / ISO 26262 calculations*
- *Calculation strategy FIT*
- *Minimal Cut Set*
- *Graph Editor with suggestion list*

Functions

Concepts
- *Complete Integration
  (FMEA, PFD, CP, Function- and Failure-Net, FTA)*
- *Personal Desktop*
- *Characteristics; i.e. FMEA, PFD and CP without redundancy*
- *Length of fields up to approx. 32,000 characters*
- *Project Management*
- *HTML-Remarks*

Data Input Options
- *Structure Editor*

- *Function and Failure Analysis Editor*
- *Function Net Editor / Failure Net Editor*
- *FMEA-Forms Editor (different layouts)*
- *Parts Functions Matrix Editor*
- *Import Functions (various)*
- *Control Plan (CP)*
- *Process Flow Diagram (PFD)*
- *Cause and Effect Diagram*

Data Manager
- *Persons and Teams*
- *Valuation Catalog*
- *Terminology / Translation Editor*
- *Notes List*
- *Symbol Palettes*
- *Symbolic Responsibilities / Deadlines*
- *Categories*

Form Layouts
- *FMEA: AIAG (QS-9000) and VDA*
- *FMEA: MIL 101 / MIL 102*
- *FMEA: company specific (e.g.: RB, GKN)*
- *Control Plan (CP)*
- *Process Flow Diagram (PFD)*
- *DRBFM*
- *DVP&R, 8D-Report*

Management Support
- *Deadline Management*
- *Statistical Analysis*
- *Presentation Print*
- *Excel export (XLS / XLSX)*

Presentation Support
- *Direct Print*
- *Print Preview*
- *HTML-Export*
- *Internet support / Web-Publisher*
- *Cover Sheet*
- *Deadline Editor*
- *Risk Priority List*
- *RPN Frequency Analysis*

Statistical Analysis
- *Pareto-Analyse*
- *Difference Analysis / Frequency Analysis*
- *Action Tracking Analysis*
- *Risk Matrix / Extended Risk Matrix*

Multi Language Support
- *English, German*
  (User Interface, Forms, Manual)
- *French, Spanish, Italian, Czech, Magyar, Chinese, Japanese, Korean*
  (User Interface, Forms)
- *Dual Language View for content, and printing*
- *Translation in Dual Language Mode*
- *Data Manager support for Translation*
- *XLS / XLSX ex- and import of translations*
- *Multi-Language Notes*

Re-use Functions
- *Alphabetical and Catogorized Selection Catalogues (Customer requirements, System elements, Functions, Characteristics, Failures, Actions, …)*
- *Terminology Control for consistent wording*
- *CARM-Server with Modules*
- *symbolic Responsibles / Deadlines*
- *Copy by Drag & Drop*
- *Screen Split (Second Workspace)*
- *Global Search (IQ-Explorer)*
- *Template Based, e.g. Team Management*

Team Support
- *Team Management*
- *Document-internal access rights*
- *Operating system based access rights*
- *E-mail-support for actions*
- *Intranet Support*
- *Document level data exchange*
- *Notes with Categories*

Operational

User Interface
- *Personal Desktop*
- *Input Collector or Direct Input*
- *User defined Numbering*
- *Company Specific Help supported*
- *User friendly search functions*
- *Full Screen Mode*
- *Undo (textual and structural)*
- *Version Management for Structures*
- *Version Management for Forms*
- *Variant Management (Project Management)*
- *Presentation Print (Print Batches)*
- *Deadline editor filters*
- *Personal-Information-Manager (PIM) with Bookmarks*
- *FMEA-Assistant to guide user through method and program*
- *Internal and External Links to documents, web-sites, e-mail addresses*
- *Image Integration from external sources*
- *Filter: Simple- / Detail-Filter*
- *Action Tracking in tables*
- *Variants Matrix*
- *Suggestion lists*

Moderation Support
- *Configuration Files*
- *Direct Input*
- *Different Settings for View and for Print*
- *Folding Operations (Fold / Unfold)*
- *Intelligent (Hanging) Scroll Mode*
- *Notes*

Interfaces (Ex = Export, Im = Import)
- *IQ-FMEA (exp)*   *Ex, Im*
- *Windows-Metafile (wmf)*   *Ex, Im*
- *HTML (htm)*   *Ex, (Im)*
- *XML (xml)*   *Ex, Im*
- *SGML (sgm)*   *Im*
- *Text (txt)*   *Ex, (Im)*
- *Microsoft Project (mpx)*   *Ex*
- *ODBC*   *Ex*
- *Excel-Tables (xls)*   *(Ex), Im*
- *Promis*   *Im*
- *Sibylle (sib)*   *Im*
- *GKN*   *Im*
- *FMEA plus*   *Im*

Configuration and Settings
- *Document templates for company settings*
- *Forms: Column width, Fonts*
- *User definable Entry Labels*
- *Symbol Palettes under user control*
- *Assistant rules under user control*

DP Management Advantages

User Interface
- *Full Support of Windows Interface Style Guide*
- *Connect ability APIS CARM-Server: Web-Interface*

Total cost of ownership
- *Easy server and client Installation*
- *Easy version updates and upgrade*
- *Installation does not corrupt system*
- *Fast print preview reducing excessive hardcopy costs*
- *Mailing list for upgrades*
- *Electronic forum support*

Data exchange
- *Connect ability APIS CARM-Server*
- *Interface to SQL database*
- *XML (write and read)*
- *Collaboration Interface*
- *XDI Interface (eXternal Data Integration)*

Data Security
- *Robust, safe data handling*
- *Compatible to data encryption standards*
- *Compatible to access right management on OS level*
- *Long term data storage in open standard format*