ProDOK NG
Best Practice Instrumentation

rösberg since 1962
Process Automation & IT Solutions

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The **less-time-planning-higher-efficiency** software

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ProDOK NG, The **N**ext **G**eneration

Best Practice Instrumentation

ProDOK is the I&C-CAE system for planning and operational management of process control equipment for technical process plants. In using ProDOK, you are guaranteed a rational, comprehensive design and uniform documentation. ProDOK provides an integrated planning process according to standard rules.

ProDOK has been employed by leading plant designers and operators since 1988. The basis of this success lies in our technical and methodological competence. We are the only engineering company in the world with its own I&C-CAE system – which is also a great advantage compared with other CAE systems. With the new ProDOK generation, Next Generation (NG), you get a modern I&C-CAE system which combines more than 25 years of experience with the latest software technology.

The functionality of ProDOK fully complies with the requirements of I&C project engineers in terms of the basic-planning, functional-planning, detailed-design and installation-planning phases, whether planning a plant afresh, amending it, supplementing it or for operational support.

In short:
ProDOK NG is the less-time-planning-higher-efficiency software, and has been used in practice for over 25 years.

This specific component
is installed precisely 44 times in the plant

What ProDOK NG Can Do For You

ProDOK NG's engineering workflow begins with the import of process data from the P&I diagram.

ProDOK NG during basic planning
The first phase of engineering is basic planning. The database now contains all PCE-requests with their measurement, and control points, the limit values and the electrical energy consumers. The first visible results are the process data sheet, the instrument list and the list of electrical energy consumers.

ProDOK NG during the detailed-design phase
The detailed-design phase builds on basic planning. In this phase, the most important sensors and actuators are defined and specified. One special feature of ProDOK NG is the logic diagrams. Using this function, you can create efficient logic diagrams. For this purpose, ProDOK NG takes the limit values from the BASIC engineering module, as well as the input and output signals, and creates document-spanning cross-references **online** during processing.

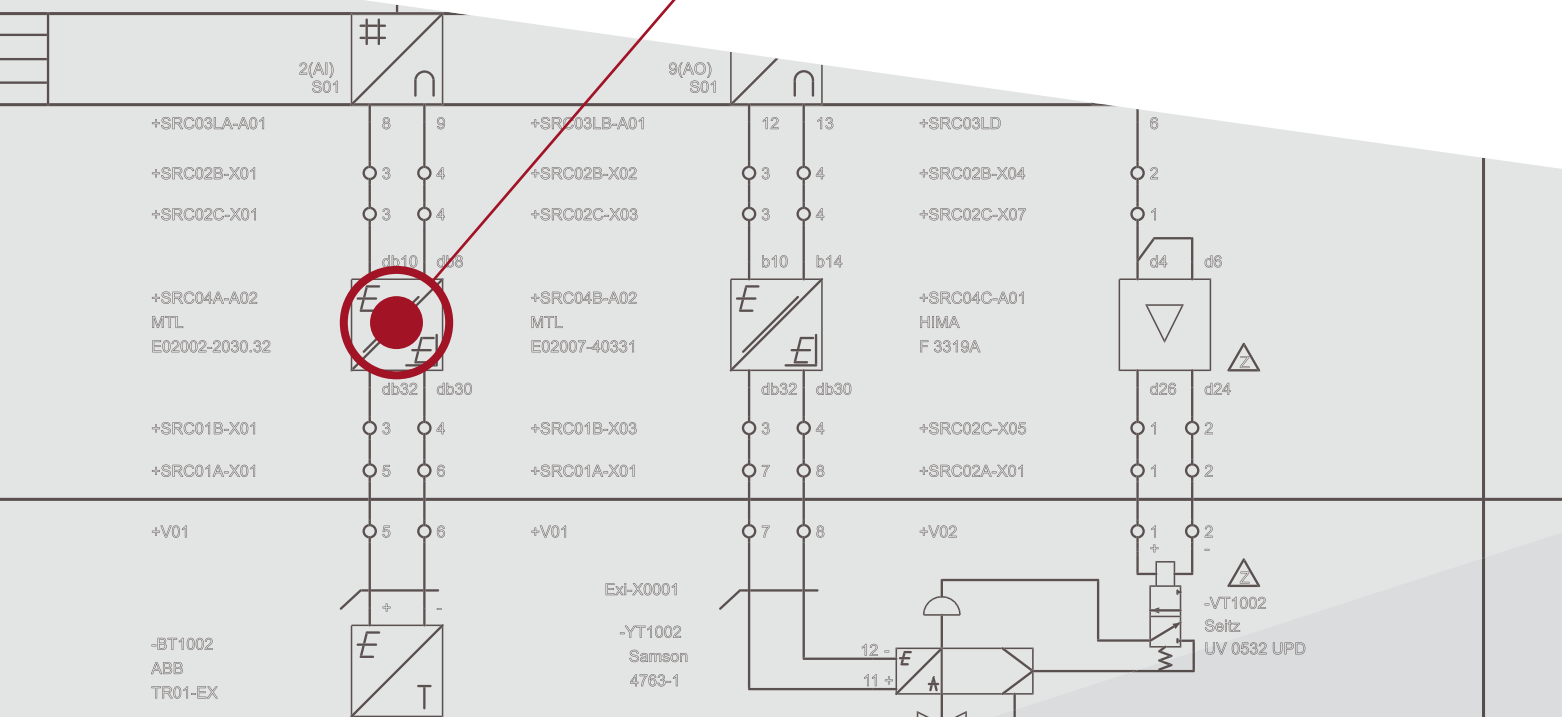### ProDOK NG in infrastructure and wiring design
A further step in the engineering workflow is the infrastructure and wiring design. In this respect, ProDOK NG supports the installation-oriented planning process which is customary with new plants.

Versatile and revision-secure
All documents generated during the project-planning phase, **including documents from third-party systems**, are automatically managed. ProDOK NG supports **over 200 different file formats**. The individual documents are stored centrally in the desired filing structures, and each document revision status is managed. Markings ensure that the differences between the different revision versions are visible at a glance. Revision-secure interfaces ensure a smooth data exchange with upstream and downstream systems.

Process planning
- Data transfer from P&ID
- Process data sheet
- List of electrical energy consumers
- Signal list

Basic planning
- Instrument list
- List of electrical energy consumers
- Ex(i)-evidence
- Single-line signal flow diagrams
- Hook-Ups
- Logic diagrams

Detailed design
- Loop diagrams
- Terminal plans
- Field junction boxes
- Control room layout plans
- Barrier construction plans
- Power supply plans
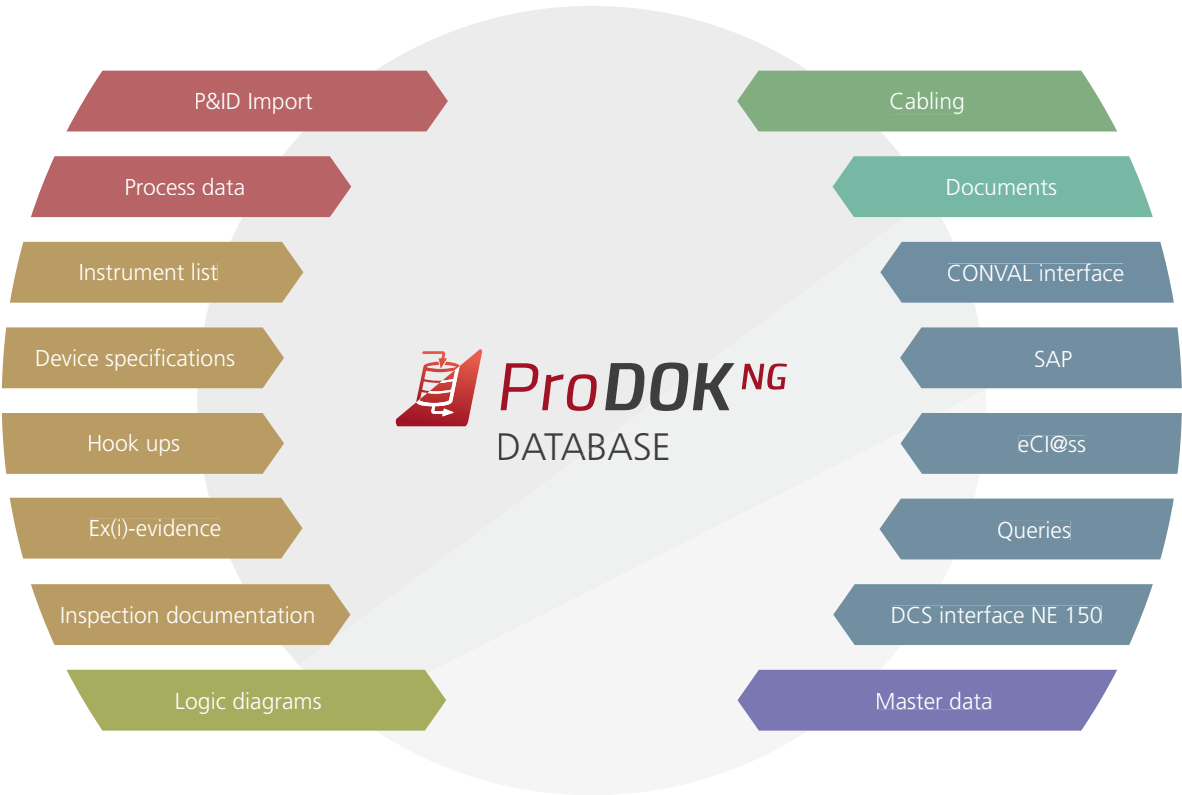- Cable lists
- Device specifications

Benefits For Project Participants

Using ProDOK NG has immense advantages over the deployment of traditional software for spreadsheet purposes. ProDOK NG is so simple and intuitive to use that little training is required.

Significant time savings

You will easily save up to **30% of your time normally spent on engineering** and even **up to 50% of time spent on quality management**. Due to the automatic compilation of the revides documentation, as well as the automatic generation of documents (such as tables of contents and revisions, cable lists and signal lists) you will save a massive amount of time and eliminate the sources of errors. For example, errors such as the duplicated assignment of terminals or the multi-allocation of loop names are prevented.

Improved documentation

Likewise, the quality of your documentation will improve substantially. For routine activities, such as data entry, copying and routing, ProDOK NG is very good at relieving the workload. **The cost of instrumentation and the start-up time are significantly reduced**.

The documentation is generated in electronic format with a full-text-search function. Planning processes and documentation are standardized by the use of cross-project libraries. Database queries guarantee fast information retrieval and evaluation.

The ProDOK NG 'inspection documentation' module assists you in generating inspection specifications for plants which require monitoring. You will be able to define test specifications and test scenarios for all objects.

A uniform and centralized source of data

Plant operators also benefit greatly from ProDOK NG, because they receive support during the entire life cycle of the plant and all users have access to uniform and up-to-date information from a single data source. Plant safety and availability is thus increased.

With the help of ProDOK NG, plant shutdowns, maintenance and expansions, as well as DCS modernizations can be easily planned.

The easy-to-use data exchange with suppliers saves time, improves data quality and allows devices and services to be compared electronically.

Diagram

- P&ID Import
- Process data
- Instrument list
- Device specifications
- Hook ups
- Ex(i)-evidence
- Inspection documentation
- Logic diagrams

ProDOK NG DATABASE

- Cabling
- Documents
- CONVAL interface
- SAP
- eCl@ss
- Queries
- DCS interface NE 150
- Master data

ProDOK NG is database-centered and offers a full range of functions for creating and maintaining I&C documentation

8 Reasons To Choose ProDOK NG

1. Rapid availability

ProDOK NG is an out-of-the-box solution that is easy to use, flexible, and cost-effective. Integration and customization requires little time and expense. The data structure can be adapted to customer needs. All major equipment and control system manufacturers are supported.

2. Independent

ProDOK NG is a database-independent software solution that uses Microsoft SQL Server or Oracle, but can be adapted to other SQL databases.

3. User-centric interface design

It offers a modern, scalable user interface, which can be adjusted according to your specific needs. Up-to-date information can be displayed easily via widgets. Lists can be customized, filtered and grouped.

4. Cloud capability

ProDOK NG is cloud-ready: for you, this means that you no longer need a file system and that work can be done simultaneously in multiple locations around the world. In addition, the project data can be used across different sites.

5. Bilingual

Bilingual planning is easy to implement – all documents can be created in two languages in a minimum of time.

6. Automatic revision management

The automatic revision management system will facilitate your day-to-day work, as data and documents which have been modified or deleted are marked as such.

7. Standardized device specifications

With eCl@ss Advanced, ProDOK NG provides standardized device specifications and the import of manufacturer data, thus saving you much time when installing new devices.

8. Skilled support team

RÖSBERG is not only a software developer but also an engineering and I&C provider. Therefore, our support team possesses outstanding, qualified, and practically oriented I&C expertise.

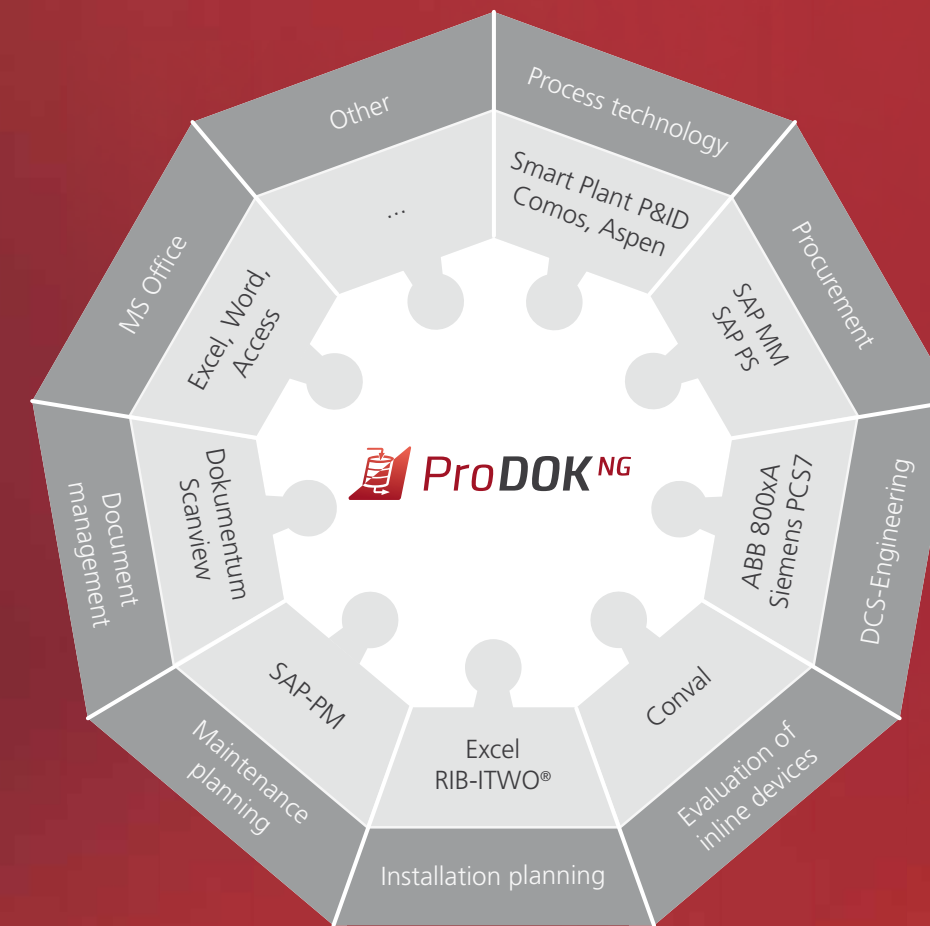# Interfaces And
Integrated Engineering

ProDOK NG is linked with our customers' various software products via numerous, constantly maintained interfaces. Great attention is paid to data exchange. If it is possible to trace which data and structures were created or modified when and by whom, errors can be avoided.

For this reason, revision-secure data import plays an important role in ProDOK NG. RÖSBERG has developed adapters for this purpose which deliver data from other software tools involved in plant planning, converting it and passing it on to ProDOK NG. The data obtained at this point also contain information as to when they were changed and by whom, as well as a status, e.g. temporary or permanent.

Adapters are available for:
• SmartPlant P&ID,
• AutoCAD P&ID,
• or similar systems.

Industry standards for data exchange between procedural and I&C planning and/or individual software systems such as ISO 15926 or CAEX can also be mapped to the adapters.

ProDOK NG is connected to the various trade-specific software products via numerous, constantly-monitored interfaces.

What Our Customers Say

"The use of our documentation by the installation companies in Russia will now run safely and without any communication problems. ProDOK NG bilingual reports are an invaluable help in this respect."

"When moving from our old system to ProDOK V 6.0, 1.4 million individual attributes had to be transferred for basic engineering alone. The RÖSBERG experts supported us and converted more than 18 million individual pieces of data for 13,700 process control points and 61,000 I&C devices – in record "

Getting To Know
ProDOK NG

We would be glad to present ProDOK NG to you personally. Our sales team is happy to answer any questions. **Make an appointment with us right now.** This QR code will take you directly to our contact form.

Head of Product Management Plant Solutions

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Plant Solutions

RÖSBERG develops software solutions tailored to the needs of the process industry. Our plant solutions provide efficient plant design, the smooth and efficient operation of process plants, and guarantee the consistent documentation of the 'as-built' condition of the plant. All our solutions are modular and can be combined individually according to your needs.

RÖSBERG Control Center

The RÖSBERG Control Center provides the framework for ProDOK NG and all new plant solutions products. It is based on the latest software technology, is database-independent due to its multi-tier architecture, and is flexible.

According to the app principle, you can easily connect to other RÖSBERG software solutions, such as LiveDOK NG or PAM NG, at any time and administer and use them centrally via the RÖSBERG Control Center.

The unified user interface can be scaled as required and adapted to different devices.

The control center for our software modules

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◢ *Process Automation & IT Solutions*

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