G. Michaels Consulting Ltd.
11211 - 76 Avenue NW, Edmonton, Alberta, Canada T6G 0K2
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www.gmcl.com

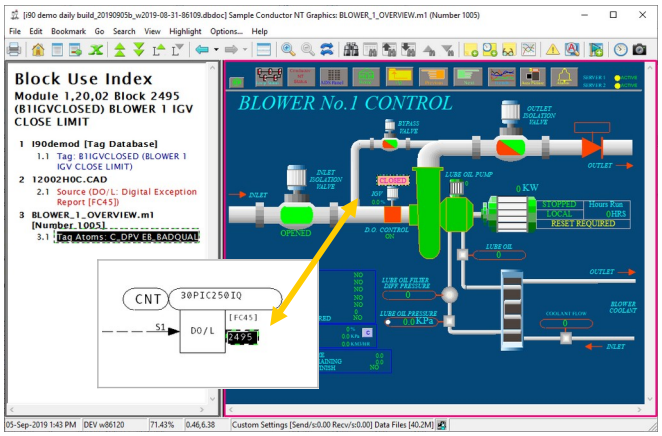
DBDOC

for your ABB® Symphony Harmony / INFI 90® System

DBDOC, the essential companion to your Harmony INFI 90® and AC 800M system software, complements your existing tools and enhances productivity and effectiveness.

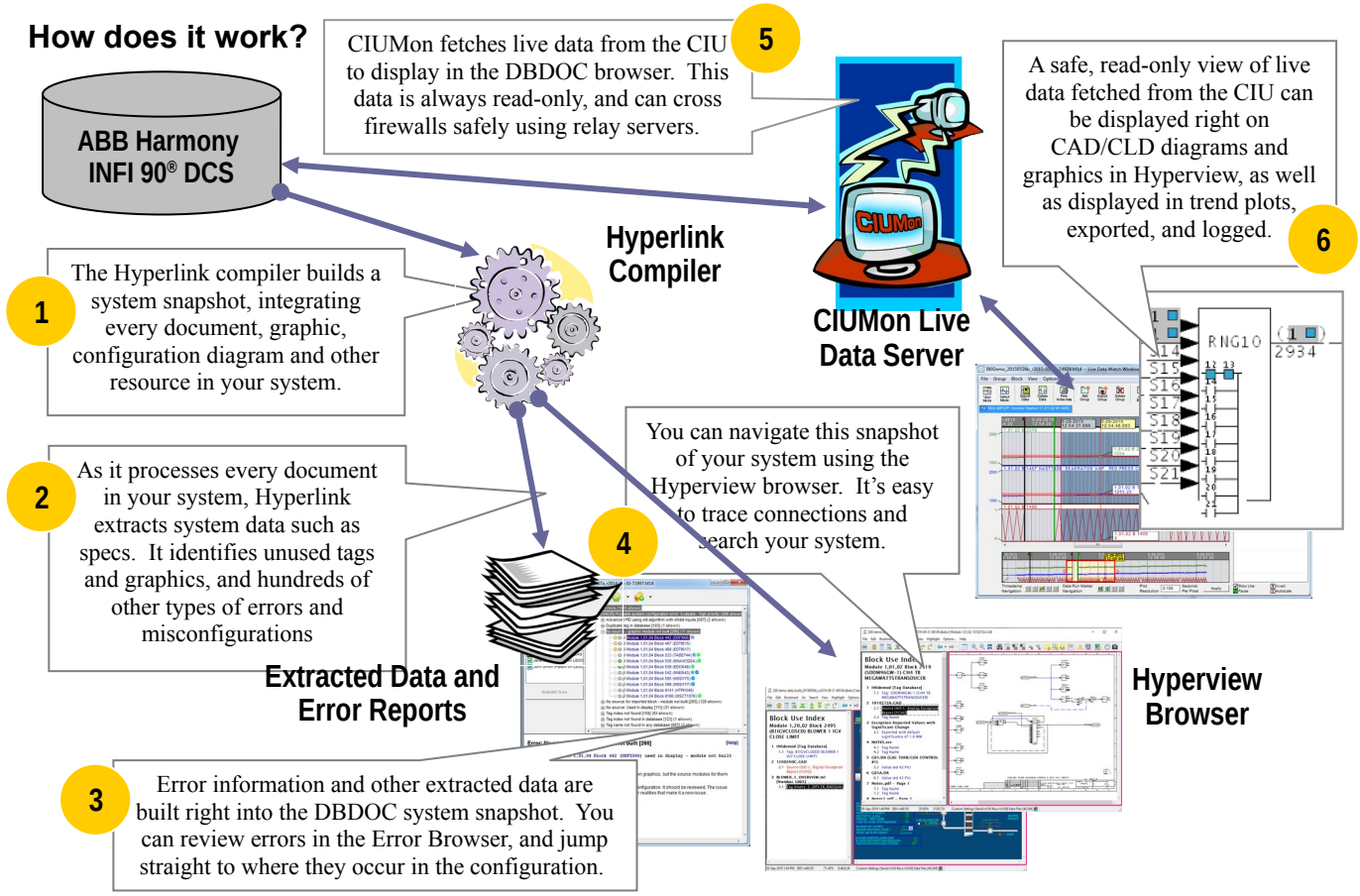
Read on to learn more about important DBDOC features.

What is DBDOC?



- A **safe, read-only snapshot** of your Harmony INFI 90® system or AC 800M system.
- An **integrated** view of all your Composer® and CAD/CLD configuration drawings, graphics and databases, as well as third party resources like OsiSoft PI®, AutoCAD® and MicroStation® drawings, and any other
- An amazing suite of **troubleshooting and analysis** tools.
- The ability to **view live data for every block in your system**, even remotely.
- **Lightweight data trending**, especially for blocks not visible to ABB history software.
- A **perfect training environment** in which new operators and engineers can familiarize themselves with the system and learn fault finding techniques.
- The perfect companion for **effective audits**, efficient system **conversions** and system **cleanup**.

How does it work?



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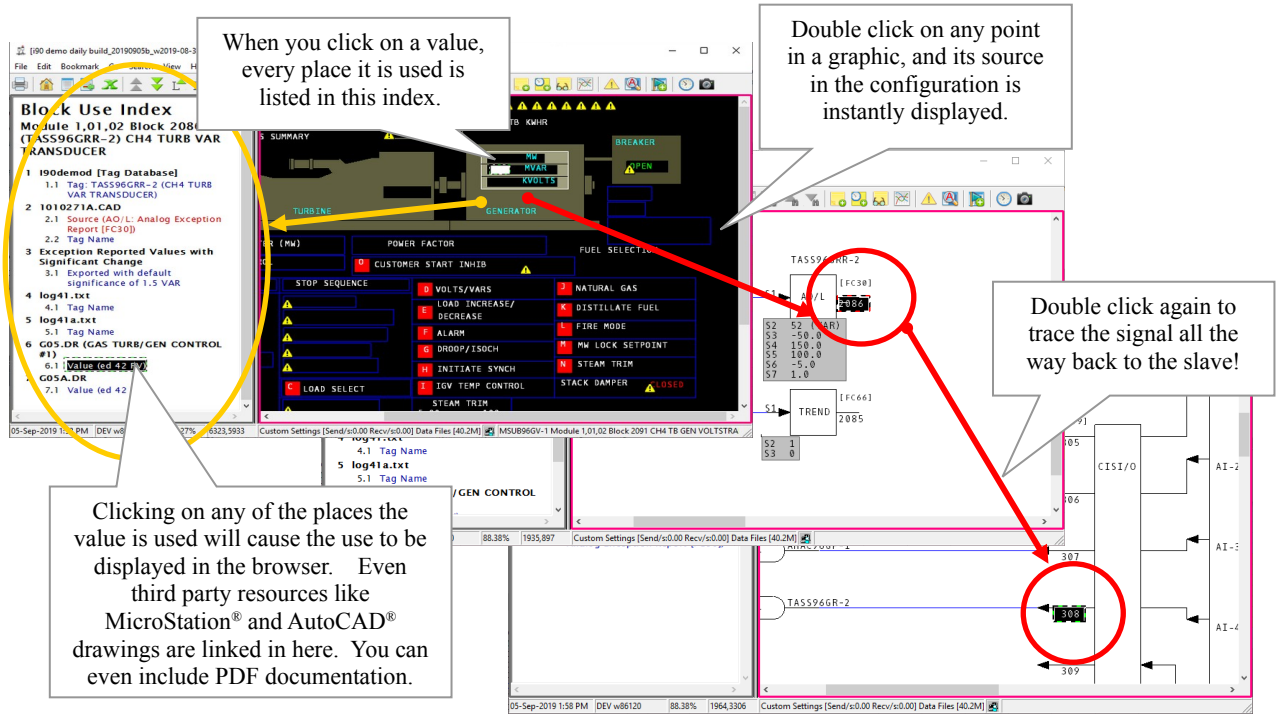
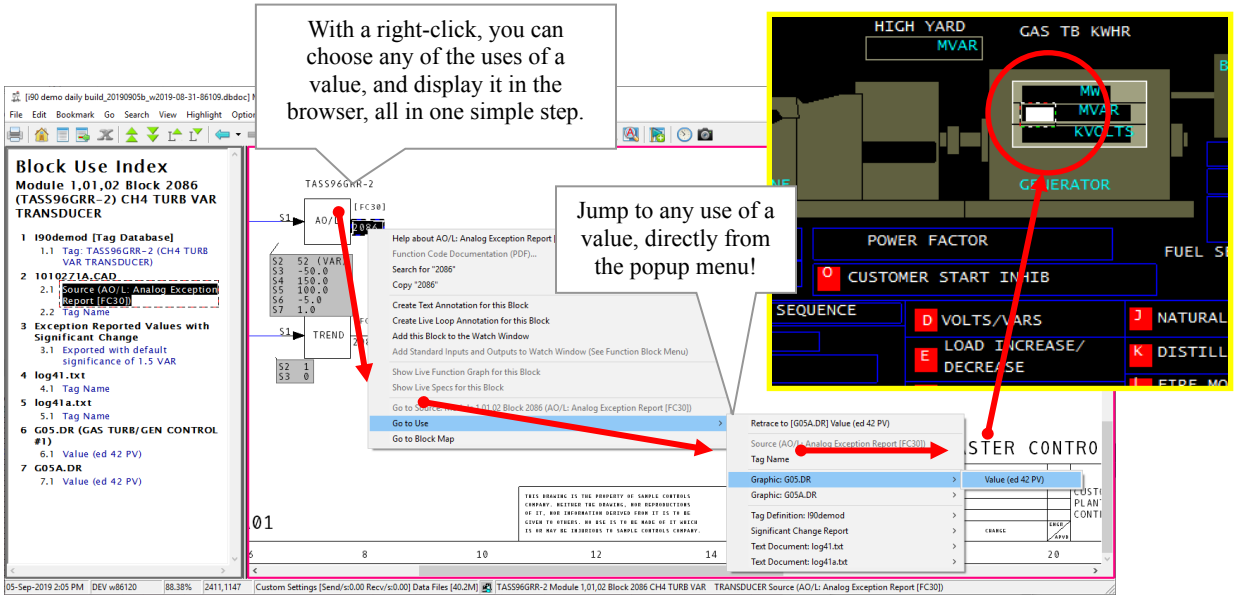
Signal tracing and troubleshooting have never been easier.

DBDOC's unique **point and click browser interface** makes it easy to trace signals throughout your system. Every resource is cross-linked and at your fingertips, making for efficient and effective troubleshooting.

- Just **double-click to trace a signal** from a graphic all the way to the slave.



- **Right-click to follow any use** of a value, from configuration to graphics.



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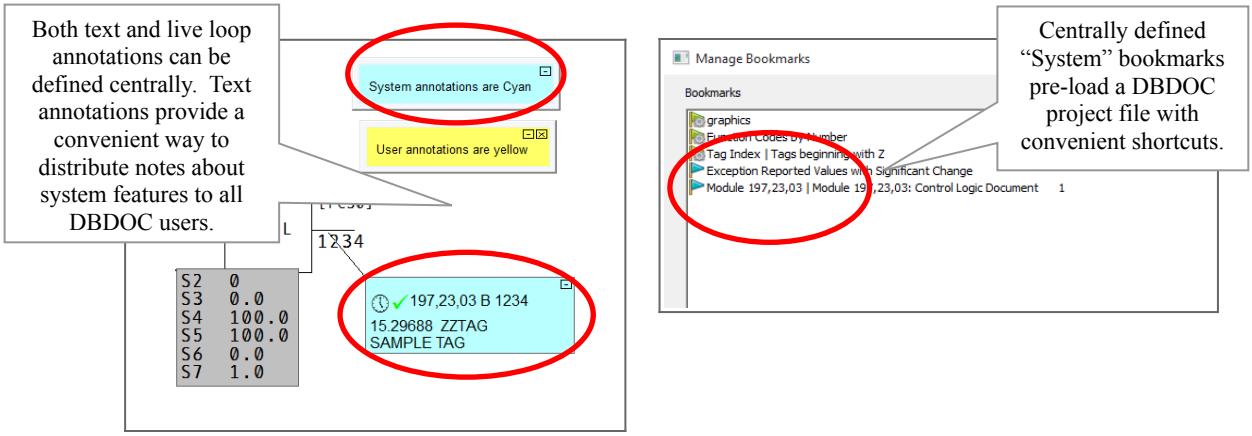
Bookmarks, annotations & home pages can be defined centrally for all users.

Hyperview is typically used by multiple users at a site, often by dozens. The DBDOC admin can define "System" bookmarks, annotations, and home pages centrally, which are automatically available to all the viewers of a particular project file.

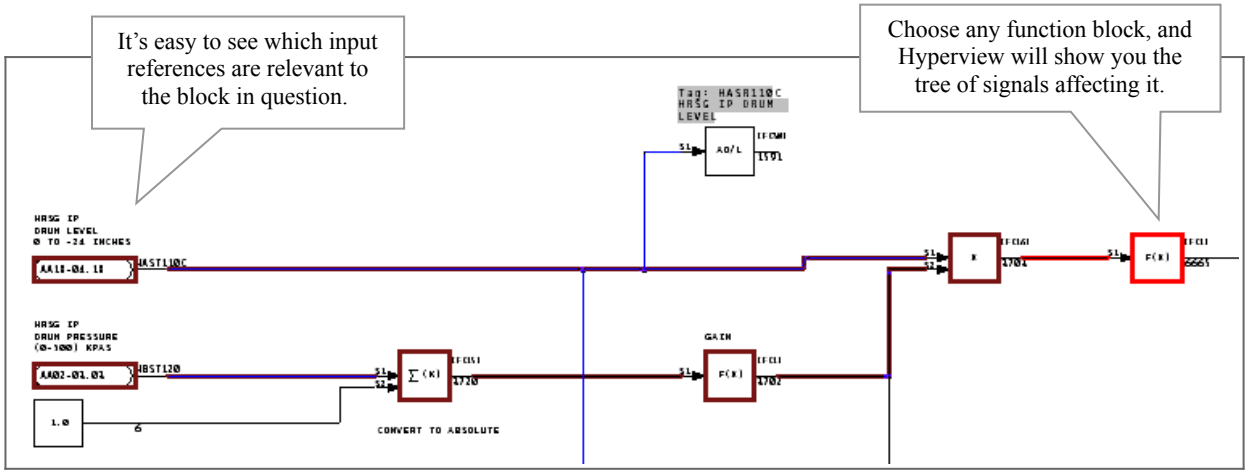
- Define a System home page as a convenient default for all users.
- Create System annotations, to distribute notes about project details to all users.
- Create System bookmarks to serve as useful shortcuts automatically available to all users.



Visual signal tracing tools let you see dependencies at a glance.

DBDOC can show you **input and output trees** for any block, allowing you to understand control flow at a glance, and making it even easier to trace connections and track down problems.

- Just right-click on a function block to see the **input tree** of signals that affect it. This tree can be traced to other CAD/CLD sheets via the input references.
- You can show the **output tree** for a block just as easily. As you trace signals onto other sheets, you can visually confirm that they are affected by the output of the original block of interest.



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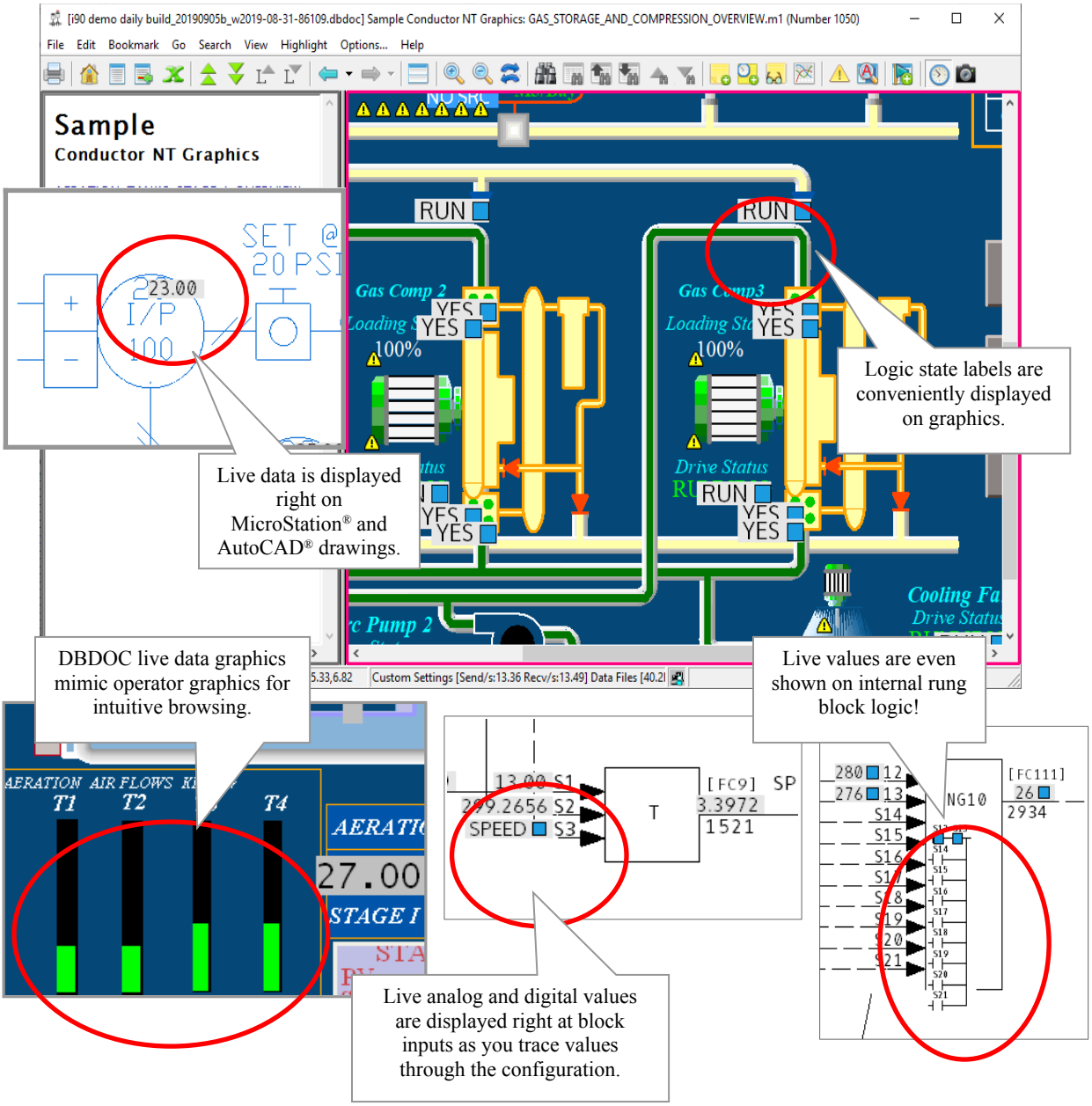
Safe, read-only live data on every document.

- A **safe, read-only** view of live system data.
- Convenient **NERC compliant remote access** to live system data.
- **Incredibly efficient fetches**. DBDOC never fetches data you can't see.
- Live data on **MicroStation® and AutoCAD®** drawings.
- Live values in **ABB® Rung Block internal logic** shown right on the CAD or CLD.
- With add-on **RoviSys Turbo®**, live data can be increased 2-10x with decreased system load.



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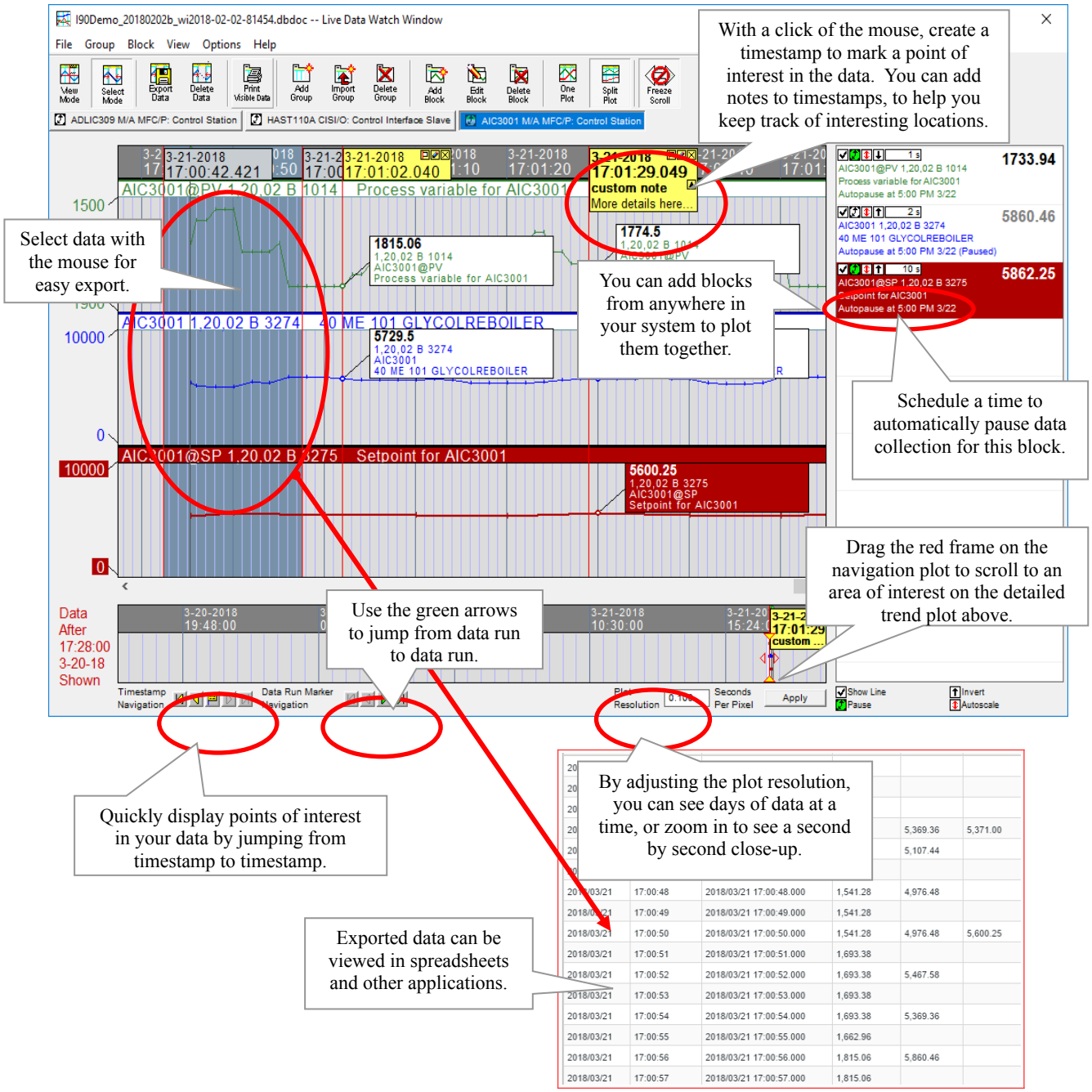
Plot and export live data for any block in the system.

- **Plot live data from any block** in the system, including blocks without tags.
- **Automatic logging** of all plotted data.
- Mouse drag selection makes it easy to **visually select and export** data.
- Easily **import data into other applications** such as Microsoft Excel® for analysis.
- **Scheduled pauses** to make data collection pause automatically when it is no longer needed.



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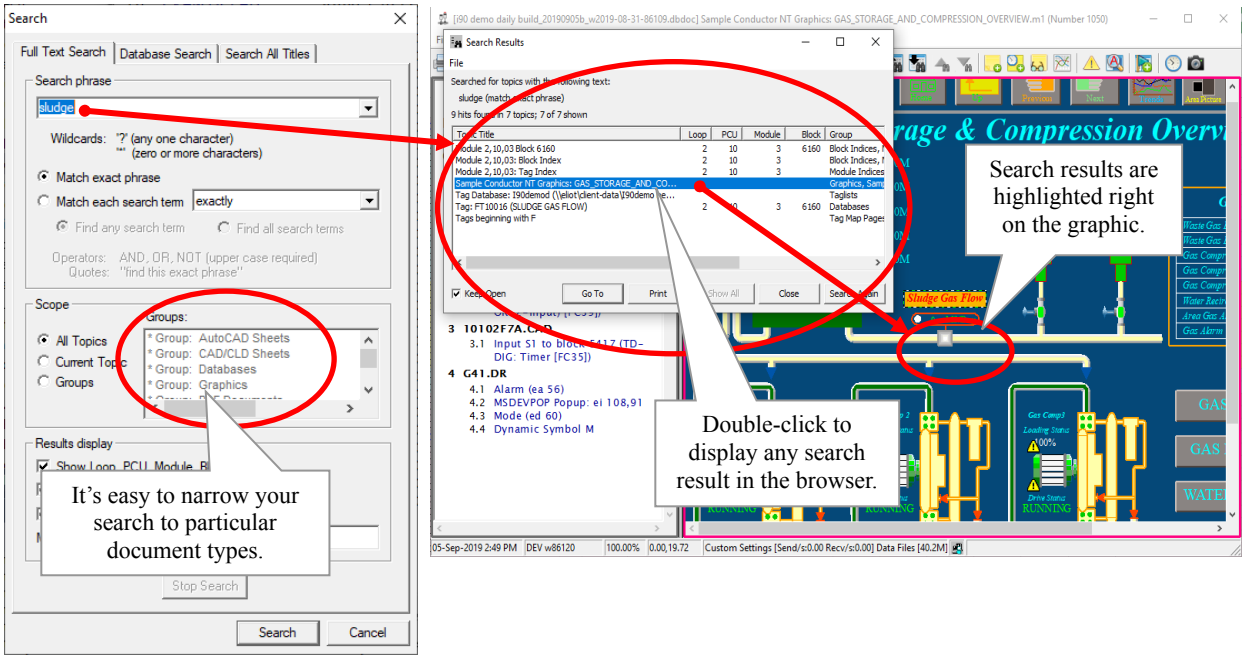
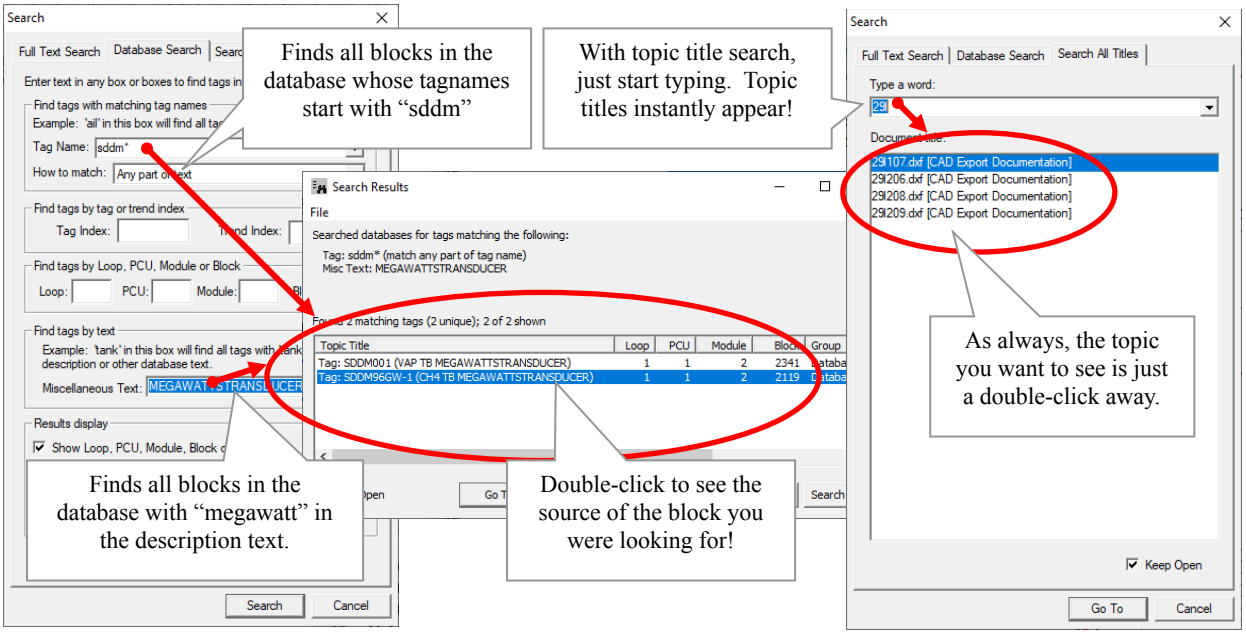
Search documents or the database for text or blocks of interest

With DBDOC, you can instantly **find any word or text** in your Harmony INFI 90 system. All document types, including CAD sheets, graphics, databases, AutoCAD sheets, text files, embedded PDFs, batch and ladder files can be searched with equal ease.

- **Full text search** allows you to find text anywhere in your system, in any kind of document.



- **Database search** makes it easy to find particular blocks by number, tagname, or description text.
- **Topic title search** lets you find topics of interest interactively and incredibly quickly.



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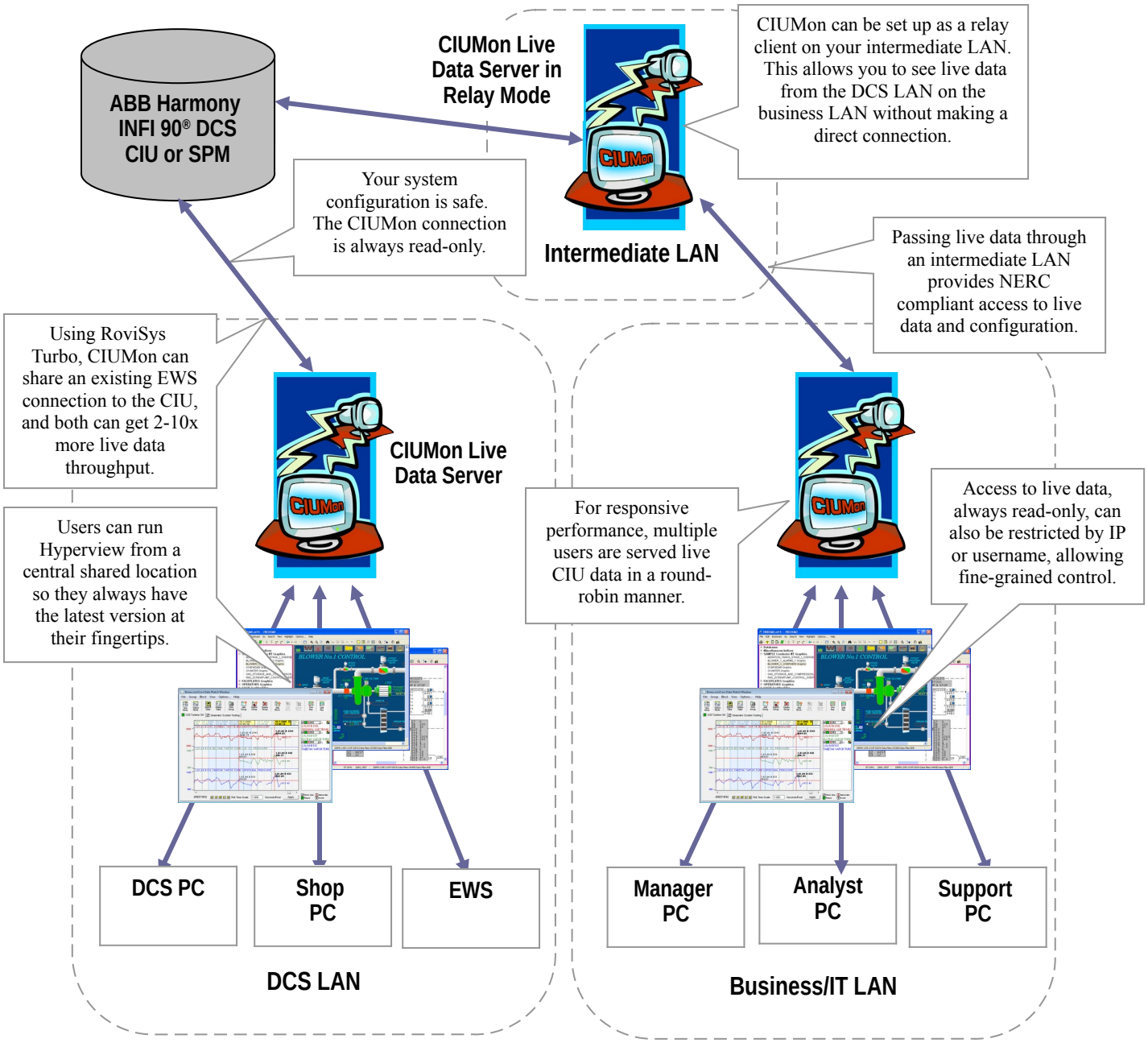
Safe, read-only system access from the business LAN and offsite.

- Safely troubleshoot, perform system analysis, and train support staff on your **business LAN**.
- DBDOC provides **read-only access to your system** at home, on courses, and on other projects, and in other parts of the plant.
- For **total NERC compliance**, a relay server can be used to pass live data via an intermediate LAN.
- With add-on software **RoviSys Turbo®**, get 2-10x more live data without overloading your system.



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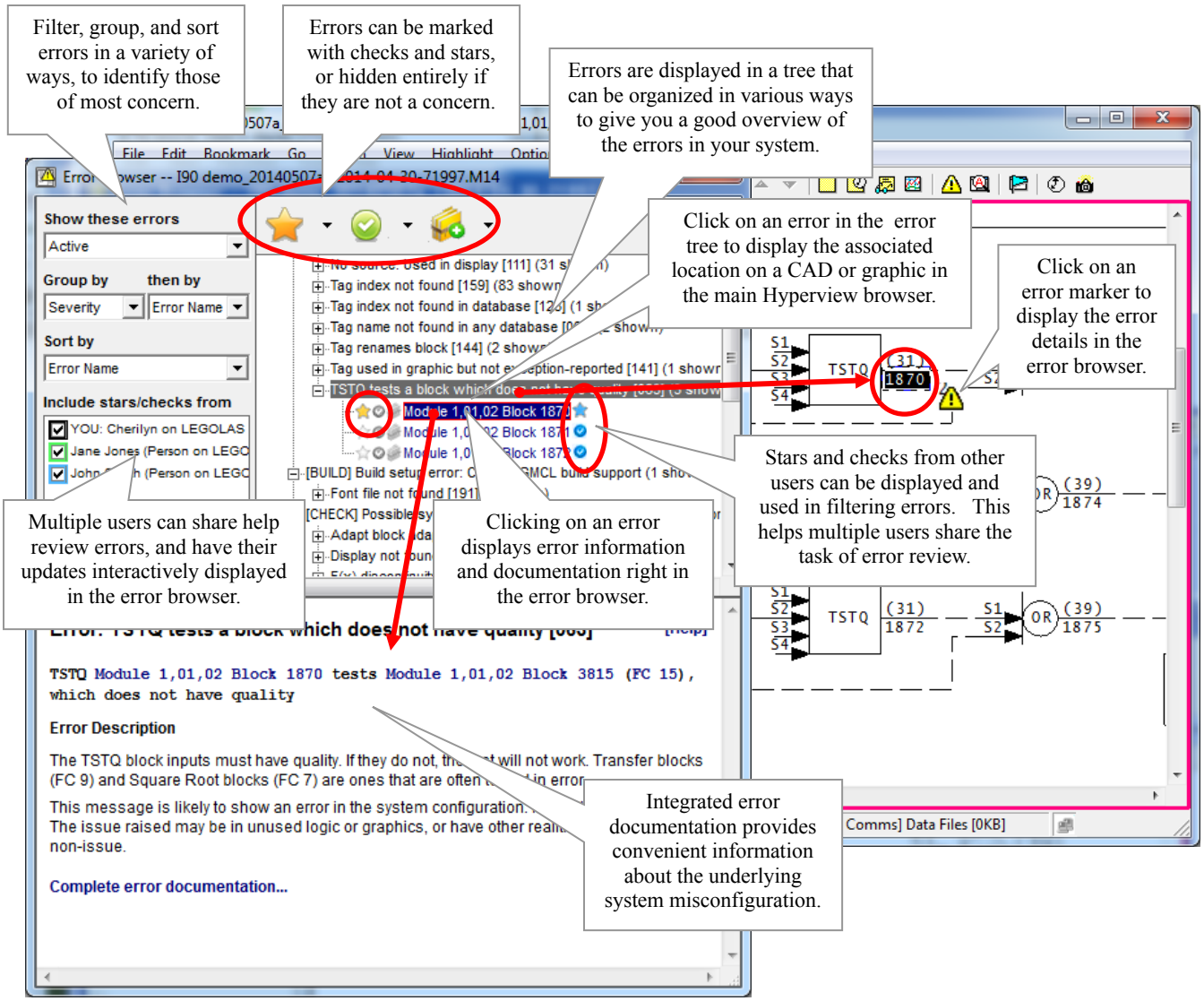
View and manage system errors with the integrated error browser.

- While building your project file, DBDOC **detects errors in your system configuration**. These are built right into the project file and can be viewed using **the integrated error browser**.
- You can **review** errors, **flag** them for attention, and permanently **hide** them from view.
- Errors are **classified according to severity**, so you can easily focus on those that are most serious.
- Errors can be **filtered, grouped and sorted** in a wide variety of other ways, to make them easy to understand and correct at the source.
- **Click on an error to display its location** in the main Hyperview browser.
- Error **documentation** is built right into the error browser.



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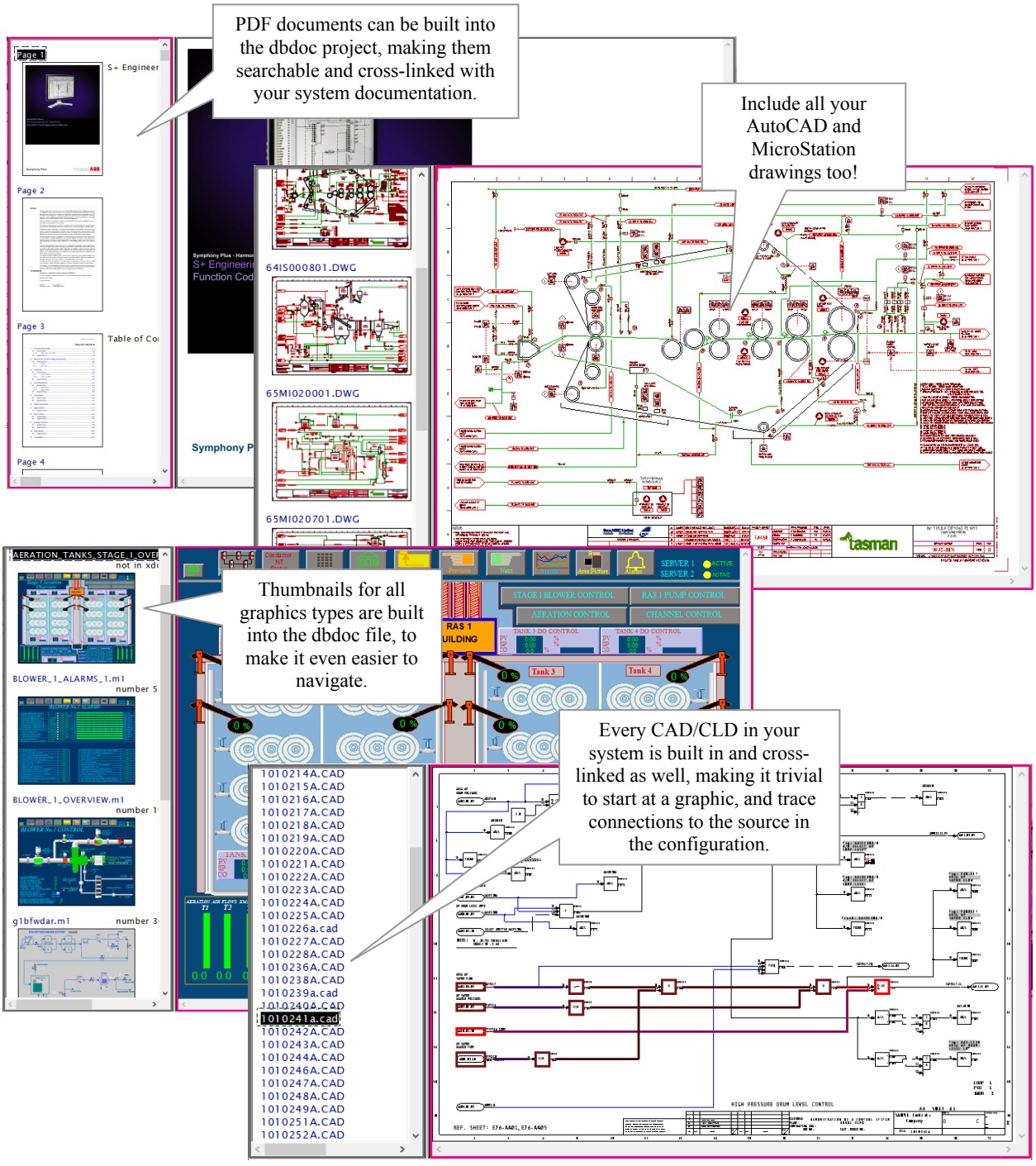
View graphics, PDFs, and third party drawings.

With DBDOC, you can integrate system graphics, third party documents like AutoCAD and MicroStation drawings, and arbitrary PDFs into one cross-linked and searchable representation that you search and browse. Text documentation and many other system support documents can also be included. You can even include documents with links to external URLs – they will be opened in a web browser.



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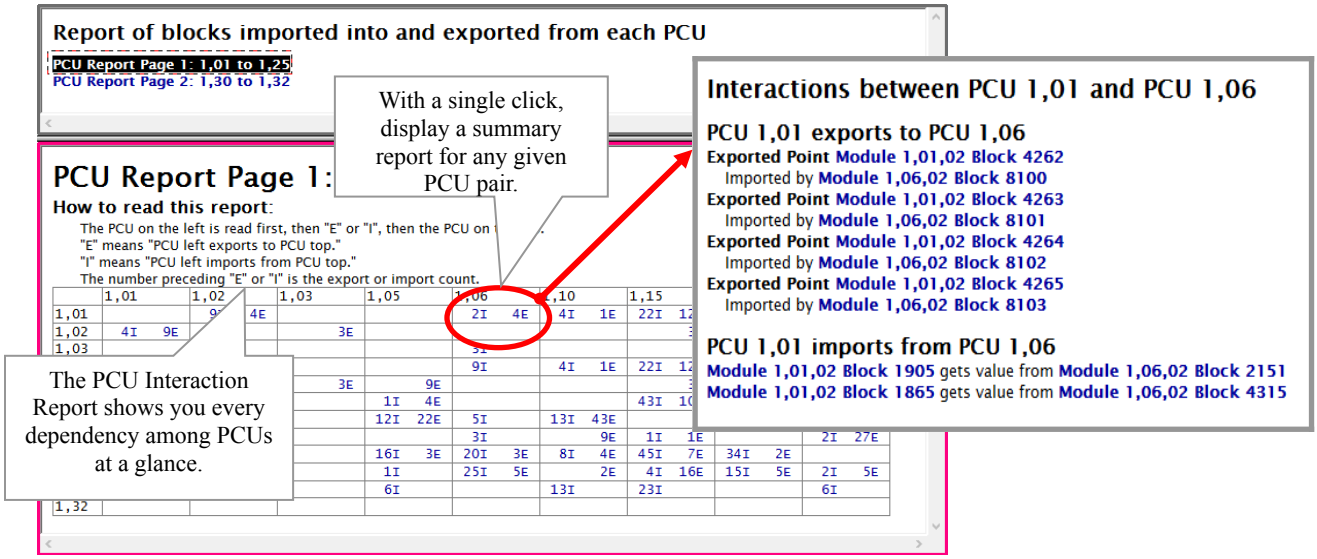
Integrated tools, reports, and indexes make your job easier.

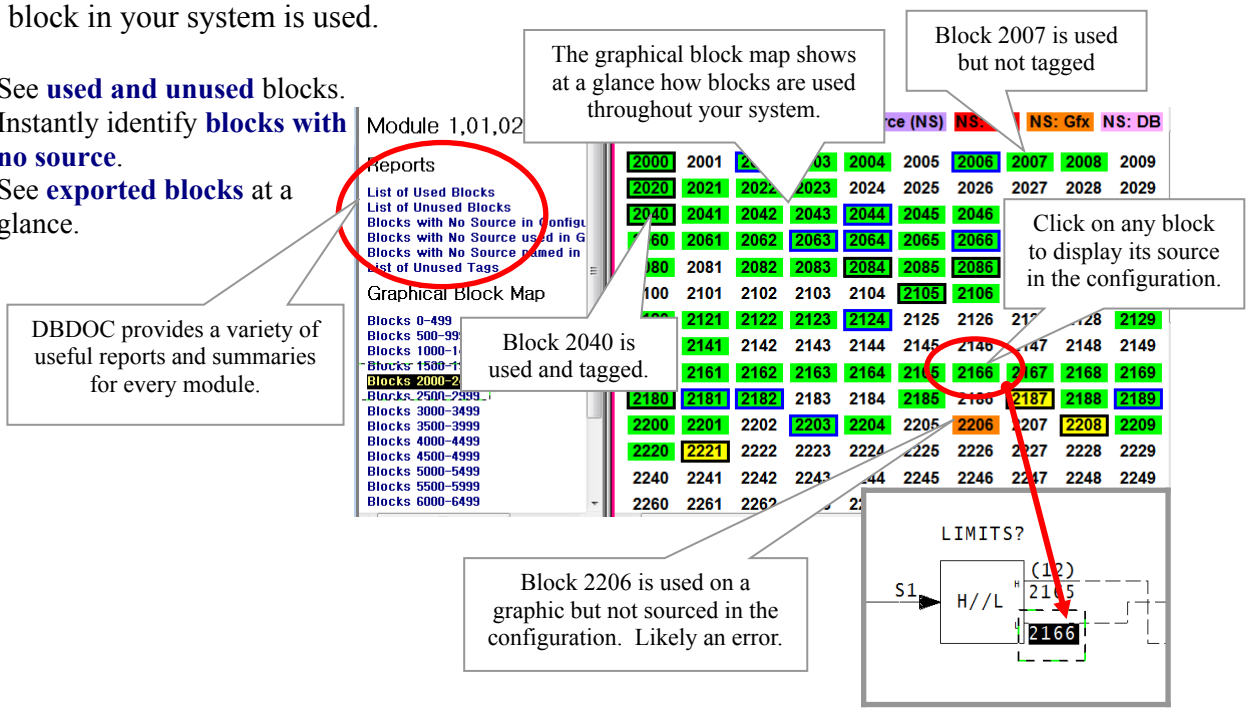
Without DBDOC, there is no easy way to see which blocks are imported from and exported to PCUs in your system. Figuring this out manually is laborious and error-prone. With DBDOC's **PCU Interaction Report**, this **import and export information is at your fingertips**.

- Find every block exported by a PCU **before taking it out of service**.
- Decouple parts of the plant by **finding and addressing dependencies**.



One of the many tools DBDOC provides is a **graphical block map**, showing at a glance how every block in your system is used.

- See **used and unused** blocks.
- Instantly identify **blocks with no source**.
- See **exported blocks** at a glance.



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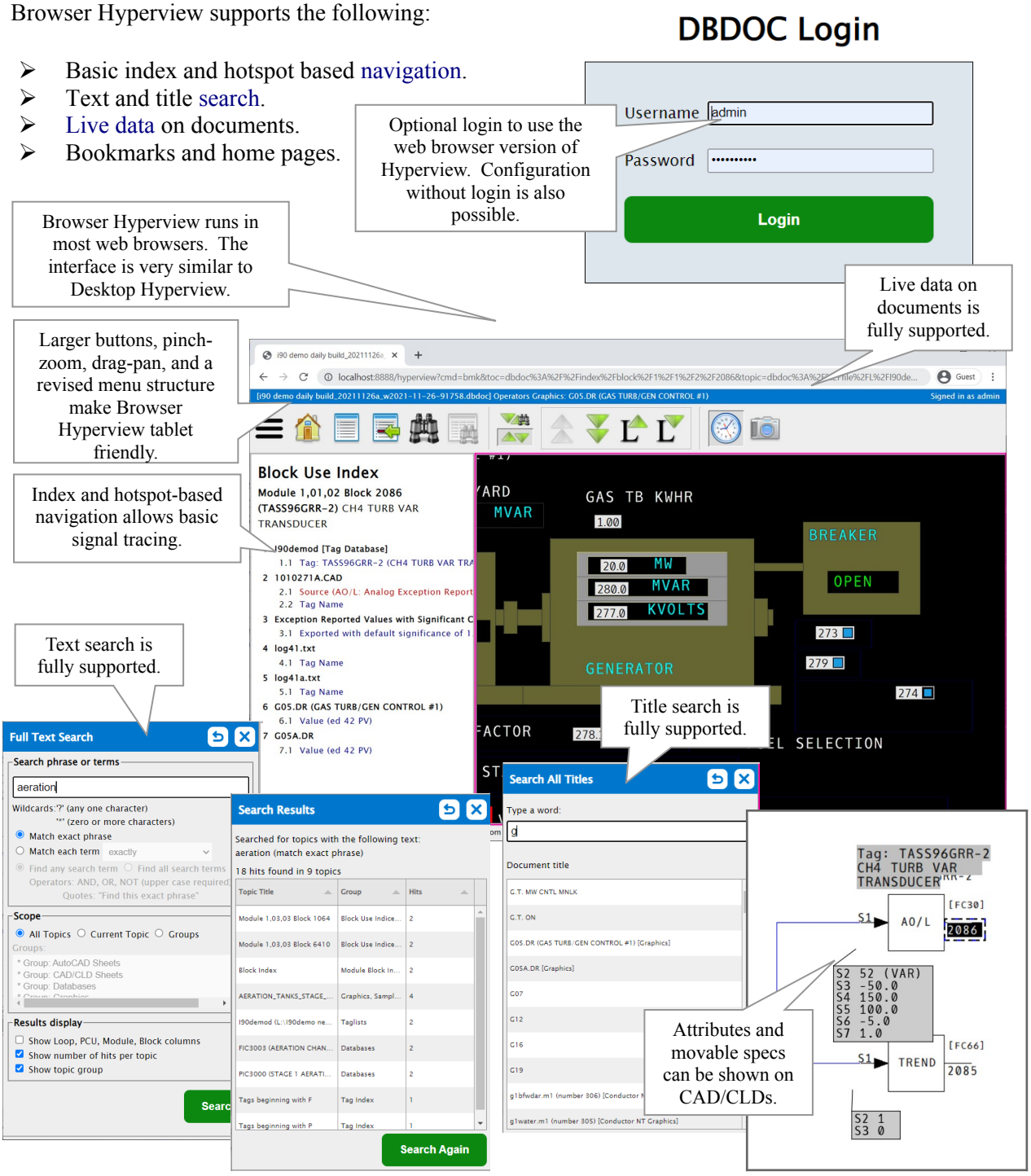
Hyperview in a Web Browser

The Hyperview Web Application supports Hyperview's basic functionality in a touch-screen friendly browser framework. It is suitable for tablets over wifi, and in most browsers on any networked machine. User accounts can add an extra layer of security.

Browser Hyperview supports the following:

- Basic index and hotspot based navigation.
- Text and title search.
- Live data on documents.
- Bookmarks and home pages.



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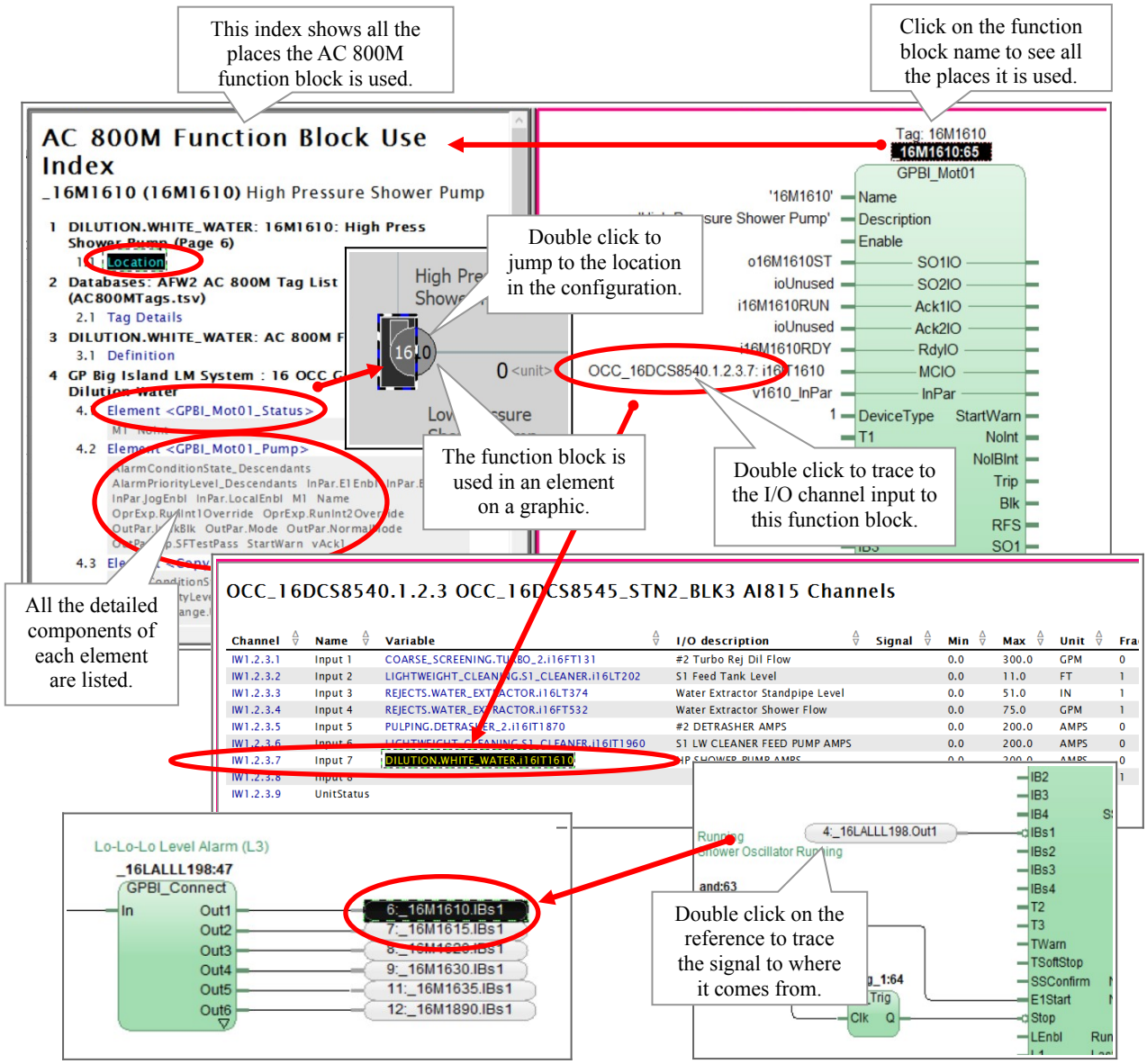
Support for AC 800M Systems

DBDOC supports AC 800M. Whether your system has both INFI 90 and AC 800M or AC 800M only, DBDOC will provide full navigational and search support (live data is not yet supported in AC 800M).

- Click on an AC 800M function block to see all the places it is used.
- Double click to trace signals to their I/O channel source.
- Search configuration, sequence diagrams, definitions and more quickly and easily.
- AFW files are interpreted to create graphics.
- AC 800M database is searchable and linked alongside other databases in a mixed system.
- Multi-page sequence diagrams are automatically stitched together for easy visualization.
- Elements and their components on 800xA graphics are located and linked.



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