

AT-UWC Wireless LAN Controller

Software Version

Installation Guide

This Installation Guide is an introductory guide to help you start the software-based AT-UWC Wireless LAN Controller. It describes how to run the AT-UWC-Install program on a PC-based server or virtual machine, start and end a management session, and modify the settings on the AT-UWC Wireless LAN Controller.

This document contains the following topics:

- “Overview” on page 2
- “Preparing the Installation of the AT-UWC WLAN Controller” on page 3
- “Installing the AT-UWC WLAN Controller” on page 7
- “Preparing the Management Workstation” on page 10
- “Starting a Management Session” on page 11
- “Registering the License Key” on page 12
- “Changing the IP Address” on page 15
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- “Modifying the Settings” on page 22
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- “Using Online Help” on page 28
- “Ending a Management Session” on page 32

Overview

The AT-UWC Wireless LAN (WLAN) Controller is a software-based management tool that allows you to control Allied Telesis TQ series wireless access point devices. The AT-UWC-Install is a program that installs AT-UWC WLAN Controller onto a PC-based server or virtual machine.

To start the AT-UWC WLAN Controller, first, install the AT-UWC WLAN Controller onto a server. To activate the WLAN controller, register the license key through the web interface from a management workstation.

Installing the AT-UWC WLAN Controller

To install the AT-UWC WLAN Controller, follow the steps below:

1. Obtain the AT-UWC-Install zip file and create an installation DVD or CD.

See “Preparing the Installation of the AT-UWC WLAN Controller” on page 3.

2. Install the AT-UWC WLAN Controller from the installation DVD or CD onto a server.

See “Installing the AT-UWC WLAN Controller” on page 7.

3. Prepare the management workstation.

See “Preparing the Management Workstation” on page 10.

4. Start a management session from the management workstation.

“Starting a Management Session” on page 11.

5. Register the license key to activate the AT-UWC WLAN Controller.

See “Registering the License Key” on page 12.

Configuring the AT-UWC WLAN Controller

After you installed the AT-UWC-Install program and license key, you want to configure the AT-UWC WLAN Controller to meet your requirements.

To configure the AT-UWC WLAN Controller, see the following procedures:

- “Starting a Management Session” on page 11
- “Modifying the Settings” on page 22
- “Saving the Changes” on page 26
- “Using Online Help” on page 28
- “Ending a Management Session” on page 32

Preparing the Installation of the AT-UWC WLAN Controller

Before installing the AT-UWC WLAN Controller, you must obtain the AT-UWC-Install ISO file and create an AT-UWC-Install DVD or CD. An ISO file is an image file for a CD or DVD disc. To prepare installation, do the following:

1. "Downloading the AT-UWC-Install ISO File," next
2. "Creating the AT-UWC-Install DVD or CD" on page 6

Downloading the AT-UWC-Install ISO File

Allied Telesis provides the AT-UWC-Install ISO file from the Restricted Software Downloads website.

To download the AT-UWC-Install ISO file, do the following:

1. Open a web browser, such as Internet Explorer or FireFox, on your system and enter the following:

<http://www.alliedtelesis.com/support/software/restricted>

The browser prompts you to enter a user name and password as shown in Figure 1.

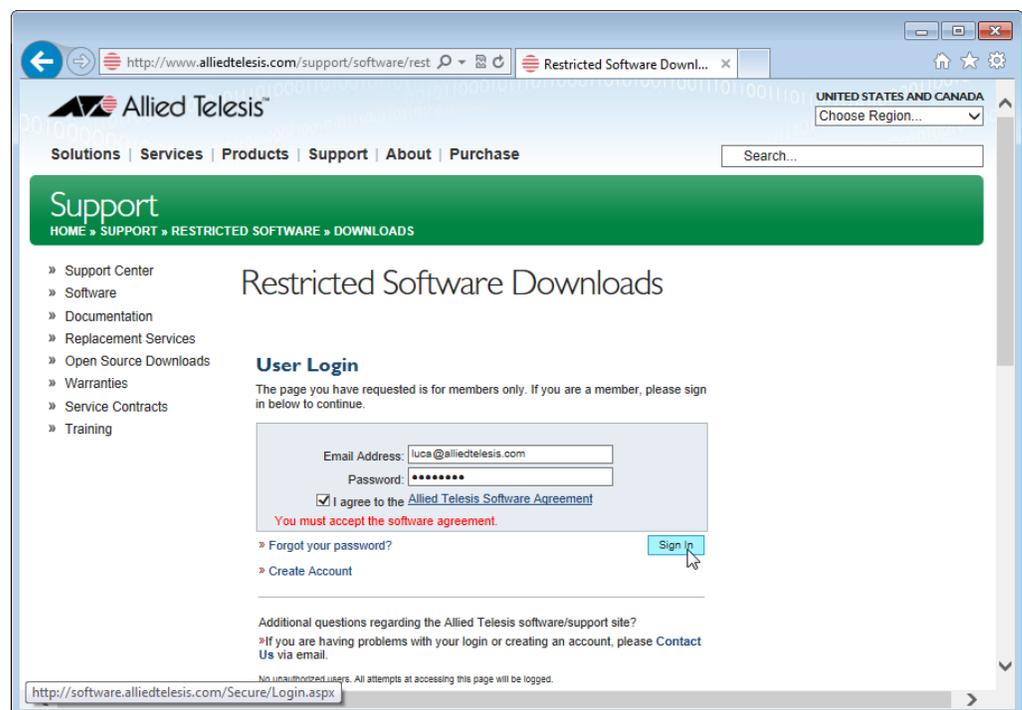


Figure 1. Restricted Software Downloads Login Page

2. Enter your email address and password.

If you do not have an account, create one. Click **Create Account** and follow the instructions.

3. Read the Allied Telesis Software Agreement.

If you agree, check the checkbox and press **Sign in**.

An example of the Restricted Software Downloads Welcome page is displayed as shown in Figure 2.

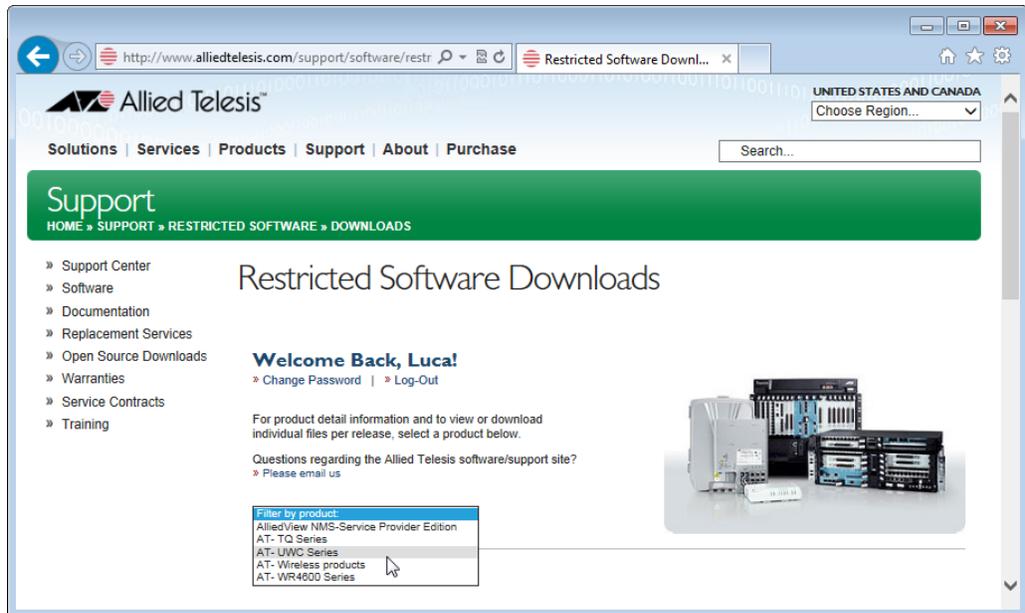


Figure 2. Restricted Software Downloads Welcome Page

4. Select **AT-UWC Series** from the select box.

The AT-UWC page is displayed as shown in Figure 3 on page 5.

The screenshot shows a web browser window displaying the Allied Telesis website. The browser's address bar shows the URL <http://www.alliedtelesis.com/support/software/restr>. The page header includes the Allied Telesis logo, navigation links for Solutions, Services, Products, Support, About, and Purchase, and a search bar. A green banner below the header reads "Support" with a breadcrumb trail: HOME » SUPPORT » RESTRICTED SOFTWARE » DOWNLOADS. On the left, a sidebar lists various support resources. The main content area is titled "Restricted Software Downloads" and features a personalized greeting: "Welcome Back, Luca!" with links for "Change Password" and "Log-Out". Below this, there is a section for "AT-UWC Series" with a dropdown menu currently set to "AT-UWC Series". Two software releases are listed:

- AT-UWC v2.0.1.B01**
RELEASE DATE: 1 Oct 2013
Software for AT-UWC series (GA type). Customers are encouraged to review the release notes for any updates or improvements that could apply to their deployment.
Links: [Download Entire Release \(11MB\)](#), [View/download individual files in this release](#)
- AT-UWC-Install v2.0.1.B01**
RELEASE DATE: 1 Oct 2013
Software installation program for AT-UWC. Note, the utility includes the main application AT-UWC-2.0.1.B01.
Links: [Download Entire Release \(493MB\)](#), [View/download individual files in this release](#)

An image of network hardware is visible on the right side of the page.

Figure 3. Restricted Software Downloads AT-UWC Page

5. Click **View/download individual files in this release** under the AT-UWC-Install v2.0.1.B01 section.

The available AT-UWC files are listed as shown in Figure 4 on page 6.

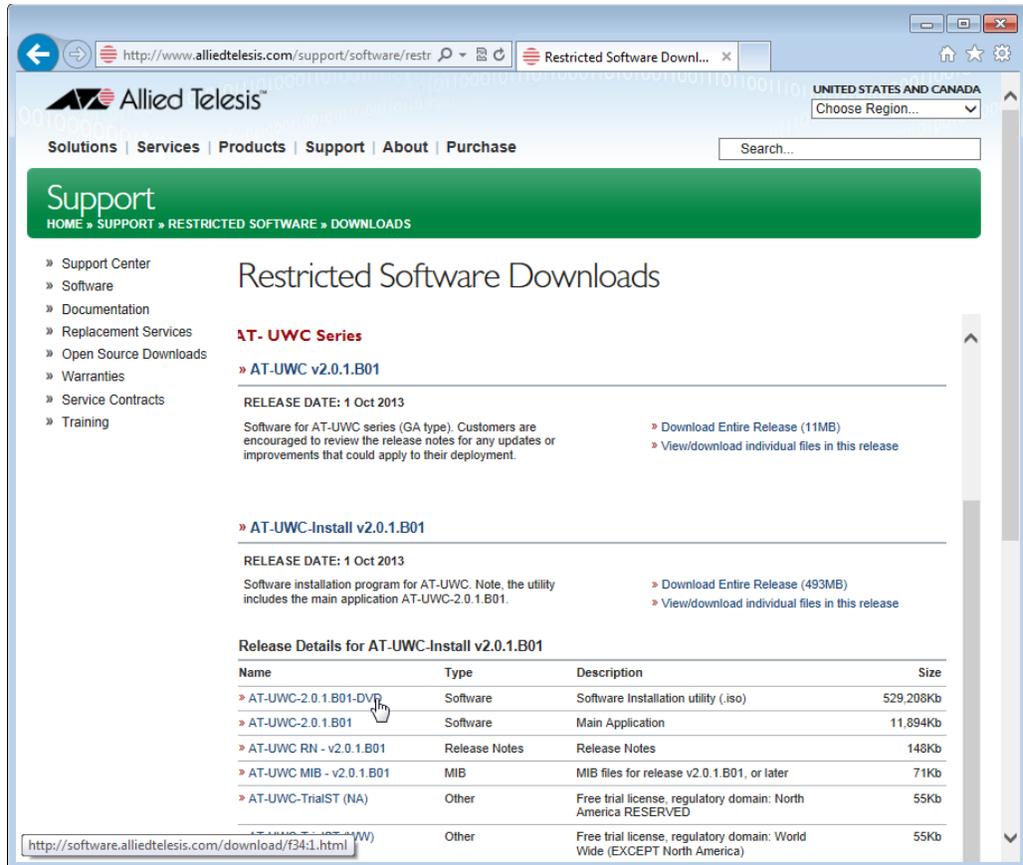


Figure 4. Restricted Software Downloads AT-UWC Page

6. Select **AT-UWC-2.0.1.B01-DVD** from the list and save it onto your system.

Creating the AT-UWC-Install DVD or CD

To create an AT-UWC-Install DVD or CD, you must burn or write the ISO image to a DVD or CD. Ensure that you have a program to burn or write an ISO file to a DVD or CD disc on your system.

The steps to burn or write a DVD or CD depend upon the program. Refer to the instructions for your particular program.

Installing the AT-UWC WLAN Controller

To install AT-UWC WLAN Controller onto a server, you must boot the server from the DVD or CD that the AT-UWC-Install ISO image is written to.

You can install the AT-UWC WLAN Controller onto a PC-based server or a virtual machine.

Requirements for a PC-based Server

To install the AT-UWC WLAN Controller onto a PC-based server, the PC must meet the following requirements:

- ❑ 3.10 GHz or faster x86 processor
- ❑ 1 Gigabyte or larger RAM (4 Gigabyte is recommended)
- ❑ 80 Gigabyte or larger Hard Disk
- ❑ DVD ROM
- ❑ Gigabit Ethernet Network Interface Card compatible with the IEEE 802.1q standard
- ❑ Monitor
- ❑ Keyboard

Supported Virtual Machine Platforms

The following list shows the supported virtual machine platforms:

- ❑ VMware vSphere (v5.1)
- ❑ Microsoft Windows Server 2008 R2 (Hyper-V 2.0)
- ❑ Microsoft Windows 8 (Hyper-V 2.0)

Note

The procedures for installing the AT-UWC WLAN Controller onto a virtual machine vary depending upon your virtual machine settings. Refer to “Installing the AT-UWC WLAN Controller onto a PC,” next.

Installing the AT-UWC WLAN Controller onto a PC

To install the AT-UWC WLAN Controller onto a PC, do the following:

1. Connect a monitor and keyboard to a PC.
2. Power on the PC and monitor.



Caution

When you boot a PC-based server with the DVD or CD, the installation program deletes all the data in the HDD.

3. Insert the AT-UWC-Install DVD or CD in the DVD driver on the PC.

The Allied Telesis Unified Wireless Controller installation program screen is displayed as shown in Figure 5.



Figure 5. Allied Telesis Unified Wireless Controller installation Screen

4. Press the Enter key.

The installation program starts to install the AT-UWC application, including an operating system called CentOS. It may take five or six minutes.

When the installation is complete, the screen appears as shown in Figure 6. The DVD tray may eject automatically.

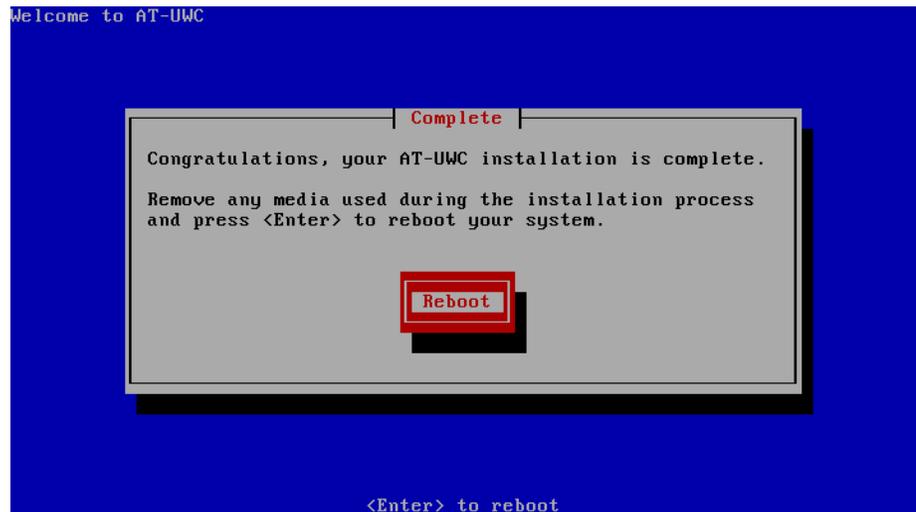


Figure 6. Allied Telesis Unified Wireless Controller installation Complete

5. Remove the DVD from the tray.

Meanwhile, the server reboots and starts the AT-UWC WLAN Controller.

Preparing the Management Workstation

To register the license key or configure the AT-UWC WLAN Controller, you must have a management workstation to access the AT-UWC WLAN Controller.

The management workstation is a computer that you use to manage the AT-UWC WLAN Controller. The management workstation must be connected to the network that the AT-UWC WLAN Controller server belongs to. See an example shown in Figure 7.

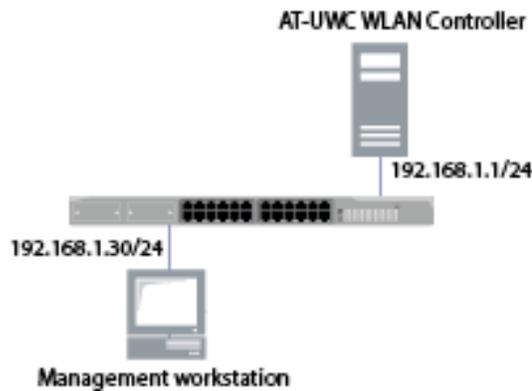


Figure 7. AT-UWC WLAN Controller and Management Workstation

The AT-UWC WLAN Controller server has the following default IP address and subnet mask assigned:

192.168.1.1/255.255.255.0

For the first time you access the AT-UWC WLAN Controller server, your management workstation must have an IP address in the following range:

192.168.1.2 to 192.168.1.254

Note

To change the IP address of the management workstation, see “Changing the IP Address” on page 15.

The management workstation must have the following applications:

- ❑ Windows Internet Explorer 7 or 8 with Java Plug-in
- ❑ Oracle Java Runtime Environment Version 6
- ❑ JavaScript

Note

To enable JavaScript, see “Enabling JavaScript” on page 19.

Starting a Management Session

The AT-UWC WLAN Controller is managed from the management workstation through the web interface.

To start a management session of the AT-UWC WLAN Controller, do the following:

1. Login to the management workstation.

If you do not have a management workstation, see “Preparing the Management Workstation” on page 10.

2. Open Internet Explorer 7 or 8, and enter the IP address of the AT-UWC WLAN Controller server.

The default IP address is 192.168.1.1.

3. Enter the user name and password. See Figure 8.

The following are the default settings:

- User name: manager
- Password: friend

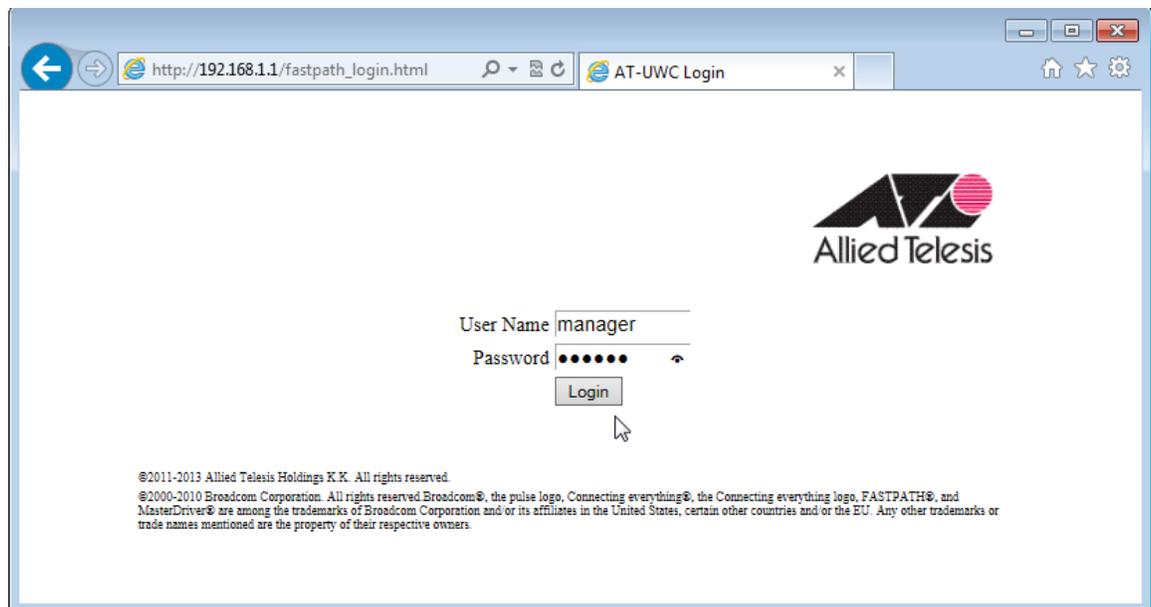


Figure 8. AT-UWC WLAN Controller Login Screen

4. Press **Login**.

Registering the License Key

Registering the license key activates the AT-UWC WLAN Controller. For the first time you login to the AT-UWC WLAN Controller, you must register the license key.

License Key

The license key is formed with the following two information:

- A serial number
- An authentication key

When you purchase the AT-UWC WLAN Controller software, you obtain a license key that allows you to control 10 access point devices. To control more access point devices, you can purchase additional license key.

30-day Free Trial License

Allied Telesis offers a 30-day free trial for new users. Two types of free trial license keys are available:

- AT-UWC-TrialST (NA): for users in North America
- AT-UWC-TrialST (WW): for users worldwide except North America

You can download a free trial license from Allied Telesis Restricted Software Downloads website. To obtain a free trial license, see “Downloading the AT-UWC-Install ISO File” on page 3 and follow the instructions. On step 6, save AT-UWC-TrialST_(NA).pdf or AT-UWC-TrialST_(WW).pdf.

Registering the License Key

To register the license key, do the following:

1. Start a management session.

See “Starting a Management Session” on page 11.
2. From the **Navigation** panel on the left, go to **System > License > License**.

The License screen is displayed as shown in Figure 9 on page 13.

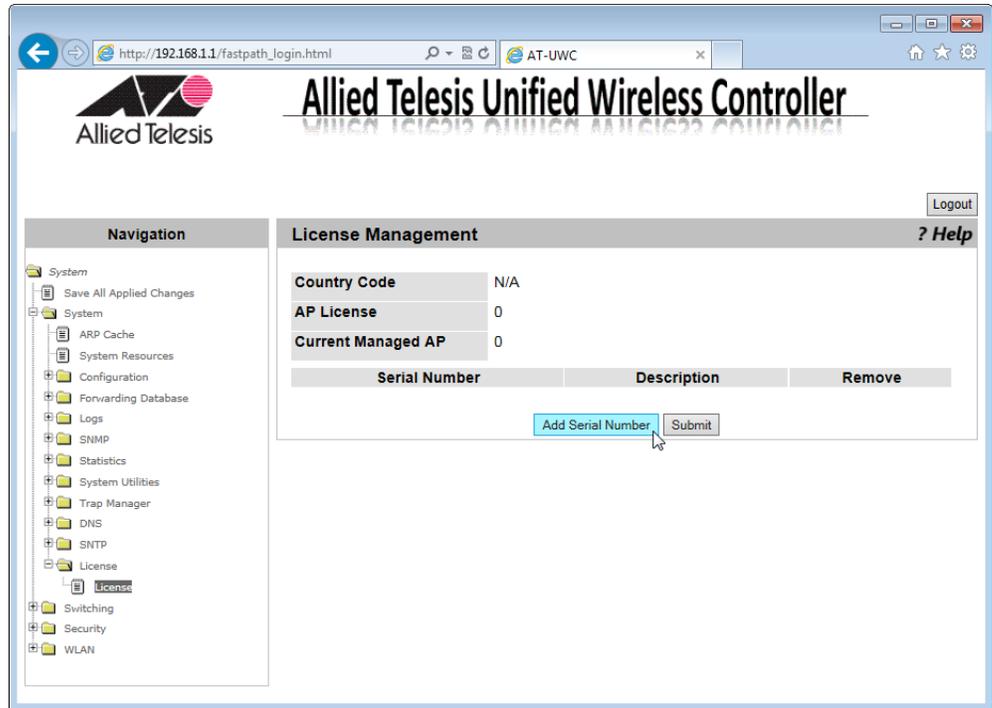


Figure 9. AT-UWC WLAN Controller License Screen

3. Press **Add Serial Number**.

The Add Serial Number screen is displayed as shown in Figure 10.

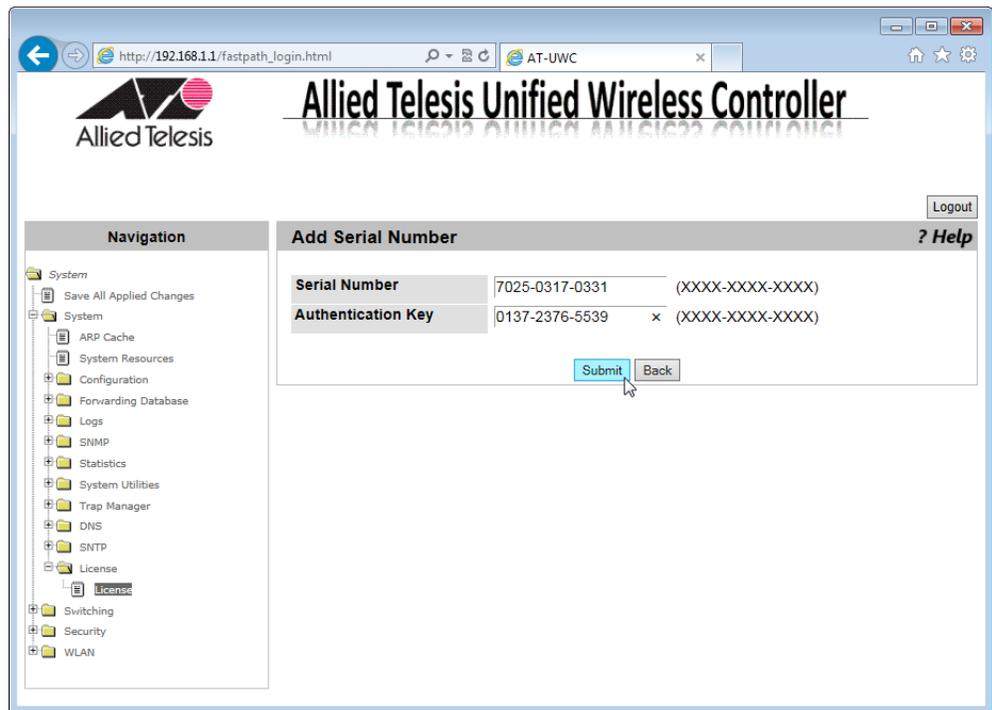


Figure 10. AT-UWC WLAN Controller Serial Number Screen

4. Enter your serial number and authentication key.
5. Press **Submit**.
6. From the **Navigation** panel on the left, go to **System Utilities > System Reset**.
7. Click **Reset**.

The AT-UWC WLAN Controller server reboots.

Note

To reboot the AT-UWC WLAN Controller from a PC-based server, press Ctrl+Alt+Delete keys from the keyboard of the server.

8. From the **Navigation** panel on the left, go to **System > License > License**.

The license Management screen appears as shown in Figure 11.

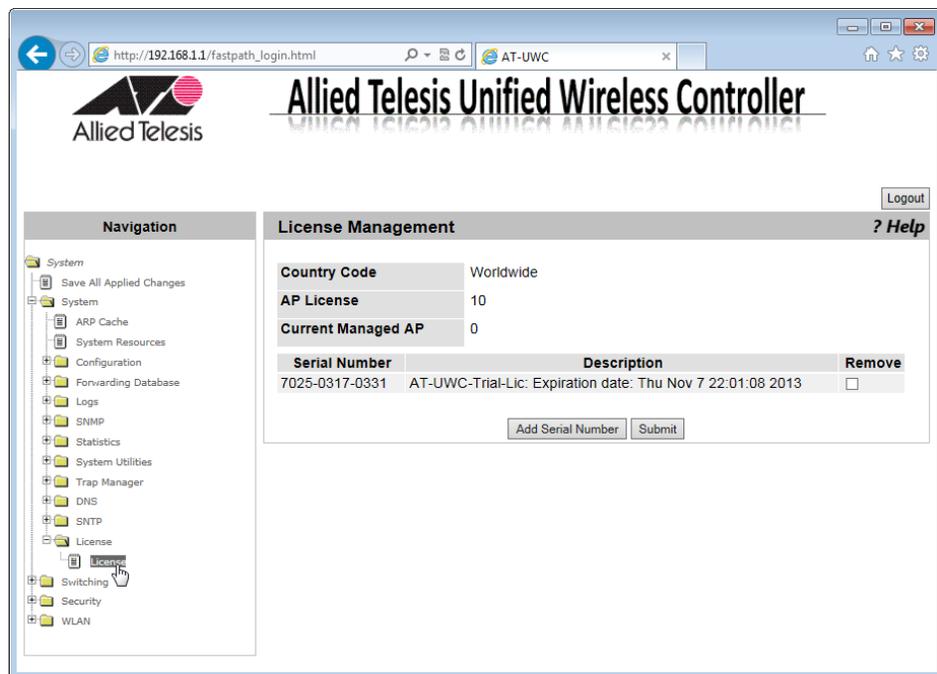


Figure 11. AT-UWC WLAN Controller License Management Screen

9. Confirm that the license key is properly registered.
10. If you want to add another license key, repeat steps 2 to 5.

Note

When you add another license key, you do not need to reboot the AT-UWC WLAN Controller server.

Changing the IP Address

When you access the AT-UWC WLAN Controller from the management workstation, it must have an IP address from the same network as the AT-UWC WLAN Controller server.

The procedures for changing the IP address is slightly different among Windows Operating Systems. The following is the procedures using Windows 7 as an example.

To change the IP address of a PC installed on Windows 7, do the following:

1. Click **Control Panel** from the **Start** button.

The control panel appears as shown in Figure 12.

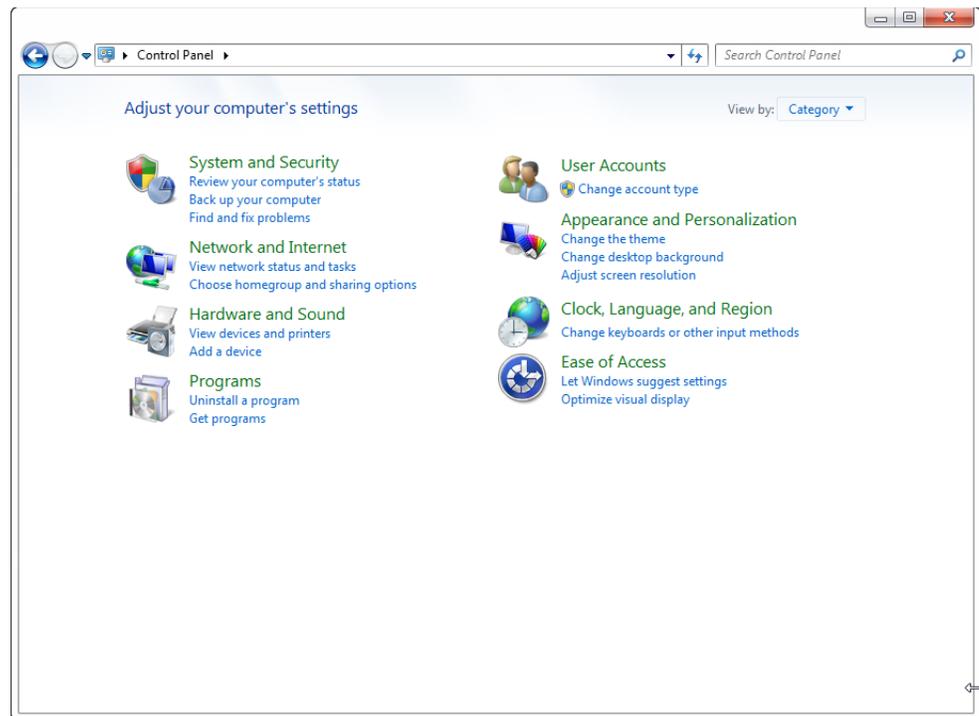


Figure 12. Control Panel

2. Click **Category** at the upper right corner of the window and select **Large icons**.

Control Panel displays items with large icons as shown in Figure 13 on page 16.

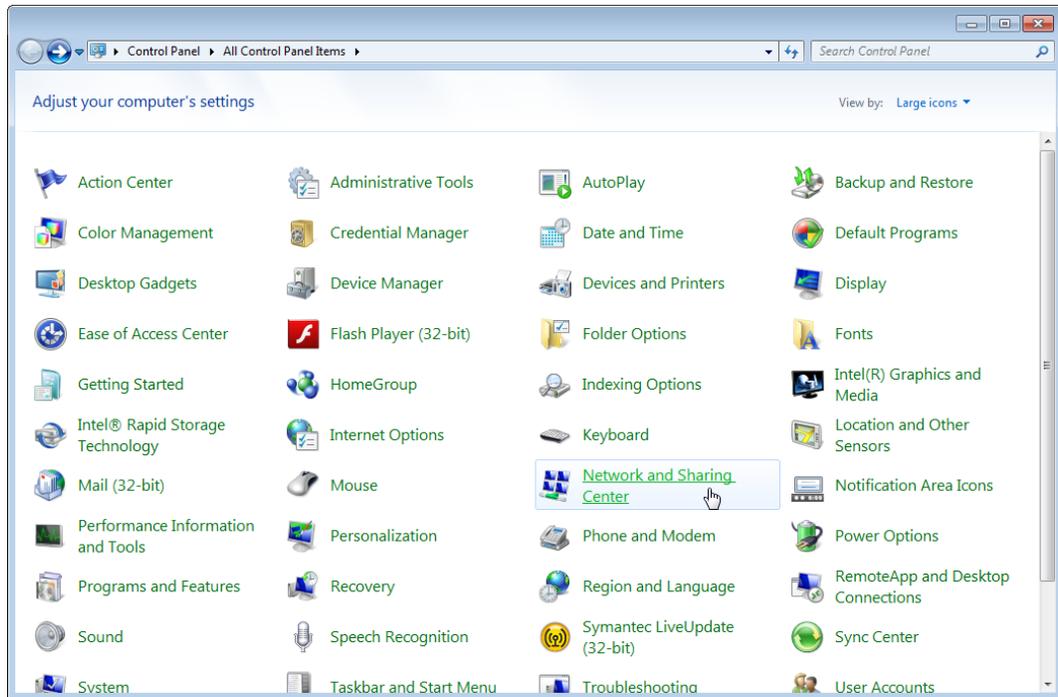


Figure 13. Control Panel with Large Icons

3. Click **Network and Sharing Center**.

The Basic Network Information window appears as shown in Figure 14.

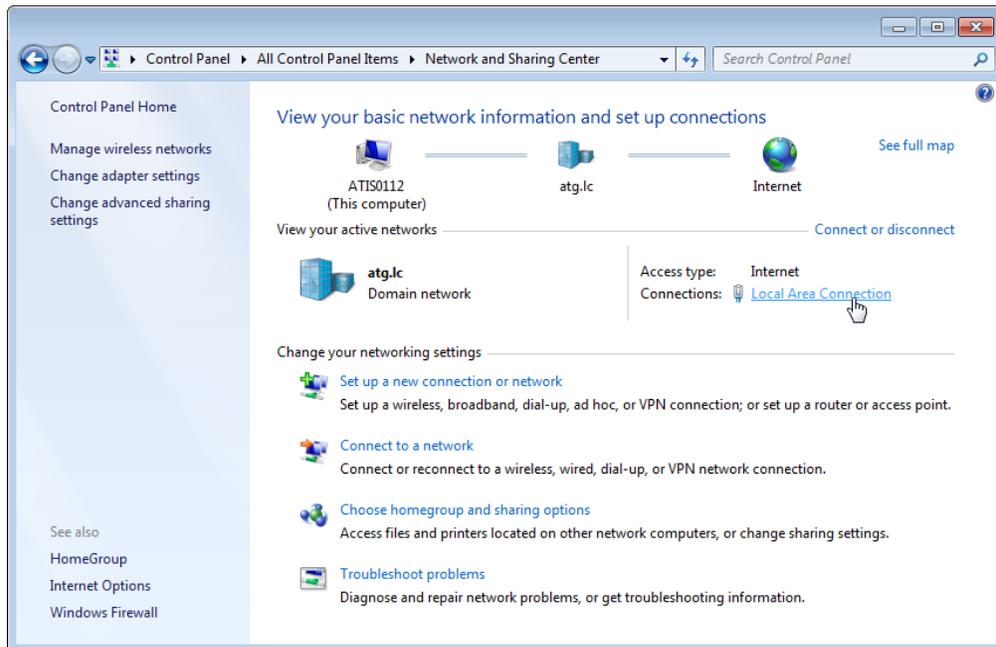


Figure 14. Network Information Window

4. Click **Local Area Connection**.

The Local Area Connection Status window appears as shown in Figure 15.

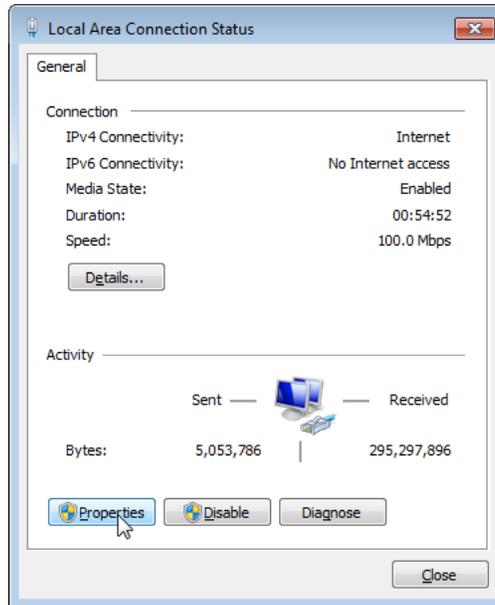


Figure 15. Local Area Connection Status Window

5. Click the **Properties** button at the bottom.

The Local Area Connection Properties window appears as shown in Figure 16.

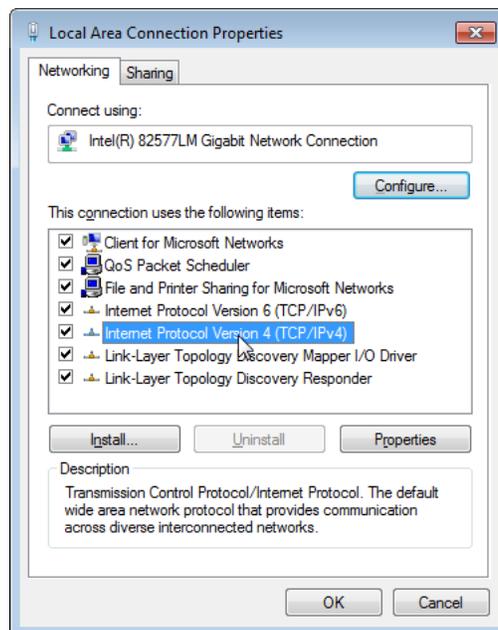


Figure 16. Local Area Connection Properties Window

6. Double-click **Internet Protocol Version 4 (TCP/IPv4)**.

The Internet Protocol Version 4 (IPv4) Properties window appears as shown in Figure 17.

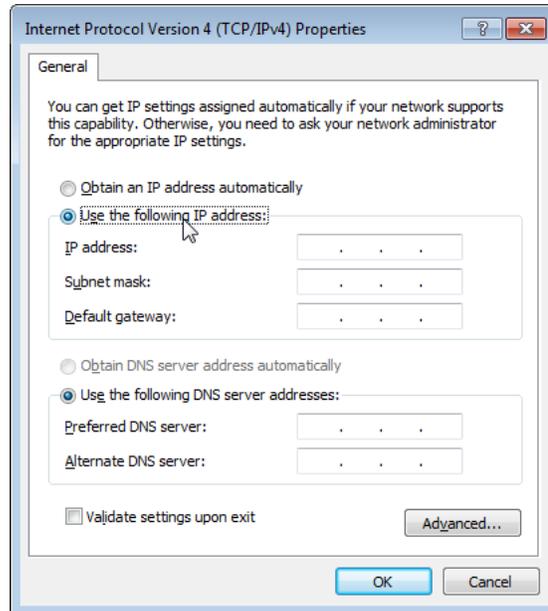


Figure 17. IPv4 Properties Window

7. Enter the IP address and Subnet mask. See Figure 18.

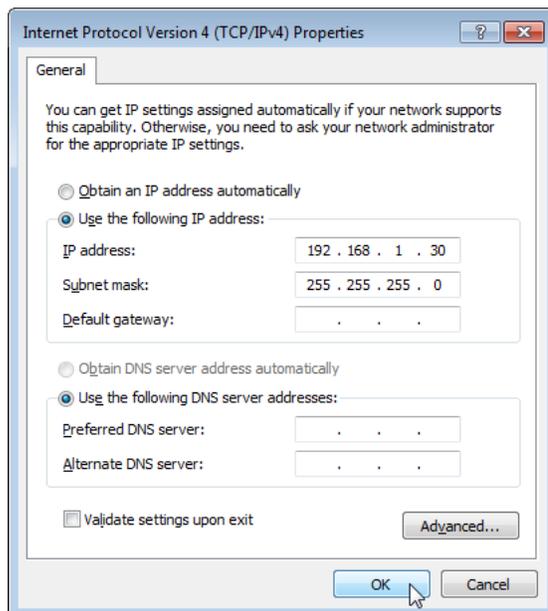


Figure 18. IPv4 Properties Window Example

8. Click **OK**.

Enabling JavaScript

To access the AT-UWC WLAN Controller, you must enable JavaScript for your Windows Internet Explorer. You can enable JavaScript only when accessing the AT-UWC WLAN Controller.

Note

When JavaScript is already enabled, you do not have to change the setting.

To enable JavaScript only for the AT-UWC WLAN Controller, do the following:

1. Open the Windows Internet Explorer.
2. Click **Tools** from the menu bar.
3. Select **Internet options** from the drop-down menu.

The Internet Options window pops up.

4. Click the **Security** tab on the Internet Options window.

The Internet Options window appears as shown in Figure 19.

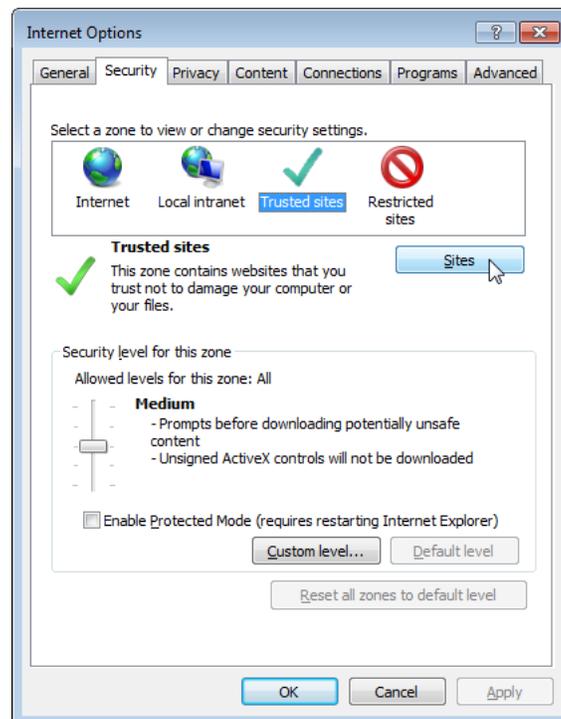


Figure 19. Internet Options Window Security Tab

5. Select the **Trusted sites** icon in the box and press the **Sites** button.

The Trusted sites window appears as shown in Figure 20.

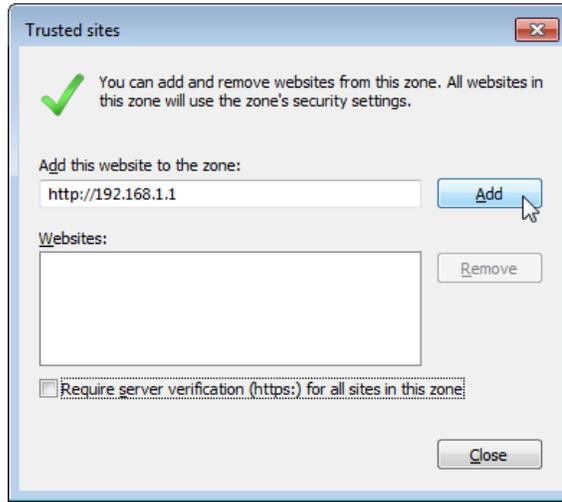


Figure 20. Trusted Sites Window

6. Enter the IP address of the AT-UWC WLAN Controller server and check the checkbox of “Require server verification (https:) for all sites in this zone.”

Note

By the default, the IP address of the AT-UWC WLAN Controller server 192 . 168 . 1 . 1.

7. Click Add.

The Security Settings Internet Zone window appears as shown in Figure 21 on page 21.

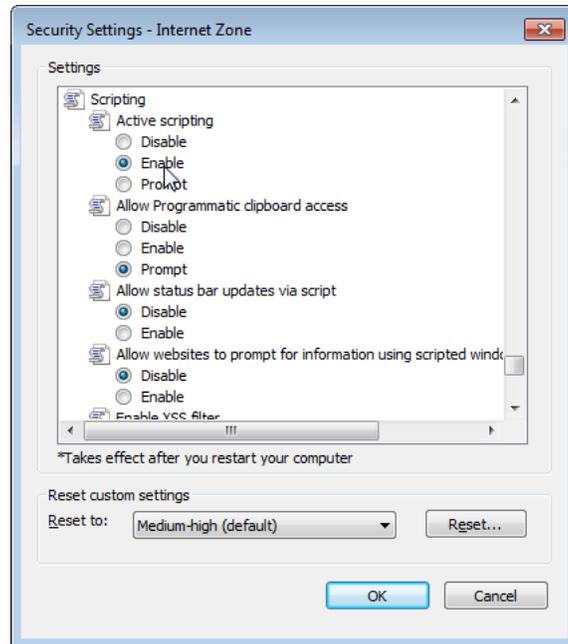


Figure 21. Security Settings Window

8. Change the setting of Active scripting to **Enable**.
9. Click **OK**.
10. Restart the Internet Explorer.

JavaScript is enabled only when you access the AT-UWC WLAN Controller.

Modifying the Settings

The AT-UWC WLAN Controller allows you to modify the settings on the AT-UWC WLAN Controller to meet your requirements. This section shows how to modify and save the setting of the default gateway as an example and view the AP Profiles page to see tabs and sub-tabs.

Note

When you press the Submit button, your changes are stored in the running configuration. The settings in the running configuration are deleted when the AT-UWC WLAN Controller reboots. If you want to keep your changes, see “Saving the Changes” on page 26.

To assign a default gateway, do the following:

1. Start a management session. See “Starting a Management Session” on page 11.
2. Click the + icon next to the Configuration folder.

The folder expands as shown in Figure 22.

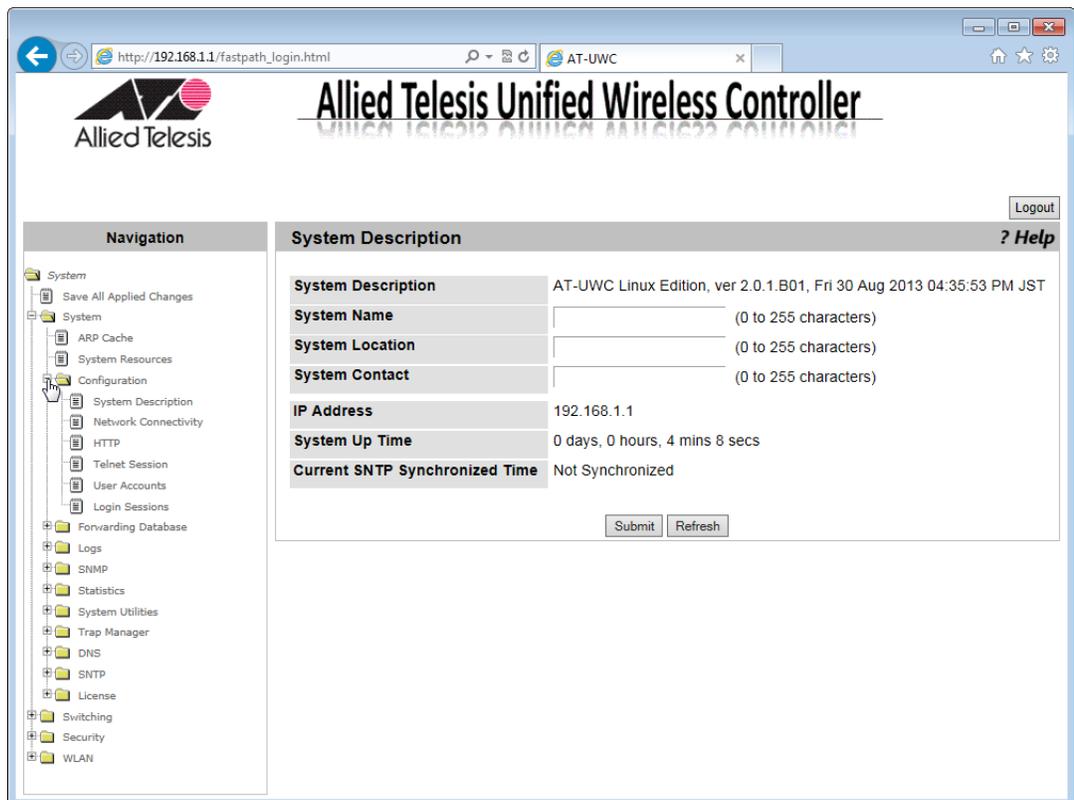


Figure 22. AT-UWC WLAN Controller Screen

3. Click the **Network Connectivity** item on the expanded list.

The Network Connectivity Configuration screen is displayed as shown in Figure 23.

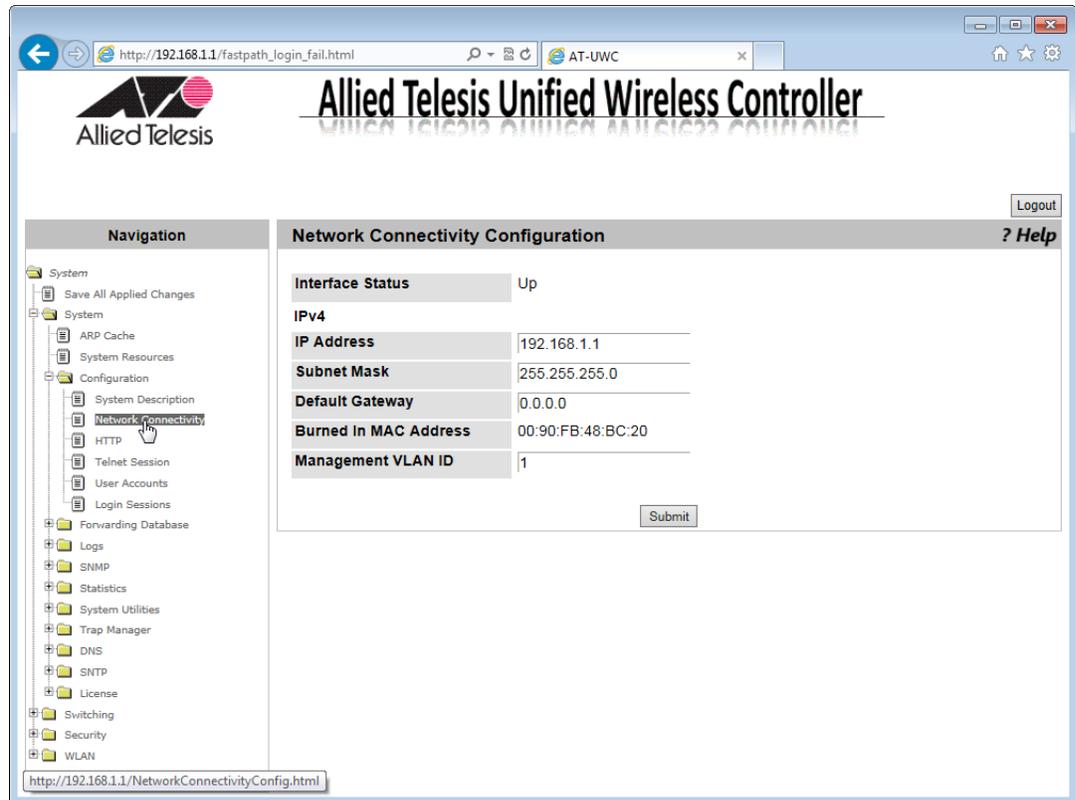


Figure 23. AT-UWC WLAN Controller Network Connectivity Screen

4. Enter a default gateway address.

When you change the setting, the message, "System has unsaved changes" appears under the Allied Telesis logo on the screen as shown in Figure 24 on page 24.

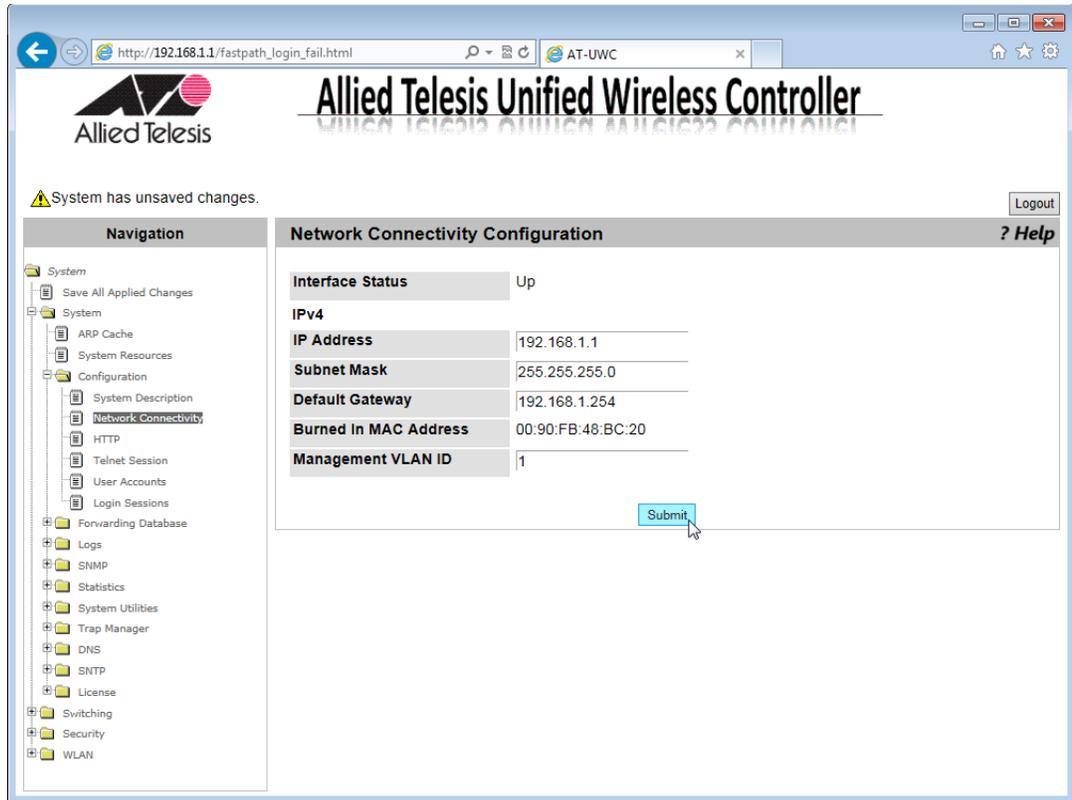


Figure 24. AT-UWC WLAN Controller Network Connectivity Configuration

5. Click **Submit**.

The change is saved in the running configuration.

Note

The change is applied immediately; however, you lose the change when the server reboots. To save your changes to the startup configuration, See “Saving the Changes” on page 26.

To view a page with multiple tabs and sub-tabs, do the following:

1. Click the **+** icon next to the **WLAN** folder.

The folder expands and list items inside the folder.

2. Click the **+** icon next to the **Advanced Configuration** folder.
3. Select the **AP Profiles** item on the expanded list.

AP profile names are listed.

4. Select one of the AP profile names on the list.
5. Click the **VAP** sub-tab under the **Default** tab.

The Access Point Profile VAP Configuration screen is displayed as shown in Figure 25.

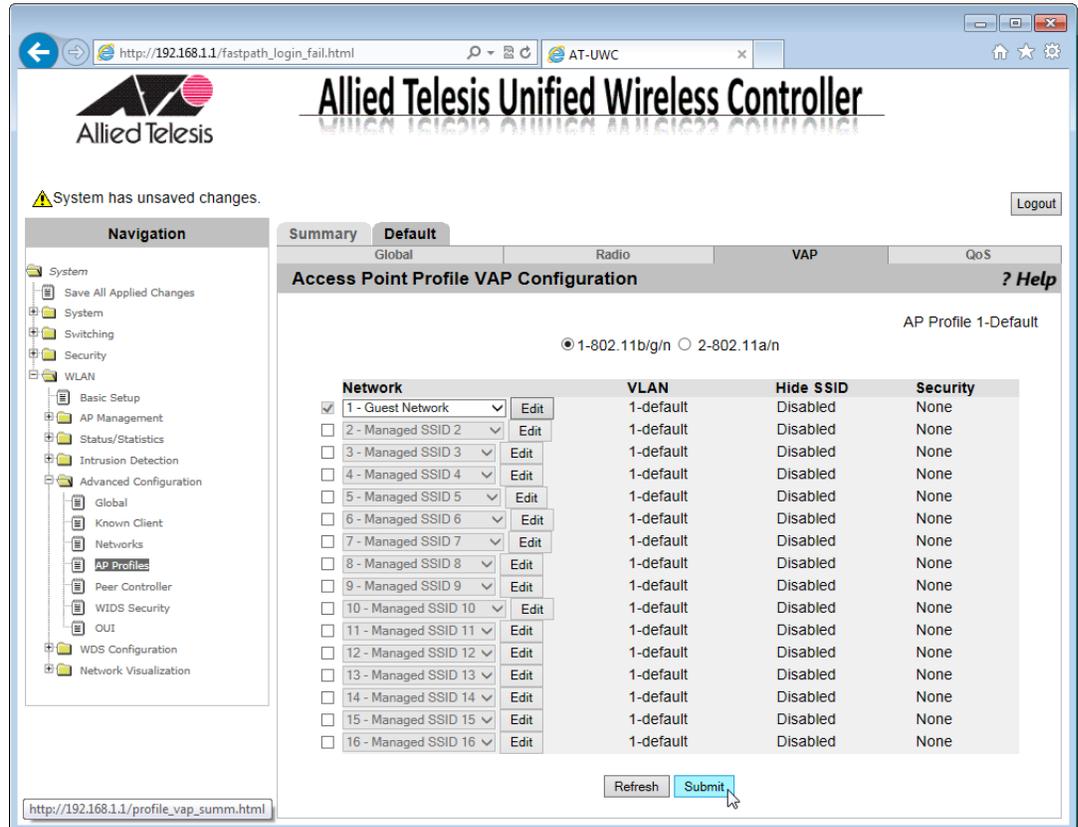


Figure 25. AT-UWC WLAN Controller AP Profile Screen

This screen has multiple tabs, such as Summary and Default. Each tab has multiple sub-tabs. You must press the **Submit** button to save your changes to the running configuration before you go to another page using a tab or sub-tab.

Note

If you do not press the Submit button before moving to another page, you lose the changes that you just made.

Saving the Changes

When you change settings of the AT-UWC WLAN Controller and click the Submit button on each page, the changes are stored in the running configuration. The settings in the running configuration are deleted when the AT-UWC WLAN Controller reboots. You must save the changes to the startup configuration if you want to keep the changes after the AT-UWC WLAN Controller reboots.

To save the changes to the startup configuration, do the following:

1. Start a management session. See “Starting a Management Session” on page 11.

The Allied Telesis Unified Wireless Controller starts as shown in Figure 26.

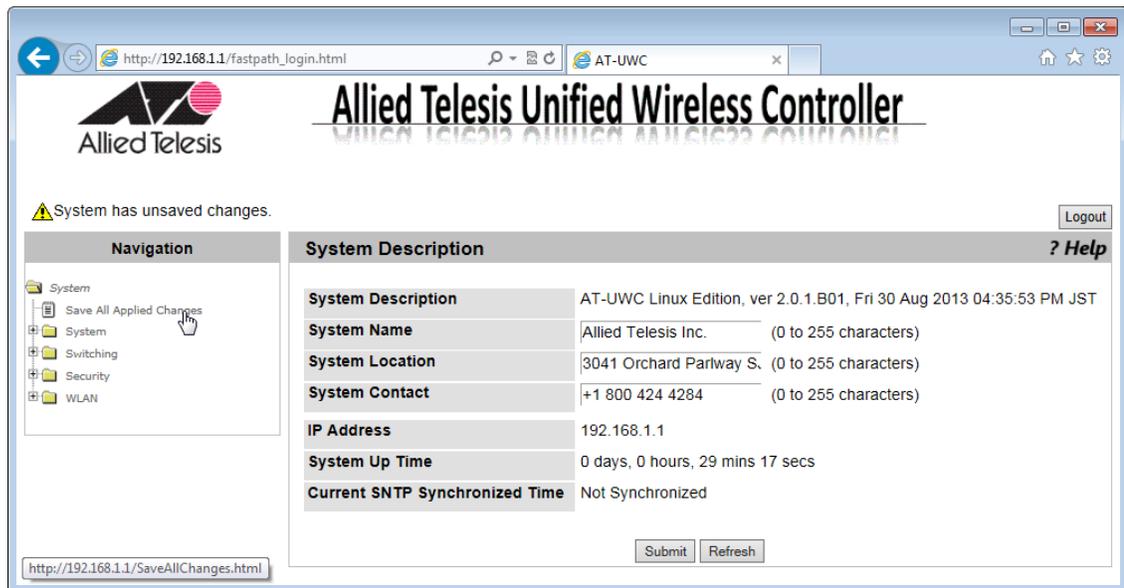


Figure 26. AT-UWC WLAN Controller Screen

2. From the **Navigation** panel on the left, go to **System > Save All Applied Changes**.

The Save All Applied Changes screen is displayed as shown in Figure 27 on page 27.

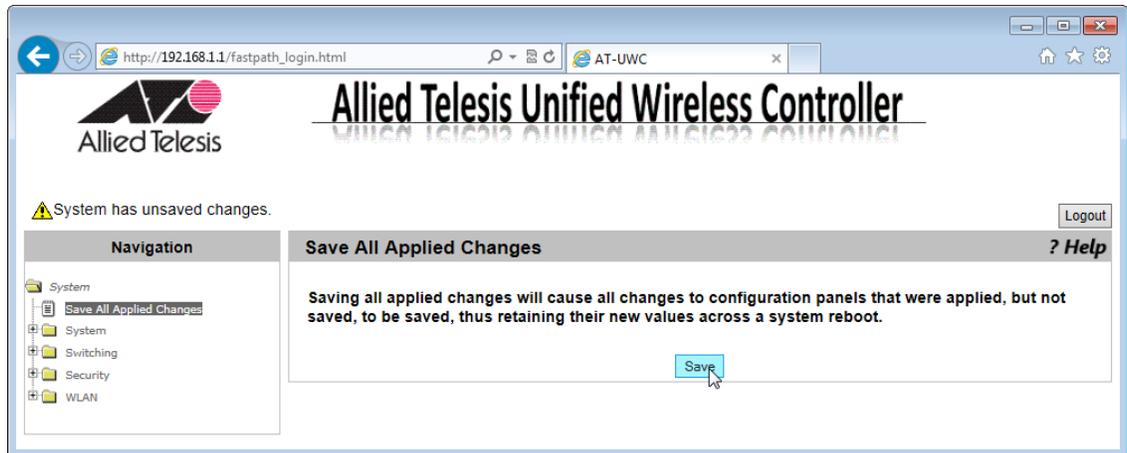


Figure 27. AT-UWC WLAN Controller Save Changes Screen

3. Click **Save**.

The Confirmation window appears as shown in Figure 28.

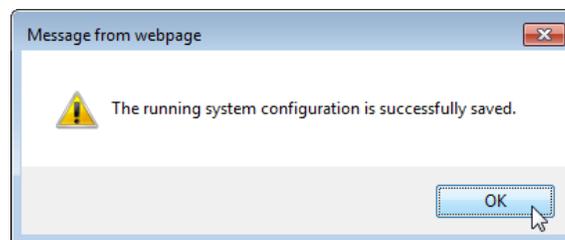


Figure 28. Confirmation Window

The changes are saved to the startup configuration.

Using Online Help

When you have a question about the AT-UWC WLAN Controller, the Online Help can be a good place to look for your answer.

To access the Online Help, do the following:

1. Start a management session. See “Starting a Management Session” on page 11.

The Allied Telesis Unified Wireless Controller screen is displayed as shown in Figure 29.

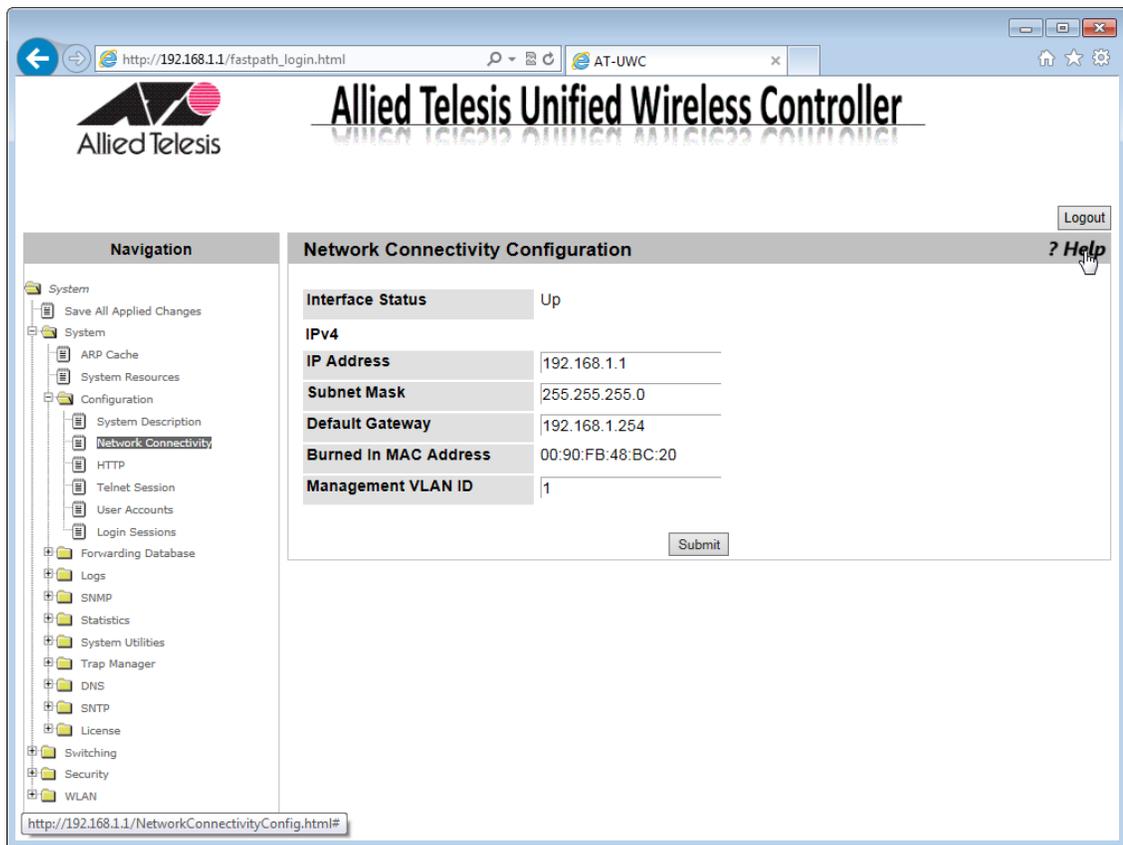


Figure 29. AT-UWC WLAN Controller Screen

2. Click **?Help**.

The Online Help is displayed shown in Figure 30 on page 29.

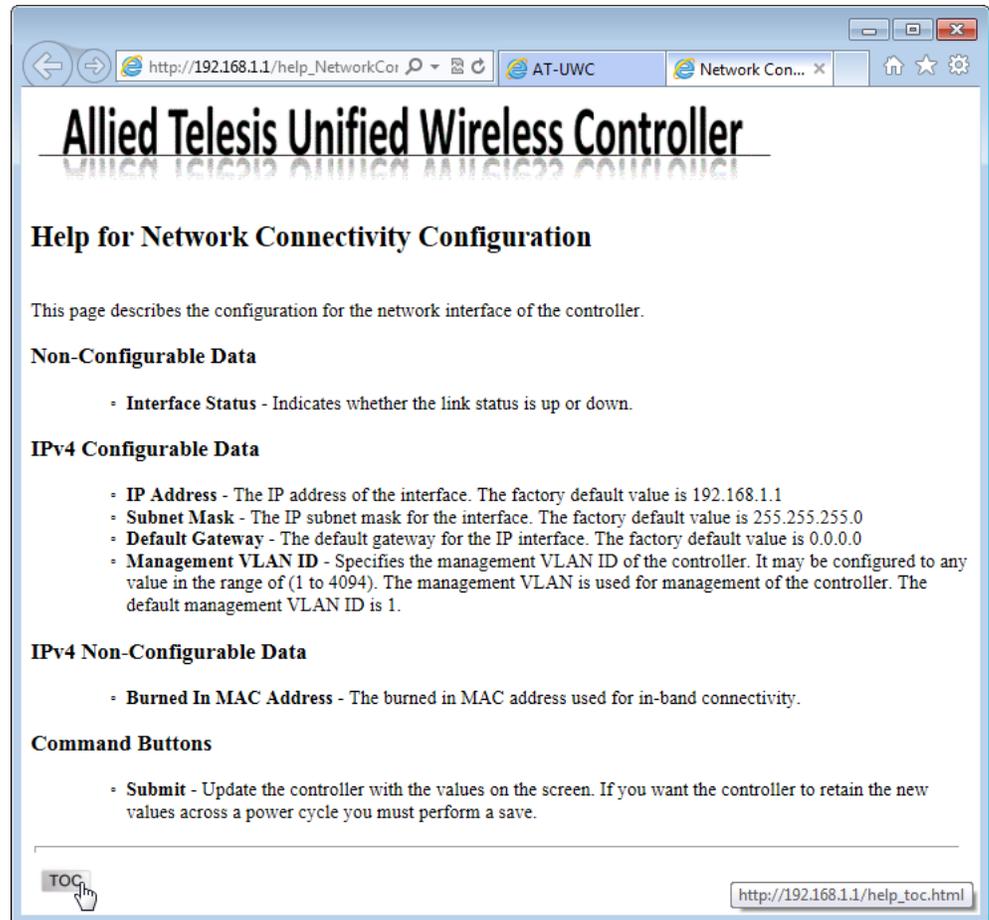


Figure 30. AT-UWC WLAN Controller Online Help

- Click the **TOC** button at the lower left corner of the screen.

The Online Help Table of Contents is displayed shown in Figure 31 on page 30.

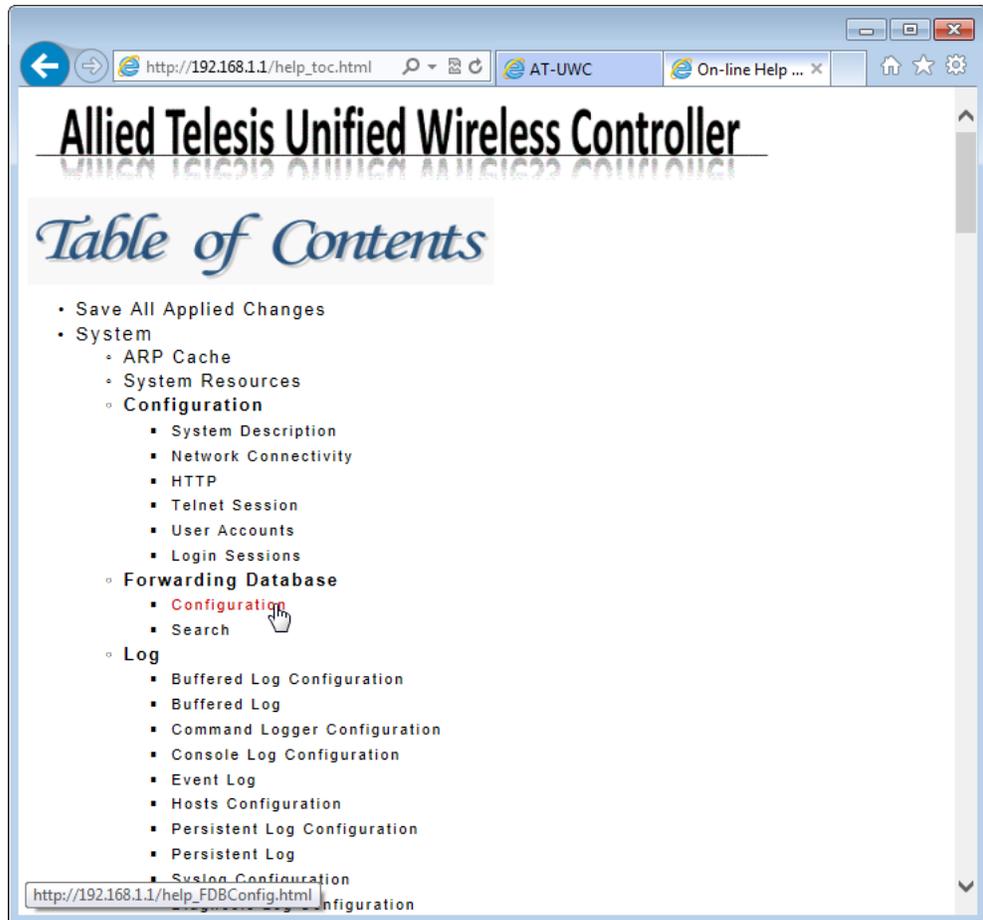


Figure 31. AT-UWC WLAN Controller Online Help TOC

4. Click the **Configuration** on the Table of Contents for example.

The Online Help Configuration portion is displayed shown in Figure 32 on page 31.

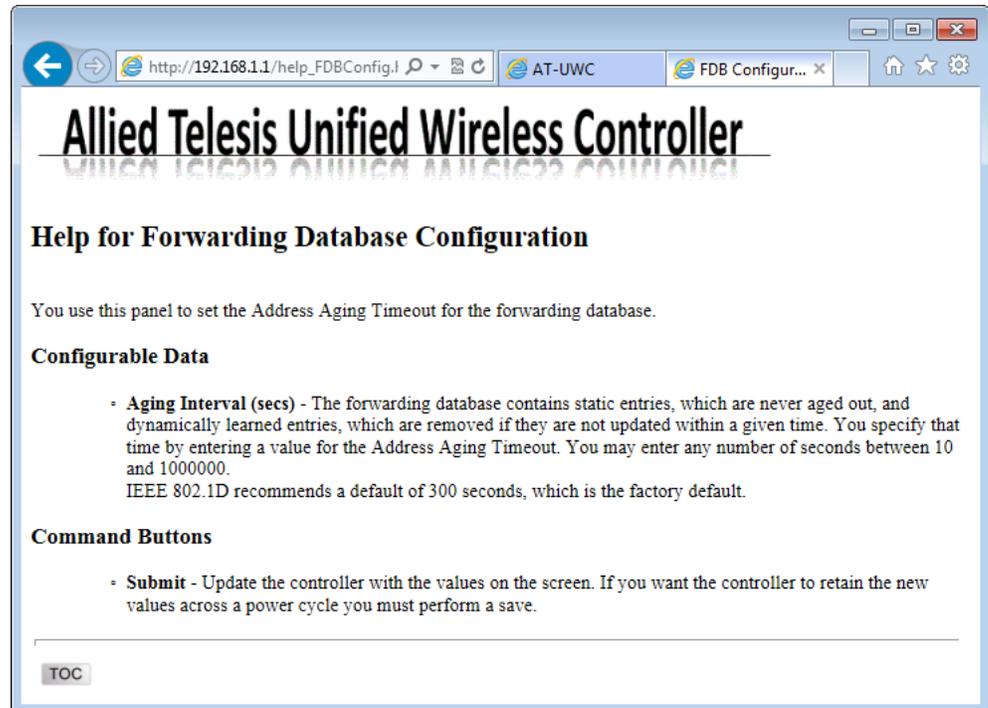


Figure 32. AT-UWC WLAN Controller Online Help Example

Ending a Management Session

You can end a management session at any time during a management session.

To end a management session, do the following:

1. Save the changes to the startup configuration.

See “Saving the Changes” on page 26. If you do not want to save your changes, skip this step.

2. Click the **Logout** button on the right side of the screen.

See Figure 33 as an example.

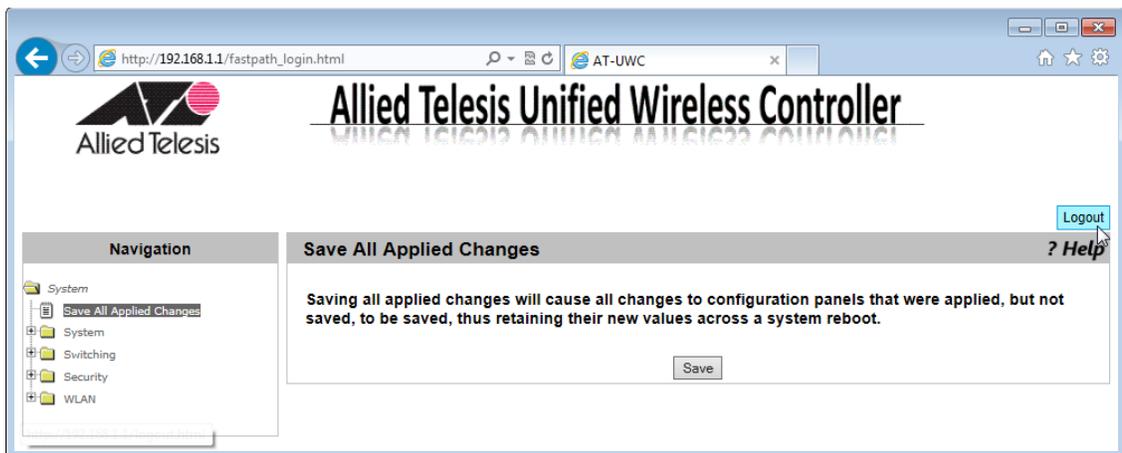


Figure 33. AT-UWC WLAN Controller Screen

The management session ends.

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