

Huddly IP Camera deployment guide (L1/S1)

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Introduction	2
Prerequisites	2
Platforms	2
Installation	2
Single-room deployment	2
MSI deployment basics	2
Customizing when and how firmware is updated	3
Other customizable options during installation	3
Deploying using Microsoft Intune	5
Firewall	10
Group Policy (GPO)	10
Lenovo ThinkSmart Manager	10
Get help and more information	10



Introduction

This deployment guide describes how to deploy the Huddly L1/S1 camera in various scenarios, including deploying the software using a MSI installer option and Microsoft Intune.

This document is intended for people who install and set up the Huddly L1/S1 camera.

Prerequisites

This document assumes Huddly L1 firmware version 1.2.8 or later and Huddly S1 firmware 1.4.0 or later.

Platforms

Currently the Huddly L1/S1 is only supported on Windows 10 or later versions and macOS 12.3 or later.

Installation

Single-room deployment

For single-room deployments and evaluation, we recommend using the interactive installer. It offers more options for installation, interactive troubleshooting when something goes wrong, and video preview confirmation when everything is set up correctly.

The steps can be found on <https://huddly.com/setup>

MSI deployment basics

When deploying to several systems, or if you wish to install or update the software remotely, you should use the distributable installer HuddlyCameraSetup.msi. With the distributable installer, you can either install the camera first and deploy the software later or deploy the camera first and install the software later. When everything is connected correctly, camera firmware will update automatically in both cases.

Please see our Intune MSI deployment guide below, or refer to Microsoft's Windows 10 app deployment by using Microsoft Intune | Microsoft Docs guide for more detailed installation instructions.



If you use the distributable installer, the camera firmware will be updated automatically. By default, the setup is configured to update firmware at a randomly selected time between 3 AM and 4 AM local time. It will update all Huddly IP cameras that are connected directly to the host system.

Customizing when and how firmware is updated

If you would like to customize when and how firmware is updated, you can use HuddlyCameraSetup.msi command line arguments. You can specify these command line arguments in your deployment script or directly in the Microsoft Endpoint Manager. For example:

Only update on Sundays and Saturdays (all days by default):

```
SoftwareUpdateDaysOfWeek=Saturday|Sunday
```

Update firmware at a random point in time between 5 AM and 5:30 AM (3-3:50 AM by default):

```
SoftwareUpdateHourOfDay=5,SoftwareUpdateRandomStartSeconds=1800
```

Allow downgrading camera firmware (false by default):

```
FirmwareUpdateAllowDowngrade=true
```

Wipe current configuration (this is required when editing existing configuration parameters during a software update or reinstall).

```
WIPECONFIG=true
```

If you are installing from the command line using msixexec, make sure that you are executing it with administrator privileges. The following is an example of how to install using msixexec:

```
msiexec -i HuddlyCameraSetup.msi WIPECONFIG=true  
CONFIG="SoftwareUpdateDaysOfWeek=Saturday|Sunday,SoftwareUpdateHourOfDay=5" -qn
```

Or, using default configuration, simply:

```
msiexec -i HuddlyCameraSetup.msi -qn
```

Other customizable options during installation

// When this is enabled a software and feature update check will run immediately, every time the service starts.

```
SoftwareUpdateOnStartup: true
```

// Allow firmware downgrade for connected Huddly devices.



FirmwareUpdateAllowDowngrade: false

// Apply the specified feature toggles nightly, after the firmware and feature option checks have completed successfully.

// Available toggles: GeniusFramingOff, GeniusFramingOn, SpeakerFramingOff, SpeakerFramingOn

FeatureToggles: GeniusFramingOn

// Attempt to apply specified feature toggles every time a camera is connected. The default behaviour is to only apply feature toggles nightly, after the firmware and feature option checks have completed successfully.

FeatureToggleOnCameraConnect: false

// Remove the software device (Huddly L1 or Huddly S1) a set number of milliseconds after the USB to PoE adapter is unplugged, if no failover IP camera is available. Set -1 for always installed.

RemoveSoftDeviceOnUsbDisconnect: 3000

Example:

```
msiexec -i HuddlyCameraSetup_7.7.4.0.msi WIPECONFIG=true
```

```
CONFIG="SoftwareUpdateDaysOfWeek=Saturday|Sunday,SoftwareUpdateHourOfDay=4" -qn
```

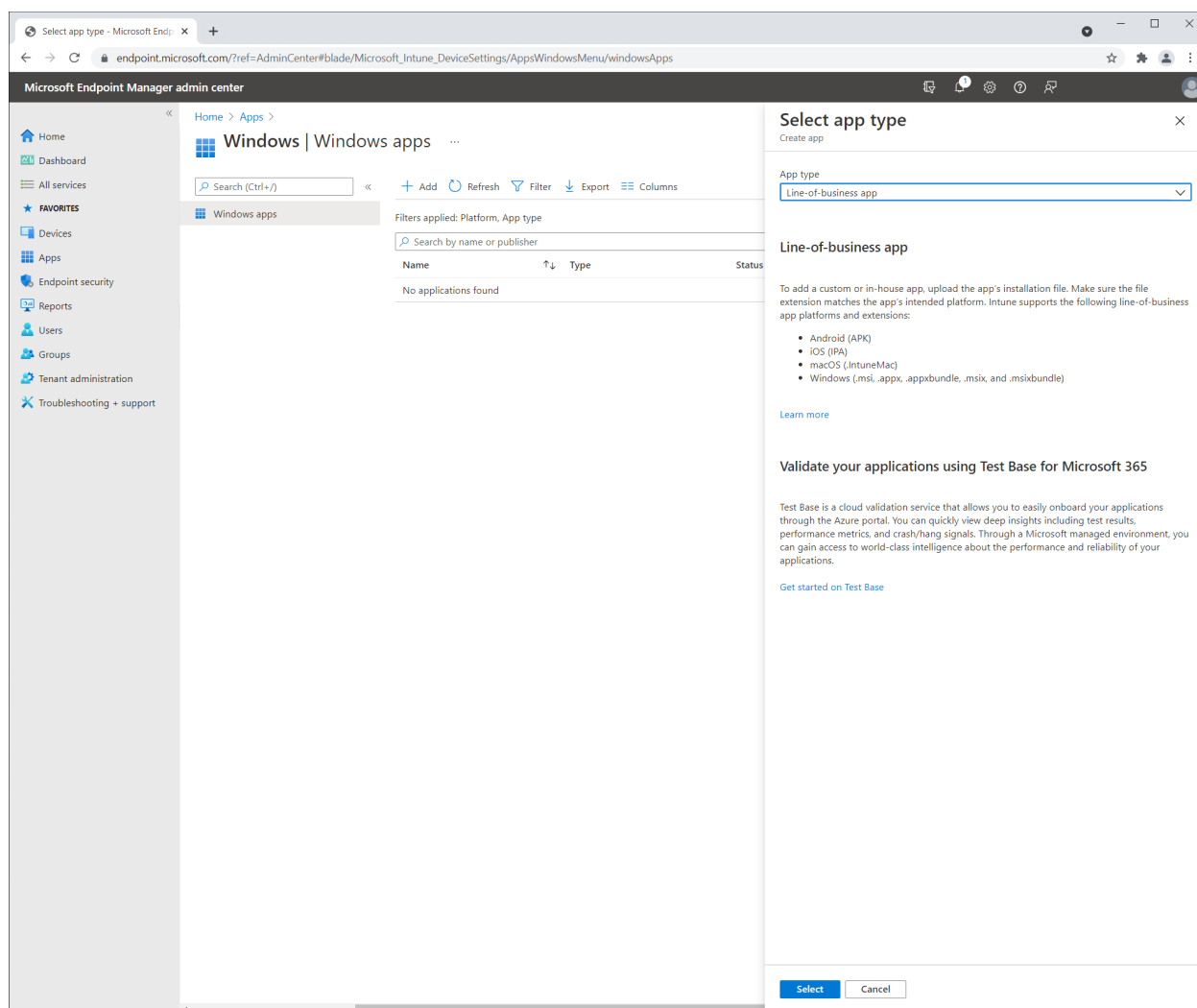


Deploying using Microsoft Intune

There are many ways to deploy an application on Windows 10 machines. We will be deploying an application using an MSI installer in this guide.

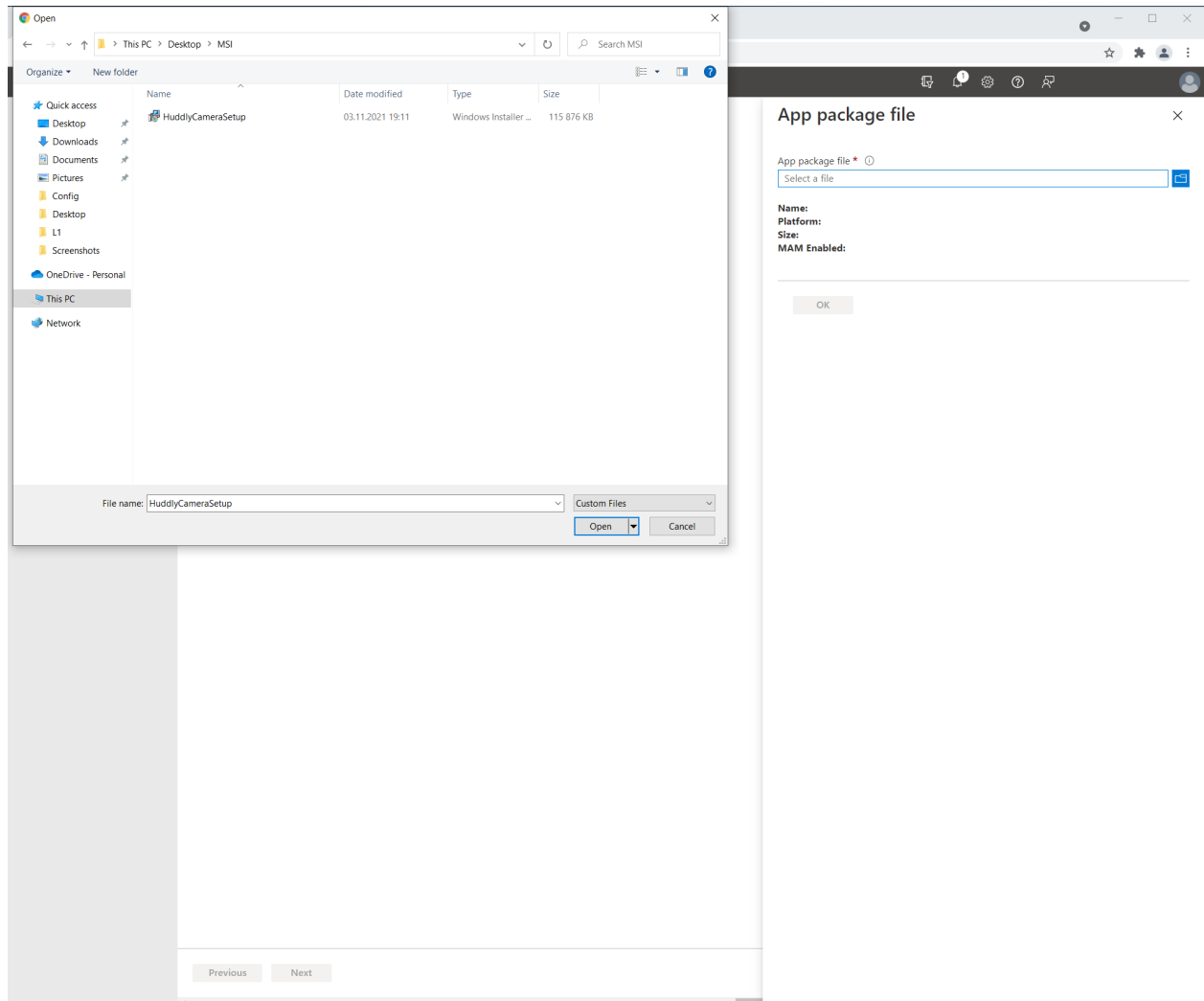
We will be using the Line-of-business apps Deployment method of Microsoft Intune for this deployment. This supports msi, .appx, .appxbundle, .msix, and .msixbundle deployments for Windows.

1. Log in to Microsoft Endpoint Manager admin center - <https://endpoint.microsoft.com/>.
2. Go to Apps -> Windows apps -> Click on + Add.
3. Select Other - Line-of-business app and click Select.





4. Click “App package file” and select the MSI file.



5. Click OK.



6. Complete the form and select Next.

The screenshot shows the 'Add App' form in the Microsoft Endpoint Manager admin center. The form is titled 'Add App' and is for a 'Windows MSI line-of-business app'. The left sidebar contains navigation links: Home, Dashboard, All services, FAVORITES, Devices, Apps, Endpoint security, Reports, Users, Groups, Tenant administration, and Troubleshooting + support. The main content area has a breadcrumb trail: Home > Apps > Windows > Add App. The form is divided into three tabs: 1. App information (selected), 2. Assignments, and 3. Review + create. The 'App information' tab contains the following fields and options:

- Select file:** A link to 'HuddlyCameraSetup.msi'.
- Name:** A text box containing 'Huddly IP Camera'.
- Description:** A text box containing 'Huddly IP Camera'.
- Edit Description:** A link to edit the description.
- Publisher:** A text box containing 'Huddly'.
- App install context:** Radio buttons for 'User' (selected) and 'Device'.
- Ignore app version:** Radio buttons for 'Yes' and 'No' (selected).
- Command-line arguments:** A text box.
- Category:** A dropdown menu showing '0 selected'.
- Show this as a featured app in the Company Portal:** Radio buttons for 'Yes' and 'No' (selected).
- Information URL:** A text box with placeholder text 'Enter a valid url'.
- Privacy URL:** A text box with placeholder text 'Enter a valid url'.
- Developer:** A text box.
- Owner:** A text box.
- Notes:** A text box.
- Logo:** A link to 'Select image'.

At the bottom of the form, there are two buttons: 'Previous' and 'Next'.



7. Select what devices or users to distribute the application to and click Next.

The screenshot shows the 'Add App' page in the Microsoft Endpoint Manager admin center, specifically the 'Assignments' tab. The page is titled 'Add App' and 'Windows MSI line-of-business app'. It features a left-hand navigation pane with options like Home, Dashboard, All services, FAVORITES, Devices, Apps, Endpoint security, Reports, Users, Groups, Tenant administration, and Troubleshooting + support. The main content area is divided into three sections: 'Required', 'Available for enrolled devices', and 'Uninstall'. Each section has a table with columns for Group mode, Group, Filter mode, Filter (preview), and Install Context. The 'Required' section shows a table with one row for 'Included' and 'All devices'. The 'Available for enrolled devices' and 'Uninstall' sections show tables with 'No assignments'.

Microsoft Endpoint Manager admin center

Home > Apps > Windows >

Add App

Windows MSI line-of-business app

App information Assignments Review + create

Required

Group mode	Group	Filter mode	Filter (preview)	Install Context
Included	All devices	None	None	Device context

+ Add group + Add all users + Add all devices

Available for enrolled devices

Group mode	Group	Filter mode	Filter (preview)	Install Context
No assignments				

+ Add group + Add all users

Uninstall

Group mode	Group	Filter mode	Filter (preview)	Install Context
No assignments				

+ Add group + Add all users + Add all devices

Previous Next



8. Review the configuration and select Create when done

Microsoft Endpoint Manager admin center

Home > Apps > Windows >

Add App

Windows MSI line-of-business app

App information Assignments **Review + create**

Summary

App information

App package file	HuddlyCameraSetup.msi
Name	Huddly IP Camera
Description	Huddly IP Camera
Publisher	Huddly
App install context	Device
Ignore app version	No
Command-line arguments	--
Category	--
Show this as a featured app in the Company Portal	No
Information URL	--
Privacy URL	--
Developer	--
Owner	--
Notes	--
Logo	--

Assignments

Group mode	Group	Filter mode	Filter (preview)	Install
> Required				
Available for enrolled devices				
Uninstall				

Previous Create

9. The MSI is now being uploaded to Azure and will be installed on the devices or to the users you defined in step 7.



Firewall

Since the Huddly L1/S1 camera is an IP camera it needs to communicate on the following ports:

Port	Application	Notes
TCP/UDP 3702	WS-Discovery	
UDP/TCP 554	RTSP media control	
UDP Random (Server) UDP Random (Client)	RTP Media	Specified by host application in RTSP setup
TCP 50051	GRPC API	Camera API used by Huddly applications and other API integrations

In some security software you can change the network setting of the Huddly USB-to-PoE adapter from public to Home/Work and it will permit the communication between the host computer and the Huddly L1/S1 camera. Or simply by trusting the Huddly USB-to-PoE network interface.

Group Policy (GPO)

Some organizations have a Group Policy in place that only allows one network interface to be active at a time. Since the communication between the host computer and the Huddly L1/S1 is done over a link-local network, this GPO needs to be disabled in order for the camera to work.

Lenovo ThinkSmart Manager

In order for the Huddly L1/S1 camera to work in an environment where the host computer is enrolled in ThinkSmart Manager, you will need to enable USB Port Connections for *Other*.

See the following FAQ for more details:

<https://support.huddly.com/huddly-l1-and-lenovo-thinksmart-manager/>

Get help and more information



For more information about installing and setup of the Huddly L1/S1, please refer to <http://huddly.com/setup>

For more information about the Huddly L1 or other Huddly product, please visit <https://www.huddly.com/specs/>

For help and support with the Huddly L1 or other Huddly products, please visit <https://support.huddly.com/>

If you need to contact product support please use the form found at <https://support.huddly.com/contact/>