



Intel Unite[®] Solution

Version 4.0

Guest Access Application Guide

Revision 1.0



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1 Introduction

This document explains how to install and use the Intel Unite® app for protected guest access on the Intel Unite® solution.

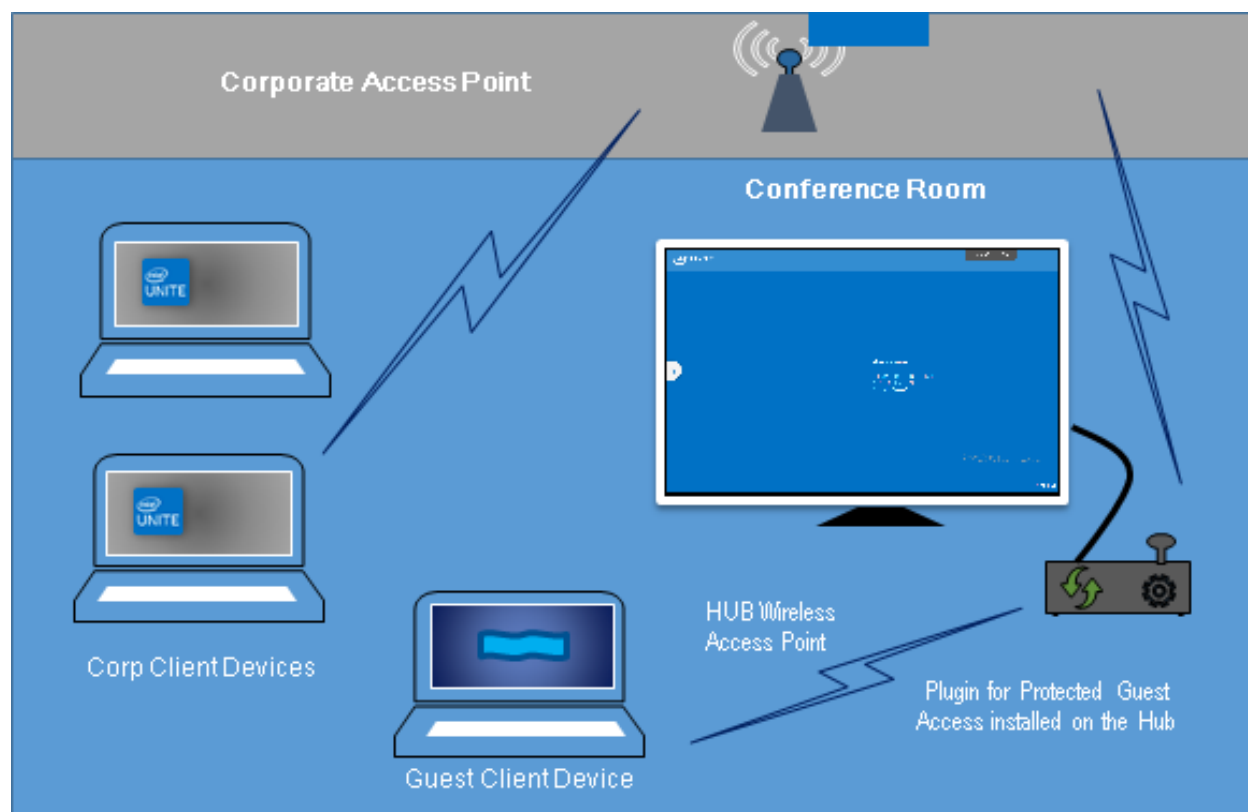
1.1 Audience

This document is designed for IT professionals in a corporate environment who are responsible for installing the Intel Unite® software and adding optional features, such as the Guest Access app.

1.2 Overview

The Intel Unite® app for protected guest access allows a guest client device to connect to a hub without being on the same enterprise network. This is possible because the hub can create an ad hoc/hosted network (or access point) where the guest client device can connect, download, and join the Intel Unite® application for the client device, as illustrated in [Figure 1](#) below.

Figure 1. Guest Access App Overview



1.3 Recommended Security Controls

Intel recommends that IT personnel adhere to the following security controls:

- Turn off network bridging on the hub running the Guest Access app.
- In an Active Directory* environment, set Group Policy Object (GPO) policies on the hub. GPO policies can limit applications and users.



- Deploy a firewall between Guest Access devices and corporate connections to limit unauthorized traffic.
- Ensure a firewall protects all unused ports.
- Deploy software-based solutions to prevent unauthorized executables from running on Guest Access devices. For example, run McAfee* Application Control or Windows* AppLocker.
 - For more information about McAfee Application Control, visit the McAfee website (<http://www.mcafee.com/us/products/application-control.aspx>).
 - For more information about Windows AppLocker, visit the Microsoft website (<https://technet.microsoft.com/itpro/windows/whats-new/whats-new-windows-10-version-1507-and-1511>).
- Deploy hardware- and software-based solutions to prevent unauthorized executables from running on Guest Access devices, such as Device Guard on Windows* 10 devices (<https://technet.microsoft.com/en-us/itpro/windows/keep-secure/device-guard-deployment-guide>).
- For information about disabling network bridging, review the Microsoft library article entitled, *Enable or Disable Network Bridge with Group Policy* ([https://technet.microsoft.com/en-us/library/cc732103\(v=ws.10\).aspx](https://technet.microsoft.com/en-us/library/cc732103(v=ws.10).aspx)).

2 Guest Access Installation

This section describes how to install the Guest Access app.

2.1 Prerequisites

The Intel Unite® solution Guest Access app can be installed on a hub after it's uploaded to the server and Intel Unite® solution meets the following requirements:

Software requirements:

- Intel Unite® software for the server, version 4.0 or greater
- Intel Unite® software for the hub, version 4.0 or greater

Hardware requirements:

- Intel® vPro™ hub system
- Monitor or screen connected to the hub

2.2 Install the Guest Access App

The installation of the Guest Access app requires interaction with the server and the hub, as described in this section. The app package must be uploaded and approved before the app can be added to the hub configuration and downloaded to the hub.

2.2.1 Upload the Guest Access Package

The first step of installing a app is to upload the app package to the Admin Portal server. To upload the Guest Access app package, log in to a system on the same network as the Admin Portal server, and then complete the following steps:

1. Open a web browser (Intel recommends using Chrome* for this installation).
2. Browse to the Admin Portal (<https://<FDQN of Server>/intelunite/admin>).
3. Log in to the Admin Portal with an account that has permission to upload packages.
4. Under Device Management menu, click **UPLOAD PACKAGE**.
5. Browse to the location of the Guest Access app .cab package file.
6. Select the Guest Access app .cab package file.
7. Click **Open**.
8. Confirm the appearance of the Success message.

2.2.2 Approve the Guest Access Package

After the Guest Access package is uploaded to the server, it needs to be approved. To approve the Guest Access package, log in to a system on the same network as the Admin Portal server, and complete the following steps:

1. Open a web browser (Intel recommends using Chrome* for this installation).
2. Browse to the Admin Portal (<https://<FDQN of Server>/intelunite/admin>).
3. Log in to the Admin Portal with an account that has permission to approve packages.
4. Under Device Management menu, click **FEATURES/APPS**.
5. Click **Package Approval** to display the list of package(s) awaiting approval.



6. Find the line item with the name **Guest Access** package.
7. Click **Approve** for the **Guest Access** line item.

2.2.3 Add Guest Access to a Hub Configuration

An approved app package can be added to a hub configuration. To add Guest Access to a hub configuration, log in to a system on the same network as the Admin Portal server, and then complete the following steps:

1. Open a web browser (Intel recommends using Chrome* for this installation).
2. Browse to the Admin Portal (<https://<FDQN of Server>/intelunite/admin>).
3. Log in to the Admin Portal with an account that has permission to create and modify configurations.
4. Under Device Management menu click **CONFIGURATIONS**.
5. Click **Hub Configurations** to display a list of the hub configurations.
6. Identify the hub configuration that should have the Guest Access capability, and click **Edit**.
7. Click the **plus sign** next to Guest Access under Available Features/Apps, and verify that Guest Access appears under Selected Features/Apps.
8. Click **Save Changes**.
9. Confirm the client device is assigned to a hub group that has the hub configuration with Guest Access.

2.2.4 Download Guest Access to a Hub

After an approved application packaged is added to a hub configuration, the app can be downloaded to the client. To download Guest Access to a client, complete the following steps:

1. Close the Intel Unite® application for the hub, if it is running.
2. Open the Intel Unite® application for the hub.
3. Verify that the package is downloading on the hub.
4. Connect a client to the hub by entering the PIN displayed on the hub.
5. Confirm that the Guest Access icon is displayed on the left hand side.

2.2.5 Install the Guest Access Service

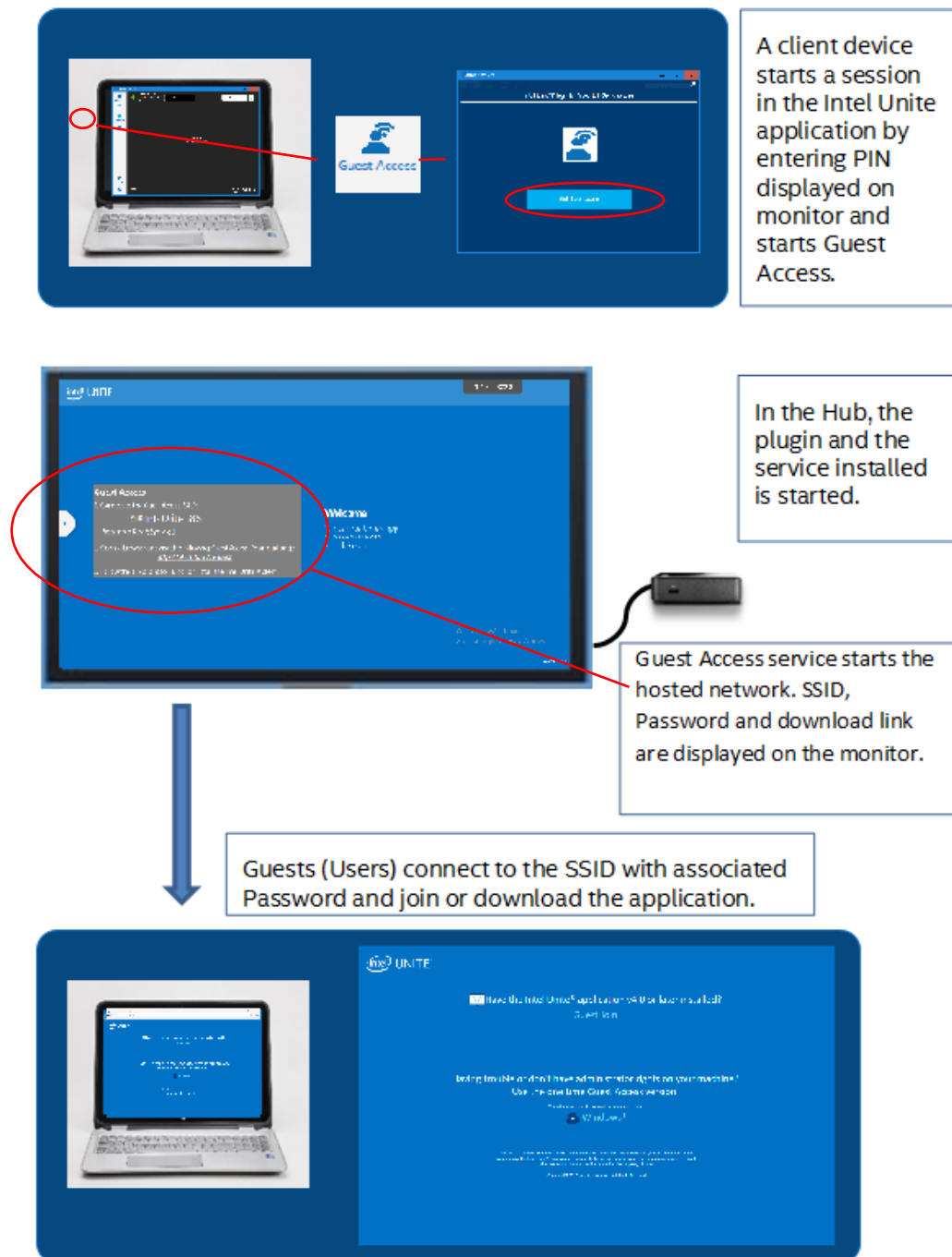
The Guest Access service needs to be installed on the hub which will be in charge of the creation and configuration of the ad-hoc/hosted network (access point).

1. Copy the **GuestAccessServiceInstaller.mui.msi** installer to the hub.
2. Run the the installer by double clicking on the installer icon.
3. Accept the end user license agreement by placing a check in the **I accept the terms in the License Agreement checkbox**.
4. Click **Next**.
5. Click **Install**.

3 Guest Access Flow

Figure 2 shows the Guest Access flow.

Figure 2. Guest Access Flow



A client device starts a session in the Intel Unite application by entering PIN displayed on monitor and starts Guest Access.

In the Hub, the plugin and the service installed is started.

Guest Access service starts the hosted network. SSID, Password and download link are displayed on the monitor.

Guests (Users) connect to the SSID with associated Password and join or download the application.

4 Enable Guest Access on a Client Device

To use the Intel Unite® solution, allowing presentation to a display that is connected to a hub, the client must be already connected to the hub in the room.

To enable Guest Access on a client device, complete the following steps:

4.1 Starting Guest Access

1. On the client that is providing guest access to a guest, connect to the Intel Unite® application using the PIN shown on the hub.
2. Once connected, click the **Guest Access** icon displayed in the window (refer to the following image).
3. The Guest Access window opens. Click **Start Guest Access** to enable local Wi-Fi access for the guest to join.
4. The hub display shows the Guest Access SSID “unique network name”, pre-shared key, and a Guest Access Download link, as shown in the following image.

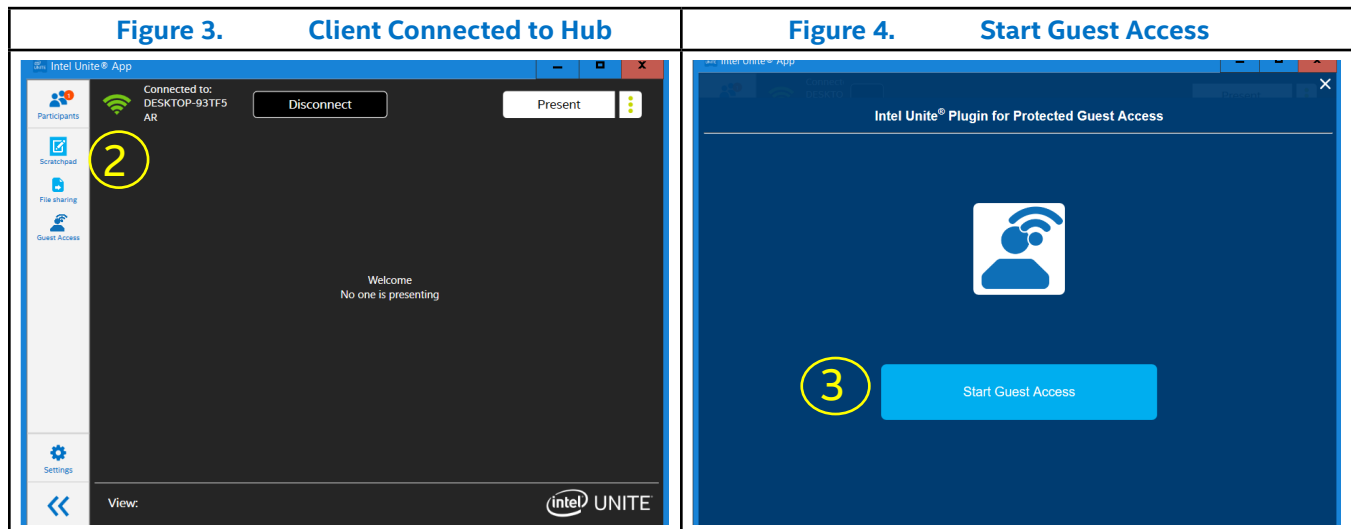
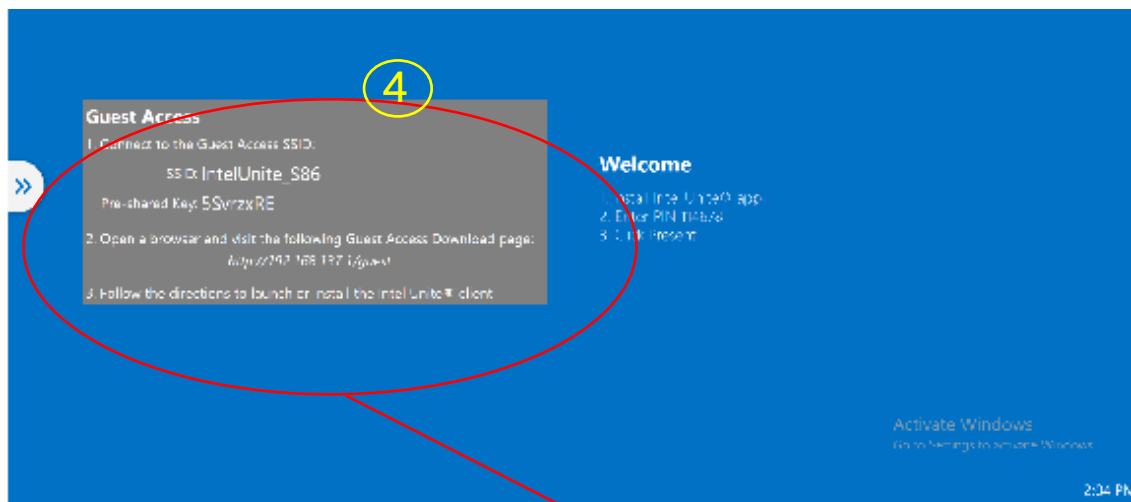


Figure 5. Guest Access SSID



Guest Access

1. Connect to the Guest Access SSID:

SSID: IntelUnite_S86

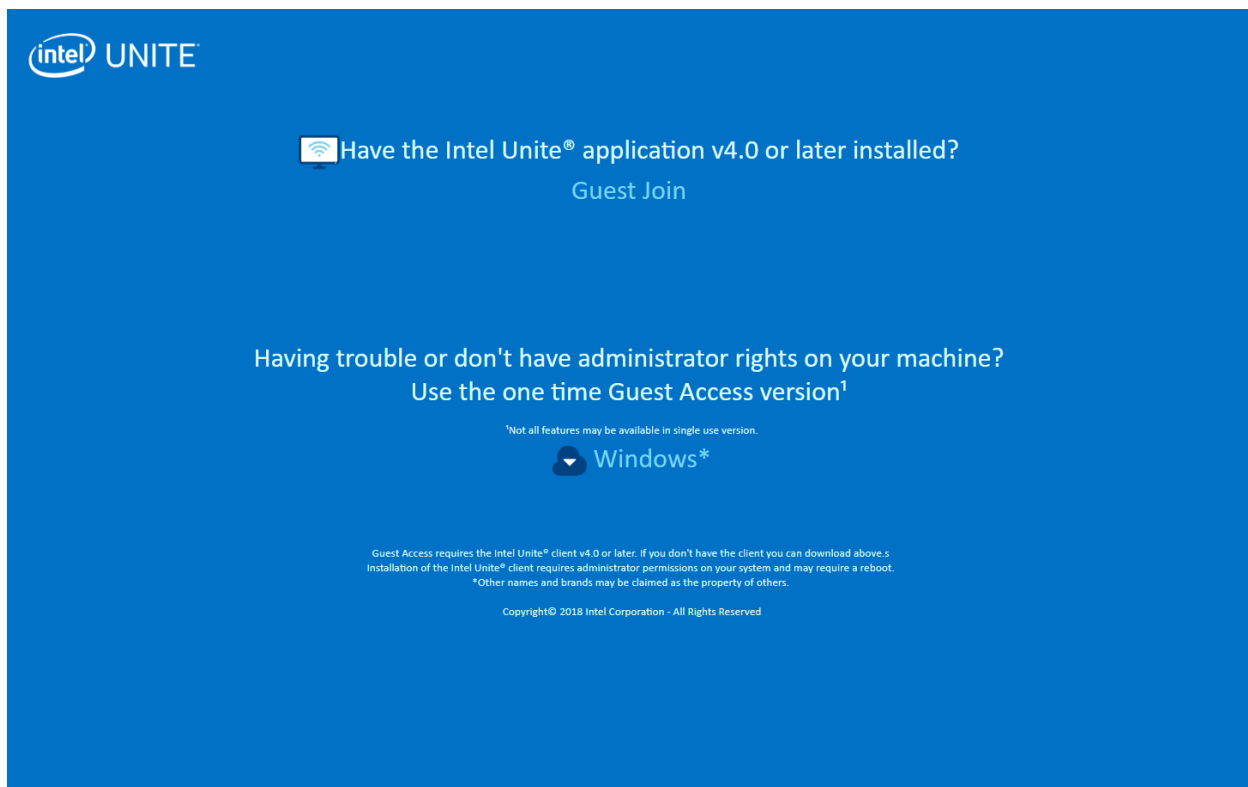
Pre-shared Key: 5SvrzxRE

2. Open a browser and visit the following Guest Access Download page:

4.2 Connecting Guest

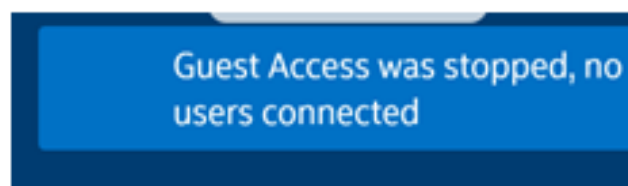
1. On the guest client device connecting through Guest Access (as a Session Guest), connect to the Guest Access SSID, select **Connect using a security key instead**, and enter the **Pre-shared Key** shown on the hub display.
2. In a browser (Intel recommends using Chrome*), go to the **Guest Access Download** link shown on the hub display, using the format **http://<hostIP>/guest**. The web page is displayed as shown in [Figure 6](#).

Figure 6. Guest Access Download Page



3. Click a join link according to the following three options:
 - **Have the Intel Unite® application v4.0 or later installed?** If the client device has the Intel Unite® application installed, click **Guest Join** to connect (requires minimum v4.0).
 - **Having trouble or don't have administrator rights on your machine?** Use the one time Guest Access version.
Note: Currently, this option is only available for Windows* OS.
 - **Don't have the Intel Unite® application installed, and don't have administrative rights to install apps?** In this situation, participants can use the one-time Guest Access version. With this option, the Intel Unite® app is opened for a one-time use, and is not installed on the client device. Run the executable once it is downloaded to the guest client,
4. On the guest client, enter the PIN displayed on the hub display to connect to the session.
5. When all users disconnect from the session, the client devices using Guest Access also disconnects. For a few seconds, the hub will display a toast message indicating no users are connected through Guest Access.

Figure 7. Guest Access Toast Message



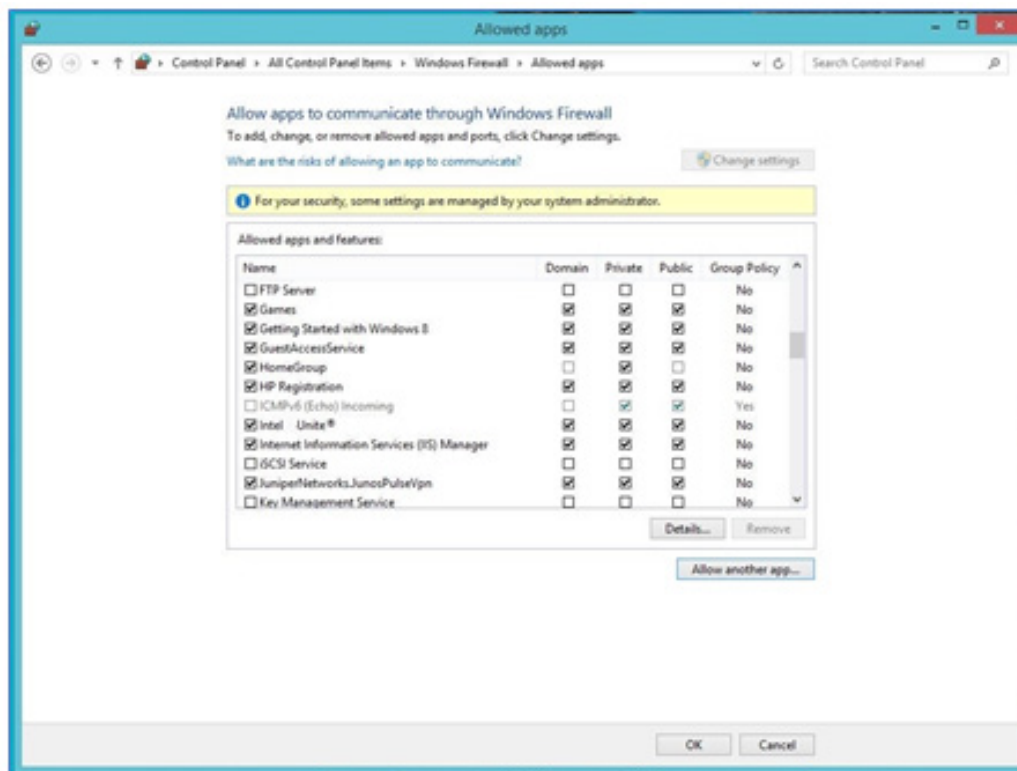
5 Firewall Exceptions

Verify and validate on the hub device that the Intel Unite® application and web server (HTTP) are added to the Allowed Apps list in the firewall settings.

When using Windows* Firewall, ensure the following options are checked, as shown in the image:

- Internet Information Services (IIS) Manager – Ensure **Public** is checked.
- Intel Unite® – Ensure **Domain, Private, and Public** are checked.

Figure 8. Firewall Exceptions



If using a non-Windows firewall, check the firewall settings to allow the Intel Unite® app and **HTTP (Port 80)**. If the vendor also blocks traffic on localhost, allow traffic to **GuestAccessService** on the localhost interface.



6 Troubleshooting

In addition to the following, consult the Windows* event log for additional information when troubleshooting.

Issue: Guest Access is not starting (or not showing up):

- Verify whether the organization's GPO (Group Policy Object) policies allow virtual hosted networks. For more information, consult with the organization's system administrator.
- Ensure the hub is connected to the organization's network through a wired connection.
- Ensure the configuration where Guest Access is added is assigned to the hub device
 - Log into the Admin Portal
 - Select **Hubs and Clients** from the **Device Management** menu
 - Click on the device name
 - Verify that the configuration name is correct.
- Ensure the hub has the latest Intel wireless driver.
- Ensure GuestAccessService is running under services before launching the hub application.



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