

## Feature Overview

### InfoCenter Suite Revision 1.6.0 EU with DESIGO V4



#### Description

InfoCenter Suite® is a data management and reporting package designed to provide solutions for customers with information management needs such as compliance reporting. It forms an essential component of the DESIGO™ Pharma market offering.

#### Overview

Introducing InfoCenter Suite® 1.6.0 EU, a data management and reporting historian for customers with information management needs that range from basic data management and compliance reporting to advanced archiving and complex analysis. Compatible with the APOGEE and DESIGO Automation System,

InfoCenter Suite provides a means to archive, manage, process and analyze facility information for applications ranging from energy reporting, fault detection, statistical processing, and data integration to management /compliance/validation reporting.

InfoCenter Suite 1.6.0 EU provides many significant enhancements designed to expand the target market for InfoCenter solutions. These enhancements provide new ways to evaluate and analyze facility information, green (environmental) reporting, report template mobility and additional filtering capability. While these new features should enable InfoCenter Suite to expand to new markets, improvements have also been made to better ensure existing customers have the best options to meet evolving regulatory requirements and other emerging information management needs.

The InfoCenter Suite solution and its associated products can be translated into any language where the text used on the computer operating system is represented by single byte characters. Languages using double byte characters are not supported. Supported languages include: English (US and British), German, French, Danish, Norwegian, Swedish, Finnish, Spanish. Translation is the responsibility of the Applicable Regional Company.

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# InfoCenter Suite Revision 1.6.0 EU with DESIGO V4

## Regions where this Product is Sold

InfoCenter Suite 1.6.0 EU is available for the APOGEE and DESIGO Automation System in the U.S., Canada, Asia Pacific, Latin America, and Europe. Note that this product cannot currently be translated to double-byte character languages such as Chinese.

## New Options and Features

### **NEW OPTION – InfoCenter Interactive - Interactive Data Analysis Option**

InfoCenter Suite 1.6.0 EU has a new option that allows the ability to easily view and analyze data that is available with InfoCenter Suite. The InfoCenter Interactive option allows you to quickly visualize facility data using an interactive interface that lets you dynamically analyze and present data. InfoCenter Interactive is an optional feature that is accessible via the InfoCenter Report Manager software. InfoCenter Interactive provides the following features and functions:

- More than 50 interactive charts that can be changed on demand
- A choice of more than 30 on-demand statistical analysis functions such as curve fitting, trend analysis, min/max/average, and standard deviation
- Multiple data visualization tools including 3D, rotation and zooming of the graph, depth adjustments, and a multitude of other formatting options
- Ability to copy and paste charted report data into a number of picture formats. Report data can be exported via XML, Excel, or HTML.

InfoCenter interactive can be used to analyze trend data stored within the InfoCenter Active volume. This option gives the user the ability to quickly examine data without the need for creating and generating multiple reports. Points can be added or deleted, date/ time changed, and statistics/ charts modified without closing the application, making InfoCenter interactive a great choice for troubleshooting or quickly verifying any monitored system's operation.

### **NEW FEATURE – Standard Model Report Templates**

Standard models are predefined reports that are optional add-ins to InfoCenter Report Manager application. The standard models contain specific formatting and data processing logic. Standard models provide advantages over existing Report Manager templates in that they require less time to configure and will incorporate complex reporting and analysis capabilities not available in the Report Manager application. Standard models are developed and aligned to specific business needs.

The following standard model is included with the InfoCenter Suite 1.6.0 EU solution:

- **Emissions Summary Report:**  
Generates a report that tracks greenhouse emissions based on energy consumption. This model allows the user to define the conversion factors for the different greenhouse emissions and create as many templates as necessary to meet their requirements.

### **NEW FEATURE – Export/Import of Report Templates– (Template Mobility)**

The InfoCenter Report Manager application now has a template export/import feature that allows you to transfer custom templates from one InfoCenter Suite system to another. This gives the user the ability to reuse previously designed templates from existing systems in new systems, significantly reducing setup time. Template mobility will allow branches to share templates among jobs and with other branches.

## **NEW FEATURE – Data Servers Filtering Capability**

You can now filter the list of APOGEE and DESIGO points that are available for collection via Data Server. The new filter will reduce setup time by eliminating the burden of manually scrolling through every point in the database. The filter is based on one or all of the following:

- Trended or Not Trended
- Point Name wildcard

## **NEW FEATURE – System Activity Column Display and Data Filtering**

In the System Activity dialog box, you can now select which columns are displayed and the order they display in. Your selections are automatically saved, retrieved, and re-applied each time you open the System Activity dialog box. You can also create, edit, save and delete filters which can be applied to the displayed system activity data. This new filter will make it easier for the user to sort and search through System Activity.

## **NEW FEATURE – Operating System/SQL Server Upgrades**

The InfoCenter Suite 1.6.0 EU solution supports the following new operating system and software programs:

- Windows 2003 Server R2
- SQL Server 2005 (InfoCenter Suite Advanced) and SQL Server 2005 Express (InfoCenter Suite Base)
- Internet Explorer 7.0

In addition, the Siemens Cluster solution now supports SQL Server 2005 Standard Edition.

## **NEW FEATURE – Enhancements or additions to Report Objects**

- **Enhancement Comparison Chart Report**

The Comparison Chart Report compares the data from two different time ranges for a single point. Specified offset time ranges include hours, days, weeks, months or years. For example, you can compare May's energy consumption values with the May values from the previous year on the same chart.

- **Enhanced Statistics Table Report**

The Statistics Table Report has been updated with new features that allow you to specify three new statistic columns (alarm count, high and low point limits) for a report. In addition, the report output can now be customized to display any number of the total available columns in any desired order.

- **New Histogram Chart Report**

The Histogram Chart Report takes the number of occurrences of data values for one or more points and splits them into equal-sized bins. You can define the bin size or have the bins sized automatically. For each point, the frequency (number of counts per bin) is shown by a column. The Histogram chart can be used to show the distribution of a point or how many times per period it is at a given reading. A histogram report is a good way to show how a point's value varies over a given time range.

- **New MKT Table**

This new table displays Mean Kinetic Temperature (MKT) values for selected points. MKT is a calculated temperature value that includes the effects of temperature variations over a period of time. It expresses the cumulative thermal stress experienced by a product at varying temperatures during storage and distribution.

This report table allows you to change the parameters of an MKT calculation on demand, versus having to create a new Summary point in the InfoCenter Administrator application.

- **New Secondary Y-Axis Added to Scatter Chart Report**

The Scatter Chart Report has been updated to give you the ability to plot one or more data series on a secondary value (y) axis. This is useful when the range of values for different data series varies widely, or when you wish to compare mixed types of data.

## FEATURES, FUNCTIONS & BENEFITS

Table 1. New Features of InfoCenter Suite Revision 1.6.0 EU highlights several new key features and enhancements.

**Table 1. New Features of InfoCenter Suite Revision 1.6.0 EU**

FEATURE	FUNCTION	BENEFITS	DEPENDENCIES
<b>New Options</b>			
InfoCenter Interactive	This new option allows the ability to view and analyze data that is available with InfoCenter Suite. The InfoCenter Interactive option allows you to quickly visualize facility data using an interactive interface that lets you dynamically analyze and present data. InfoCenter Interactive is an optional feature that is accessible via the InfoCenter Report Manager software.	Saves time by giving users the ability to analyze data without creating a template.	InfoCenter Version 1.6.0 EU
<b>New Client Features</b>			
Import/Export Report Templates (Template Mobility)	The InfoCenter Report Manager application now has a template export/import feature that allows you to transfer custom templates from one InfoCenter Suite system to another.	Reduces installed costs for development of reports. Can import reports from other InfoCenter Database systems.	None
Emission Summary Standard Report	This is a report-add in that is included with the core InfoCenter Suite. This add-in provides a standard report format that tracks greenhouse emissions based on energy consumption.	Provides standard (versus custom) reporting option to support Green and sustainability efforts such as LEED.	None
Comparison Chart Object	The Comparison Chart compares the data from two different time ranges for a single point. Specified offset time ranges include hours, days, weeks, months or years. For example, you can compare May's energy consumption values with the May values from the previous year on the same chart.	Allows users to analyze performance variations over time and generate performance baselines.	None
Enhanced Statistics Table Object	The Statistics Table has been updated with new features that allow you to specify three new statistic columns (alarm count, high and low point limits) for a report. In addition, the report output can now be customized to display any number of the total available columns in any desired order.	Allows users to display new statistical data in a report template.	None
Histogram Chart Object	The Histogram Chart Report takes the number of occurrences of data values for one or more points and splits them into equal-sized bins. You can define the bin size or have the bins sized automatically. For each point, the number of values from the dataset that fall into each bin are represented by a column.	Allows users to analyze performance over time by visualizing trends in data.	None

FEATURE	FUNCTION	BENEFITS	DEPENDENCIES
Mean Kinetic Temperature (MKT) Table Object	<p>This new table displays Mean Kinetic Temperature (MKT) values for selected points. MKT is a calculated temperature value that includes the effects of temperature variations over a period of time. It expresses the cumulative thermal stress experienced by a product at varying temperatures during storage and distribution.</p> <p>This report table allows you to change the parameters of an MKT calculation on demand, versus having to create a new Summary point in the InfoCenter Administrator application.</p>	Allows users to calculate MKT on demand with varying interval and period parameters. Allows users to link MKT calculations to a specific products storage period in a warehouse	None
Secondary Y-Axis Added to Scatter Chart Object	The Scatter Chart object has been updated to allow you plot one or more data series on a secondary value (y) axis. This is useful when the range of values for different data series varies widely, or when you wish to compare mixed types of data.	Allows the user to add a new dimension to the existing scatter chart report object.	None
System Activity Column Display and Data Filtering	In the System Activity dialog box, you can now select which columns are displayed and the order they display in. Your selections are automatically saved, retrieved, and re-applied each time you open the System Activity dialog box.	Provides more complex reporting and analysis capabilities, or can be aligned to specific business needs	None
Operating System/SQL Server Upgrades	<p>The InfoCenter Suite 1.6.0 EU solution supports the following new operating system and software programs:</p> <ul style="list-style-type: none"> <li>• Windows 2003 Server R2</li> <li>• SQL Server 2005 (InfoCenter Suite Advanced) and SQL Server 2005 Express (InfoCenter Suite Base)</li> <li>• Internet Explorer 7.0</li> <li>• In addition, the Siemens Cluster solution now supports SQL Server 2005 Standard Edition.</li> </ul>	Supports current operating systems and new application revisions.	None
<b>New Server Features</b>			
Data Servers Filtering Capability	<p>You can now filter the list of APOGEE points that are available for collection via Data Server. The filter is based on one or all of the following:</p> <ul style="list-style-type: none"> <li>• Trended or Not Trended</li> <li>• Point Name wildcard</li> </ul>	Allows users to customize the information they manage	None

FEATURE	FUNCTION	BENEFITS	DEPENDENCIES
<b>Installation, Documentation &amp; Help</b>			
API Tool Kit consolidation	API Tool Kit has been incorporated into standard documentation and into the InfoCenter Server product.	Eliminates cost of the API tool kit as a separate orderable part	None
Restore Procedure documentation	Step by step documentation to restore an InfoCenter Server or UCM server is detailed in the instructions included with the InfoCenter product. The first disc of each InfoCenter Suite CD-ROM set contains the restore procedure, <b>Restore.pdf</b> , located in the <b>\Docs</b> directory.	Helps jobs with disaster recovery planning for the InfoCenter server	None

See the [InfoCenter Suite 1.6.0 EU Release Notes](#), available on iKnow and Beacon, for further details about the new features, enhancements, and miscellaneous issue resolutions.

## Upgrading to InfoCenter Suite 1.6.0 EU Advanced

InfoCenter Suite 1.6.0 EU Advanced is designed to support upgrading from existing InfoCenter Suite 1.4.X or 1.5.X advanced systems. Both can be upgraded using the InfoCenter Suite upgrade options.

### Supported upgrade paths

InfoCenter Suite 1.6.0 EU and all future revisions will only support update installations of two prior major revisions. For example, InfoCenter Suite 1.6.0 EU will only support updating the prior 1.4.X and 1.5.X, but not 1.3.x, 1.2, 1.2.5, 1.1 or 1.0. With the next expected major revision 1.7, it will support updating the 1.5.X and 1.6.0 EUX revisions, but not 1.4.X or earlier.

# System Recommendations

## Windows Compatibility

- InfoCenter Suite Advanced **Server** is compatible with Windows 2000/2003 Server or Advanced Server operating systems. Support is not provided for Windows NT Server 4.0.
- InfoCenter Suite Base **Server** is compatible with Windows 2000/2003 Server, Windows 2000 Professional and XP operating systems. Support is not provided for Windows NT Server 4.0.
- All InfoCenter Suite **Client** applications are compatible with Windows 2000/2003 Professional, Server and [Windows XP](#). Support is not provided for Windows NT Server, NT workstation, Windows 98 or Windows 95 or Windows ME.
- InfoCenter Suite **Advanced** is designed using client/server architecture and support of Windows XP applies only to InfoCenter Suite Client applications or InfoCenter Suite Base. InfoCenter Suite **Advanced** Server and its database platform, Microsoft SQL Server 2005, still require a server class operating system. The supported server operating systems are Windows 2000 Server, Windows 2000 Advanced Server, Windows 2003 Server, and Windows 2003 Server – Enterprise Edition
- Table 2 lists the InfoCenter Suite system recommendations. Additional detailed requirements are available on iKnow under [workstation hardware](#).

## System Requirements

**Table 2. InfoCenter Server Advanced<sup>1</sup> 1.6.0 EU System Requirements/Recommendations.**

Item	Windows Server 2003 or Enterprise Edition	Windows 2000 Server or Advanced Server
Windows Service Pack	SP-2	SP-4
Minimum Pentium Processor	1.4 GHz	
RAM	1 GB	
Operating System partition disk space required	900 MB	
InfoCenter SQL Server	322 MB	
Programs and data partition(s) disk space <sup>2</sup>	11 to 80 GB	
Microsoft SQL Server 2005 <sup>3</sup>	On InfoCenter CD-ROM	
Microsoft SQL Server 2005 Service Pack 4	On InfoCenter CD-ROM	
PDF Reporting	Adobe Reader 5.0 or later for viewing of PDF report output Adobe Acrobat 5.0 or later for support of electronic signatures <sup>4</sup>	
Video card resolution	1024 x 768 at 16-bit color or higher	
Network	10/100 MB Ethernet Adapter card	
Removable Storage for software installation	CD/DVD drive 3.5-inch 1.44 MB floppy disk drive	
Removable Storage for system backups	CD/DVD burner, removable random access media, or other removable storage for backups, including tape drives <sup>5</sup>	
Removable Storage for archiving	CD/DVD burner, removable random access media, or other removable storage for backups, including tape drives <sup>5</sup>	
Internet Explorer	Version 6.0 SP1 or later	
Printing	Installed print driver	

- <sup>1)</sup> InfoCenter Suite Advanced is the fully configured InfoCenter Suite with data archiving and exporting capabilities not included with InfoCenter Suite Base.
- <sup>2)</sup> These numbers are based on Active volume sizes ranging from 500 MB to 4 GB. When specifying larger Active volumes, you should increase the processor and RAM specifications to maintain overall performance levels. See *InfoCenter Suite 1.6 Getting Started* manual for additional information on calculating the free disk space required for an InfoCenter Server computer.
- <sup>3)</sup> SQL Server and its service pack are included with InfoCenter Suite Advanced.
- <sup>4)</sup> At least one Adobe Acrobat software program must be installed on an InfoCenter computer (client or server) in order to add signature blocks to InfoCenter Report Manager PDF reports.
- <sup>5)</sup> Sequential read devices such as tape drives should not be used for InfoCenter Server volumes; however, tape drives can be used for system backups.

## Client Requirements

**Table 1. InfoCenter 1.6.0 EU Client Requirements/Recommendations.**

Item	Windows XP Professional	Windows Server 2003 or Advanced Server	Windows 2000 Professional, Server or Advanced Server
Windows Service Pack	SP-2	SP-2	SP-4
Processor	1 GHz		
RAM	256 MB		
Hard Disk Space Required for Programs partition	10 MB per client application		
PDF Reporting	Adobe Reader 5.0 for viewing of PDF report output Adobe Acrobat 5.0 or later for support of electronic signatures <sup>1</sup>		
Video card resolution	1024 x 768 at 16-bit color or higher		
Network	10/100 MB Ethernet		
Removable Storage for software installation	CD/DVD drive		
Internet Explorer	Version 6.0 SP1 or later		
Printing	Installed print driver		

At least one Adobe Acrobat software program must be installed on an InfoCenter computer (client or server) in order to add signature blocks to InfoCenter Report Manager PDF reports.

**Table 2. IC GO Web for InfoCenter Suite Reports System Recommendations.<sup>1</sup>**

Internet Information Server (IIS) on a Separate Computer		IIS and InfoCenter Server on the Same Computer <sup>2</sup>
Windows 2000 Server, Advanced Server	Windows Server 2003, Enterprise Ed.	Same as InfoCenter Server requirements, with the following additional requirements:  IIS version 6.0 (Windows 2003 Server) or IIS 5.0 (Windows 2000 Server).  Add 256 MB RAM to your Stand-alone InfoCenter Server requirements (Table 9).
IIS 5.0 <sup>3</sup>	IIS version 6.0 <sup>4</sup>	
1.7 GHz Processor		
1 GB RAM		
Network Interface Card (NIC)		

<sup>1)</sup> The IC GO WEB for InfoCenter Suite Reports client computer must have a browser installed capable of supporting HTML 4.0 or later and be capable of running and displaying JavaScript. In addition, a Java Virtual Machine compatible with the browser must be installed on the same computer as the browser. Siemens Building Technologies recommends the following browsers:

- Internet Explorer 6.0 or later
- Netscape 7.0 or later

<sup>2)</sup> For this setup, do not use the Internet Information Server to host any site except the IC GO WEB Option. This is not a requirement when the Internet Information Server is installed on a separate computer.

<sup>4)</sup> IIS 5.0 is included with the operating system.

<sup>5)</sup> IIS 6.0 is included with the operating system, but is disabled. Refer to the Windows Server 2003 documentation for information on enabling IIS 6.0.



## Shared Hardware Requirements

**Table 3. Hardware Adjustments for Other Siemens Applications.**

Item to Adjust	Initial Value	With Insight <sup>1,2</sup> Add	With InfoCenter Web-based App <sup>3</sup> Add	With OPC Option Add	Total
Windows Server 2003					
Processor	1.4 GHz	500 MHz	No increase	No increase	
RAM	1 GB	512 MB	256 MB	No increase	
Disk Space	11-80 GB	4 GB	No increase	No increase	
Windows 2000 Server					
Processor	1.4 GHz	No increase	No increase	No increase	
Memory	1 GB	512 MB	256 MB	No increase	
Disk Space	11-80 GB	4 GB	No increase	No increase	
Windows XP Professional					
Processor	1 GHz	1 GHz	No increase	No increase	
Memory	512 MB	767 MB	256 MB	No increase	
Disk Space	10 GB	4 GB	No increase	No increase	
Windows 2000 Professional					
Processor	500 MHz	1 GHz	No increase	No increase	
Memory	512 Mb	767 MB	256 MB	No increase	
Disk Space	10 GB	4 GB	No increase	No increase	

<sup>1)</sup> APOGEE Insight Database Server. See *Insight Revision 3.8.1 System Recommendations*, for additional Insight hardware and software requirements.

<sup>2)</sup> InfoCenter and Insight Database clients can be run on an InfoCenter Server computer or Insight Database Server workstation without any additional hardware requirements. When installing InfoCenter and Insight Database clients on the same computer, see *Insight Revision 3.8.1 System Recommendations* and *Table 7. InfoCenter 1.5 Client Requirements/Recommendations*, for each client application's requirements and recommendations, and configure the computer to meet all software requirements and the highest hardware recommendations.

<sup>3)</sup> IC GO WEB for InfoCenter Suite

