

Graphics+ Catalog Page

MS-GGT-0, MS-GGT-6

Code No. LIT-1900689

Software Release 1.3

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Graphics+ is a data visualization software package designed for Metasys® system customers who are looking for a quick way to create interactive building data representations, thus empowering them to visualize, analyze, and respond to problems faster. The Graphics+ software package comprises two components: the Graphic Generation Tool (GGT) and the Graphics+ Viewer.

The Graphic Generation Tool is a simple yet powerful diagramming tool that helps designers create compelling representations of their building equipment and floor plans and bind them to Metasys data objects. The tool includes an extensive library of pre-built symbols and templates, shortcut keys, and right-click functions, giving designers the ability to assemble graphics faster. The tool also provides flexibility to create customized graphics using a rich set of effects known as behaviors. Behaviors allow users to command, navigate, change color, apply flash, set visibility, and display a context menu for bound Metasys objects. You can save these graphics directly to a supported Metasys Host, such as a Site Director or a System Configuration Tool (SCT) archive database.

With the GGT, you can easily create a graphic of status summaries for each monitored system or space (for example, building, floor, or floor group). The graphic uses color to summarize the overall condition of monitored points. In one quick glance, you can view the number of warnings, alarms, or offline items across your entire facility or campus. By clicking any one of these spaces or systems, you can see a detailed view of the monitored equipment. You can also open historical data for any trended point within the graphic using the Trend Module. The Trend Module can show trend data for up to four points at once for system diagnosis and comparison purposes. Additionally, using the predefined set of gauges, you can create an energy dashboard graphic that quickly conveys the current state of energy savings in your facility.

The Graphics+ Viewer is integrated with the Site Management Portal (SMP), SCT, and Ready Access Portal, allowing users to show, command, or update in real time all the data linked objects that were created in the GGT. The graphical display gives you a three-dimensional view of your facility, offering an intuitive way to manage the daily events of your buildings or campus.

Refer to the *Graphics+ Feature Product Bulletin (LIT-12011698)* for important product application information.

Features

- Thermographic Display of Temperature Conditions of a Floor
- Easy and Consistent Access to Room Information

Technical Specifications

Table 1: Graphic Generation Tool System Requirements

Product	MS-GGT-0 (new Graphic Generation Tool software)
	MS-GGT-6 (upgrade Graphic Generation Tool software)
Recommended Computer Platform ¹	Intel® Core™ 2 Duo E6700 or better (Intel Core 2 Duo E4300 minimum)
	100 MB recommended free hard disk space available
	DVD drive
Memory	4 GB RAM recommended (2 GB RAM minimum)

- Summary Data of Multiple Buildings in a Single Graphical View with Navigational Aids
- Ability to Quickly and Easily Switch from Tabular to Graphical Views
- Stand-Alone Graphic Generation Tool
- Extensive Library of Prebuilt Dynamic Symbols and Templates
- Dynamic Symbol Capabilities, Including Commanding, Flashing, Changing Color, Showing and Hiding Elements, Navigation, and Context Menus, for Enhanced User Experience
- HVAC Library Elements Pre-Populated with Aliased Binding Strings
- Historical Trend Information Available Directly within a Graphic
- Computer Aided Drafting (CAD) File Import Capability
- Right-Click Functions, Short-Cut Keys, and User-Configurable Symbols Properties
- Comprehensive Representation of Facility Support Systems
- Multiple Language Support
- Optimal Graphics Display Performance

Figure 1: Graphics+ Example



Table 1: Graphic Generation Tool System Requirements

Operating System	Windows 8.1 and Windows 8.1 Enterprise Editions (64-bit) Windows 8 and Windows 8 Enterprise Editions (64-bit) Windows® 7 Professional, Enterprise, or Ultimate Editions with SP1 (32-bit and 64-bit) Windows Server 2012 R2 (64-bit) Windows Server 2012 (64-bit) Windows Server 2008 R2 with SP1 (64-bit) Windows Server 2008 with SP2 (32-bit)
Other Software	Microsoft .NET Framework 4.0 (required for creating Graphics+ graphics; included on the GGT product disk) Note: We recommend you install the full version of Microsoft .NET Framework 4.0.
Communication	Ethernet network interface card 10/100/1,000 Mbps (100 Mbps network recommended) Note: We recommend a wired connection. Wireless 802.11 connection

¹ Our computer platform and memory recommendations are not meant to imply that older or slower machines are not usable. Refer to the *Network and IT Guidance for the BAS Professional Technical Bulletin (LIT-12011279)* for more information regarding computer/server recommendations.

Table 2: Graphics+ Viewer System Requirements

Product	Graphics+ Viewer built into Site Management Portal UI, SCT UI, and Ready Access Portal UI
Recommended Computer Platform ^{1 2}	Intel® Core™ 2 Duo E6700 or better (Intel Core 2 Duo E4300 minimum)
Memory	4 GB RAM recommended (2 GB RAM minimum)
Operating System	Windows 8.1 and Windows 8.1 Enterprise Editions (64-bit) Windows 8 and Windows 8 Enterprise Editions (64-bit) Windows® 7 Professional, Enterprise, or Ultimate Editions with SP1 (32-bit and 64-bit) Windows Server 2012 R2 (64-bit) Windows Server 2012 (64-bit) Windows Server 2008 R2 with SP1 (64-bit) Windows Server 2008 with SP2 (32-bit) Apple® OS X® 10.8 Mountain Lion Apple® OS X® 10.9 Mavericks Note: Apple operating systems are supported for Metasys client computers only. Note: In OS X, you cannot view Graphics+ graphics in the Site Management Portal UI.
Other Software	Windows Internet Explorer® Version 8, 9, 10, or 11 Note: In Internet Explorer 11, select the Use Microsoft compatibility lists option, found under Tools > Compatibility View Settings, to ensure that websites appear and function correctly. Microsoft Silverlight 5.0 or higher (available as a free download from Microsoft Corporation.) Apple® Safari version 6.0.5 and 7.0 (Other browsers, such as Google® Chrome and Mozilla Firefox, may also be used but are not fully supported.)
Communication	Ethernet network interface card 10/100/1,000 Mbps (100 Mbps network recommended) Note: We recommend a wired connection. Wireless 802.11 connection

¹ For large graphics, rendering the image is CPU intensive. In general, a higher performing CPU with multiple cores is recommended.

² Our computer platform and memory recommendations are not meant to imply that older or slower machines are not usable. Refer to the *Network and IT Guidance for the BAS Professional Technical Bulletin (LIT-12011279)* for more information regarding computer/server recommendations.



Building Efficiency
 507 E. Michigan Street, Milwaukee, WI 53202

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