

are you

well informed

... ENOUGH TO SUPPORT YOUR SYSTEM THROUGH ITS LIFE CYCLE?



IDS

INTEGRATED
DOCUMENTATION SYSTEM

DEVELOPING
DOCUMENTATION
LOCKSTEP WITH THE
ENGINEERING PROCESS

IDS: Integrated Documentation System

E-DOCS:
Offering instant access to information through multiple paths



Information design, development and delivery

AKA's Integrated Documentation System (IDS) is a model for developing installation-specific print and electronic documentation packages that cover complete engineering systems. All components of the documentation sets are linked in a single logical and meticulously cross-referenced package. Documents are highly readable and readily accessible, making them comprehensive training and reference tools throughout the life cycle of the installation.

The IDS team partners with the client on a project from design review to completion, creating documentation lock-step with every phase of the engineering process. From design through the build, testing, installation and commissioning, IDS can provide corresponding documentation packages to guide engineering and field personnel.

The final IDS documentation package which accompanies the completed installation after commissioning is comprised of:

- Master Reference
- OEM documents
- Test, calibration and equipment certification
- Drawings, schematics and parts lists
- Engineering studies and test reports
- Programmable device documentation

Troubleshooting with IDS

The IDS documentation set can be used as a troubleshooting tool to provide support throughout the life cycle of the equipment. The integrated nature of IDS enables operational staff to capably undertake fault finding and repair without the need for expensive specialized contractors. We incorporate real world I/O points linked to drawings and data maps and include tag names, definitions, and descriptions of various functions related to each device. By hyper-linking all system schematics and associated drawing lists, we provide a searchable reference with direct links to all files.

Drawing Management: Adding discipline to your engineering process

Drawings form the foundation of our engineering process. AKA's Drawing Management System (DMS) is a unique software tool which applies discipline to the task of developing and maintaining drawings. DMS was developed in conjunction with a major practitioner of state-of-the-art electrical engineering applications. DMS captures all system component data through data extractions from drawings. It assigns device numbers, functions and locations, enabling the automatic derivation of parts information from the drawing set.

Linking drawing information to equipment:

- Reduces errors;
- Increases efficiency;
- Normalizes parts information;
- Maintains design integrity; and
- Drives the manufacturing process.

E-DOCS, AKA's Electronic Documentation is a powerful stand-alone software tool which supports the ongoing diagnostics, troubleshooting, maintenance, and repair requirements of your engineered systems. It provides a single point of access for all documentation, drawings and parts lists.

Once plant and system documentation is captured in electronic format, E-DOCS presents an organizational framework that makes information rapidly accessible, highly navigable, and easily maintained. Cross-referencing and hyper-linking facilitate effective and speedy data retrieval.

E-DOCS minimizes unplanned downtime by enabling users to:

- Rapidly diagnose and troubleshoot problems from the plant floor;
- Perform maintenance procedures and fault isolation techniques in a logical sequence;
- Confidently locate parts, data and record information; and
- Remotely access the complete documentation set.



DESIGN



Design Review Package

- Functional Specification
- Failure Modes & Effects Analysis
- Proposed Factory Acceptance Test
- Major Devices
- Drawings
- Parts List

BUILD



Assembly Plan Package

- Arrangement Drawings
- Schematic Drawings
- Cable Charts
- Device and Wire Labelling

TEST



Factory Acceptance Testing Package

- FAT Plan
- FAT Report

INSTALL



Installation Support Package

- Commissioning Procedures
- Commissioning Spare Parts
- Recommended Spare Parts
- Customer Acceptance Test

COMMISSION



As-Built Complete Package

- Master Reference
- OEMs
- Drawings & Schematics
- Studies & Test Reports
- Test, Calibration & Equipment Certification
- deviceTRAK

the process



Technical Training: Enhancing skill sets and knowledge base

IDS can provide customized, system-specific programs offering detailed instruction on theoretical and practical aspects of particular systems, developing the operational and diagnostic skills of participants.

Our training includes customized participant training manuals and workbooks for classroom use and future reference, available in print and CD-ROM versions.

As a complement to our training and documentation products, AKA can also deliver computer-based training (CBT) that is integrated with our E-DOCS product and designed to provide an ongoing instructional platform for life cycle support of integrated automation systems.



deviceTRAK: Controlling your programmable devices



deviceTRAK is AKA's programmable device software tracking system. deviceTRAK stores, protects and controls system-specific configurations for programmable devices and provides all required support material for maintenance personnel. This easy-to-use utility tracks and records all configuration updates and stores other relevant data including location, images, related hardware and OEM documentation. With deviceTRAK, personnel can confidently diagnose faults and replace defective configurable devices using the correct software configuration, auxiliary tools and procedures.



Maintaining Operations With IDS:

Due to the system-specific orientation of the IDS documentation, operators and maintainers can knowledgeably manage the installation throughout its life cycle. All aspects from the content to the design of the documentation set is intended to promptly provide personnel with complete and relevant information. IDS provides a familiar path for information helping the user gain a deeper understanding and knowledge of all systems within the installation.



OPERATE

Train, Maintain & Support

- Procedures: Maintenance, Fault Finding, Operation
- System Descriptions
- Parts List
- Drawings



Why IDS?

- structured documentation development support and final client-branded documentation;
- reduced learning curve for operators and maintenance personnel;
- quick access to user-friendly and reproducible system documents;
- electronic and hard copy documents;
- archived critical system software and programming; and
- adaptable by AKA to produce training courses for operators and maintainers.

Once initial documentation is complete, IDS can provide an ongoing maintenance service where AKA tracks and controls document revision, provides periodic upgrades to controlled documentation sets, and maintains document issue archives. This service guarantees the accuracy and relevance of the documentation package for the life of the installation.





BINDING
DOCUMENTATION
TO THE **ENGINEERING**
PROCESS



299 Ninth Street East . Owen Sound, Ontario . Canada N4K 1N8
T. 1.519.376.2800 F. 1.519.376.2884

info@aka-group.com

www.aka-group.com