



User's Guide
Connecting Your
Device to the
OPS Wi-Fi Network

Olathe Public Schools Wi-Fi Guide

Version 2.2

Onboarding your Device

Regardless of your device type, you will begin by connecting to “OPS233 Onboard,” displayable under your available Wi-Fi networks.

This is a captive portal which **only** allows access to **Cloudpath** for the purposes of validating who you are and what type of device (personal or district-issued) you want to use on the OPS network. When you have completed your registration and installed the necessary certificates you will then use OPS233 Access for your wireless needs within the district. You may “Onboard,” multiple devices however we ask that you only have 1 device connected at a time to conserve bandwidth. To swap between connected devices simply turn the Wi-Fi off on the one not being used.

Example- I usually use my phone to get my email however I need to use my laptop for a meeting. I would turn off the Wi-Fi on my phone and then turn on the Wi-Fi on my laptop and connect to OPS233 Access.

This document is updated throughout the year if you encounter issues check that you are looking at an up to date version by visiting:

<http://www.olatheschools.com/byod>

http://www.olatheschools.com/byod_setup
(These Sways are updated in real time when we discover new behaviors in an OS)

If you need additional assistance, please use the following points of contact

Students: email BYODHelp@OlatheSchools.org
from your student email address

Staff: Contact the helpdesk a form will be emailed to you.

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(Visitors are provided information specific to options for guest registration.)

Note: We recommend reading through the instructions for your device type **in full** before you begin - so you are familiar with the steps prior to starting the actual process. We also recommend placing your device in airplane mode and then turning on your Wi-Fi and connecting to OPS233 Onboard. This is due to the proliferation of connection managers that will fail over to your mobile carrier’s network if they are unable to reach the internet. This will cause your onboarding process to fail as you must remain connected OPS233 Onboard throughout the process for it to complete correctly.

iPhones and iPads

Before you begin: You will need to use **Safari** to Onboard your device using these instructions. Please ensure you have all prior browser sessions/tabs closed.

Prepare your device

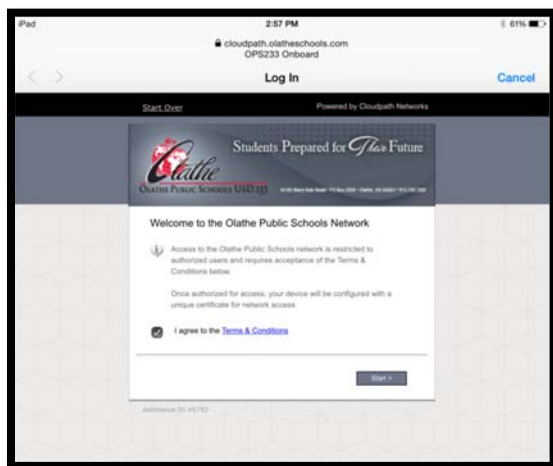
1. Activate Airplane mode
 - a. Settings>Airplane Mode>Slide toggle to the right
 - b. Settings>Wi-Fi turn on
 - c. Tap OPS233 Onboard to connect

Welcome Screen

Open **SAFARI** enter *cloudpath.olatheschools.com* into the address bar. This will direct you to the Enrollment System Welcome page to start the enrollment process. Please read and agree to the Terms and Conditions of Service

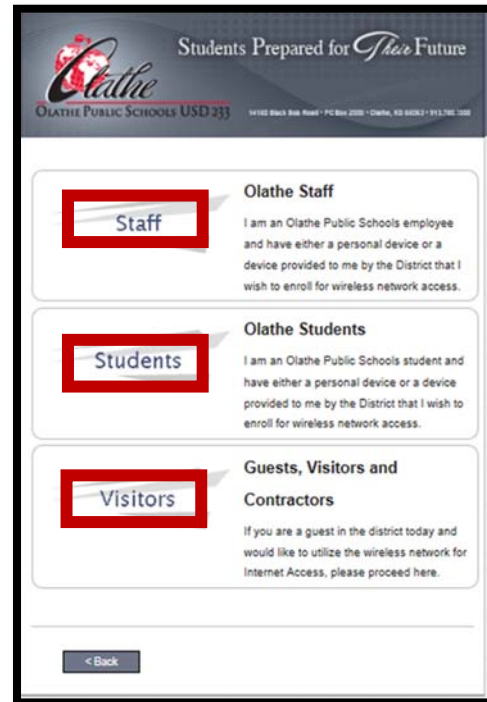
Step 1.

Read and Agree to the Terms and Conditions on the Welcome Page

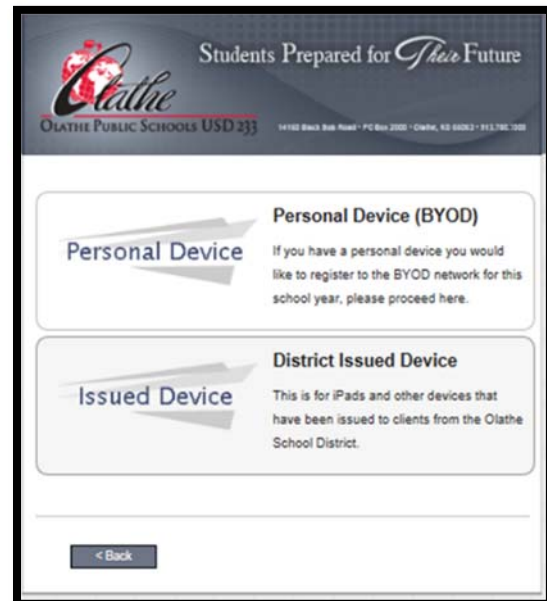


Step 2. Choose your User Type

Note: There will be THREE options *Staff, Students, and Visitors*



Step 3. Choose Device Type



Step 4.

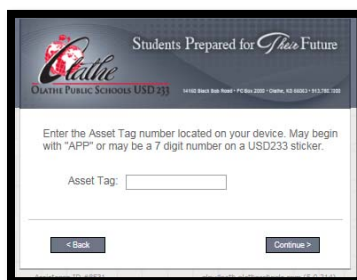
Enter your **District Username and Password**



STUDENTS ONLY – Choose Authorized on the next screen.

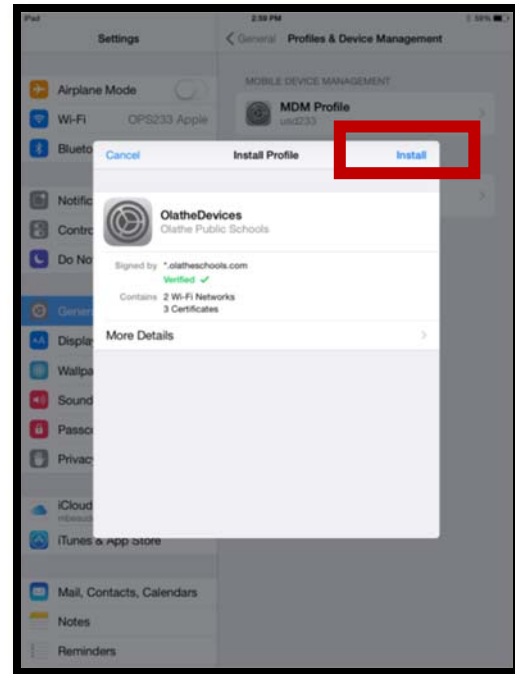


If this is a District Issued Device, then you will be asked for the **Asset Tag Number** from your device.



Step 5.

Install the **Profile** on your device



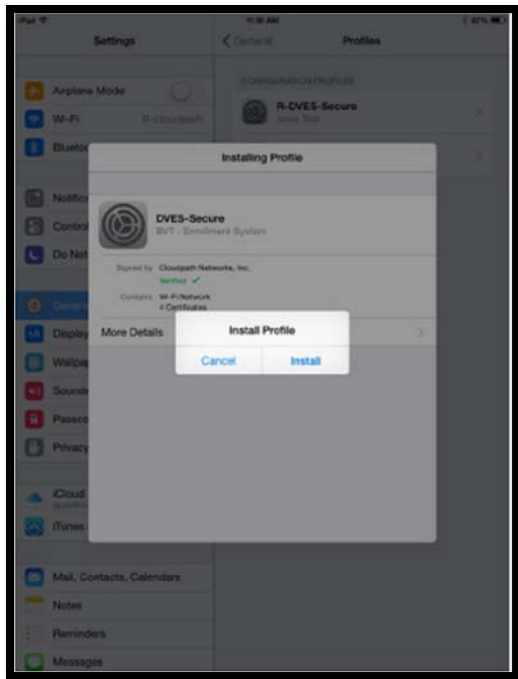
Tap **Install** to continue.

Step 6. Enter passcode

Enter your device passcode to install the profile.



Step 7. Install Root CA



Tap *Install* to continue.

Step 9. Your Profile is installed

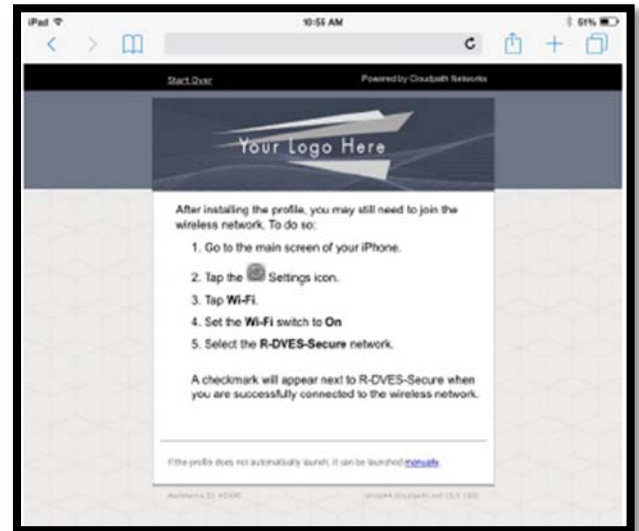


Tap *Done* to continue.

Join Wireless Network (OPS233 Access)

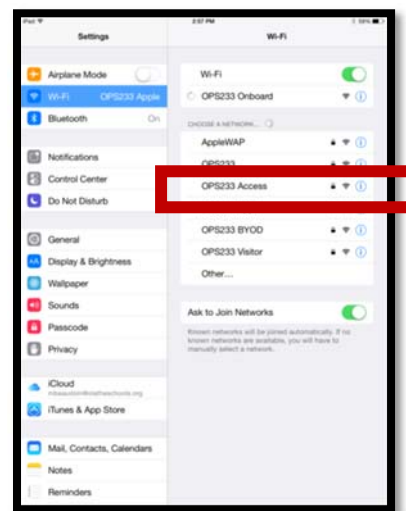
The Wi-Fi configuration page displays the instructions for connecting to the secure network.

Step 10. Join **OPS233 Access**



Close this tab after reading so it does not come up the next time you launch your browser

Go to your home screen and tap the **Settings>Wi-Fi>OPS233 Access** Once you have a blue check mark you are finished.



Don't forget to turn off Airplane Mode

Android Operating Systems

The Android operating system presents a challenge when it comes to offering a consistent user experience because the different vendor and operating system **combinations** behave in slightly different ways. During the device configuration process, the Wizard makes every attempt to provide a seamless experience by detecting the OS version on the device and providing the appropriate user prompts during the Onboarding process.

The Wizard application automates the configuration process, resolves software conflicts, and migrates your Wi-Fi connection to the secure network.

Supported Android Versions

The enrollment Wizard supports the following operating systems for Android devices: 4.1, 4.2, and 4.3 (Jelly Bean), 4.4 (KitKat), 5.0, 5.1 (Lollipop), 6.0+ (Marshmallow), 7 (Nougat)

Before you begin –

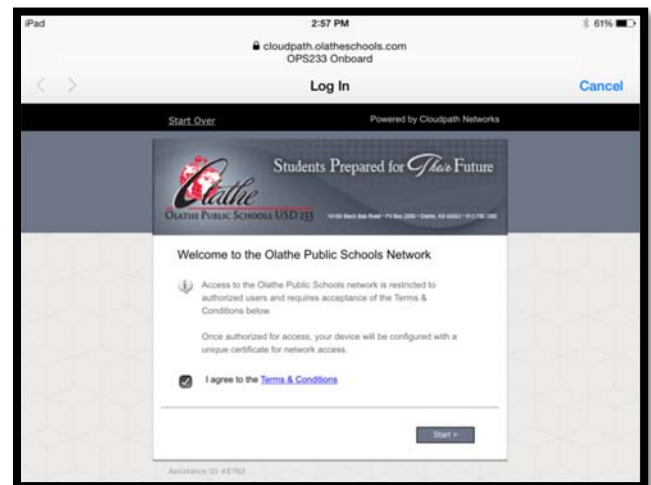
1. Set your device to accept downloads from “unknown,” sources.
2. Create a Screen Lock/PIN. *This is a requirement of the Android OS to enable certificates to be stored on it NOT a requirement of the Olathe Public School District.*
3. Activate Airplane mode and then turn Wi-Fi back on
4. Close all open tabs in your browser. You may also want to clear your browser history, cookies and cache.

These processes differ by make, model and Android version if you have questions consult your owner’s manual or phone provider’s website/customer support center.

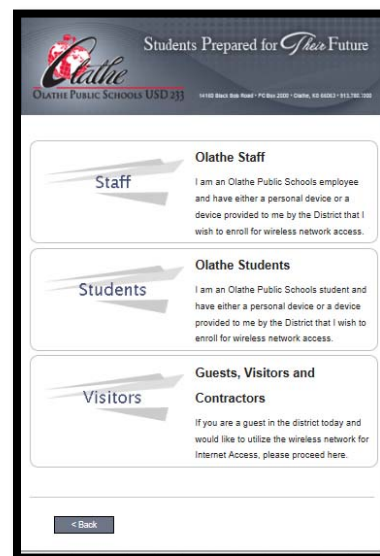
Step 1. Connect your device to the **OPS233 Onboard** Wi-Fi network

Step 2. Launch your web browser (if it automatically launches, please close the browser and open it manually) enter **cloudpath.olatheschools.com** into the address field and press enter.

This will direct you to the **CloudPath Welcome** screen. Please read the *Terms and Conditions* and if you agree to them tap **Start**.



Step 2. Choose your **User type**



Step 3. Choose **Device Type**

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Olathe
OLATHE PUBLIC SCHOOLS USD 233 14100 Black Rock Road • PO Box 2000 • Olathe, KS 66061 • 913.785.1000

Personal Device (BYOD)

Personal Device If you have a personal device you would like to register to the BYOD network for this school year, please proceed here.

District Issued Device This is for iPads and other devices that have been issued to clients from the Olathe School District.

Issued Device

< Back

Students ONLY: Choose Authorized

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Authorized

Authorized If you have a personal device you would like to register to the BYOD network for this school year, please proceed here.

Not approved for Student access This is for iPads and other devices that have been issued to clients from the Olathe School District.

Not Authorized Questions or concerns, please byodhelp@olatheschools.org

< Back

Assistance ID #1586 cp-onoc.usd233.local

Step 4. Enter your **District Username and Password**

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Your username and password are required to access the network.

Username:

Password:

< Back Continue >

Step 5. Download and Install the XpressConnect App

Tap on the box marked "Step One," to download the ExpressConect.apk file

Android Devices

Step 1 **First, Install The App**
If you don't have XpressConnect, click to install it.

Step 2 **Next, Configure Your Device**
Click to connect to Olathe Public Schools.

If clicking the Configure Your Device button does not start the XpressConnect app, please ensure the app is installed and use the built-in Android browser or the Chrome browser.

If the app is installed but the button above does nothing, use this [alternate option](#) to open the app.

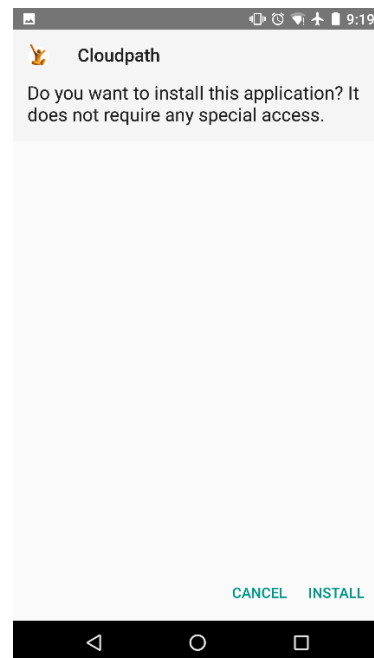
Android versions 2.1 and newer are supported. If you have a device with an older Android version, you will need to configure it manually.

You will be presented with **3 options** to download this application **Choose “Available for Local Download”**

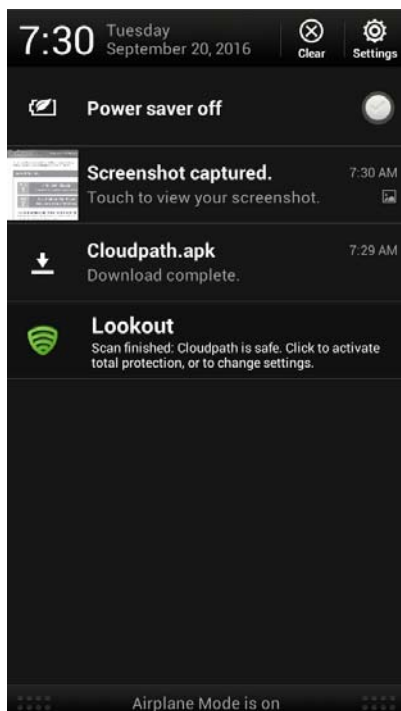


Once the download completes locate the file in your “Downloads,” folder *(you may also be able to swipe down from the top of screen this depends on your android version)*

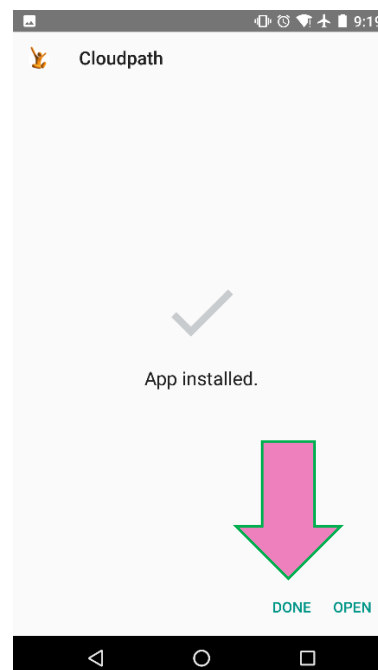
Tap **install**



Tap on **XpressConnect.apk** to start the installation.

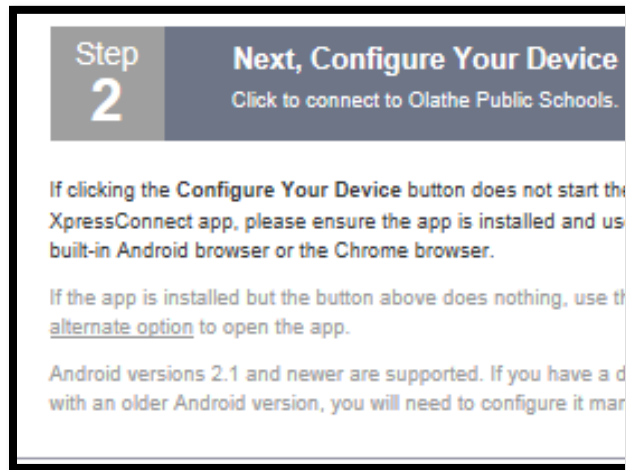


IMPORTANT! Choose **DONE** once the installation is complete.



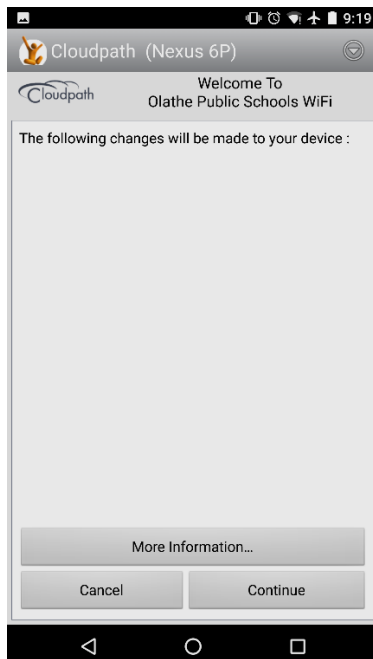
Step 6. Return to the Installation and Configuration screen and tap **Configure Your Device.** If this results in a download of a “Netconfig” file [STOP](#) and tap the link that says “[Alternate Option](#)” in the text below step two.

If you are running Android 4.3 or Earlier please go to page 5 for important information.

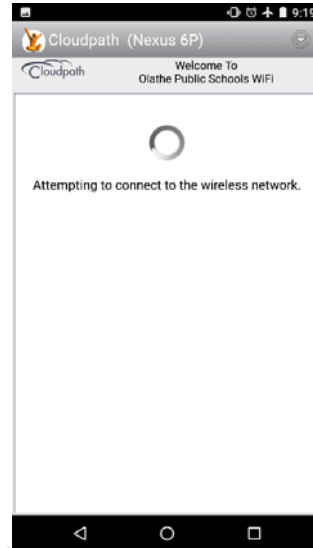


If Prompted with “Play Online or Download” when tapping the link, Select **Play Online** for the wizard to start up.

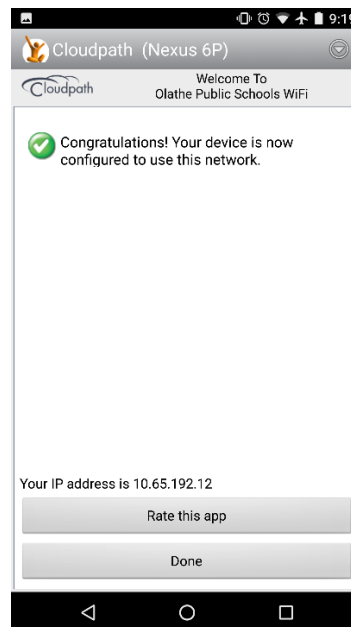
Tap **Continue**



After configuring the device, the application attempts to move the device to the secure network



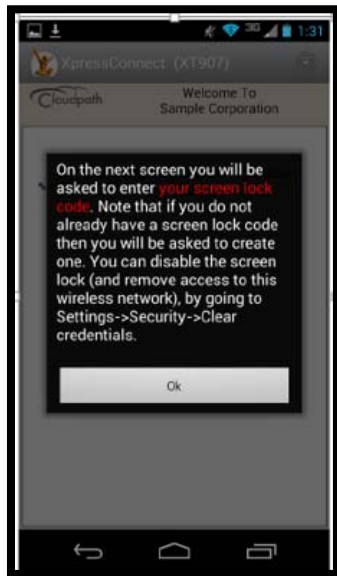
Once you reach this screen choose Done.



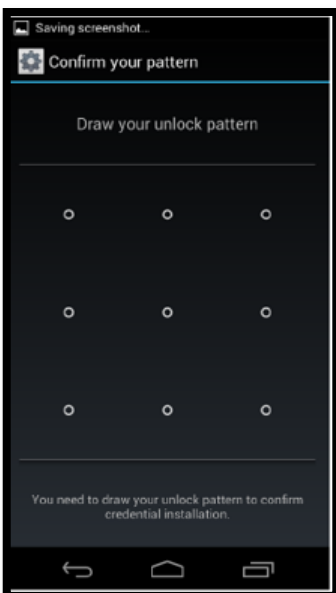
Close your open Browser Tab and turn airplane mode off. Verify you are connected to OPS233 Access you should also “forget,” the OPS233 Onboard network by long pressing it in your Wi-Fi list and choosing the “Forget,” Option.

****Android versions 4.3 and earlier****

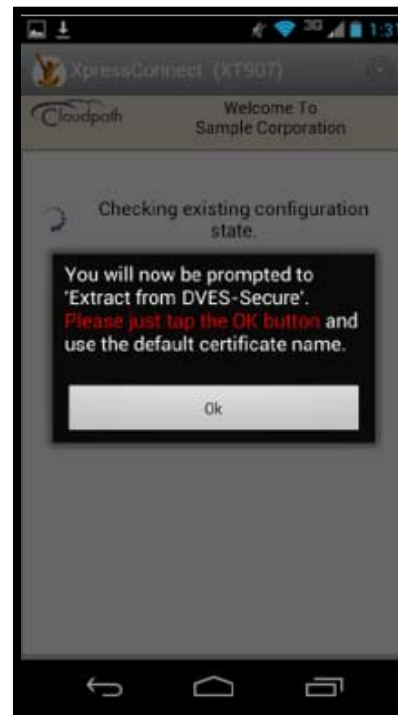
The user experience is slightly different for devices running Android OS version 4.3, and earlier. Before each certificate prompt, the application displays a message that tells you how to respond on the credential extraction and installation screens.



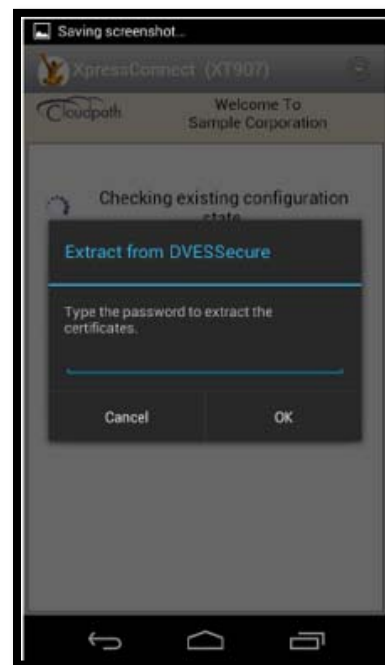
Enter the passcode PIN or pattern lock to continue.



Read each screen carefully and respond as directed to the screens that follow.



Tap **OK** to continue.



Type **password** then tap OK.



The certificate should be left with its auto populated default name. Tap **OK**.

The application continues the connection process without user intervention.



The Wizard ensures that association and authentication are successful, and verifies that an IP address is received.



Congratulations you have finished connecting your device to the network!

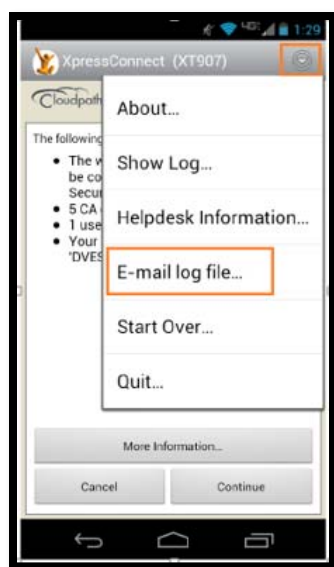
Common Android Issues

This section describes issues with using XpressConnect on the Android operating system that might prompt you to contact byodhelp@olatheschools.org.

If you encounter an error while Onboarding your device...

Please email a log file from the Android device to byodhelp@olatheschools.org. Tap the menu button on the top right of the screen and select *E-mail log file*.

FIGURE 30. How to Send a Log File



Passwords and Lock Screen PINs

The Android operating system stores portions of the data needed to authenticate in an encrypted key store. On Android versions prior to version 4.0, a password is needed to access the key store. Starting with version 4.0, the lock screen pin is the password that is used to access the key store, which is why the operating system requires that the lock screen to be enabled.

To clear the key store, go to the *Settings* screen, select *Security*, and scroll to the bottom of the screen and select *Clear Credentials*.

Blank Certificate Field

Android does not have a supported method for getting certificate chains in to the key store for use in authentication. Because of this, XpressConnect uses workarounds to make the authentication system use certificate chains. However, some workarounds do not show up in the settings screen.

In addition, if Android claims the certificate was installed in the key store and then the authentication fails, the application falls back to our workaround methods. This is done because some devices claim to have installed the certificate, but actually don't.

Certificate Passwords

Android APIs do not allow XpressConnect to specify the password when the application inserts the certificate into the key store. The workaround is to use a password prompt to install the certificate. You simply enter the password that is displayed in the password prompt and XpressConnect installs the certificate.

Android .netconfig File

If you tap the link to *Continue* with configuration of the network and receive a message that says it downloaded a file called *android.netconfig*, they need to check the device for the following issues:

1. You do not have the XpressConnect Wizard installed, so the server cannot instruct the device to start the application and use the file.
2. You were prompted to Play Online or Download when tapping the link, and selected Download. The user must

select Play Online for the wizard to start up.

3. There is a misconfiguration in the server. Contact the local help desk for more information.

Memory Card

In some cases, the XpressConnect Wizard stores data on the memory card in the device. If you remove or change the memory card, authentication fails, and you must redeploy the wizard with the new memory card in the device to get it working properly.

Uninstalling the Application

It is sometimes necessary to remove the 802.1X configuration and certificates provided by the wizard before you can uninstall the application. This is enforced by the device OS, and not by the XpressConnect Wizard.

If you encounter issues while attempting to uninstall the XpressConnect application from your Android device, check the following settings:

Remove Device Administrator

If the device has any settings configured that use Android's device administration capabilities (such as mobile device management), the XpressConnect Wizard creates an administrative user during installation and this user must be removed before XpressConnect can be uninstalled.

Go to Settings > Security, select Device Administrator and uncheck the XpressConnect administrative user.

Remove Certificates

If there are certificates on the device that were installed by the Wizard, they should be removed. Go to Settings > Security and select *Clear Credentials* (or *Clear Storage*).

Remove SSID

The user might be required to remove the SSID from the device. Go to Settings > Wi-Fi and locate the SSID for the network, and tap *Forget*.

Remove Log Files

If the XpressConnect log files remain on the device, they can be removed. Mount the device as a drive, and locate the *XpressConnect.log* and *xpc_old.log* files on the device internal storage.

Windows Laptops

Start by connecting your device to OPS233 Onboard in your Wi-Fi network options.

Launch a web browser and enter cloudpath.olatheschools.com into the address field and press enter.

Step 1. Read and Agree to the Terms and Conditions.

The screenshot shows the 'Welcome to the Olathe Public Schools Network' page. At the top is the Olathe Public Schools USD 233 logo and the tagline 'Students Prepared for Their Future'. Below the logo, it states: 'Access to the Olathe Public Schools network is restricted to authorized users and requires acceptance of the Terms & Conditions below.' It then says: 'Once authorized for access, your device will be configured with a unique certificate for network access.' There is a checkbox labeled 'I agree to the Terms & Conditions' which is checked. At the bottom right is a 'Start >' button.

Step 2. Choose your User Type

The screenshot shows the user selection screen. It has the same header as the previous screen. There are three main options, each with a graphic and text: 'Staff' (I am an Olathe Public Schools employee and have either a personal device or a device provided to me by the District that I wish to enroll for wireless network access.), 'Students' (I am an Olathe Public Schools student and have either a personal device or a device provided to me by the District that I wish to enroll for wireless network access.), and 'Visitors' (Guests, Visitors and Contractors. If you are a guest in the district today and would like to utilize the wireless network for Internet Access, please proceed here.). At the bottom left is a '< Back' button.

Step 3. Choose Device Type

Choose Personal Device all District Windows devices are preconfigured for use on our network.

The screenshot shows the device selection screen. It has the same header. There are two main options, each with a graphic and text: 'Personal Device (BYOD)' (If you have a personal device you would like to register to the BYOD network for this school year, please proceed here.) and 'District Issued Device' (This is for iPads and other devices that have been issued to clients from the Olathe School District.). At the bottom left is a '< Back' button.

Step 4. Enter your District Username and Password

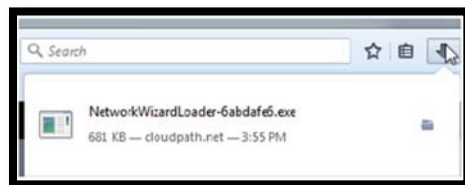
The screenshot shows the login screen. It has the same header. Below the header, it says: 'Your username and password are required to access the network.' There are two input fields: 'Username:' and 'Password:'. At the bottom left is a '< Back' button and at the bottom right is a 'Continue >' button.

Step 5. Download the XpressConnect app



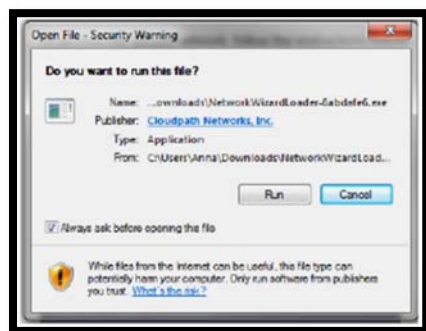
Click the down arrow to download the zip file, which contains the application files.

Step 6. Open Downloaded Files. Locate the application file in the device Downloads folder.

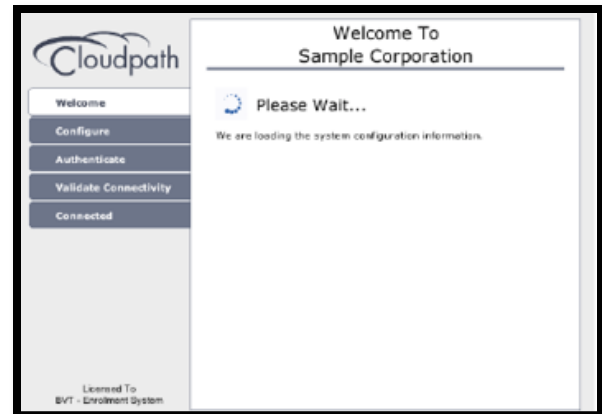


Double-click the application to start the Wizard, which runs through the configuration and migration process.

Your browser or operating system may prompt you to confirm that you want to run the application file.



Click **Run** to continue.



The configuration process takes less than a minute.



The application continues with the authentication process.



Once completed you will be connected to OPS233 Access.

Note: If you have an outdated WLAN driver or a wireless card from Qualcomm you may experience issues with connecting to the network.



Click **Done**.

Step 7. Verify Network Connection



Congratulations you have finished connecting your device to the network!

Windows Surface Devices

If you are running Windows 10 see P. 14

1. Go to your settings – Wi-Fi & Connect Device to OPS233 Onboard.

2. If browser does not automatically launch, open IE and enter cloudpath.olatheschools.com, it will redirect you to CloudPath.

3. Go through the T&C agreement and enter username/password


4. Use “Other Operating Systems” instructions

- Step 1 – tap on the link that says .cer and follow the prompts to install the certificate.
- Swipe from left side of screen to resume browser session.
- Step 2 – Tap and install the second certificate
- Swipe in from right and Tap on Wireless icon
- Connect to OPS233 Access

DO NOT enter username/password

Tap on “Connect with certificate” link


Other Operating Systems



Step 1: Install The CA Certificate

Click to Install Olathe Public Schools Root CA I

Click the button above to download the certificate file in the most common format. If needed, other formats are available: [PEM](#) [DER](#) [CER](#)




Step 2: Install Your Certificate

Click to Install Your Certificate

Click the button above to download your certificate It will need imported into your device.

**** When prompted for a password while installing the certificate, enter the password you entered on the previous screen.**



Step 3: Configure Wi-Fi

Use The Information Below To Setup Wi-Fi

Wireless Name (SSID): OPS233 Access
Security Type: WPA2-Enterprise
Encryption Type: AES (CCMP)
EAP Method: EAP-TLS (or TLS)
Root CA Certificate(s): Olathe Public Schools Root CA I
Server Name: cp-onoc.usd233.local
Client Certificate: <Download Above>
Username: <Download Above>

* Labels on fields will differ based on the operating system.

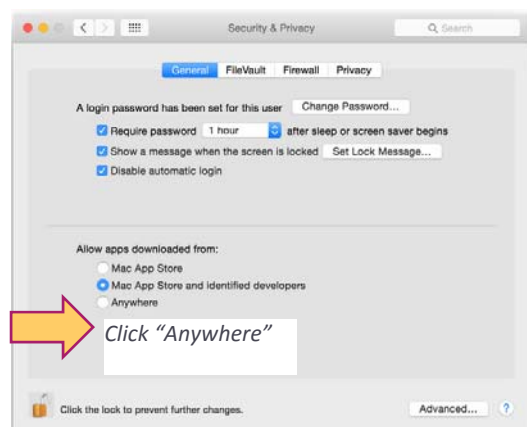
Mac OS Onboarding

The Enrollment System supports Mac OS X version 10.5, and later.

Please check your security settings so that you can download programs from locations other than Apple and have Java installed.

1. Go to Settings>Security and Privacy
2. Click the “lock” icon in the lower left corner, enter your administrator credentials
3. Under the listing for “allow apps downloaded from:” Click the radio button marked “Anywhere”

You can change this back as soon as you have finished the setup process.

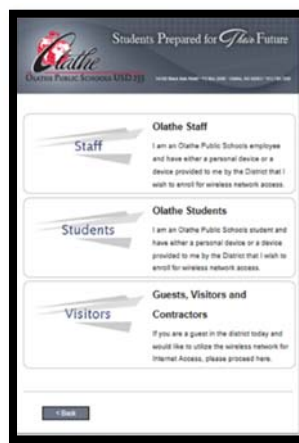


Step 1. Open Safari, enter cloudpath.olatheschools.com into the address field and press enter. Read and Agree to the **Terms and Conditions** on the Welcome Page.



Step 2. Choose your User Type

Note: There will be THREE options *Staff, Students, and Visitors*.



Step 3. Choose Device Type



Step 4. Enter your **District Username and Password**.



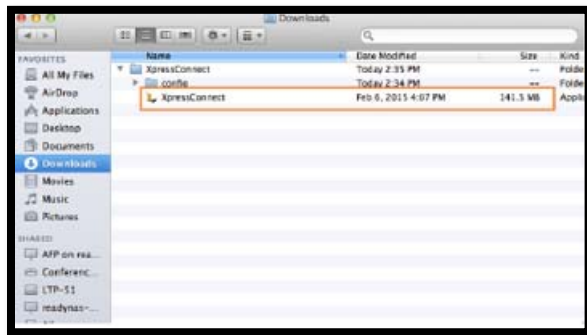
Step 5. Download the **XpressConnect** Application



Click the down arrow to download the zip file, which contains the application files

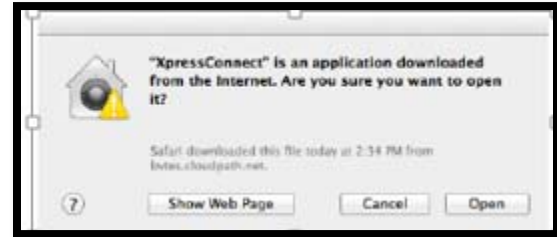
Step 6. Open Downloaded Files

Browse to the Downloads folder, open the xpressconnect or cloudpath

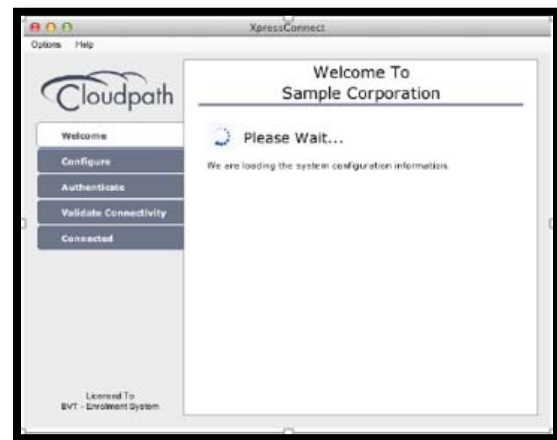


Double-click the application to start the Wizard, which runs through the configuration and migration process

Confirm Open File -Your browser or operating system may prompt you to confirm that you want to open the application file.



The application will now run.



The configuration process takes less than a minute.

Step 7. Prompt for Privileges

The certificate installation requires an administrative password this is the password you use on your device NOT your district password.

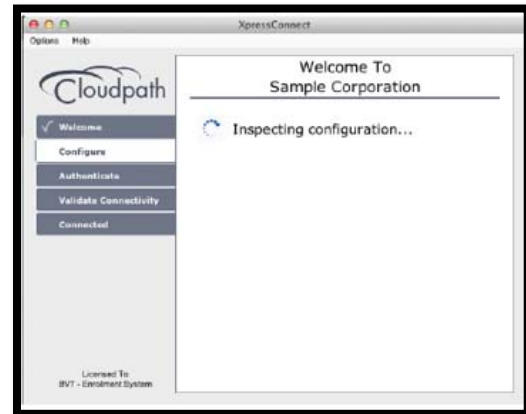


The Mac OS X system prompts for each certificate installed on the device. If multiple certificates are required, you may be prompted for each certificate



Enter the administrator password and click OK. The application continues with the configuration process.

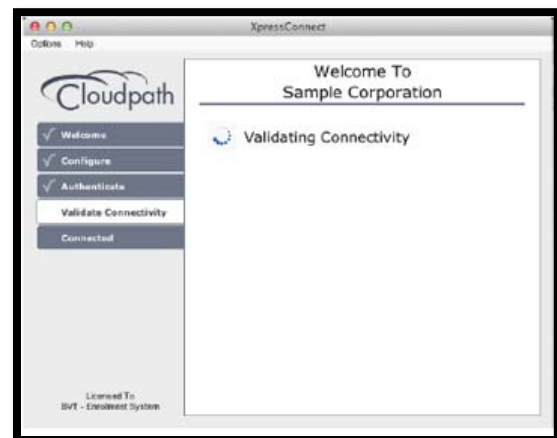
Step 8. Configuration



The application continues with the authentication process.

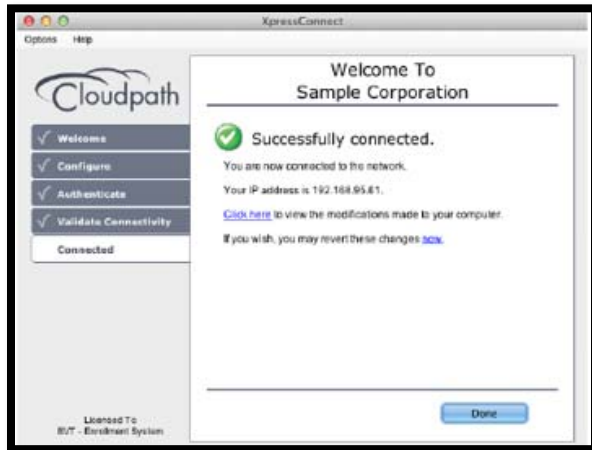


The application continues with the validation process



Step 9. Connected to **OPS233 Access**

When the application displays a message that you have received an IP address, you are connected to the secure network



Click **Done**.

Step 10. Verify Network Connection

Whether using the application to migrate the device, or manually connecting to the network, use the airport icon in the menu bar to verify you are connected to **OPS233 Access**

A check mark indicates the network to which you are connected

Congratulations you have finished connecting your device to the network!

ChromeBooks

Supported Devices

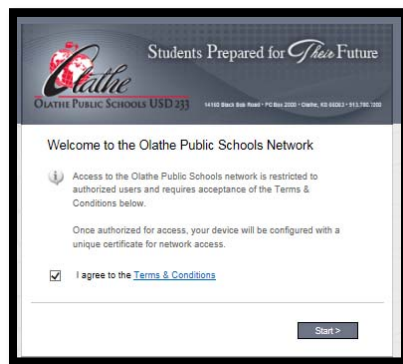
This process is for all Chrome OS devices supported by Google. To see a list of devices currently supported by Google, consult the following URLs:

<https://www.google.com/chrome/devices/eol.html>

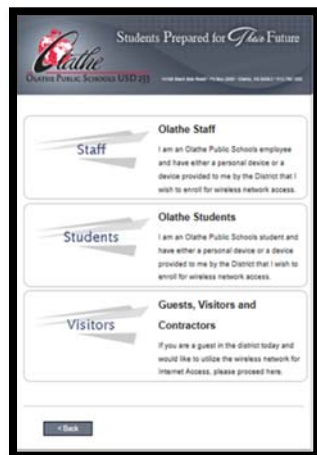
Start by connecting your device to **OPS233 Onboard** in your Wi-Fi network options.

Launch a web browser and enter cloudpath.olatheschools.com into the address field and press enter

Step 1. Read and Agree to the *Terms and Conditions*.

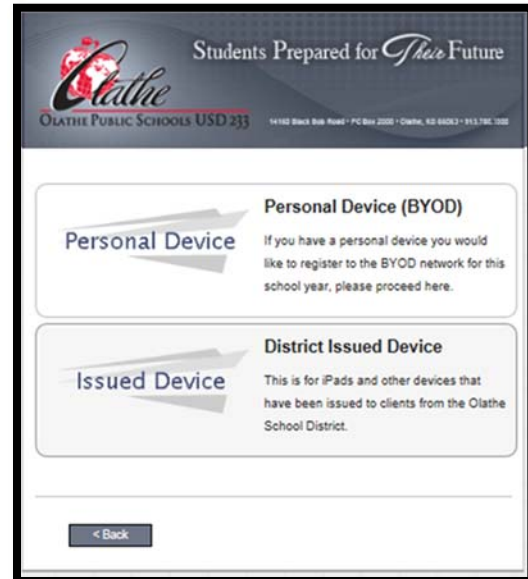


Step 2. Choose your **User Type**



Step 3. Choose **Device Type**

Choose Personal Device




Step 4. Enter your **District Username and Password**




Step 5. Download the Network File

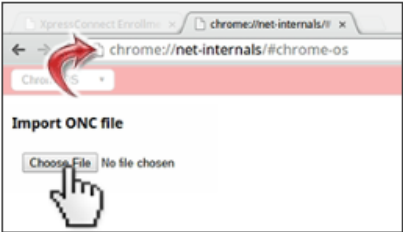
Chrome OS

- If you are not logged in as the Chromebook owner, log out and log back in as the owner.

**Step 1: Download the Network File**
Simply download the file. Do not open it yet.

**Step 2: Import Network File**
Import the Downloaded ONC File.

- Open a new tab in the browser.
- Type (or copy & paste) this address into the browser:
`chrome://net-internals/#chromeos`



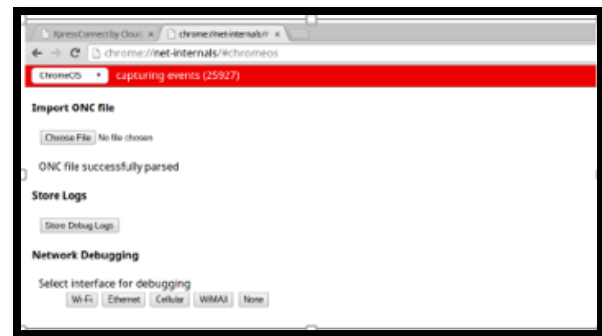
- Under Import ONC File, click Choose File
- Select the downloaded OPS233Access.onc file and click Open.
- If an error is not reported, your device is now configured for the network.
- To connect, select 'OPS233 Access' from the list of wireless networks.

Step 1 provides the link to download the ONC file.

Step 2 provides instructions for importing the ONC file.

- Copy the URL from the instructions.
 - Paste the URL into a new browser window.
- The Chrome OS Import ONC File page displays.

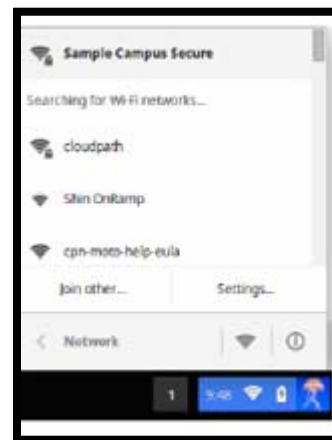
Step 6. Import ONC File



- Click **Choose File** and browse to select the .onc file. After the ONC file installed, click the Wi-Fi icon in the bottom right corner of your screen and select the secure network.


Step 7. Select OPS233 Access

You will see OPS233 Access in your list of Wi-Fi networks



Click **Connect**.

Step 8. Enter your user credentials



The screenshot shows a 'Join Wi-Fi network' dialog box. The fields are filled as follows:

- SSID: Sample Campus Secure
- EAP method: PEAP
- Phase 2 authentication: MSCHAPv2
- Server CA certificate: Cloudpath IT Root CA 1 (Cloudpath IT Root)
- Subject Match: (empty)
- User certificate: None installed
- Identity: (empty)
- Password: (empty)
- Anonymous identity: (empty)

The 'Save identity and password' checkbox is checked. At the bottom right, there are 'Connect' and 'Cancel' buttons.

You should now be connected to the secure network


Congratulations you have finished connecting your device to the network!

Visitors to the Olathe Public Schools

Thank you for visiting our district.

We are happy to provide you with **Secure Wireless Access** while you are here.

When going through the registration process for your device you will be given two options, to “**Self Register**” for the day **or** to be a “**Sponsored Guest**,” for a 1-week period if you have been provided with a voucher from the district.



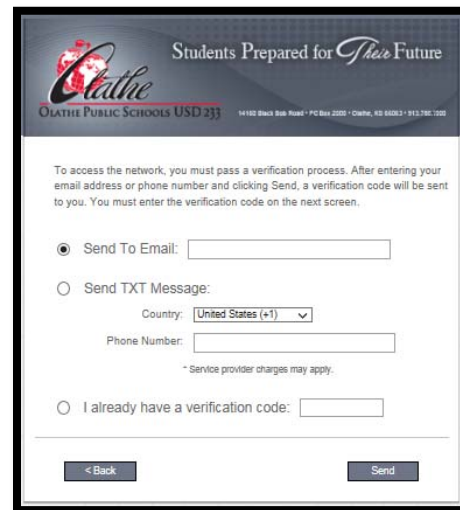
The screenshot shows the Olathe Public Schools registration page. At the top, it says "Students Prepared for Their Future" and "OLATHE PUBLIC SCHOOLS USD 233". Below this, there are two main options: "Self Register" and "Sponsored Guest". The "Self Register" option states: "Self registered Guests will be provided access through the end of the day only. Re-registration will be required each day." The "Sponsored Guest" option states: "If a voucher has been provided to you for guest access, you may register here as a 'Sponsored Guest.' Sponsored guests will have access for 1 week." At the bottom left, there is a "< Back" button.

To Self-Register



The screenshot shows the "Enter your Identity" section of the registration page. It says "Please fill out the form for Guest Access". There are two input fields: "Firstname:" and "Lastname:". At the bottom, there are two buttons: "< Back" and "Continue >".

Enter your **First and Last name** in the appropriate fields then select **Continue**.



The screenshot shows the verification method selection screen. It says "To access the network, you must pass a verification process. After entering your email address or phone number and clicking Send, a verification code will be sent to you. You must enter the verification code on the next screen." There are three radio button options: "Send To Email:", "Send TXT Message:", and "I already have a verification code:". The "Send To Email:" option is selected. Below "Send To Email:", there is a text input field. Below "Send TXT Message:", there is a "Country:" dropdown menu set to "United States (+1)" and a "Phone Number:" text input field. At the bottom, there are two buttons: "< Back" and "Send".

Choose the method you would like us to use in sending your verification code then select **Send**.



The screenshot shows the verification code entry screen. It says "A verification code was sent to [redacted]. Retrieve the verification code and enter it below." There is a "Verification Code:" text input field. Below it, there is a link that says "Send Again". At the bottom, there are two buttons: "< Back" and "Continue >".

Enter the **Code** you receive and select continue.

The remaining configuration steps will depend on your device. Please return to the Table of Contents to locate your device type's instructions.

Sponsored Guests

You will need to enter the **voucher code** you were given then follow the remaining instructions outlined for your device type.



The screenshot shows the Olathe Public Schools USD 233 website. The header features the school's logo, the tagline "Students Prepared for *Their* Future", and contact information: "14182 Black Rock Road • PO Box 2020 • Olathe, KS 66062 • 913.786.7200". The main content area prompts the user to "Enter the voucher that you received." and includes a text input field labeled "Voucher:". At the bottom, there are two buttons: "< Back" and "Continue >".