DGNconform

The MicroStation Office Manager

DGNconform is the Automated MicroStation Office Manager providing an easy-to-use and intuitive solution to Create, Validate and Assure DGN file data. A server-based, enterprise solution, DGNconform provides users the ability to easily create and maintain drawings to a set standard and significantly reduces time spent reworking and correcting symbology during and at the end of a data capture or design project.

Central Database for CADD Standards

DGNconform provides a single repository of CADD standards through an ODBC database architecture. It distributes and stores CADD standards over a corporate Intranet, ensuring that CADD standards are maintained from one overall data source.

Administration of the database is performed through a MicroStation dialog driven interface, but direct changes to the database can also be performed using a database application such as Microsoft Access or Oracle. The server is used only as a repository, thus eliminating any network traffic overheads when there is no data being read or written to the database.

This central repository guarantees the latest CADD standard dictionaries are distributed to and used by team members. Multiple dictionaries for separate disciplines or projects can be stored in the same shared database for easy administration to various project teams.

Encrypted dictionaries and privilege based access makes certain that CADD standards can only be modified by the administrator and users with access, preserving the integrity of dictionaries in the database.

Eliminate Complex Setup and Improve Productivity

As a server-based system, DGNconform provides easy setup and distribution between team members. The point-and-click, graphical user interface of DGNconform breeds familiarity, reducing any downtime for new team members to get productive with the software. Dictionaries from DGNconform can be exported and provided to external consultants ensuring a unified drafting process and system.

Corporate Montage can further create project installers that is easily delivered to consultants for easy deployment of workspace data.

User Account Management

The DGNconform User Manager allows administrators to add, edit and manage user accounts all from one dialog box. Administrators are able to control levels of permissions and user privileges with DGNconform. This includes types of tools they can see, read-write access to the CADD standards database, locking users to specific databases and/or feature tables and certification and watermarking privileges.

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Comprehensive Feature Control

DGNconform supports the most common MicroStation features including shapes, linear elements, text, dimensions and cells. DGNconform provides complete feature control with the ability to define colour, style, weight and level for all elements in the Feature Table. This can include definition of the criteria ByLevel, ByCell or by an allowed range. Levels can be defined by any level name, number or range of levels.

Verification and correction can also be conducted on 'Element Class', 'Line style scale' and 'Graphic Group'. Users can use these Feature Tables to draft with, check and correct invalid features using Conform, or generate reports on a design file.

Advanced Support for Feature Types

The majority of CADD standards have very specific requirements regarding particular feature types. DGNconform provides advanced criteria for drafting, checking, conforming and reporting these feature types:

Cells:
- Cell name
- Cell type (graphic or point)
- Cell angle
- Cell scale (X, Y, Z)
- Cell library
- Cell definition
- Cell component levels

Shapes:
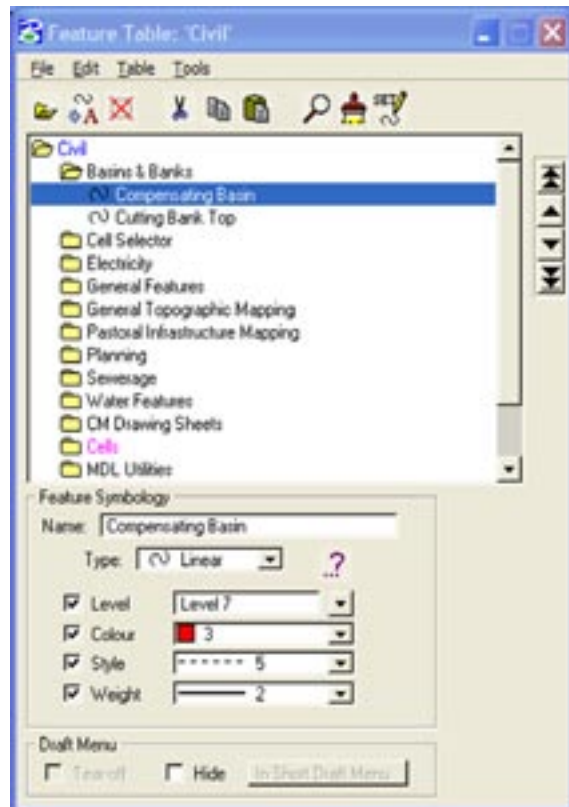- Fill type and Fill colour

Text:
- Full support for Text style and overrides in MicroStation V8
- Text width and height
- Font name or number
- Text node line spacing

Dimensions:
- Dimension line symbology
- Dimension style and style overrides
- Extension line symbology and geometry
- Terminator geometry and orientation
- Dimension text width, height and symbology
- Dimension text orientation, justification, margin and text frame

The Feature Table Editor

Easy Creation of Feature Dictionaries

DGNconform eliminates complex setup of dictionaries and feature tables by providing several methods of dictionary creation to allow for different organisational situations.

Dictionaries can be created through the Feature Table editor via point-and-click on any design file (DGN) or AutoCAD drawing file (DWG), eliminating editing of cumbersome text files.

Feature dictionaries can also be created through importing various CADD standard file formats including ASCII text files, CSV files, Bar Menu (MDF) files, Settings Manager (STG) files, SiteMenu™ and GeoPAK™ D&C Manager text files, Steel Definition files, J/Check RDL files, GDM ASCII rules files, cell libraries, spreadsheets and database tables.

Features can also be read in from an active design file that has been determined to have met the defined CADD standard.

Create files to a standard automatically

The DGNconform Drafting Menu allows users to automatically create design files to specification from the beginning of the drafting phase. An automatic keyin recording ability allows administrators to record Drafting menu keyins for each feature in the Feature Table, which is then made available through the draft menu. When a feature is selected from the Feature Table in the draft menu, the symbology for the feature and the command that the feature is to be drawn with is automatically set and applied for the user.

The Draft menu is completely customisable with resizable and dockable dialog boxes, tear-off menus and menu or list-box interface. This allows the user to create a custom workspace that matches the way they work. The Draft Menu can also contain tables with commands to run MDLs, making it a complete drafting tool for the user.

Check and Conform DGNs to Standard

Similar in function and design to a spell-checker, DGNconform's checking and correction component 'Conform' uses the Feature Tables to convert design files to known symbology requirements. Conform will scan every element in the active design file to check if it has a matching feature in the loaded Feature Tables.

When a feature is detected that is not listed in the Feature Table, the element is optionally highlighted, zoomed and selected in the view window. Conform will provide a suggested list of known features displayed in order of closest match to the unknown element. Additionally, Conform alerts the user as to why an element does not match a feature. Unknown features can then be ignored or changed to an existing feature in the Feature Table. Optionally, the feature can also be added to the Feature Table if it should be in the current standards table.

Conform also has the ability to scan within complex components such as cells, complex chain and text nodes.

Reports for Review Management

DGNconform can scan, verify and report on the integrity of design files. The Report Generator is used to create reports on a list of design files that do or do not match any of the features in the chosen Feature Tables. The Report is generated as a database table, either in the DGNconform Server database, or in a separately chosen ODBC data source (as defined by the user). This database table can then be printed out, converted to a text file or other file format, or used to generate a customised report, by using a database application such as Microsoft Access or Oracle. DGNconform also provides a batch reporting function to enable reporting to be conducted on a number of files at a time.

Standard reports include:
- Report information
- Design File Information
- Error Summary Report
- Detailed Error Report
- Feature Summary
- Watermark Status

With its interactive functionality, DGNconform will find an associated feature/error in the design file through selection on an element in the report view. This enables users and administrators to quickly and interactively view and verify any errors in the design file.

Watermarking for Quality Assurance

DGNconform provides the ability to certify a design file as drafted to standard by placing an encrypted watermark. The watermark is customisable to match corporate logos. The watermark contains the following information:
- Who certified the drawing
- Feature tables used for certification
- Number of elements in drawing when certified
- Validity of the watermark

The watermark also contains encrypted information about the design file, which allows DGNconform to detect when a change is made to the design file or one of the reference files. The watermark is invalidated when the design file does not conform or has been modified.

DGNconform Characteristics

Enterprise standards management solution	Full support for MicroStation J, V8 & 2004
WYSIWYG Productivity Tools	Simple to Use
Customisable Drafting GUI	Network pool license management
Easy deployment to consultants and remote users	Easy to configure and setup
Minimal maintenance required	Centralised database environment
Full integration with document management systems	Point and click drafting to standard - "Set & Forget"
Supports multiple drafting standards	Dynamically build feature tables
Comprehensive support for all MicroStation features	Secure solution with encrypted dictionaries
Checking and conforming tools	Interactive reporting and error checking
Batch file reporting	Automatic keyin recording
Flexible feature definitions	Interrogation and validation of existing watermarks
User profile management	Quality Assurance Watermarking
Automatic login and password saving	Import existing CADD standard files

System requirements:

MicroStation J, V8 or 2004 for Windows 98, NT, 2000 or XP.

The full version of DGNconform requires an ODBC compliant database application for administration (e.g., MicroStation Access, SQL Server, Oracle etc.)

An AutoCAD compliant version is available with Corporate Montage's DWGconform.

DGNconform

www.cadconform.com

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