About this guide

This guide provides the information you need to set up and configure Plan Manager to work in your Security Center system. It explains the basic settings you must configure before Plan Manager can be used, as well as other settings you'll need to change such as adding privileges to your users. Last-minute updates can be found in the Plan Manager Release Notes.

This guide is written for both operators who need to use Plan Manager Client in Security Desk and administrators who need to configure and manage Plan Manager Server in Config Tool. You should be familiar with the following concepts and systems:

- **Administrator**
  - Security Center administration
  - Security Center Config Tool
- **Operator**
  - Security Desk
  - Alarm and event monitoring

Notes and notices

This section explains how the following notes and notices are used in this guide:

- **Tip.** Suggests how to apply the information in a topic or step.
- **Note.** Explains a special case, or expands on an important point.
- **Important.** Points out critical information concerning a topic or step.
- **Caution.** Indicates that an action or step can cause loss of data, security problems, or performance issues.
- **Warning.** Indicates that an action or step can result in physical harm, or cause damage to hardware.
Viewing and controlling what’s inside an area

Viewing what’s inside an area
Controlling what’s inside an area

Viewing and responding to alarms

When can I view alarms in Plan Manager?
Responding to alarms in Plan Manager

Chapter 3: Deploying Plan Manager

Deployment overview
Product availability
Installing Plan Manager Server
Installing Plan Manager Client
Creating the Plan Manager client interface
Create the Plan Manager client interface in Security Center 5.1
Create the Plan Manager client interface in Security Center 5.2
Grant privileges to Plan Manager users
Upgrading from earlier versions of Plan Manager
Installing Plan Manager in silent mode
About silent installation
Limitations.
Preinstallation tasks
Install Plan Manager in silent mode
Silent install command
Installer options
Sample Plan Manager installation commands
Uninstall Plan Manager in silent mode

Chapter 4: Configuring Plan Manager Server

Configuring the Plan Manager roles
Creating a Plan Manager role
Assign server modules to the Plan Manager role
Open Plan Manager ports
Creating your private map source
Building the map structure
Adding folders to the map structure ........................................ 58
Reorganizing the map structure ........................................... 59
Publishing a map source .................................................... 59

Connecting to an online map source .................................... 63

Adding KML objects to your maps ....................................... 64
What are some applications of KML objects? ......................... 64
Importing KML objects ...................................................... 65
Removing imported KML objects ........................................ 65

Managing the Plan Manager resources ................................. 66
Configuring the Plan Manager role failover ............................ 66
Backing up the map database ............................................. 68
Restoring the map database ............................................... 68

Chapter 5: Configuring map objects

Using Plan Manager in Edit mode ....................................... 71
Adding a map object ......................................................... 72
Editing multiple map objects simultaneously ......................... 74
Drawing a polygon on the map .......................................... 75
Adjust the icon size, position, and orientation on the map ........... 79
Configuring the map object states ....................................... 83
Adding a custom state ....................................................... 85
Linking a macro to a map object ......................................... 86

Configuring the camera’s field of view ............................... 88

Configuring door states ...................................................... 90

Configuring LPR objects ................................................... 92

Configuring I/O objects .................................................... 94

Configuring map links ...................................................... 97
Add a map link ............................................................... 97
Add a map view to your Favorites ..................................... 99

Configuring hotspots ........................................................ 100
Add a hotspot ............................................................... 100
Configure a PTZ camera for a hotspot ................................ 102

Index ............................................................................ 104
Getting started with Plan Manager

This section introduces you to Plan Manager. It also takes you on a tour of the user interface, and describes the basics of using Plan Manager Client.

This section includes the following topics:

- "What is Plan Manager?" on page 2
- "Differences between imported maps and online maps" on page 3
- "Open Plan Manager Client" on page 4
- "Plan Manager interface tour" on page 5
- "Plan Manager 10.2 features" on page 10
What is Plan Manager?

Plan Manager is an advanced map-based interface built into Security Center. It allows users to view, control, and monitor your Security Center system directly from an interactive map within Security Desk.

Using Plan Manager, you can do the following:

- Monitor the security equipment (cameras, doors, zones, intrusion panels, input pins, LPR units) managed by Security Center in real time.
- View the physical location of the security equipment as objects on the map.
- Monitor the status of the security equipment on maps (online/offline, open/closed, locked/unlocked, armed/disarmed, active/inactive, and so on) through change of colors, change of icons, and blinking effect.
- Customize how security equipment is represented on map.
- View thumbnail video when you point to the camera.
- View license plate reads and hits from fixed LPR cameras.
- Control where PTZ cameras point by dragging the field of view (FOV) on the map.
- Lock and unlock doors directly on map.
- Arm and disarm zones directly on map.
- Arm and disarm intrusion detection areas directly on map.
- Control the behavior of output pins directly on map.
- View and respond to Security Center alarms directly on map.
- Automatically centers map on the equipment that triggered the alarm for quick location.
- Use touch-screen devices to interact with the map.
- Move around, and zoom in/out on map.
- Quickly find equipment on map.
- Easily navigate through different maps.
- Organize your maps logically for ease of navigation.
- Connect to online map providers (GIS) using the WMS protocol.

For a detailed list of Plan Manager features, see "Plan Manager 10.2 features" on page 10.
## Differences between imported maps and online maps

The differences between imported maps and online maps are as follows.

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Imported map</th>
<th>Online map</th>
</tr>
</thead>
<tbody>
<tr>
<td>Map source</td>
<td>Any raster (JPG, PNG, BMP, TIFF) or vector (PDF) image file representing a site map or a floor plan.</td>
<td>Online provider. A GIS (Geographic Information System) that supports WMS (Web Map Service) protocol.</td>
</tr>
<tr>
<td>Typical use</td>
<td>Small scale maps (site map, building plans, floor plans).</td>
<td>Large scale maps (campus, city, country, world).</td>
</tr>
<tr>
<td>Cost</td>
<td>Cost of producing/acquiring the image files.</td>
<td>Depends on your provider. May require a one time or a recurrent license fee.</td>
</tr>
<tr>
<td>Updates</td>
<td>Done manually by re-importing an updated image file.</td>
<td>The online map provider is responsible for keeping its maps up to date.</td>
</tr>
<tr>
<td>Zoom levels</td>
<td>Defined at the time of import. Plan Manager ensures that you always get the optimum image resolution at any zoom level.</td>
<td>Depends on the map provider.</td>
</tr>
<tr>
<td>Storage requirement</td>
<td>The storage requirement increases as you increase the zoom level.</td>
<td>None required.</td>
</tr>
<tr>
<td>Scale</td>
<td>The scale must be set manually, either by indicating the distance between two points, or by georeferencing two points.</td>
<td>All WMS maps are georeferenced, therefore, all distances and proportions are as accurate as it can be.</td>
</tr>
<tr>
<td>Georeference</td>
<td>Yes, if you are importing a land map. But you must georeference the map yourself.</td>
<td>Yes. You can accurately locate a position on the map based on its longitude and latitude.</td>
</tr>
<tr>
<td>Map objects</td>
<td>Yes. KML objects are supported only if your map is georeferenced.</td>
<td>Yes. All types are supported.</td>
</tr>
</tbody>
</table>

---

a. See "Supported file formats for imported maps" in the Release Notes
b. See "Creating your private map source" on page 56
c. See "Set the map scale" on page 60
d. See "Supported map objects" on page 17.
You run Plan Manager Client inside a Security Desk tile.

1. Log on to Security Center with Security Desk and open a **Monitoring** task.
2. From the **Logical view**, find the Plan Manager icon and drag it to empty tile in the canvas.
   
   In Security Center 5.2, Plan Manager Client, look for a **tile plugin** (swick).
   
   In Security Center 5.1, Plan Manager Client, look for a **map entity** (swick).

Plan Manager Client displays your default **map view**. A map view is a defined display position and zoom level for a given map.

The following screen capture illustrates Security Center 5.2 Security Desk.

NOTE  All subsequent screen captures in this document are taken from Security Center 5.2, unless otherwise specified.
Plan Manager interface tour

This section takes you on a tour of the Plan Manager Client user interface and teaches the basics of using Plan Manager.

This section includes the following topics:

- "Plan Manager workspace" on page 6
- "Home tab" on page 7
- "Display tab" on page 8
- "Edit tab" on page 9
Plan Manager workspace

The Plan Manager Client workspace is displayed inside a single Security Desk tile called the Plan Manager tile. From the Plan Manager tile, you can navigate through the maps and floor plans representing the physical locations of the security equipment you want to monitor and control.

A  Plan Manager tile. This tile is your Plan Manager workspace.

B  Map object. An interactive icon that represents a Security Center entity, such as a camera, a door, and so on. Standard Security Center icons are used by default. The position of the map object on the map corresponds to its physical location. The map object displays the status of the entity (online, offline, and so on).

C  Additional info. Point to a map object to see additional information such as the entity name and its current state (for example, if the door is locked or unlocked). Point to a camera object to view a video thumbnail. Double-click a map object to view the associated entity in a free tile. See L.

D  Field of view. The cone attached to a camera represents the field of view (FOV). Depending on the PTZ camera features, you can view the FOV move in real time on the map as users move the PTZ, and you can control the pan and tilt directly on the map by dragging the FOV to where you want the camera to point.

E  Blinking red icon. Indicates a camera or a door that is associated to an active alarm. Right-click to access the alarm response commands in a context menu. See also I.

F  Quick map selector. Click on a map button to switch to the corresponding map. You can show/hide the quick map selector. For more information, see "Display tab" on page 8.

G  Mini-map. Shows which section of a larger map you are viewing. Drag the blue rectangle to view a different area of the map. You can show/hide the mini-map. For more information, see "Display tab" on page 8.
Plan Manager interface tour

**H** Name of the current map.

**I** Alarm notification icon. Appears in the tile footer when there is an active alarm. Click the alarm icon to show the list of current alarms and their linked map objects (see “Responding to alarms in Plan Manager” on page 33).

**J** Connection status LED. Indicates the Plan Manager Client connection status to Plan Manager Server. Green means you are connected, red means you are not connected, and grey means you are connecting.

**K** Ribbon. Point to the ribbon and the left panel in order to view at 100% opacity. The ribbon includes the following tabs:
- "Home tab" on page 7
- "Display tab" on page 8
- "Edit tab" on page 9

**L** Display the Security Center entity associated to any map object in a free tile by double-clicking or by dragging the icon to a tile. A map object that is displayed in a local tile is circled and highlighted on the map.

---

**Home tab**

The *Home tab* ribbon contains the most commonly used Plan Manager features.

---

**A** Go to home. Switch to your default map display. To set the current map view as your home location, right-click on the map and select *Set as home location*.

**B** Pan mode. Default map mode. You must be in *Pan mode* to control/work with the cameras, doors, and other objects on the map. For more information, see "Navigating through maps" on page 16.

**C** Lasso mode. Select between two selection tools: *Rectangle* and *Circle*, and two selection modes: *left-click and drag* or *right-click and drag*. The combinations are as follows:
- Rectangle. Left-click and drag to select the map objects you want displayed in the free tiles of the canvas. If there are not enough free tiles, the extra objects are not displayed.
- Circle. Works like the *Rectangle* tool, except that you draw a circle instead of a rectangle around the position you click. Moreover, all selected PTZ cameras that support the “center-on-click” feature point to the position you clicked.
- Trigger multiple actions. Right-click when you drag (to draw a rectangle or a circle) to list the common action commands of the selected map objects in the left panel instead of displaying them in the canvas. Clicking an action command applies it to all selected objects.

**D** Map selector. Show/hide the *map selector* in the left panel. Same functionality as the *quick map selector*. For more information, see "Plan Manager workspace" on page 6.
Display tab

The Display tab ribbon lets you select which parts to show or hide in the UI.

- **A** Show/hide ribbon. When the ribbon is hidden, point to the top area of the tile to make it appear.
- **B** Show/hide quick map selector. The quick map selector shows your map hierarchy as buttons. When the quick map selector is hidden, use the map selector instead (see "Home tab" on page 7).
- **C** Show/hide mini-map. The mini-map shows which section of a larger map you are viewing. When the mini-map is hidden, drag the map to pan (see also "Plan Manager workspace" on page 6). The mini-map is only shown for zoom level 3 and above.
- **D** Show/hide layer selector. The layer selector allows you to show/hide map objects according to their type (see "Show/hide objects on maps" on page 22).
- **E** Plan Manager options. Show/hide the Plan Manager options in the left panel.
  - Automatically center on alarms. Select this option if you want Plan Manager to automatically switch to the map showing the map object that is attached to an active alarm, and to center on it.
  - Panel transparency. Use the slider to set the transparency of the panels.
  - Activate map cache. Select this option to allow Plan Manager to use cache memory to speed up the navigation between maps.
Edit tab

The Edit tab ribbon switches you to Edit mode which allows you to configure map objects on your maps. While in Edit mode, the Plan Manager workspace is highlighted with a red border.

For more information, see "Using Plan Manager in Edit mode" on page 71.
Plan Manager 10.2 features

Plan Manager is offered in three different configurations: Plan Manager Basic (BAS), Plan Manager Standard (STD), and Plan Manager Advanced (ADV). Each configuration requires a different Security Center license option. The following table describes the feature set available under each license option.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
<th>BAS</th>
<th>STD</th>
<th>ADV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product characteristics</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced mapping interface for Security Center</td>
<td>Plan Manager Server can be installed on Security Center Server 5.1 or later. Plan Manager Client can be installed on Security Center Client 5.1 or later workstations.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Operating system</td>
<td>Windows 8/7/2008/2008R2, 32 and 64-bits.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>User workstation</td>
<td>Desktop, laptop, and Windows tablet computers.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Number of workstations running Plan Manager</td>
<td>As many as there are Security Desk workstations available.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>User experience</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interactive map display</td>
<td>Displays in any tile in the Security Desk canvas.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Canvas layout (tile patterns)</td>
<td>Uses either the standard tile patterns predefined for Security Desk or custom tile patterns configured in an XML file.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Full screen display. Follows all Security Desk display modes.</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Touch screen interface</td>
<td>Supported, including Windows MultiTouch devices.</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>User profile and privilege management</td>
<td>Uses Security Center’s software security model. Maps visibility is controlled by partitions. Entities (cameras, doors, zones, and so on) that users are not permitted to see in Security Center would not appear on their map display.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Mapping capabilities</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Map types</td>
<td>Standard raster formats (JPG, PNG, BMP, TIFF).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Vector format (PDF).</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>GIS via WMS (Web Map Service) protocol.</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Map import/viewing</td>
<td>Imports, edits, and scales maps (raster and vector formats) using Security Center Config Tool.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Views online maps (Bing, OpenStreetMap) with real-time interactions.</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Views maps from all GIS conforming to the WMS 1.1 OGC (Open Geospatial Consortium) standard.</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Imports custom KML (Keyhole Markup Language) objects.</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
<td>BAS</td>
<td>STD</td>
<td>ADV</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Logical organization</td>
<td>Organizes maps into a logical structure (hierarchy of folders) for ease of navigation and search. See also Favorite and Map links.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Map size</td>
<td>Unlimited. Internal map representation can be customized to match the desired zoom levels. See also Zoom.</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Number of maps</td>
<td>Limited 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Unlimited</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Number of entities represented on maps</td>
<td>Limited 30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Unlimited</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Map navigation</td>
<td>Mouse (recommended): left-click for action, right-click for information and contextual menu, mouse wheel for scrolling and zooming.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Touch screen: panning, zooming, and selection.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Interface device</td>
<td>From a list.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Name search (can be partial).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Use map links. See Map links.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>On alarm (linked to a map object).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Zoom</td>
<td>Rotate the mouse wheel to transition between zoom levels (1 to 20+, depending on map import parameters).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Use the PLUS and MINUS SIGN keys on the keyboard.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Panning</td>
<td>Use the mouse to pan in any direction.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Use the ARROW keys on the keyboard.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Use the mini-map. See Mini-map.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Mini-map</td>
<td>Thumbnail showing a large scale version of the map, indicating which portion of the map you are currently viewing.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Allows you to quickly move the viewed area on the map.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Can be shown or hidden.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Favorite</td>
<td>Memorizes a given map view (position and scale of a given map) and allows you to quickly recall it at a later stage from a list or by name.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Can be public or private (restricted to one user).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
## Plan Manager 10.2 features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
<th>BAS</th>
<th>STD</th>
<th>ADV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moving between maps</td>
<td>Move back, move forward.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>An elevator-like map selector allows you to quickly switch floor plans (maps) within a building (folder).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Hyperlinks to other maps. See <a href="#">Map links</a>.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

### Map objects

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
<th>BAS</th>
<th>STD</th>
<th>ADV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object representation</td>
<td>Security Center entities (cameras, doors, areas, zones, and so on) and physical locations (see Hotspot) are represented by icons on maps.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Entity specific information appears in a status window when you point to it. A video thumbnail is displayed when a camera is attached.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Point to an LPR camera to show the last read, last hit, and live video from the associated context camera.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Show/hide all map objects of a given type.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Show/hide map objects based on zoom level (configurable).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Object configuration</td>
<td>Graphical configuration tool.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Choice of icons from an icon folder or custom icons defined by the administrator (JPG, PNG, or BMP file).</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Size and position are configurable on the maps.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Predefined default states for each represented entity type. For example: <em>Online</em>, <em>Offline</em>, <em>Opened</em>, <em>Closed</em>, <em>Locked</em>, <em>Unlocked</em>, <em>Alarm</em>, for a door entity.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Customizable display properties for all default states (choice of icon, color, transparency, blinking rate).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Custom states can be associated to specific events or alarm types, with configurable display properties.</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td></td>
<td>KML objects can be layered on georeferenced maps.</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cameras</td>
<td>Camera’s field of view represented by a cone (viewing cone).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Orientation of the camera’s viewing cone updated in real time based on current PTZ settings.</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>View live video with a double-click or drag-and-drop to a viewing tile.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Control the camera’s pan and tilt by directly dragging its viewing cone on the map.</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
<td>BAS</td>
<td>STD</td>
<td>ADV</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>Doors, access monitoring and</td>
<td>Different icons represent open and closed doors in real time.</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>control</td>
<td>Lock/unlock door commands available from the right-click menu.</td>
<td>❌</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Zones</td>
<td>Zones and virtual zones are represented by icons.</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intrusion detection areas</td>
<td>Intrusion detection areas are represented by polygons.</td>
<td>✔</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>Map links</td>
<td>Clickable icons (or areas) on the map allowing to switch to another map view with a double-click.</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Hotspot</td>
<td>Clickable icon allowing you to quickly focus on a point of interest with a double-click, by displaying a predefined list of cameras on the canvas. PTZ cameras are turned to preset positions.</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Intercom (custom object)</td>
<td>SIP (Session Initiation Protocol) intercom supported by Security Center: Commend, Zenitel, Castel, and so on.</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Geolocated mobile object</td>
<td>KML object or custom object displayed on WMS maps, with real-time position tracking. For example, a security guard equipped with a GPS, doing his rounds.</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Custom actions can be developed using the Security Center SDK. For example, to implement geofencing.</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom objects</td>
<td>Custom objects can be developed using the Security Center SDK to run macros or perform specific processing.</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Status updates</td>
<td>Object status is updated in real time based on the current status of the device it represents (online, offline, on alarm, open, closed, and so on) via a combination of visual effects, such as changing the shape, color, transparency, and blinking rate of the icon.</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td></td>
<td>Object status can be linked to a Security Center event or alarm.</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Primary action on left-click</td>
<td>Execute the default action associated to the object type with a mouse click. For example, viewing live video from a camera object.</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Secondary actions on right-</td>
<td>Right click an object icon to open the contextual menu.</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>click</td>
<td>Standard secondary actions depend on object types. For example, unlock a door.</td>
<td>✔</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td></td>
<td>Can execute a Security Center macro.</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Can run custom tasks developed with Security Center SDK.</td>
<td>✔</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td></td>
<td>Can launch an external application or view a website in a Security Desk tile.</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
</tbody>
</table>
## Plan Manager 10.2 features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
<th>BAS</th>
<th>STD</th>
<th>ADV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object search</strong></td>
<td>By type and/or partial name.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>By dragging the searched object from the Logical view or the canvas to the map.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Alarm management</strong></td>
<td>Management of alarms linked to map objects</td>
<td>Uses the standard Security Center alarm management mechanism: trigger, display mode, acknowledgement, forward to another Security Desk user, and so on.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>List of all alarms (linked to a map object) in Plan Manager with the name of the map where it appears</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Map objects linked to an active alarm are shown with different display attributes (icon, color, blinking rate).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Automatic switching to the map where an alarm has been triggered (configurable by the user).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Alarm can be acknowledged directly from the alarm list displayed in Plan Manager.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Plan Manager configuration</strong></td>
<td>Configuration principles</td>
<td>All security devices are configured with Security Center Config Tool.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Maps are configured with the <em>Plan Manager configuration</em> task, available from both Config Tool and Security Desk.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>All user’s access rights to maps and map objects are managed via the standard software security mechanism available in Security Center (partitions and privileges).</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Plan Manager configuration can only be performed by users with the Plan Manager application privilege.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Map object configuration can be performed by any user with the proper privileges on the entities linked to map objects.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
Using Plan Manager

This section explains how to navigate through maps, monitor and control your Security Center system, and manage alarms from Plan Manager.

This section includes the following topics:

- "Navigating through maps" on page 16
- "Monitoring and control with Plan Manager" on page 17
- "Viewing and controlling cameras" on page 23
- "Viewing on remote monitors" on page 27
- "Viewing and controlling what’s inside an area" on page 29
- "Viewing and responding to alarms" on page 32
Navigating through maps

The following table lists the different ways to move around the maps.

<table>
<thead>
<tr>
<th>To do this</th>
<th>Mouse</th>
<th>Touch</th>
<th>Keyboard (press)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Move around the map</td>
<td>• Drag</td>
<td>• Swipe</td>
<td>• ARROW keys</td>
</tr>
<tr>
<td></td>
<td>• Drag the mini-map</td>
<td>• Swipe the mini-map</td>
<td>• N/A</td>
</tr>
<tr>
<td>Zoom in/out</td>
<td>• Rotate the wheel</td>
<td>• Pinch</td>
<td>• PLUS SIGN key</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• MINUS SIGN key</td>
</tr>
<tr>
<td>Zoom in to a specific area of the map</td>
<td>• Press SHIFT and drag</td>
<td>• n/a</td>
<td>• n/a</td>
</tr>
<tr>
<td>Switch to a different map</td>
<td>• Click a map in the quick map selector</td>
<td>• Tap a map in the quick map selector</td>
<td>• n/a</td>
</tr>
<tr>
<td></td>
<td>• Use the map selector</td>
<td>• Use the map selector</td>
<td></td>
</tr>
<tr>
<td>Switch to a different map view</td>
<td>• Click Go to home</td>
<td>• Tap Go to home</td>
<td>• n/a</td>
</tr>
<tr>
<td>A map view is a defined display position and zoom level for a given map.</td>
<td>• Click Back/Forward</td>
<td>• Tap Back/Forward</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Click a map link</td>
<td>• Tap a map link</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Click Favorites</td>
<td>• Tap Favorites</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Click Search</td>
<td>• Tap Search</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Drag an entity from the Logical view to the map (centers on the map where the entity is found)</td>
<td>• Drag an entity from the Logical view to the map (centers on the map where the entity is found)</td>
<td></td>
</tr>
</tbody>
</table>

Related topics:
- "Home tab" on page 7
- "Using map links" on page 19
Monitoring and control with Plan Manager

This section explains how to use Plan Manager to monitor and control your Security Center system.

This section includes the following topics:

- "Supported map objects" on page 17
- "Using map links" on page 19
- "Finding entities in Plan Manager" on page 20
- "Show/hide objects on maps" on page 22

Supported map objects

*Map objects* are graphical objects (icons or polygons) displayed on Plan Manager maps, such as cameras, doors, zones, intrusion detection areas, or hyperlinks, that you can mouseover to view their status or click to interact with your Security Center system or to navigate through your maps.

Plan Manager supports the following map objects:

<table>
<thead>
<tr>
<th>Icon</th>
<th>Name</th>
<th>Description</th>
<th>Use it to</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Area Icon]</td>
<td>Area</td>
<td>Map object linked to a Security Center area. It appears as a semi-transparent colored polygon covering the area on the map.</td>
<td>Monitor alarms, show people count and people presence. Issue recursive commands on entities contained in the area.</td>
</tr>
<tr>
<td>![Door Icon]</td>
<td>Door</td>
<td>Map object linked to a Security Center door. But default, it appears as a door icon on the map. Can be shown as open or closed.</td>
<td>Monitor door status (open, closed, locked, unlocked) and to lock/unlock the door.</td>
</tr>
<tr>
<td>![Camera Icon]</td>
<td>Camera</td>
<td>Map object linked to a Security Center camera. By default, it appears as a camera icon with a green cone, where the green cone is the camera's field of view.</td>
<td>Monitor live video, alarms, and control the pan and tilt of PTZ cameras (some models only).</td>
</tr>
<tr>
<td>![Zone Icon]</td>
<td>Zone</td>
<td>Map object linked to a Security Center zone. By default, it appears as a zone icon on the map.</td>
<td>Monitor the zone, and alarms. Arm and disarm the zone.</td>
</tr>
<tr>
<td>![Intrusion detection area Icon]</td>
<td>Intrusion detection area</td>
<td>Map object linked to a Security Center intrusion detection area. It is represented by a semi-transparent colored polygon covering the area on the map.</td>
<td>Monitor the status of the intrusion detection area, arm and disarm the area.</td>
</tr>
<tr>
<td>Icon</td>
<td>Name</td>
<td>Description</td>
<td>Use it to</td>
</tr>
<tr>
<td>------</td>
<td>------</td>
<td>-------------</td>
<td>-----------</td>
</tr>
<tr>
<td><img src="icon" alt="LPR" /></td>
<td>LPR</td>
<td>Map object linked to a fixed Security Center LPR camera. By default, it appears as a stack of license plates with an orange arrow indicating where the camera is pointing.</td>
<td>Monitor the reads and hits from an LPR camera, and view live video from the associated context camera.</td>
</tr>
<tr>
<td><img src="icon" alt="I/O" /></td>
<td>I/O</td>
<td>Map object linked to a Security Center entity that is associated to inputs and outputs, such as a door, a camera, a zone, or an intrusion detection area.</td>
<td>Monitor the state of an input pin and/or control the behavior of the outputs associated to a single entity.</td>
</tr>
<tr>
<td><img src="icon" alt="KML" /></td>
<td>KML</td>
<td>KML (Keyhole Markup Language) object appearing on georeferenced maps. KML objects are imported from KML files.</td>
<td>Mark a point of interest on a georeferenced map. Track mobile units on map.</td>
</tr>
<tr>
<td><img src="icon" alt="Hotspot" /></td>
<td>Hotspot</td>
<td>Marks a location on the map that requires special attention or close monitoring. By default, it appears as a yellow marker on the map.</td>
<td>Display all linked cameras (fixed and PTZ) on the canvas with a double-click. Turn all PTZ cameras towards the marked location. <strong>NOTE</strong> A hotspot is in the alarm state when one of its linked cameras is in the alarm state.</td>
</tr>
<tr>
<td><img src="icon" alt="Map link" /></td>
<td>Map link</td>
<td>Hyperlink to a map view (a favorite or a published map). It appears as a semi-transparent colored polygon covering the area you can click on the map.</td>
<td>Jump to the linked map view with a double-click. <strong>NOTE</strong> A map link is in the alarm state when the map it links to contains objects in the alarm state.</td>
</tr>
<tr>
<td><img src="icon" alt="Custom object" /></td>
<td>Custom object</td>
<td>Custom map objects can be added to Plan Manager.</td>
<td>Examples of custom objects include: custom intercom solution, GPS tracker for mobile units. Contact your Genetec representative for information on Genetec Custom Solutions.</td>
</tr>
</tbody>
</table>

**Related topics:**
- "Configuring map objects" on page 70
Using map links

A *map link* is a hyperlink to another map view that's defined in the Plan Manager's Favorites. Map links are represented by a polygon covering the area you can click. You can customize the color and the transparency.

To view information on the map link:
- Point to the map link icon to view its name and the linked favorite in a status window.

To jump to the linked favorite:
- Double-click the map link icon.

**Related topics:**
- "Configuring map links" on page 97
Finding entities in Plan Manager

You can find any entity represented in Plan Manager by dragging the entity from the canvas or the Logical view to the Plan Manager tile, or by searching for it by name and object type.

To find a Security Center entity in Plan Manager:

- Do one of the following:
  - From the Logical view, drag an entity to the Plan Manager tile.
  - From the canvas, drag a displayed entity from a tile to the Plan Manager tile.

If the entity is found in Plan Manager, the map where it appears is displayed, centered on the map object representing the entity you are looking for.

To find an entity by name and type:

1. In the ribbon, click the Home tab and click Search ( ).
   The Search tool appears in the left pane.

2. Select the types of entities you want to search for.

3. In the search field, enter a text or the name of the entity.
Leave this field blank if you want to find all entities of the selected types.

4 Click Search ( ).

Objects matching your search criteria are listed with their type (icon and type name), and the map where they are found. If you are using Bing maps, the name search also returns the points of interest matching your search string found in the Bing maps.

**NOTE** Do not confuse Security Center entities with map objects. Only entities linked to a map object can be found in Plan Manager. This search does not look through all Security Center entities.

5 To narrow your search to the current folder or current map, click the corresponding radio button at the bottom of the Search tool.

6 To locate an entity on the map, double-click it in the list.

7 To start a new search, click ( ).

8 To close the left panel, click ( ).
Show/hide objects on maps

You can show or hide which types of objects are displayed on your map. For example, if you only want to monitor doors, then you can hide all the cameras.

1. In the ribbon, select the Display tab and click Layer selection ( ).
   The Layer selection tool appears in the left pane.

2. Select the types of entities you want to display on maps.
   The map displays only the map object types you selected.

After you are done: Click ( ) to close the left panel.
Viewing and controlling cameras

Cameras can be viewed and controlled directly on the map.

This section includes the following topics:

• "Viewing cameras on the map" on page 23
• "Controlling PTZ cameras on the map" on page 24
• "Accessing additional commands" on page 25
• "Viewing LPR cameras on the map" on page 26

Viewing cameras on the map

You can view the live video from any camera by pointing to the camera icon or its field of view (green cone) on the map. A video thumbnail appears in the status window.

Other alternatives for viewing live video are:

• Double-click the camera icon to view the camera a free tile in the canvas.
• Right-click the camera icon and select Display to view the camera a free tile in the canvas.
• Drag the camera icon from the map to a tile of your choice in the canvas.
• If two cameras’ FOV are overlapping, a list of hyperlinks appear in the status window. Click each hyperlink to view the video thumbnail.

Controlling PTZ cameras on the map

PTZ cameras that support position feedback can be controlled directly on the map by dragging the camera's field of view (FOV), represented by a green cone.

To pan the camera:
• Click on the FOV and drag it around.

To tilt the camera down:
• Click the far end of the FOV and drag towards the camera icon.

To tilt the camera up:
• Click the near end of the FOV and drag away from the camera icon.
To zoom in/out:
- You cannot zoom in/out from the map. You must display the camera in a tile and use the PTZ commands in the Dashboard.

**NOTE** Not all PTZ cameras support position feedback. To find out whether your camera supports position feedback, point to the camera icon on the map. If it says "No PTZ position received from this camera", then you cannot control the camera on the map.

**Accessing additional commands**

Additional commands may be available if your Plan Manager administrator has associated macros to your camera.

To access additional commands:
- Right-click the camera icon and select the command from the contextual menu.
Viewing LPR cameras on the map

You can view the last read, the last hit, and the live video from the context camera associated to an LPR camera by pointing to the LPR icon on the map. A video thumbnail appears in the status window.

Click the left or right blue arrow in the thumbnail to alternate between the image of the last read, the last hit, and the video from the context camera.

Double-click the LPR icon to display the context camera in a free tile in the canvas.
Viewing on remote monitors

Security Center assigns a unique monitor ID to every PC monitor controlled by a Security Desk workstation. Plan Manager allows you to display your map objects on any monitor you configure as a target monitor.

Configuring target monitors

You need to configure a remote monitor as a target monitor for Plan Manager before you can display map objects on it.

To configure a target monitor:

1. In the ribbon's Home tab, click Target monitor ( Loc.).

   The current list of target monitor icons appears in the left pane. “Loc.” corresponds to your local monitor.

2. Click ( +) to add a new monitor to the list.

   Use the numeric keypad to enter the monitor ID, and click OK to finish.
3 Click ( ) to delete the selected monitor.
4 Click ( ) to change the ID of the selected monitor.
5 Click ( ) to undo your change.

The target monitor you add is automatically selected.

**Switching target monitors**

**Before you begin:** See "Configuring target monitors" on page 27.

1 In the ribbon’s Home tab, click Target monitor ( ).
   The current list of target monitor icons appears in the left pane. “Loc.” corresponds to your local monitor.

2 Click a monitor icon to select it.

The ID of the selected monitor appears as the label on the Target monitor button. Any map object you double-click from this point on will appear on the target monitor indicated in the ribbon.

![Plan Manager](image)

**NOTE** If Security Desk application controlling the remote target monitor is logged on with your username, then everything you send to the remote monitor will also appear on your local monitor.

**Differences between local and remote target monitor**

When you double-click a map object or select the Display command in its contextual menu to display it:

- If the target monitor is local, your command will be ignored if your canvas is full.
- If the target monitor is remote, the entity will always be displayed. If the remote canvas is full, the oldest entity will be replaced.
Viewing and controlling what’s inside an area

When an area is represented as a map object, you can use it to see who are currently inside the area, and control all the Security Center entities that are enclosed within that area.

This section includes the following topics:

- "Viewing what’s inside an area" on page 29
- "Controlling what’s inside an area" on page 30

Viewing what’s inside an area

With an area map object, you can do the following:

- Mouse over to view the name, current status and people count of the area.
- Right-click and select Show people presence to see who are the people (cardholders) currently inside the area.
Controlling what’s inside an area

You can right-click a map object to control the entities found within the area hierarchy all at once.

The available commands are:

- **Display.** Display the area in a free tile. Same as a double-click.
- **Show people presence.** Show the people currently present in the area in the left panel.
- **Intrusion detection areas.** Apply commands to all intrusion detection areas that are members of the area or one of its sub-areas:
  - **Disarm (recursive).** Tell the intrusion panel to ignore all sensors attributed to the selected intrusion detection area.
  - **Perimeter arm (recursive).** Arm the intrusion detection areas so that only sensors attributed to the area perimeter set off the alarm if triggered.
  - **Master arm (recursive).** Arm the intrusion detection areas so that all sensors attributed to the area set off the alarm if triggered.
• Zones. Apply commands to all zones that are members of the area or one of its sub-area:
  - *Disarm (recursive)*. Disarm the zones.
  - *Arm (recursive)*. Arm the zones.
• Doors. Apply commands to all perimeter doors of the area:
  - *Open all doors*. Open all perimeter doors of the area.
  - *Close all doors*. Close all perimeter doors of the area.
• Display all cameras. Display all cameras that are members of the area in available free tiles.
You can monitor and respond to Security Center alarms directly from Plan Manager.

This section includes the following topics:

- "When can I view alarms in Plan Manager?" on page 32
- "Responding to alarms in Plan Manager" on page 33

### When can I view alarms in Plan Manager?

You can view a Security Center alarm in Plan Manager when the following criteria are met:

- You can view the alarm in the **Alarm monitoring** task.
  
  Plan Manager follows the software security rules enforced by Security Center.

- The alarm is still active.
  
  You cannot view past alarms in Plan Manager.

- A map object is linked to the alarm.
  
  A map object is linked to an alarm when the linked Security Center entity (camera, door, zone, and so on) is attached to the alarm. To find out which entities can be linked to map objects, see "Supported map objects" on page 17.

  A map object can also be explicitly linked to an alarm through a custom state. For more information, see "Adding a custom state" on page 8.

  **NOTE** If an alarm is not linked to any map object, the alarm would not be displayed in Plan Manager even though you can see it in the **Alarm monitoring** task.

  **NOTE** Once an alarm appears in Plan Manager, snoozing from the alarm monitoring task or forwarding the alarm to another user does not remove it from Plan Manager.

  **TIP** Plan Manager can be configured to automatically switch to the map where the alarm appears. For more information, see “**Plan Manager options**” under "**Display tab**" on page 8.
Responding to alarms in Plan Manager

When alarms linked to map objects are triggered in Security Center, the alarm indicator (_ALARM) appears in the footer of the Plan Manager tile. If the ribbon is displayed, the number of active alarms is displayed on top of the Alarms button.

To view an alarm:

1. Do one of the following:
   - In the Plan Manager tile footer, click Display alarms (_ALARM).
   - In the ribbon's Home tab, click the Alarms button.

   The list of active alarms appears in the left panel. Each row indicates the alarm name, the time the alarm was triggered, and the alarm priority in Security Center.

2. Click an alarm in the list to show the list of attached map objects.

3. Double-click a map object to display the map centered on the map object.

   The map object (being in the Alarm state) appears in its configured alarm state (by default, blinking in red).
4 Double-click the map object on the map to view the linked Security Center entity in an empty tile.

To respond to an alarm, do one of the following:

- In the alarm list, select an alarm, then at the bottom of the alarm panel, click an alarm response button.
- Right-click a map object that is blinking red, then click Alarms followed by an alarm response command.

The alarm response commands are:

- **Acknowledge (Default)** (✓). The alarm is removed from the list.
- **Acknowledge (Alternate)** (✓). Sets the alarm to the alternate acknowledged state. The reasons for using this state are defined by your company. For example, if a false alarm is triggered, you might want to acknowledge the alarm in this way. This state can be used as a filter in alarm queries.
- **Forward alarm** (📧). Forwards the alarm to another user in the system. Before forwarding the alarm, you must select a user, and you can also type a message.
- **Investigate** ( estudio ). Only available in Security Center 5.2. Investigates the alarm. This option is only available if the alarm is triggered with an acknowledgement condition attached to it (for example, *Door forced open*), and the condition is not yet cleared (for example, *Door closed*). This lets other users in the system know that someone has seen the alarm.

- **Force acknowledge** ( ). Only available in Security Center 5.2 and only if you are logged on as an administrator. Forces the alarm to be acknowledged. This is helpful for clearing alarms that are currently under investigation and their acknowledgement is not yet cleared.

**NOTE** The following alarm commands are not available from Plan Manager. You can only issue them from the *Alarm monitoring* task.

- **Snooze the alarm** ( breve ). Puts the alarm to sleep for 30 seconds. When the alarm is snoozing, it is temporarily removed from the canvas.

- **Show alarm procedure** ( procedimiento ). Shows the alarm’s specific procedure (if one is defined by the administrator).

For more information on alarm management, see “Alarms” in the *Security Desk User Guide*. 
Deploying Plan Manager

This section the procedures you need to follow in order to deploy Plan Manager in a Security Center system.

This section includes the following topics:

- "Deployment overview" on page 37
- "Product availability" on page 38
- "Installing Plan Manager Server" on page 39
- "Installing Plan Manager Client" on page 41
- "Creating the Plan Manager client interface" on page 43
- "Grant privileges to Plan Manager users" on page 46
- "Upgrading from earlier versions of Plan Manager" on page 47
- "Installing Plan Manager in silent mode" on page 48
Before you begin: If you are upgrading from Plan Manager 10.1, see "Upgrading from earlier versions of Plan Manager" on page 47.

The following table describes the Plan Manager deployment process. It includes both installation and configuration procedures.

<table>
<thead>
<tr>
<th>Phase</th>
<th>Description</th>
<th>See</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Read the Release Notes for the system requirements, known issues and any other information about the release.</td>
<td>Plan Manager Release notes</td>
</tr>
<tr>
<td>2</td>
<td>Install Plan Manager Server.</td>
<td>&quot;Installing Plan Manager Server&quot; on page 39</td>
</tr>
<tr>
<td>3</td>
<td>Create and configure the Plan Manager roles. You can choose to have one or two Plan Manager roles, depending on how large your system is.</td>
<td>&quot;Configuring the Plan Manager roles&quot; on page 53</td>
</tr>
<tr>
<td>4</td>
<td>Create your map sources (map background images). You have two types of map sources: local ones that you import from image files, or online maps that you get from online map providers. You need at least one of them.</td>
<td>• &quot;Differences between imported maps and online maps&quot; on page 3 • &quot;Creating your private map source&quot; on page 56 • &quot;Connecting to an online map source&quot; on page 63</td>
</tr>
<tr>
<td>5</td>
<td>Publish your map sources in the map structure so Plan Manager users can use them.</td>
<td>&quot;Building the map structure&quot; on page 58</td>
</tr>
<tr>
<td>6</td>
<td>Install Plan Manager Client on the Security Center workstation where Plan Manager is needed.</td>
<td>&quot;Installing Plan Manager Client&quot; on page 41</td>
</tr>
<tr>
<td>7</td>
<td>After you installed your first Plan Manager Client, create the Plan Manager client interface entity.</td>
<td>&quot;Creating the Plan Manager client interface&quot; on page 43</td>
</tr>
<tr>
<td>8</td>
<td>Grant new privileges to Plan Manager users.</td>
<td>&quot;Grant privileges to Plan Manager users&quot; on page 46</td>
</tr>
<tr>
<td>9</td>
<td>Configure the map objects on your maps using Security Desk with the Plan Manager Client add-on.</td>
<td>&quot;Configuring map objects&quot; on page 70</td>
</tr>
</tbody>
</table>
Plan Manager is available for download from the GTAP Product Download page, at https://gtap.genetec.com.

**NOTE** Specific Security Center license options must be activated. You will need a username and password to log on to GTAP. For more information, see “Technical support” on page 108.
Installing Plan Manager Server

Plan Manager Server is a server plugin (🛠️) that must be hosted by a Security Center Plugin role. Therefore, it must be installed on every Security Center server where you intend to host the Plugin role. Plan Manager Server includes two server modules, Data Server and Map Server, which can be hosted on the same Plugin role or on separate Plugin roles.

Before you begin: Make sure your servers meet the hardware requirements described in the Plan Manager Release Notes. You need to have your Security Center servers ready for Plan Manager Server to be installed. You also need to have Config Tool installed if you plan to create and configure the Plan Manager role using the same computer. Two servers are required if you plan to host the Data Server and the Map Server on separate roles. Four, if you need a extra server for each role to support failover.

To install Plan Manager Server:

1. Download the product. See “Product availability” on page 38.
2. Double click on setup.exe and then click Yes.
   - The Plan Manager Installation dialog box appears.
3. In the lower-right corner of the dialog box, select the installation language: English or French. This does not restrict in any way the language availability of the installed software. Plan Manager follows whatever language is selected for Security Center.
4. Click Plan Manager installation.
5. In the InstallShield Wizard Welcome page, click Next.
6. In the License Agreement page, click I accept the terms in the license agreement and click Next.
7. In the Custom Setup page, select Server (and optionally Client) and click Next.
8 In the Server Destination Folder page, change the folder if necessary, and click Next.
9 In the Config Tool Destination Folder page, change the folder if necessary, and click Next.
10 In the Ready to Install page, click Install to start the installation process.
   Installation may take a few minutes before the following page appears.

![Image of InstallShield Wizard]

**IMPORTANT** You must restart Genetec Server (Security Center service) for the system to
detect that a new plugin has been installed. If you do not restart Genetec Server, you will not
be able to create the Plan Manager role.

Restarting the Genetec Server causes a short interruption of Security Center service on this
server. If you cannot afford to interrupt the service at this time, clear the option Restart
Genetec Server. Just remember to restart Genetec Server before you create the Plan
Manager role.

11 Click Finish.

**After you are done:** "Configuring the Plan Manager roles" on page 53.
Installing Plan Manager Client

Plan Manager Client runs on top of Security Desk. Therefore, it must be installed on every Security Desk workstation where Plan Manager is to be used.

Before you begin: Make sure you’ve already installed Plan Manager Server in your system (see "Installing Plan Manager Server" on page 39). Security Center Client must be installed on this computer.

To install Plan Manager Client:
1. Download the product. See "Product availability" on page 38.
2. Double click on setup.exe and then click Yes. The Plan Manager Installation dialog box appears.
3. In the lower-right corner of the dialog box, select the installation language: English or French. This does not restrict in any way the language availability of the installed software. Plan Manager follows whatever language is selected for Security Center.
4. Click Plan Manager installation.
5. In the InstallShield Wizard Welcome page, click Next.
6. In the License Agreement page, click I accept the terms in the license agreement and click Next.
7. In the Custom Setup page, select Client (and optionally Server) and click Next.
8. In the Client Destination Folder page, change the folder if necessary, and click Next.
9. In the Config Tool Destination Folder page, change the folder if necessary, and click Next.
10. In the Ready to Install page, click Install to start the installation process.
Installation may take a few minutes before the following page appears.

11 Click Finish.

After you are done: Continue with "Creating the Plan Manager client interface" on page 43.
Creating the Plan Manager client interface

Plan Manager client interface runs inside a Security Desk tile. It appears as a tile plugin (isateur) in Security Center 5.2, and as a map entity (mapp) in Security Center 5.1. Only one Plan Manager Client entity is required for the entire system.

This section includes the following topics:

- "Create the Plan Manager client interface in Security Center 5.1" on page 44
- "Create the Plan Manager client interface in Security Center 5.2" on page 45
Create the Plan Manager client interface in Security Center 5.1

Before you begin: "Installing Plan Manager Client" on page 41.

1. Log on to Security Center with Config Tool.
2. Open the Logical view task, click Add an entity ( ), and select Map ( ).
3. In the map creation wizard, enter the Basic information.
   Best practice: Name the map entity Plan Manager.
4. Click Create and Close.
   A new map entity ( ) appears in the Logical view.
5. Click the Properties tab, select Map file, and click Select.
   The Select map assembly file browser appears.
6. Navigate to the folder where Plan Manager Client is installed (on a 64-bit machine, the default path is C:\Program Files (x86)\Genetec Plan Manager Client), select the file named Genetec.PlanManager.dll and click Open.
   The following screen appears.

7. Click Apply.
8. Test the map entity by "Open Plan Manager Client" on page 4.

After you are done: "Grant privileges to Plan Manager users" on page 46.
Create the Plan Manager client interface in Security Center 5.2

Before you begin: "Installing Plan Manager Client" on page 41.

1. Log on to Security Center with Config Tool.
2. Open the Logical view task, click Add an entity ( ), and select Tile plugin ( ).
3. In the tile plugin creation wizard, enter the Basic information and click Next.
   
   Best practice: Name the tile plugin Plan Manager.

4. In the Tile plugin information page, click Tile plugin.
   
   The Select tile plugin’s assembly file browser appears.

5. Navigate to the folder where Plan Manager Client is installed (on a 64-bit machine, the default path is C:\Program Files (x86)\Genetec Plan Manager Client), select the subfolder \AppData\Tile Plugin, then the file named Genetec.PlanManager.TilePlugin.dll, and click Open.
   
   The message The operation was successful appears.

6. Click Close to close the wizard window.
   
   A new tile plugin entity ( ) appears in the Logical view.

7. Test the tile plugin entity (see "Open Plan Manager Client" on page 4).

   After you are done: "Grant privileges to Plan Manager users" on page 46.
Grant privileges to Plan Manager users

The installation of Plan Manager Client adds several Plan Manager specific privileges. They are grouped under Application privileges > Plan Manager. These privileges are set to Undefined by default.

1. Log on to Security Center with Config Tool and open the Security task.
2. Update the privileges of the user groups according to their tasks.

NOTES

- The Map entities edition privileges allow a user to create and edit map objects linked to specific types of Security Center entities (cameras, doors, areas, intrusion detection areas, zones, and LPR cameras). The privileges to view and use these map objects in Plan Manager depend on the user’s privilege to view and use the linked entities in Security Center.
- The Map objects privileges allow a user to view or edit the map objects that are exclusive to Plan Manager: custom objects (include the KML objects), hotspots, I/O objects, and map links. For a definition of the map objects, see "Supported map objects" on page 17.

After you are done: "Configuring map objects" on page 70.
Upgrading from earlier versions of Plan Manager

The following table describes the upgrade process from Plan Manager 10.0 or 10.1 to 10.2.

**NOTE** To upgrade from Plan Manager 7, contact "Technical support" on page 108.

<table>
<thead>
<tr>
<th>Phase</th>
<th>Description</th>
<th>See</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Before you upgrade to Plan Manager 10.2, read about what's new, the system requirements, known issues and any other information about the release.</td>
<td><em>Plan Manager Release Notes</em></td>
</tr>
</tbody>
</table>
| 2     | Plan Manager 10.2 requires Security Center Server to be installed on the same server where it runs. Install Security Center Server as an expansion server if it is not already installed. | • “Security Center compatibility” in *Plan Manager Release Notes*.  
• *Security Center Installation and Upgrade Guide* |
| 3     | If the Plan Manager database (default=PMX) is hosted on a remote server, you must run Plan Manager setup on that server first. | • "Installing Plan Manager Server" on page 39 |
| 4     | Upgrade Plan Manager Server. Follow the same procedure as for a fresh installation. Plan Manager setup automatically detects the previous version and upgrades your software. If Plan Manager Server is installed on two computers, upgrade the Data Server first. | • "Installing Plan Manager Server" on page 39  
• "Configuring the Plan Manager roles" on page 53 |
| 5     | Update the Plan Manager database.  
1. In Config Tool > Plugin task, select the Plan Manager Server role and Resources tab.  
2. Make sure you select the database server and name used in the old version (default=PMX).  
3. Click Update database.  
4. Click Apply. | "Managing the Plan Manager resources" on page 66 |
| 6     | Upgrade your Plan Manager Client workstations. You follow the same procedure as for a fresh installation. Plan Manager setup automatically detects the previous version and upgrades your software. If you are upgrading from Security Center 5.1 to 5.2 at the same time, upgrade Security Center first. | "Installing Plan Manager Client" on page 41 |
| 7     | Update the Plan Manager entity. Log on to Security Center with Config Tool, select the Plan Manager entity, and link it to the latest DLL. | "Creating the Plan Manager client interface" on page 43 |
Installing Plan Manager in silent mode

This section includes the following topics:

- "About silent installation" on page 48
- "Limitations" on page 48
- "Preinstallation tasks" on page 48
- "Install Plan Manager in silent mode" on page 49
- "Silent install command" on page 49
- "Installer options" on page 50
- "Sample Plan Manager installation commands" on page 51
- "Uninstall Plan Manager in silent mode" on page 51

About silent installation

A silent installation is an automated way of installing software without user intervention. The silent installation is run from the command line using the setup.exe executable, and Windows Installer commands.

You can customize the following options from the command line:

- Installation language
- Client or Server installation path
- Client or Server features to install

Limitations

A command line is limited to a maximum of 850 characters. One way to shorten the command line length is to reduce the installation path length. This can be achieved by copying the installation files onto a local drive or by mapping a network drive to the path of setup.exe.

Preinstallation tasks

Perform the following task before performing a silent installation:

- Make sure you have all the software prerequisites installed before you launch a silent install. Plan Manager installer automatically verifies and installs the software prerequisites on your system. This may cause your system to restart. Therefore, it is best practice to manually install the software prerequisites before running the silent installer. For more information, see "Software prerequisites" in the Release Notes.
Installing Plan Manager in silent mode

To install Plan Manager in silent mode:

- Run the setup.exe program located on the Plan Manager installation package in the Full folder.

Silent install command

The syntax for calling Plan Manager setup program in silent mode is as follows:

```
Setup.exe /L<language> /s /v"/qn <option_list>"
```

The following table lists the setup.exe options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
</table>
| /L<language> | Sets the language used by the installation program. Immediately precedes the four-digit language code. No space is allowed.  
  - /L1033 for English (default)  
  - /L3084 for French |
| /s         | Sets the setup.exe executable to run in silent mode with no user interaction. |
| /v"        | Makes sure that the options within the quotation marks are sent directly to the msiexec.exe executable. |
| /qn        | Runs the install in silent mode. |
| <option_list>" | Sets the installer option list. Each option in the list uses the following syntax:  
  <option>=<value_list>  
  where <option> is an option name, and <value_list> is a list of comma-separated values.  
  No space is allowed on either side of the equal sign (=). If the value list must contain spaces, the entire value list must be included between a pair of double quotes preceded by a backslash (\"). The individual options and their values are described in "Installer options" on page 50. |
## Installer options

The following table lists the installer options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>INSTALLDIR</td>
<td>Specify the path where Plan Manager Server should be installed.</td>
</tr>
<tr>
<td></td>
<td><strong>EXAMPLES</strong></td>
</tr>
<tr>
<td></td>
<td>• INSTALLDIR=C:\MyChoiceOfFolder</td>
</tr>
<tr>
<td></td>
<td>• INSTALLDIR=&quot;D:\Program Files\Security Center&quot;</td>
</tr>
<tr>
<td>Note that in the second example, (&quot; ) is required because the value contains spaces. If omitted, it will be installed at [ProgramFilesFolder]Genetec Plan Manager Server.</td>
<td></td>
</tr>
<tr>
<td>INSTALLDIR_CLIENT</td>
<td>Specify the path where Plan Manager Client should be installed.</td>
</tr>
<tr>
<td></td>
<td>The syntax is the same as for INSTALLDIR.</td>
</tr>
<tr>
<td></td>
<td>If omitted, it will be installed at [ProgramFilesFolder]Genetec Plan Manager Client.</td>
</tr>
<tr>
<td>ADDLOCAL</td>
<td>Specify the features to be installed.</td>
</tr>
<tr>
<td></td>
<td>• ALL (Plan Manager Server and Client)</td>
</tr>
<tr>
<td></td>
<td>• Client (Plan Manager Client)</td>
</tr>
<tr>
<td></td>
<td>• Server (Plan Manager Server)</td>
</tr>
<tr>
<td>INSTALLDIR_CONFIGTOOL</td>
<td>Parameter which lets the user specify the installation directory for ConfigTool. This applies to both Client and/or Server installations. If not specified, the default value of [ProgramFilesFolder]Genetec Plan Manager ConfigTool is used</td>
</tr>
<tr>
<td>REBOOT</td>
<td>This option allows you to force or suppress a reboot after the Server installation has ended. Possible values are:</td>
</tr>
<tr>
<td></td>
<td>• F - To force a reboot when your installation is complete.</td>
</tr>
<tr>
<td></td>
<td>• S - To suppress any reboot except the one caused by the ForceReboot action.</td>
</tr>
<tr>
<td></td>
<td>• R - To suppress any reboot caused by Windows Installer actions.</td>
</tr>
<tr>
<td>RESTART_GENETEC_SERVER</td>
<td>Parameter which lets the user choose to restart the Genetec server at the end of the installation (1) or not (0). By default this is set to 1 so if the user doesn't want to restart the Genetec server automatically, RESTART_GENETEC_SERVER=0 needs to be specified.</td>
</tr>
</tbody>
</table>
Sample Plan Manager installation commands

Run the setup.exe program located on the Plan Manager installation DVD.

**EXAMPLE** Plan Manager Server and ConfigTool installed to an installation path different than the default.

```
Setup.exe /L1033 /s /v"/qn ADDLOCAL=Server INSTALLDIR=C:\PLANMANAGERSERVER_PATH
INSTALLDIR_CONFIGTOOL=C:\PLANMANAGERCONFIGTOOL_PATH"
```

**EXAMPLE** Plan Manager Server and ConfigTool installed to default installation path but without automatically restarting the Cenetec Server.

```
Setup.exe /L1033 /s /v"/qn ADDLOCAL=Server RESTART_GENETEC_SERVER=0"
```

**EXAMPLE** Plan Manager Client and ConfigTool installed to an installation path different than the default.

```
Setup.exe /L1033 /s /v"/qn ADDLOCAL=Client INSTALLDIR_CLIENT=C:\PLANMANAGERCLIENT_PATH
INSTALLDIR_CONFIGTOOL=C:\PLANMANAGERCONFIGTOOL_PATH"
```

Uninstall Plan Manager in silent mode

To uninstall Plan Manager (Client and Server components) in silent mode:

- Run the following command from the *Full* folder of the Plan Manager installation DVD:
  ```
  setup.exe /s /v"/qn /x
  ```

To uninstall Plan Manager Client components (if the Server is also installed):

- Run the following command from the *Full* folder of the Plan Manager installation DVD:
  ```
  setup.exe /s /v"/qn REMOVE=Client"
  ```

To uninstall Plan Manager Server components (if the Client is also installed):

- Run the following command from the *Full* folder of the Plan Manager installation DVD:
  ```
  setup.exe /s /v"/qn REMOVE=Server"
  ```
Configuring Plan Manager Server

This section explains how to configure Plan Manager Server as Security Center Plugin roles. This section includes the following topics:

- "Configuring the Plan Manager roles" on page 53
- "Creating your private map source" on page 56
- "Building the map structure" on page 58
- "Connecting to an online map source" on page 63
- "Adding KML objects to your maps" on page 64
- "Managing the Plan Manager resources" on page 66
Configuring the Plan Manager roles

Plan Manager Server plugin includes two functional modules: Data Server and Map Server. These modules can be executed by the same instance of Plugin role or on two separate instances. Assigning Plan Manager Server to two roles allows you to distribute the processing load over two servers. Only one instance of each module may be active on a given Security Center system.

This section includes the following topics:

- "Creating a Plan Manager role" on page 53
- "Assign server modules to the Plan Manager role" on page 54
- "Open Plan Manager ports" on page 55

Creating a Plan Manager role

Before you begin: "Installing Plan Manager Server" on page 39. If you didn’t restart Genetec Server at the end of the installation, do it now.

You need to create a Plugin role to run Plan Manager Server in Security Center.

1. Log on to Security Center with Config Tool.
2. Open the Plugins task, and click Plugin ( ) at the bottom of the page.
   The Plugin role creation wizard appears.
3. In the Server drop-down list, select the server that is going to host the Plan Manager role.
4. In the list of installed plugins, select PM Server.
5. Enter the values of the Database server and Database for the Plan Manager database.
   Only the Data Server manages the database.
   If you are creating a role for the Map Server only, then you do not need to bother about the database parameters. The database is not going to be used by this role.
   If you are creating a role for the Data Server, and you plan to configure the failover for this role, your database server must be hosted on a third machine. For information on how to configure a remote database server, see “Connect roles to a remote database server” in the Security Center Administrator Guide.
6. Click Next, and enter the entity name, description and partition for this role.
   Best practice: If you are planning to have two separate roles for Plan Manager, make sure you use different names for each. For example:, name them Data Server and Map Server.
7. Click Next, check the information you entered, and click Create and Close.
   The new Plan Manager role ( ) appears in the list of Plugin roles, and the focus is on its Resources tab. It takes a few seconds for the role to create its database.

After you are done: "Assign server modules to the Plan Manager role" on page 54.
Assign server modules to the Plan Manager role

When the Plan Manager role is freshly created, no server module is assigned to the role. You can assign both modules to the same Plugin role or assign them to two different Plugin roles.

To assign a server module to a Plan Manager role:

1. Log on to Security Center with Config Tool.
2. Open the Plugins task, select the PM Server role ( ) and click Manage servers.
3. Select Data Server if you want this role to handle the Plan Manager database, where the map configuration (map sources and map objects) is kept.
   You also need to set the TCP port used by the Data Server to listen to connection requests from Map Server and Plan Manager Client. Do not change the default value (8000) unless it is already reserved by your IT department for a different purpose.
   **IMPORTANT** If failover is to be configured for this role, the database server must be located on a third machine that all servers assigned to this role can access.

4. Select Map Server if you want this role to manage the imported maps.
   You also need to configure the following:
   - **Tile Server port.** HTTP port used by the Tile Server subprocess to listen to Plan Manager Client requests. Do not change the default value (8002) unless it is already reserved by your IT department for a different purpose.
- **Map Generator port.** TCP port used by the subprocess that creates your private map sources by importing image files into Plan Manager. Do not change the default value (8001) unless it is already reserved by your IT department for a different purpose.

- **Map folder.** Enter the path to the root folder where all imported map files are stored. For each image file you import, the Map Generator creates a subfolder to store the generated map tiles.

  **NOTE** If later, you need to rename or move the folder to a different location, all you need to do is to update its path in this field. The content of this folder is backed up and restored along with the Plan Manager database (see "Managing the Plan Manager resources" on page 66).

  **IMPORTANT** If failover is to be configured for this role, the map folder must be located on a shared network drive that all servers assigned to this role can access.

5 Click Save and restart servers.

The server processes restarts. This will take a few seconds.

**IMPORTANT** Only one Data Server and one Map Server are allowed per system. If one of the server modules you assigned to the current role was previously assigned to another role, you’ll be asked to move that function to the current role. If you are moving the Data Server, make sure the new server can access the existing Plan Manager database. If you are moving the Map Server, make sure the new server can access the existing map folder. For more information, see "Managing the Plan Manager resources" on page 66.

**After you are done:** "Open Plan Manager ports" on page 55.

---

**Open Plan Manager ports**

Before using Plan Manager, make sure that the ports used by Plan Manager Server modules are open and redirected for firewall and network address translation purposes. The following table lists the default ports used by Plan Manager Server.

<table>
<thead>
<tr>
<th>Plan Manager Server component</th>
<th>Default port</th>
<th>Protocol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Server</td>
<td>8000</td>
<td>TCP</td>
</tr>
<tr>
<td>Map Generator (Map Server)</td>
<td>8001</td>
<td>TCP</td>
</tr>
<tr>
<td>Tile Server (Map Server)</td>
<td>8002</td>
<td>HTTP</td>
</tr>
</tbody>
</table>

**After you are done:** "Creating your private map source" on page 56 or "Connecting to an online map source" on page 63.
Creating your private map source

You can import any raster or vector file containing an image of a map or a floor plan into Plan Manager as a map source. Once created, you can publish your map sources under different view settings and names in the map structure for your Plan Manager users.

**NOTE**  Vector files (PDF) are better than raster files (JPG, PNG, BMP, TIFF) as they produce higher quality maps at all zoom levels.

To create a private map source:

1. Log on to Security Center with Config Tool.
2. Open the Plugins task, select the PM Server role, and click Map sources. If you have two Plan Manager plugin roles in your system (Data Server and Map Server are hosted on separate roles), you can use either one to perform the import.
3. In the field under Select source file, enter the path to the image file you want to import, click the browse button, or drag a file from Windows Explorer. A preview image appears in the in the Edit pane.
4. (PDF file only) If your PDF file contains many pages, select the page you want to import in the Page column.
5. Rotate and crop the image as necessary.
   To crop the image, click on the preview image and drag. Adjust the position of the crop area by dragging its four sides. Click Revert to restart.
6 Select the highest **Zoom level** (2 to 10) for your map according to what it represents.

The zoom level says how many times you can zoom in from the whole map view. A higher zoom level allows you to get closer to your map and view more details. Plan Manager (**Map Generator**) creates a different set of **map tiles** for each zoom level you require.

**NOTE** The more zoom levels you need, the longer it takes to import the file, and the more storage it requires. Use the description of each zoom level in the drop-down list to guide your choice.

7 If you are updating a map that you already imported once, do one of the following:

- Select **Overwrite** if you want to replace the old map tiles for the previously selected zoom levels. Use this option if you are importing a newer version of the map, or if you need to crop the image before you import.
- Clear **Overwrite** if you do not need to regenerate the map tiles created for the previously selected zoom levels. Use this option when you want to add zoom levels to an existing map. It saves you time since the map tiles for the existing zoom levels will not be regenerated.

**Best practice:** It is recommended to regenerate the map tiles for all zoom levels if you are cropping the source image and are not using georeference to set the scale of your map.

8 Select the **Import priority**.

The import priority sets the amount of CPU allocated to the import process. If you want your server to stay responsive for other tasks while it is importing maps, select **Medium** or **Low**. The default is **High**.

9 Click **Generate map**.

The preview image is hidden. A progress bar appears in the Map processing pane.

Click ( ❌ ) at any time to cancel the import process.

A subfolder named after the imported file is created under the **Map folder**.

**NOTE** You can import multiple maps simultaneously. You don’t need to wait for the current import to complete before starting a new one.

**After you are done:** You need to publish a map source in the map structure before it becomes visible to the Plan Manager Client. For more information, see "Building the map structure" on page 58.

**Related topics:**
- "Differences between imported maps and online maps" on page 3
- "Publishing a map source" on page 59
- "Connecting to an online map source" on page 63
Building the map structure

The *map structure* is the hierarchy of folders and maps that the Security Desk operator sees in the Plan Manager tile. For example, if your company site has many buildings, the top folder can represent your campus, each subfolder represents a building, and each map in the subfolder represents a floor in that building.

This section includes the following topics:

- "Adding folders to the map structure" on page 58
- "Reorganizing the map structure" on page 59
- "Publishing a map source" on page 59

**Adding folders to the map structure**

Folders are logical groupings of your maps.

To add a folder to the map structure:

1. Log on to Security Center with Config Tool.
2. Open the *Plugins* task, select the *PM Server* role (👍) and click *Organize maps*.
3. At the bottom of the *Map structure* pane, click *Add folder* (➕️). 
4. In the *Name* field, enter the name of the folder.
Building the map structure

5 Click Child of and select the parent folder.
6 In the Partitions list, select the partitions you want your new folder to be member of.
   The partitions control who can view this folder in Security Desk. Users who cannot access
   the selected partitions will not be able to see this folder.
7 Click Apply (√).

Reorganizing the map structure

You can reorganize the map structure by renaming and moving folders and maps around.

To rename a map or a folder:
• Select a map or a folder, enter its new name in the Name field, and click Apply (√).

To move a map or a folder:
• Click a map or a folder and drag it under another folder.
  NOTE When you move a folder, you move everything below that folder with it. You cannot
  move a folder under its subfolder.

To delete a map or a folder:
• Select a map or a folder and click Delete (✗).
  CAUTION When you delete a folder, you delete everything under that folder as well,
  including the maps and all associated map objects.

Publishing a map source

The map files you import (see "Creating your private map source" on page 56) and the online
maps you subscribe to (see "Connecting to an online map source" on page 63) are your map
sources. They need to be published before they become visible in the map selector nor the quick
map selector.

To publish a map source:
1 Log on to Security Center with Config Tool.
2 Open the Plugins task, select the PM Server role (🗜️) and click Organize maps.
3 At the bottom of the Map structure pane, click Add map (➕ 📦).
4 In the Name field, enter the map name you want to publish the map source under.
   NOTE You can publish the same map source multiple times under different names.
5 Click Child of and select the parent folder for the map.
6 Set the Display name in quick map selector option.
   • Select this option if you want to reference this map by name in the quick map selector.
   • Clear this option to reference this map by its sort order (0 to n) in the folder. Use this
     option is when the folder represents a building and the maps the floors.
Building the map structure

7 Under Associate the map to a source, select a Map source.
   Do one of the following:
   - If the map source is an imported map, then "Set the map scale" on page 60.
   - If the map source is an online map provider, then "Add the license key" on page 62.

8 Set the default view for your map.
   The default view is how you want this map to be initially displayed (position and zoom level) when a user selects it from the map structure. You can create multiple views for the same map source every time you publish it in the map structure under a different map name.
   To set the default view:
   a Move the map to the position and zoom level you want in the preview pane.
   b At the upper-right corner of the preview pane, click Set current position as default view (√).

9 In the Partitions list, select the partitions you want this map to be member of.
   The partitions control who can view this map in Security Desk. Users who cannot access the selected partitions will not be able to view this map.

10 (For georeferenced maps only) You can add custom objects (point of interest markers, moving object markers, and so on) to georeferenced maps. For more information, see "Importing KML objects" on page 65.

11 Click Apply (√).

Set the map scale

Before you can publish an imported map source, you must set the map scale.

1 Start by creating two reference points, A and B, on the map.
   - Use CTRL+Click to add a point.
   - Use SHIFT+Drag to move a point.
   - Use ALT+Click to delete a point.

2 Select one of the following methods:
   - Select Set scale and enter the distance between the two points you created.
     This method is typically used for floor plans.
   - Select Set geographic position and enter the latitude and longitude (in decimal degrees) for each of the two reference points you created.
     Always use this method whenever the geocoordinates are available.
Georeferenced maps offers you more flexibility, such as the use of KML objects and the ability to preserve the positions of your map objects even when you update the map.

**TIP** Use Bing or Google Maps to find the coordinates of a specific location.

3. Click Apply (✓) to save what you’ve done so far.

After you are done: Continue with Step 8 of the map source publication procedure.
Add the license key

Online map providers often require a license key for the use of their maps.

1. Enter your license key if required by your provider.

2. Click Apply (✓) to save what you’ve done so far.

After you are done: Continue with Step 8 of the map source publication procedure.
Plan Manager lets you use online map services by connecting to online map providers.

What you should know

Plan Manager uses the following parameters to connect to online map providers:

- **WMS version.** 1.1.0, 1.1.1, or 1.3.0
- **Image format.** PNG
- **Geocoordinate system.** EPSG 4326 (WSG 84)

To connect to an online map source:

1. Log on to Security Center with Config Tool.
2. Open the Plugins task, select the PM Server role ( ) and click Add WMS maps.
3. In the Server address field, enter the URL of the map provider, and click OK.
   - A list of available layers (details on the map) appears in the left pane.
4. Select the layers you want to show on the map and click Preview.
   - A preview of the map with the selected layers appears.
   - Add or remove layers until you are satisfied with what you see.
5. In the Save as field, enter a name to identify this map source and click Save.

After you are done: "Publishing a map source" on page 59.
Adding KML objects to your maps

Custom graphic markers, such as parking sites, buildings, moving vehicles, and so on, can be layered on top of georeferenced maps. All online maps, such as Google Earth and Google Maps, are georeferenced. You can also georeference the private maps you import (see “Set the map scale” on page 60). These graphic markers are defined as KML (Keyhole Markup Language) objects.

This section includes the following topics:

- "What are some applications of KML objects?" on page 64
- "Importing KML objects" on page 65
- "Removing imported KML objects" on page 65

What are some applications of KML objects?

KML objects can represent both static objects (such as parks, buildings, and so on) and dynamic objects (such as moving objects or animated diagrams) on the map.

Plan Manager can update the dynamic KML objects at regular interval so you can track their GPS position (such as a vehicle) or status (such as the radioactivity level of a nuclear plant) in real time on the map. For help in the evaluation or custom development of this feature, contact your Genetec representative.
Importing KML objects

Before you begin: "Connecting to an online map source" on page 63 and "Publishing a map source" on page 59.

1. Log on to Security Center with Config Tool.
2. Open the Plugins task, select the PM Server role ( ) and click Import KML objects.
3. In KML file path field, enter the path to the KML file you want to import or click ( ) to browse to the file.
   A KML file uses the extension kml or kmz. and typically contains many KML objects.
4. If you need a user name and password to access the KML file on the web, enter them in the Username and Password fields.
5. Click OK.
   All KML objects defined in the file are listed in the left pane.
   If you have trouble connecting to the website, click Stop and try again later.
6. In the KML objects list, select the objects you want to add.
7. Under Select a georeferenced map, select the map you want to add the KML objects to.
   Only published georeferenced maps are shown in the drop down list.
8. If your KML objects represent dynamic objects (for example vehicles), set the refresh rate in terms of hour (H), minutes (M), and seconds (S), and click Save.
   When you view this map, the KML objects will be refreshed at the set interval.

Removing imported KML objects

You can remove all KML objects imported to a WMS map.

1. Log on to Security Center with Config Tool.
2. Open the Plugins task, select the PM Server role ( ) and click Organize maps.
3. Select the map that shows the KML objects you want to remove.
4. Click Remove all KML objects and click Close in the confirmation window.

After you are done: Repeat "Importing KML objects" on page 65 with different KML objects if necessary.
Managing the Plan Manager resources

Plan Manager Server includes two server modules, *Data Server* and *Map Server*. These server modules can be hosted on a single role or two separate roles (see "Configuring the Plan Manager roles" on page 53). This section provides specific information regarding the configuration of failover for Plan Manager Server.

### Configuring the Plan Manager role failover

**Before you begin:** Plan Manager Server must be installed on all the servers you wish to use as a standby server for the Plan Manager role. You also need to ensure the following:

- If the role hosts the Data Server, your database server must be hosted on a server different from all the standby servers. For information on how to configure a remote database server, see “Connect roles to a remote database server” in the *Security Center Administrator Guide*.
- If the role hosts the Map Server, the map folder must be located on a shared network drive that all standby servers can access.

**Sample failover configuration**

In the following example, Data Server and Map Server are assigned to two separate roles, each hosted on a different server (A and B). The Plan Manager database and the map folder are also hosted on separate servers (C and D). Server C and server D do not need to have Security Center installed.
Since it is unlikely that both server A and B fail at the same time, a single server (E), is used as the standby for both Plugin roles. Server E must have access to the database server (C) and the map folder server (D).

To configure the Plan Manager role failover:

1. Log on to Security Center with Config Tool.
2. Open the Plugins task, select the PM Server role (LIKELY) and click Resources.
3. Under the Servers list, click Add an item (LIKELY) and select a server where Plan Manager Server has been installed.
4. After a failover occurs, if you want the primary server to take control of the role once it is restored, select the Force execution on highest priority server option.
   
   By default, the role remains on the secondary server after a failover occurs to minimize system disruptions.
5. Configure the Plan Manager database.
   
   If this role hosts the Data Server, make sure the database server is located on a remote server. If not, you must backup the existing database and restore it on the remote database (see "Backing up the map database" on page 68).
   
   If this role does not host the Data Server, you do not need to be concerned with the database settings. The database will not be used.
6 Make sure the map folder is accessible from all the standby servers you configured.
   To move the map folder to a new location:
   a Move the map folder to its new location.
   b Click Manage servers tab.
   c Enter the new path in the Map folder field.
   d Click Save and restart servers.

Backing up the map database

You can back up the map database from any Plan Manager role. Not necessarily from the one
hosting the Plan Manager Data Server. When you backup the map database, the map folder is
also backed up at the same time.

To back up the map database:
1 Log on to Security Center with Config Tool.
2 Open the Plugins task, select any PM Server role ( ) and click Resources.
3 Click Backup/Restore ( ).
4 In the Backup/Restore dialog box, enter the Backup folder and click Backup now.
   A message telling you that the map folder is also going to be backed up appears.
5 Click OK to close the message box.
6 Click Close to close the Database actions message box.
7 Click OK to close the Backup/Restore dialog box.

Three files are created in the specified backup folder:

- MapFolder-<date>-<time>.zip. The zipped map folder content. You can restore it as is to
  any new map folder.
- MapFolderWithBackup.xml. Contains the information pairing the backup file (.BAK) with
  the zipped map folder file (.ZIP).

Restoring the map database

Before you begin: You need all three files created during the backup in order to restore the Plan
Manager database (see the task result of "Backing up the map database" on page 68). If you
chose to compress the backup file, you need to unzip it manually before you can restore it.

To restore the map database:
1 Log on to Security Center with Config Tool.
2 Open the Plugins task, select any PM Server role ( ) and click Resources.
3 Click Backup/Restore ( ).
4 In the Backup/Restore dialog box, enter the Restore file and click Restore now.
   **NOTE** If you chose Compress backup file during backup, you must first extract the backup file (.BAK) from the zip file before restoring it. You cannot restore the zip file.

5 Click Close to close the Database actions message box.

6 Click OK to close the Backup/Restore dialog box.

The map folder content (.zip) IS restored to your current map folder configured for your Map Server (see "Assign server modules to the Plan Manager role" on page 54).
Configuring map objects

This section explains how to add map objects (such as cameras, doors, intrusion detection areas, hyperlinks, and so on) to your maps.

This section includes the following topics:

- "Using Plan Manager in Edit mode" on page 71
- "Configuring the camera’s field of view" on page 88
- "Configuring door states" on page 90
- "Configuring LPR objects" on page 92
- "Configuring I/O objects" on page 94
- "Configuring map links" on page 97
- "Configuring hotspots" on page 100
The Plan Manager *Edit* mode is a mode dedicated to the creation and configuration of map objects. You know you are in Edit mode when you see a red border around your Plan Manager workspace. For a list of the map objects you can create, see "Supported map objects" on page 17.

This section includes the following topics:

- "Adding a map object" on page 72
- "Editing multiple map objects simultaneously" on page 74
- "Drawing a polygon on the map" on page 75
- "Adjust the icon size, position, and orientation on the map" on page 79
- "Configuring the map object states" on page 83
- "Adding a custom state" on page 85
- "Linking a macro to a map object" on page 86
Adding a map object

You configure map objects in Security Desk, using Plan Manager Client in *Edit mode*.

To add a map object:

1. Log on to Security Center with Security Desk and "Open Plan Manager Client" on page 4.
2. Select the map and move to the location where you want to add the map object.
   For more information, see "Navigating through maps" on page 16.
3. In the ribbon, click the Edit tab to switch to *Edit mode*.

4. Do one of the following:
   - To add a Security Center entity, drag it from the Logical view to a location on the map.
   - To add a map link, click *Add a map link*, then click a location on the map.
     For more information, see "Add a map link" on page 97.
   - To add a hotspot, click *Add a hotspot*, then click a location on the map.
     For more information, see "Add a hotspot" on page 100.
   - To add an I/O object, click *Add an I/O object*, then click a location on the map.
     For more information, see "Configuring I/O objects" on page 94.

The map object configuration panel appears to the left.

5. Depending on the type of map object, do one of the following:
   - For *areas*, *intrusion detection areas*, and *map links*, "Drawing a polygon on the map" on page 75.
   - For everything else, "Adjust the icon size, position, and orientation on the map" on page 79.
6 In the Identity section, configure the map object’s name.

The name is displayed in the status window when you point to the map object. For map objects linked to a Security Center entity, you have the option to follow the Security Center entity name (default) or assign a different name to the map object.

7 In the States section, configure the visual characteristics (image, color, transparency, blink rate) for each of the map object’s state (online, offline, alarm, and so on).

For more information, see "Configuring the map object states" on page 83.

8 (Optional) If you want to monitor on the map more than the standard states covered by default, "Adding a custom state" on page 85.

9 (Optional) In the Macros section, link macros to the map object’s right-click menu.

For more information, see "Linking a macro to a map object" on page 86.

10 In the Position section, configure the exact position (latitude, longitude, and angle) of the object on the map, and the range of zoom levels (Maximum zoom and Minimum zoom) outside of which the map object should not appear on the map.

For the map object’s position and size, it is often easier to configure them by eye on the map. See "Adjust the icon size, position, and orientation on the map" on page 79.

For cameras, you need to configure their field of view (FOV). See "Configuring the camera’s field of view" on page 88.

11 Click Save changes in the ribbon.

After you are done: Switch back to Pan mode by selecting the Home tab in the ribbon, and test your configuration. See "Monitoring and control with Plan Manager" on page 17.
Editing multiple map objects simultaneously

You can configure the common properties (states) of multiple map objects of the same type simultaneously to ensure consistency.

To edit multiple map objects simultaneously:
1. Log on to Security Center with Security Desk and "Open Plan Manager Client" on page 4.
2. Select the map and move to the location where you have multiple map object.
3. In the ribbon, click the Edit tab and click Lasso mode ( ).
4. Draw a rectangle around the map objects you want to edit simultaneously.
   The common properties that you can edit simultaneously appear in the left panel, grouped by map object types. The selected map objects are highlighted in green.
5. Edit the properties as usual.
   See "Adding a map object" on page 72
6. Click Save changes in the ribbon when you finished.
   All selected map objects of the same type now share the same behavior.
Drawing a polygon on the map

Polygons are used to represent areas, intrusion detection areas, and map links.

To draw a polygon:

1. Click and then click on the map where you need the first corner of your polygon. A grey dot appears where you clicked.
2 Click the map again to add the second corner of the polygon you want to draw. A second dot appears where you clicked.

**NOTE** You can add as many dots as necessary to define the polygon. Once you start making dots around the perimeter, you cannot go back and insert a dot in between dots.

If you need to go back and add dots between already existing dots, you must delete the dots that were made after that point.

a Click and then click the existing dots to delete them.

b Click and then click on the map where you want to insert the new dot.

c Click on the map to continue adding dots around the perimeter.
3 Click on the map again to add the third corner of the polygon you want to draw. A colored area appears. You need at least three dots to define a polygon.
4. Click the map to add the fourth corner of the polygon (most areas are rectangular in shape).
If you made a mistake, click  and then drag the corner to the correct position.

5 In the ribbon, click Save changes to save your changes to the database.

After you are done: "Configuring the map object states" on page 83.

**Adjust the icon size, position, and orientation on the map**

Most map objects are represented with an icon on the map. Plan Manager provides a default icon for each type of supported map objects. You can also choose to use a custom icon if you like.

For each map object represented with an icon, you must configure the position, the size, and the orientation of the icon on the map.

For the rest of this section, the *fixed camera* is used as illustration.
1. After you've dragged the Security Center entity to the map, the default icon appears.

2. Drag the icon to the exact position on the map.
   Adjust the zoom level by rotating the mouse wheel if necessary.
   **NOTE** The center of the icon remains anchored at the same position on the map regardless of the zoom level you choose to view the map at.
3. Resize the icon by dragging one of the grey handle at the four corners of the icon. Adjust until the size of the icon looks right at the current zoom level.

You can choose how Plan Manager controls the size of the icon:

- **Fixed size (default).** The size of the icon remains the same regardless the zoom level you choose to view the map at. Therefore, select a size that works best at all zoom levels the map will be viewed at.

- **Follow map scale.** The icon size varies with the zoom level (map scale) you choose to view the map at. The relative size of the icon and the map scale is fixed by what you currently see on screen. Select Follow map scale, found under the **Position** property group, to set this option.

Select Follow map scale for all objects to have all current map object of the same type follow the map scale. For more information on the **Position** properties, see "Configuring the camera's field of view" on page 88.

4. (Optional) Set the viewing zoom range of the map object.
   
   If the map is likely to be viewed at a very wide range of zoom levels, you can configure Plan Manager to hide the map object when the zoom level is outside the optimum viewing range (either zoomed in too close or zoomed out too far).
This is controlled by the Maximum zoom and Minimum zoom parameters found under the Position property group. Experiment with different values to find the optimum range of zoom levels for viewing.

5. Change the orientation of the icon by dragging the green handle around the icon. A camera icon ought to point to the direction the real camera is pointing.

6. In the ribbon, click Save changes to save your changes to the database.

After you are done: "Configuring the map object states" on page 83.
Configuring the map object states

A map object can be in many different states. Most of them have three standard states: *Online*, *Offline*, and *Alarm*. Plan Manager provides default settings for all standard map object states.

Each state is represented by a combination of six display attributes:

- **Image.** Used to represent both the object type and a specific state. Click the image box to select a different image file. Clear the Image option to not use any image. In this case, a colored rectangle is displayed instead.

- **Image width/height.** Use these parameters to set the image width and height for this state only. To change the image size for all states simultaneously, close the States parameter group.
and drag the grey handles around the icon on the map (see "Adjust the icon size, position, and orientation on the map" on page 79).

**NOTE**  The size parameters are specified in absolute values. The relative size of the icon to the map scale is exactly the way you see it on the map the moment you click Save changes in the ribbon.

- **Color.** Color applied to the image for this state. Click the color picker to select a different color. For PNG files, the color is only applied to the non-transparent area of the image.
- **Transparency.** Use the horizontal slider to control the transparency of the image.
- **Blink rate.** Use the horizontal slider to control the blinking rate.

**Additional options**

To apply your settings to all map object of the same type:
- Select the **Apply to all** option.
  
  This option can be set individually for each state.

To cover more situations than the standard states allow you to:
- See "Adding a custom state" on page 85.

**Additional information**

Some map objects have more standard states than others.

To learn more, see:

- "Configuring door states" on page 90
Adding a custom state

If there are events or alarms related to a particular entity that you would like to monitor on the map, you can define a custom state to show it.

To add a custom state:
1. At the bottom of the States section, click Add (.addButton).
2. In the Name field, enter the name of the new state.
3. Select either Event or Alarm as the type of situation you want the custom state to monitor.
4. In the list that appears, select the event type (or the alarm entity) you want to monitor.
5 Configure the properties of the custom state (see "Configuring the map object states" on page 83).

**NOTE** You can select a custom image only for map object represented by an icon.

6 Click Save changes in the ribbon.

**Linking a macro to a map object**

You can link macros created for your Security Center system to a map object so it can be executed from its right-click menu. For example, you can define a macro that starts the recording on a camera. The camera ID can be bound to the macro as argument.
1. At the bottom of the Macros section, click Add ( ).
   The list of macros defined in Security Center appears.
2. Select a macro from the list.
   The list of input parameters for the selected macro appears.
3. Bind the variables to the input parameters.
4. Click Save changes in the ribbon.

A new Macros submenu is added to the list of commands when a user right-click on the map object in Pan mode.

For more information on creating macros and linking them to map objects, contact your Genetec representative.
Configuring the camera’s field of view

Most map objects have five or less position parameters to configure, but cameras have ten. Therefore, we'll use cameras to explain all the position parameters.

The position parameters are the following:

- **Latitude, Longitude.** Exact position of the map object icon on the map. The best way to set these values is to drag the icon to the desired position on the map. These parameters apply to all map objects.

- **Elevation.** (Only for cameras) Indicates the distance of the camera from the ground. When you change this value, it automatically adjusts the value of Distance.
• Pan. Called *Angle* for other object types, this parameter indicates the orientation angle of the icon in degrees (0 to 355). This value cannot be set manually for PTZ cameras. For fixed cameras, the best way to set this value is to drag the green handle of the icon to the desired angle on the map.

• HFov. (Only for cameras) Indicates the horizontal field of view in degrees (0 to 355). Controls how wide the FOV (green cone) appears on the map.

• Tilt. (Only for cameras) Indicates the tilt angle (in degrees) of the camera. 90 means the camera is pointing perpendicular to the ground. This value cannot be set manually for PTZ cameras. For fixed cameras, when you change this value, it automatically adjusts the value of *Distance*.

• Distance. (Only for cameras) Indicates the actual distance covered by the camera’s field of view. If you need to adjust it, always do it after you have adjusted *Elevation* and *Tilt*.

• Maximum distance. (Only for cameras) Indicates how far you allow the FOV (colored cone) to go on the map (see *Display FOV*). The actual distance covered by the camera’s field of view is indicated in *Distance*.

• Maximum zoom. The closest you can zoom in to the map and still see the map object. Zero (0) corresponds to the closest zoom. This parameters allows you to hide the map object when the user zooms in too close to the map.

• Minimum zoom. The farthest you can zoom away from the map and still see the map object. The maximum value depends on the zoom level used to import the map. This parameter allows you to hide the map object when the user zooms out too far away from the map.

• Display FOV. (Only for cameras) Select to display the camera field of view as a colored cone. The length of the cone is set by *Maximum distance*.

• Follow map scale. Select to maintain the size of the icon relative to your current map scale. As you zoom in/out, the icon becomes bigger/smaller as the rest of the map.

• Follow map scale for all objects. Select to have all current map object of the same type follow the map scale.

**Related topics:**

• "Adjust the icon size, position, and orientation on the map" on page 79
Most map objects have three states, but doors have seven. All seven door states are preconfigured by default in Plan Manager. However, if you wish to customize the door states, here is what you should know.
Several of the door states can be combined. For example, a door can be online, closed, and unlocked, all at the same time. Other states take precedence over the basic states, which are **Online** and **Offline**.

- **Online.** Closed door image, no color.
- **Offline.** (Closed door image, red color. When a door is offline, we can’t tell whether it is open or closed.
- **Opened.** Open door image, no color. This state can be combined with others.
- **Closed.** (Closed door image, no color. The closed door image is to revert the door image to closed after the door has been opened and closed.
- **Locked.** No image. White color. A door can be open or closed, and yet locked. The white color is necessary to revert the door color back to normal after it has been unlocked and locked.
- **Unlocked.** No image. Green color. A door can be open or closed, and yet unlocked.
- **Alarm.** Closed door image, blinking red color. When there is an alarm on the door, we don’t care whether it is open or closed.

**Related topics:**

- "Configuring the map object states" on page 83
Configuring LPR objects

An LPR object allows you to monitor reads and hits from a fixed LPR camera as well as view live video from the associated context camera.

Before you begin: The LPR camera must be associated to a context camera before you can add it to Plan Manager.

To configure an LPR object:

1. Move to the location on the map where you want to place the LPR camera.
2. In the ribbon, select the Edit tab.
3. From the Logical view, drag the context camera ( ) attached to the LPR camera to the desired position on the map. Do not drag the LPR unit ( ) or the LPR camera ( ).
4. Adjust the position and size of the LPR object icon.

For more information, see "Adjust the icon size, position, and orientation on the map" on page 79. The orange arrow indicates where the camera is pointing.

5. Click the States section and change the icon and color of the LPR object.
The LPR camera has four default states:

- **Online.** When the LPR camera is online. No color by default.
- **Offline.** When the LPR camera is offline. Red by default.
- **Read.** When the LPR camera just read a license plate. Green by default.
- **Hit.** When the license plate read just matched an entry in a hotlist. Orange by default.

For more information, see "Configuring the map object states" on page 83.

6 (Optional) Click the **Macros** section and link macros to the LPR object.

For more information, see "Linking a macro to a map object" on page 86.

7 Click the **Hotlist configuration** section and select the hotlists you want use to generate hits.

![Plan Manager interface](image)

**NOTE** If you do not select any hotlist, the LPR object will not generate any hits.

8 Set the values of the **Read** and **Hit** delays.

- **Read delay.** Number of seconds the LPR object remains in the **Read** state after a license plate is read (default=10).
- **Hit delay.** Number of seconds the LPR object remains in the **Hit** state after a read is matched to a selected hotlist (default=10).

9 In the ribbon, click **Save changes ()**.
Configuring I/O objects

An I/O object allows you to monitor the state of an input pin and/or control the behavior of the outputs associated to a Security Center entity, such as a door, a camera, a zone, or an intrusion detection area.

Before you begin: For the general procedure on creating map objects, see "Adding a map object" on page 72.

To configure an I/O object:

1. Move to the location on the map where you want to place the I/O object.
2. In the ribbon's Edit tab, click Add an I/O object, then a location on the map.
   An I/O object standard icon appears on the map and the I/O configuration panel appears.
3. (Optional) Adjust the size and position of the icon if necessary.
   See "Adjust the icon size, position, and orientation on the map" on page 79.
4. Click the Identity section, and enter the name of the I/O object.
5. (Optional) Click the States section and change the icon and color of the I/O object.
   For more information, see "Configuring the map object states" on page 83.
6. (Optional) Click the Macros section and link macros to the I/O object.
   For more information, see "Linking a macro to a map object" on page 86.
7 Click the I/O configuration section the I/O object, and drag the entity whose input and outputs you wish to control with this object from the Logical view to the area indicated Drop entity here.

NOTE You must define at least one input or one output for an I/O object to be valid.

8 (Optional) Configure the input you want to monitor with this I/O object.
In the Configure input section, click the input you want to monitor with this object. You can only monitor one input per I/O object.

9 (Optional) Configure the output commands you want to associate to this I/O object.
   a In the Configure outputs section, click to add an new output command.
      Each output command is defined in three parts:
      - The name of the output pin.
      - The behavior you want to send to this output.
      - The name of the output command you want to show in the right-click menu.
      b Click in each field to set its value.
   c Repeat as many times as necessary.
10 In the ribbon, click Save changes ( ) when you finished.

11 In the ribbon, click the Home tab to go back to leave the Edit mode.
12 Right-click the I/O object to show the output commands you just defined.
Configuring map links

A map link is a hyperlink to another map view in Plan Manager. It is represented by a semi-transparent colored polygon covering the area you can click on the map.

This section includes the following topics:

- "Add a map link" on page 97
- "Add a map view to your Favorites" on page 99

Add a map link

Before you begin: You must have other map views to link to. For the general procedure on creating map objects, see "Adding a map object" on page 72.

1. Move to the location on the map where you want to add the map link.
2. In the ribbon's Edit tab, click Add a map link, then a location on the map.
3. Draw a the clickable area (see "Drawing a polygon on the map" on page 75).
4. Choose the color and transparency of your map link (see "Configuring the map object states" on page 83).
5 Click the Identity section, and select the map view to link to.

A map view is a defined display position and zoom level for a given map. Every map published in your map structure has a default map view (see "Publishing a map source" on page 59). You can also define additional map views as Favorites (see "Add a map view to your Favorites" on page 99).

Use the search string filter to shorten the list if necessary.

6 Select Use favorite name or enter a different name for your map link.

7 Select Link this map link to alarms if you want the map link to be in the alarm state when the map it links to contains objects in the alarm state.

8 (Optional) Click the Macros section and link macros to the map link.

   For more information, see "Linking a macro to a map object" on page 86.

9 (Optional) Click the Position section and configure the viewing range for the map link.

   For more information, see "Adjust the icon size, position, and orientation on the map" on page 79.

10 In the ribbon, click Save changes ( ).
Add a map view to your Favorites

You can add your current map view to your Favorites. Favorites are created for easy access to frequently used map views and for creating map links. See "Add a map link" on page 97.

1. Be sure you are in Pan mode. If not, in the ribbon, select the Home tab.
2. Right-click on your current map view and select Add a favorite.
3. Enter the name of the new favorite and click Save ( ).
4. (Optional) Click the button in front of the favorite name to toggle between public and private favorite. A public favorite is visible to all users. A private favorite is only visible to you.
Configuring hotspots

A hot spot marks a location on the map that requires special attention or close monitoring. By default, it appears as a yellow marker on the map. You can associate cameras to a hotspot so that when an operator double-clicks the marker, the associated cameras are displayed on the canvas and all PTZ cameras automatically turn towards the marked location.

This section includes the following topics:

- "Add a hotspot" on page 100
- "Configure a PTZ camera for a hotspot" on page 102

Add a hotspot

Before you begin: Only cameras configured in Plan Manager can be associated to a hotspot. For information on configuring cameras, see "Adding a map object" on page 72 and "Configuring the camera’s field of view" on page 88.

1 Move to the location on the map where you want to add the hotspot.
2 In the ribbon’s Edit tab, click Add a hotspot, then a location on the map.
   A yellow marker appears on the map and the hotspot configuration panel appears.
3 Adjust the size and position of the icon if necessary.
   See "Adjust the icon size, position, and orientation on the map" on page 79.
4 Click the Identity section, and enter the name of the hotspot.
5. Select **Link this hotspot to alarms** if you want the hotspot to be in the alarm state when one of the cameras it is associated to is in the alarm state.

6. Click the **Cameras** section.

7. Under the **Cameras** section, click **Add** ( ).
   - The list of camera map objects configured on this map appears.
     - To associate a fixed camera, simply select it from the list.
     - To associate a PTZ camera, select it and configure the position it should turn to.
       - For more information, see "Configure a PTZ camera for a hotspot" on page 102.
     - Repeat as needed.

8. (Optional) Click the **States** section and change the icon and color of the hotspot.
   - For more information, see "Configuring the map object states" on page 83.

9. (Optional) Click the **Macros** section and link macros to the hotspot.
   - For more information, see "Linking a macro to a map object" on page 86.

10. (Optional) Click the **Position** section and configure the viewing range for the hotspot.

11. In the ribbon, click **Save changes** ( ).
Configure a PTZ camera for a hotspot

Before you begin: Display the PTZ camera you are configuring in an adjacent tile so you can check and control its PTZ while you are configuring it for the hotspot.

There are two ways you can configure the PTZ, by adjusting it manually, or by selecting an existing PTZ preset.

To adjust the PTZ position manually:

**NOTE** Only works with PTZ cameras capable of returning their PTZ position.

1. Under the camera list, click the Position button.

2. Under the Position button, click the orange button.
   
   The button turns red.

3. Turn the cameras to the desired position for the hotspot using the adjacent tile

4. Press the red button when you are finished.
   
   The button turns green.

5. Move the PTZ to a different position.

6. Click Test the position.

   The PTZ returns to the configured position. This is the position the PTZ will turn to when the hotspot is clicked on the map.
7 If the position is correct, click **Save changes**.
8 If not, repeat the procedure.

To use an existing PTZ preset:

1 Under the camera list, click **Preset** and then select one of the preset buttons below.

2 Move the PTZ to a different position.
3 Click **Test the position**.
   
   The PTZ goes back to the selected preset position.
4 If the position is not what you want, try a different preset or define a new one with the PTZ widget found in the Dashboard.
5 If the position is correct, click **Save changes**.
## Index

| A | About box, Home tab, ribbon, 8 |
|   | alarm notification icon, 7 |
|   | representation, 6 |
|   | alarms respond with Plan Manager, 33 |
|   | view in Plan Manager, 32 |
|   | Alarms, Home tab, ribbon, 8 |
|   | alarms, list of, 8 |

| B | Back, Home tab, ribbon, 8 |
|   | Bing map, search, 21 |
|   | blinking red icon, alarm, 6 |

| C | camera additional commands, 25 |
|   | configuring, 88 |
|   | controlling PTZ, 24 |
|   | LPR, viewing, 26 |
|   | viewing, 23 |
|   | connection status, indicator, 7 |
|   | contacting technical support, 108 |
|   | custom state configure, 85 |

| D | database backup, 68 |
|   | restore, 68 |
|   | default map view, 60 |
|   | demo license, acquiring, 108 |
|   | Display tab, ribbon, 8 |
|   | document information, ii |
|   | documentation. See production documentation |

| E | Edit mode what is, 9 |
|   | Edit mode, using, 71 |
|   | Edit tab, ribbon, 9 |

| F | failover configuring, 66 |
|   | prerequisites, 66 |
|   | sample configuration, 66 |
|   | favorite add, 99 |
|   | Favorites link to, 97 |
|   | Favorites, Home tab, ribbon, 8 |
|   | field of view (FOV), 6 |
|   | Forward, Home tab, ribbon, 8 |
|   | FOV (field of view), 6 |
|   | FOV, display, 89 |

| G | Go to home location, Home tab, ribbon, 7 |

| H | Home location, 7 |
|   | Home tab, ribbon, 7 |
|   | hotspot configuring, 100 |
I

I/O objects
  configuring, 94
installing
  Plan Manager
    silent mode, 48, 49
    silent mode, 48

K

KML objects
  applications, 64
  what is, 64

L

lasso mode, Home tab, ribbon, 7
layer selector
  show/hide, 8
LED, 7
licensing, 108
Limitations
  Plan Manager Server, 53
LPR camera
  viewing, 26
LPR object
  configuring, 92

M

macro
  add to map object, 86
map cache, option, 8
map database
  backup, 68
  restore, 68
map link
  configuring, 97
  using, 19
map object
  adding, 72
  additional info, 6
  editing multiple map objects simultaneously, 74
  polygon, drawing, 75
  size, adjusting, 79
  states, configuring, 83
what is, 6, 17
map selector, Home tab, ribbon, 7
map source
  what is, 59
map structure
  adding folders, 58
  publish map source, 59
  what is, 58
map view
  defining, 99
mini-map, 6
  show/hide, 8

P

pan mode, Home tab, ribbon, 7
panel transparency, option, 8
Plan Manager
  installing
    silent mode, 49
    roles, configuring, 53
    server and database, 66
  uninstalling components
    silent mode, 51
  version number, 8
what is, 2
Plan Manager Client
  about, 41
  Edit mode, 71
  installing, 41
Plan Manager Server
  about, 39
  installing, 39
  limitations, 53
Plan Manager tile, 6
polygon, drawing, 75
product documentation, about, 107
PTZ control, 24

Q

quick map selector
  about, 6
  show/hide, 8
Index

**R**
- ribbon
  - Display tab, 8
  - Edit tab, 9
  - Home tab, 7
  - show/hide, 8
- ribbon, about, 7

**S**
- Search
  - by type and by name, 20
  - for objects in Bing maps, 21
  - for Security Center entities, 20
- Search, Home tab, ribbon, 8
- Show/hide
  - layer selector, 8
  - mini-map, 8
  - quick map selector, 8
  - ribbon, 8
- silent install command, using, 49
- silent mode
  - installing, 48
    - install command, 49
    - options, 50
    - Plan Manager, 49
    - uninstalling Plan Manager, 51

**T**
- target monitor
  - configuring, 27
  - switching, 28
  - what is, 8
- technical support, contacting, 108
- tile, Plan Manager, 6

**U**
- uninstalling
  - Plan Manager in silent mode, 51
- upgrade
  - Plan Manager 10.0 or 10.1, 47
  - Plan Manager 7, 47

**V**
- version number, 8
- viewing
  - camera, 23
  - on remote monitors, 27

**W**
- WMS map
  - add license key, 62
Where to find product documentation

You can find our product documentation in the following locations:

- **Installation package.** The documentation is available in the *Documentation* folder of the installation package. Some of the documents also have a direct download link to the latest version of the document.

- **Genetec Technical Assistance Portal (GTAP).** The latest version of the documentation is available from the GTAP *Documents* page. Note, you’ll need a username and password to log on to GTAP.

- **Help.** Security Center client and web-based applications include help, which explain how the product works and provide instructions on how to use the product features. Patroller and the Sharp Portal also include context-sensitive help for each screen. To access the help, click Help, press F1, or tap the ? (question mark) in the different client applications.
Technical support

Genetec Technical Assistance Center (GTAC) is committed to providing its worldwide clientele with the best technical support services available. As a Genetec customer, you have access to the Genetec Technical Assistance Portal (GTAP), where you can find information and search for answers to your product questions.

- **Genetec Technical Assistance Portal (GTAP).** GTAP is a support website that provides in-depth support information, such as FAQs, knowledge base articles, user guides, supported device lists, training videos, product tools, and much more.

  Prior to contacting GTAC or opening a support case, it is important to look at this website for potential fixes, workarounds, or known issues. You can log in to GTAP or sign up at [https://gtap.genetec.com](https://gtap.genetec.com).

- **Genetec Technical Assistance Center (GTAC).** If you cannot find your answers on GTAP, you can open a support case online at [https://gtap.genetec.com](https://gtap.genetec.com). For GTAC's contact information in your region, see the Contact page at [https://gtap.genetec.com](https://gtap.genetec.com).

  **NOTE** Before contacting GTAC, please have your System ID (available from the About button in your client application) and your SMA contract number (if applicable) ready.

- **Licensing.**
  - For license activations or resets, please contact GTAC at [https://gtap.genetec.com](https://gtap.genetec.com).
  - For issues with license content or part numbers, or concerns about an order, please contact Genetec Customer Service at customerservice@genetec.com, or call 1-866-684-8006 (option #3).
  - If you require a demo license or have questions regarding pricing, please contact Genetec Sales at sales@genetec.com, or call 1-866-684-8006 (option #2).

**Additional resources**

If you require additional resources other than the Genetec Technical Assistance Center, the following is available to you:

- **GTAP Forum.** The Forum is an easy to use message board that allows clients and Genetec staff to communicate with each other and discuss a variety of topics, ranging from technical questions to technology tips. You can log in or sign up at [https://gtapforum.genetec.com](https://gtapforum.genetec.com).

- **Technical training.** In a professional classroom environment or from the convenience of your own office, our qualified trainers can guide you through system design, installation, operation, and troubleshooting. Technical training services are offered for all products and for customers with a varied level of technical experience, and can be customized to meet your specific needs and objectives. For more information, go to [http://www.genetec.com/Services](http://www.genetec.com/Services).