
PRODUCT: SISfm – Facility Management Software Version 2.1 **SPD 10.02.01**
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Description

SISfm is a Facility and Asset Management enquiry application featuring graphical access to facility data based on maps and plans, based on the Cadcorp SIS Spatial Information System.

SISfm provides a friendly interface to large numbers of CAD, GIS and other facility documents, and integrates them with bespoke or proprietary facility databases, with flexible configuration to suit small or large organisations.

SISfm is developed by Integrated Facility Management, who maintain it as a state-of-the art product in close consultation with its customer base.

SISfm has the following extensive range of modules, features and functions:

Modules

User Interface

- runs as a standard Windows application with network access to file and database resources.
- utilises the following windows, all resizable to suit the user task at hand:
 - Main window – view of the current campus, building or floor level.
 - Key map window – display and move the current view on the campus.
 - Table window – current database view of searched or selected items.
 - Detail window – database details for a selected item.
 - Markup window – for adding graphical notation to the current view.
 - 3-D window – for viewing the current campus or building in 3-D.

Document Selection

- open any document explicitly.
- open a document using a link item on the current document; the item may have a list of links, such as floor levels in a building, when a selection menu is displayed.
- open a document previously opened in the session, by selection from a chronological list.
- add a document as a new overlay on the current view, with optional colour override.
- any document type can be opened via a link; documents may be displayed within the main window, or in any external application according to its Windows file association.

Graphics User Interface

- display the current status, showing map scale, dynamic pointer position, selected item count and help prompt.
- display tooltips for facility items, showing lists of their native or linked database attributes.
- show or hide a key map.

Graphics User Interface (continued)

- show or hide display of an overlay, in a hierarchical name tree.
- select the visibility of overlays.
- select *hittable* overlays, for which facility items are selectable and have tooltips.
- change the order of overlays.
- add a filter to an overlay to select the facilities it displays.
- add a theme on an overlay, displaying facility attributes as:
 - Labels
 - Individual Values
 - Ranges
 - Bar Charts
 - Dot Density
 - Extruded items in 3D views
 - Graduated Symbols
 - Pie Charts
- add a statistics theme on an overlay, an individual values theme with legend showing total number, area and perimeter length of facility items, such as rooms in a building.

Facility Viewing

- pan the view by clicking on a new centre position on the view, or on the key map.
- zoom to a specified scale.
- zoom in or out by a factor of 2.
- zoom to enclose the extents of visible overlays.
- zoom to enclose the extents of selected facility items.
- zoom to a Named View by selection from list of custom defined names.
- zoom into the view by specifying a rectangle using two clicks on the view, or on the key map.
- zoom in and then back out again (bungee).
- zoom out and then back in again (rocket).
- rotate the current view by an angle or by using two points on the view.
- magnify an area attached to the pointer.
- view an overlay through a “keyhole”.
- return to the previous view.
- return to the original view.

Item Selection

- select facility items individually, to start a new selection or add to an existing selection.
- select facility items within a user drawn polygonal boundary.
- select facility items within a circular or elliptical boundary.
- select facility items within a given distance, or "buffer zone", from currently selected items.
- clear an existing selection of facility items.

Measurement

- measure the area of selected facility items.
- measure the length of a user drawn line.

Markup

- select from custom libraries of point, line and area symbology styles.
- point symbology supports symbols of any complexity created from vector and raster primitives in multiple colours.

Markup (continued)

- line symbology supports multiple colours, system and user defined multiple dash and embedded symbol patterns, fixed or fitted to line geometry, user defined multiple offsets and thicknesses, round or square end caps, and multi-level symbology nesting.
- area symbology supports colour transparency, with patterns both system supplied and with user defined angle and spacing of line and rotatable point symbology.
- text style can be any Windows font and any size.
- add points, lines, polygonal areas, rectangles, circles, ellipses, text in selected styles.
- use standard Windows Undo, Redo, Cut, Copy, Paste, Paste From and Paste Special commands.
- print, export, copy to clipboard include current markup graphics.
- clear current markup graphics.

Printing

- select from a custom library of Print Templates, which define an area of any shape for print contents, multiple title block fields and frame graphics of any complexity created from text, vector and raster primitives.
- select print scale and rotation.
- place template area, attached to pointer, on map to accurately define print contents.
- place standard or custom North Point symbols on the print.
- place standard or custom Scale Bars on the print.
- update the text in title fields on the print.
- copy the print as a bitmap to the system clipboard, for pasting into other applications.
- save the print as a PDF file.
- send the print to any available Windows printer.

3-D Viewing

- display the current view in a three dimensional projection.
- display in wireline or smooth shading modes.
- set the angle of the cone of vision, and the viewing angle and elevation.
- set the movement mode:
 - Cruise Mode - move parallel to the ground, like cruising in a helicopter.
 - Eye Mode - change viewing angle and elevation, keeping the eye at the same position.
 - Model Mode - change viewing angle and elevation, keeping the centre of the data at the same position.
 - Pan Mode - move eye point up, down, left or right, keeping the line of sight parallel.
 - Zoom Mode - move eye point towards or away from the view, keeping the line of sight parallel.
- set a factor to exaggerate Z coordinates.

Graphics Export

- export the current view, or an individual overlay, in any of the wide range of CAD, GIS and image formats supported by Cadcorp SIS.
- copy the current view as a bitmap to the system clipboard, for pasting into other applications.

Database Integration

- select overlay for database viewing.
- select database view for the selected overlay.
- show database view of selected facility items.
- select rows in database view and highlight corresponding facility items on the graphic view.

Database Integration (continued)

- click on row in database view to display it in a details panel.
- display search panel and search on multiple columns in database view, using =, >, <, >=, <= and <> operators for numbers and dates, and =, <> and "like" operators for text data types.
- user defined SQL queries based on current search field contents.
- export current database view in HTML or CSV format, or copy to clipboard in tab-delimited format, for use in other applications.

ARCHIBUS/FM Integration

- for a facility item selected in the current view, display details in the ARCHIBUS/FM Facilities Management System; the type of display may be selected from a menu.

Utility Programs

- *SISfm Tools* – customises Cadcorp SIS Map Manager, Map Editor and Map Modeller to include equivalent functionality, including document linking, ARCHIBUS/FM integration, database integration and Named Views.
- *Area Export* – exports a table of facility (e.g. room) codes and their areas from multiple documents into a file or directly into a database as an insert or an update.

Requirements

Client Systems

SISfm clients should be minimum 1Ghz CPU and 128MB RAM with:

- Microsoft Windows 98 or later.
- Cadcorp SIS Control Development Module 6.1 or later.

Server Systems

Server systems may be used by *SISfm* to access:

- *SISfm* executable and configuration files.
- *SISfm* documents.
- *SISfm* databases.

Databases

SISfm supports ODBC compliant databases including:

- Microsoft Access
- Microsoft SQL Server
- IBM Informix
- Oracle 9i or later

Graphic Data

SISfm supports the entire range of graphic datasets that the Cadcorp product range supports, including:

- CAD formats such as those of AutoCAD and MicroStation.
- GIS formats such as those of ESRI and MapInfo.
- Image formats such as JPEG, GIF, PNG and TIFF.

Existing data may be accessed in its native formats, or imported and enhanced using the Cadcorp SIS desktop products available separately.

Licensing

SISfm software licensing details are covered in its software licensing agreement.

Documentation

SISfm includes comprehensive online help, designed to also be printed..

Training

SISfm has standard and custom training courses for system administrators and end users, including training courseware documentation.

Software Product Services

A variety of service options are available from Integrated Facility Management. For more information, contact your local IFM office.

The information in this version of this SPD is valid at the time of its release. Please contact your local IFM office for the most recent version of this SPD.

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