

# **Door Status Integration 17-01**

## **v1.0**

for building automation system v7.0 or higher



Important changes are listed in Document Revision History at the end of this document.

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## What is the Door Status Integration 17-01 add-on?

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The Door Status Integration 17-01 add-on allows you to monitor and respond to door-related events from a Honeywell® system by creating points that can be viewed on a graphic in your building automation system. These graphics must be defined in ViewBuilder before they can appear in your building automation system.

### Requirements

- You have purchased and downloaded the Door Status Integration 17-01 add-on
- You are running all of the following:
  - WIN-PAK® with API v4.7 or higher\*
  - Internet Information Server (IIS) v5.1 or higher\*
  - .NET Framework v4.5 or higher\*
  - v7.0\* building automation system with the latest cumulative patch applied
- Your building automation system is backed up regularly to ensure the add-on's data is also backed up
- You have *installed the Door Status Integration 17-01 Windows Communication Foundation (WCF) service* (page 1) (included in the Door Status Integration 17-01 download file)

\* Contact your building automation system representative to determine if subsequent releases of this product are compatible with the Door Status Integration add-on.

See "Installing an Add-on User Guide" for the following:

- Installing an add-on
- Applying a license
- Running an add-on
- Upgrading an add-on

### Installing the WCF service

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Before installing Door Status Integration 17-01, you must install the Door Status Integration 17-01 WCF service. Follow the steps below to install the service.

- 1 Copy the WCF Service Installation files to your WIN-PAK Server Host Machine/ API Client Machine.

**NOTE** If you are installing on a client machine, ensure that client components are installed and configured as defined in the WIN-PAK user guide, and that the machine is able to communicate with the server.

- 2 On the WIN-PAK Host/API Client Machine, double-click **setup.exe**.
- 3 The default **Virtual directory** is "WIN-PAK\_API\_Service". You can accept the default name, or enter another value. Confirm the directory, and then click **Next**.
- 4 Once the installation completes, click **Close**.
- 5 Open your Windows® Internet Information Services (IIS) Manager, and verify the WCF service appears with the name you provided in step 3. You may need to enable the IIS Manager first.

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- 6 Select the WCF service, and click **Application Settings**.
- 7 Click the **targetClientIP** row and configure your building automation system server IP address and port.

**NOTE** The value in **targetClientIP** must match the browser URL used to access the add-on configuration pages. See *Configuring the add-on* (page 2).

## Configuring the add-on

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Before using Door Status Integration 17-01 you must configure the add-on.

**Step 1** Define *Connection Settings and Location* (page 2).

**Step 2** Pull in the *Door Status* (page 2) points.

**At any time**, you can reference *Log Activity* (page 3) in the event of a system error.

## Connection Settings and Location

- 1 Under **WIN-PAK Connection Settings**, click the **Configuration** tab, and enter the **WCF Service URL**.  
 **TIP** It is recommended that you use a secure connection (HTTPS) to communicate with the WCF service
- 2 Enter a valid WIN-PAK **Username** and **Password**, and then click **Save** to connect to the WIN-PAK system..
- 3 Under **Specify Location**, enter the reference name of the area the points will be associated with. A point is created for each door in your system that your **Username** has access to.  
 **TIP** Create a new location specifically for the points created by this add-on.
- 4 Verify your points on the **Door Status** tab.

## Door Status

The **Door Status** tab will be empty until the **Configuration** tab is completed, and you perform the steps below.

- 1 Click **Refresh Doors** to pull in all the doors associated with the **Username** used in your configuration.
- 2 When new doors are added to the WIN-PAK system, click **Refresh Doors** to pull them into the system.

**NOTE** **Status** updates only when an event occurs. At initial load the doors status is unknown, and "Pending initial event" appears until the status of the door changes the first time.

## Log Activity

The **Log Activity** tab contains a log of events. **Logging Level** can be set to **Normal**, or **Verbose**.

- **Normal** records Start-up / Shutdown, errors Connection Reset messages, and when new doors are added or removed.
- **Verbose** records everything that **Normal** status records, plus all status changes, and health check messages (health checks occur every 30 seconds).

Leave the level on **Normal** unless you are actively performing troubleshooting. After **Verbose** mode is no longer required, set **Logging Level** back to **Normal**.

## Creating doors in the ViewBuilder file

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### To add a text status-indicator

- 1 On the **Door Status** tab, select and copy the **Reference Name** of the door you want to add to your ViewBuilder file.
- 2 In ViewBuilder, open your View file.
- 3 Drag and drop **Single-line Text control** onto the graphic.
- 4 In **Microblock Path**, paste the **Reference Name** you copied previously.
- 5 In **Property** enter, `presentValue/displayValue`.

### To add a colored button status-indicator

- 1 Click **Image list** and select a **Default Image** (color icon) from the default building automation system image library.
- 2 Add additional images by pressing **+** and selecting the image from the stored location. Enter an expression to configure the image for one or more particular conditions.

**Example:** To make the “light\_red-on\_18.gif” image appear for event status **Door Forced Open** (event ID 720), or **Door Trouble** (event ID 722), enter the following expression:

```
$#win-pak/winpak-23/presentValue$ == '720' ||  
$#win-pak/winpak-23/presentValue$ == '722'
```



**TIP** Use the **Event IDs** in the *Appendix* (page 4) to determine the appropriate **presentValue** for the expression.

## Troubleshooting

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### Door Status will not update / "Request Unauthorized (Invalid Token)"

**Problem:** **Door Status** does not update in your building automation system when WIN-PAK (WCF Service) sends an update. An error message, "Request Unauthorized (Invalid Token)", *appears in the log* (page 3).

**Resolution:** Follow the steps below to resolve this issue.

- Verify the WIN-PAK Services (communication service, database, etc.) and the WCF Service are running on the WIN-PAK host machine. If they are not, start them.
- Verify there is active network connectivity between WCF service machine and the building automation system machine. If there is not, connect them.

If the issue still persists, re-initiate the server connection with one of the following methods.

- Click **Save** on the **Configuration** tab.
- Restart the add-on (**Disable** and **Enable** the add-on).

## Appendix

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### Event IDs

719 - Door Normal  
720 - Door Forced Open  
721 - Door Ajar  
722 - Door Trouble  
725 - Door locked  
1301 – FIN4000 Door Open  
1302 – FIN4000 Door Closed  
1303 – FIN4000 Door Forced Open  
1304 – FIN4000 Door Forced Open Clear  
1305 – FIN4000 Door Held Open  
1306 – FIN4000 Door Held Open Clear  
1339 – FIN4000 Door Trouble



## Document revision history

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Important changes to this document are listed below. Minor changes such as typographical or formatting errors are not listed.

Date	Topic	Change description	Code*
1/15/20	Creating doors in the ViewBuilder file	Updated example	A-PM-LO-E-LO
12/22/20	Cover	Updated supported versions	A-D
9/11/20	Creating doors in the ViewBuilder file	Changed presentValue to presentValue\$	A-TS-LO-LO
2/25/20	Legalese	All rights reserved statement	A-D

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