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Wiretrace Studio is an authoring tool to build interactive schematic diagrams using WebCGM or CGM level 4 files. Wiretrace Studio publishes a deployable viewer, the P2pViewer, that allows for the ability to search 100s to 1000s of diagrams based on reference designators, component types, wires, signals, powers, grounds, and systems. Such search results allow technicians to find circuits, highlight them as well as color trace them across multiple diagrams. The P2pviewer can interface to any IETM where each send data to navigate to appropriate information within each, where the P2pViewer highlights the request on the CGM diagram. The P2pViewer can also reference other media, such as flash movies, pdf files, raster graphics and even 3D simulators. Wiretrace Studio can also build S1000D wiring modules from non-interactive legacy schematics!

The entire collective of information for an interactive tool can be managed through Wiretrace Studio without IT personnel. Wiretrace Studio supports Oracle, MS SQL, MySql. In fact Wiretrace Studio can port to any of the supported databases with just a click of a button.

Transform dull and static schematic diagrams into colorful, S1000D compliant, and interactive tools that improve proficiency, productivity and lower Mean Time To Repair of complex electrical, hydraulic and pneumatic system with Atlas' tool suite.

Update:

Wiretrace Studio is now hosted in a secure DoD compliant IT environment, Micorsoft's Azure Government. No more worries of hardware, networking or software DoD compliant IT requirements. Nor is there the need to worry about expanding hardware needs, as your project grows the cloud grows with it.

Here are a list of features:

Wiretrace Studio:**Databases and Display formats:**

1. Supports WebCGM and CGM level 4.
2. Has CGM editing abilities.
3. Supports Oracle, MS SQL, MySql and Access databases.
4. Intuitive user interface that is easy to learn.

Project Definition and Management:

5. Describes systems as sets of hierarchical relationships in a graphic representation that allows for effectivity or applicability (vehicle versioning) management, navigation tools



as well as a bird's eye view of a system(s) architecture.

6. Provides Auditing and traceability of processes.
7. Provides progress reporting of diagram processing across all system levels.
8. Multi-seat management to control work distribution where System level to diagram level access is controlled preventing work collisions.

Diagram Processing:

9. Has a cleansing tool that prepares diagrams for processing that includes de-duping of redundant text and ploy lines.
10. Uses text pattern recognition to identify assemblies, wire bundles/harness, splices, wires, signals, powers, components and connectors from reference designators and hotspots them.
11. Imports part list data to identify unique component types and automate pattern templates.
12. Differentiates between components and wire lines on a diagram and hotspot the wires.
13. Labels the wires and associates them to pins on components or connectors.
14. Determines pass through connectivity and/or terminations, completely automating the "To From" data capture, no manual entries required.
15. Builds hierarchical component relationships that determine component containment and connectivity.
16. Manages wire bundles/harnesses where each wire's pass through is identified and can uniquely colorize multiple lines through the bundle/harness line eliminating the need to redraw the schematic with multiple lines.
17. Maps and hotspots pin labeling of plugs or jacks.
18. Automates hyper-linking of diagrams and allows for hyper-linking to multiple diagrams without having to type urls or use a programming language.
19. Automates cross diagram traces.
20. Has file tampering detection, notifying when and if a diagram has been modified outside of the Wiretrace Studio environment, even if Wiretrace Studio is not running.

S1000D:

21. Builds **S1000D** wiring modules from captured schematic data.

Peripheral Application Interfaces and Media Associations:

22. Easily associate media to reference designators on the schematic without proگرامing.
23. Builds parameter interfaces to other applications without programming and associate indexing or navigation through the IETM or other tool such as a 3D simulator.

QA Controls:

24. The QA of diagrams is not simply a visual inspection or manual process of clicking and hovering over hotspots, but a validation process that checks database integrity, diagram consistency and cross diagram fidelity among other checks This insures that the



automated processes get the job done right!

25. All QA processes are traceable and can be audited.

Searching and Indexing Capabilities:

26. Searches text through herds of CGM diagrams and organize a navigational display of results, similar to a word processor find/search feature.

27. Indexes data from diagrams to database.

28. Can search database based on System and diagram names, reference designators or element types.

API:

29. Comprehensive API for customizing new features and integration to other software services and tools.

Publishing and Updates:

30. Easy to maintain process for updating diagrams.

31. Produces a final output of a complete P2pViewer with data, diagrams and media ready to deploy and on any x86 32 or 64 bit laptop or tablet using Windows XP or later!

P2pViewer:

1. Supports WebCGM and CGM level 4.
2. Supports Oracle, MS SQL, MySql and Access databases.
3. Allows a technician to navigate a system through an intuitive searchable tree view system hierarchy or search its database by a diagram or reference designator.
4. Will highlight search results on diagrams.
5. Allows a technician to custom colorize wiring on a diagram.
6. Has a transparent color palette that can be left up.
7. Will Automatically colorize all power, grounds or signals on a diagram with one click of a mouse button.
8. Technicians can draw on the diagrams and write notes.
9. Can store custom colors for systems or diagrams as a standard colorization for the diagrams.
10. Navigates to hyper-linked diagrams and provides list selections for multiple hyper-linked items.
11. Stores navigation history indefinitely.
12. Has a multiple document interface with fly out windows that list elements on the diagram by type.
13. Will instantly reference media or other apps for individual elements on a diagram by clicking on an element.
14. Has overhead display to navigate while zoomed in on diagram.
15. Can capture zoomed in areas and save in most any raster format and/or print the area.



16. Will interface with any 3D, 2D simulators and IETMs and/or any application supporting command line interface including browsers.