

Using iPhone Configuration Utility to setup a KHS STEM iPad

Several people have asked me to document how I set up the KHS STEM iPads. This document is my way of doing things, it may not be the best, but it works for me. ;-)

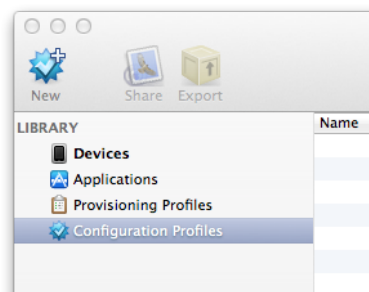
This document will attempt to show how to use the iPhone Configuration Utility to set up a configuration profile for use on school issued iPads. This profile will include: basic ipad restrictions, WCPSS wireless settings, WCPSS Email, and Web Clips for frequently used sites. The iPhone Configuration Utility (or ICU for short) is a powerful utility, these are some of the steps I use.

Download the iPhone Configuration Utility

This utility is available for both Windows and OS X machines. The iPhone Configuration Utility has been replaced (enhanced?) by Apple Configurator. Apple Configurator is only available for Mac OS X Lion or later at this time. The iPhone Configuration Utility is available for download at <http://www.apple.com/support/iphone/enterprise/>.

Create a Configuration Profile

Once you have downloaded ICU, select "Configuration Profiles" and choose New to create a new profile.



General

You'll need to create a Name, Identifier, Organization, Description, and Security code for your profile. The following screenshot shows what I use.

- **Name:** A generic name that means something to you. You may need separate profiles for students and staff use for different web clips, email, etc.
- **Identifier:** The identifier is a bit of an oddball here. Choose a name, and write it backwards as you would a web address. My example below is the config profile for khsstem, so its' identifier is com.khsstem.config (read as config.khsstem.com)
- **Organization:** The long name of your school or organization
- **Description:** A brief description of what this configuration does.
- **Security:** On student used iPads, I recommend settings security as **With Authorization**, as this allows you to set an Authorization Password which must be entered if this profile is to be removed.

General

Name
Display name of the profile (shown on the device)
KHS STEM iPad

Identifier
Unique identifier for the profile (e.g. com.company.profile)
com.khsstem.profile

Organization
Name of the organization for the profile
Knightdale HS STEM Collaborative

Description
Brief explanation of the contents or purpose of the profile
Add WCPSS Email, Restrictions, etc to KHS iPads

Security
Controls when the profile can be removed
With Authorization
Authorization password

Restrictions

Restrictions allow you to set iPad restrictions for student use. Feel free to investigate which options will work best for your situation. The following are the restrictions I'm using on the KHS iPads (These are the values I changed from the default):

- Allow Siri (Unchecked – useless on the iPad 2 we use)
- Allow voice dialing (Unchecked)
- Allow In-App Purchase (Unchecked)
- Force user to enter iTunes Store password for all purchases (Checked)
 - High School students tend to enter their own Apple ID into school issued iPads and purchase their own Apps. I can't prevent them from doing this using ICU, so, I require students to enter their ID over and over again.
- Allow adding Game Center friends (Unchecked)
- iCloud – (Using iCloud on school issued iPads for anything other than Find My iPad, can cripple a school network)
 - Allow backup (Unchecked)
 - Allow document sync (Unchecked)
 - Allow Photo Stream (Unchecked)
- Allow diagnostic data to be sent to Apple (Unchecked)
- Allow explicit music & podcasts (Unchecked)

Restrictions

Device Functionality
Enable use of device features

- Allow installing apps
- Allow use of camera
- Allow FaceTime
- Allow screen capture
- Allow automatic sync while roaming
- Allow Siri
 - Allow Siri while device locked
- Allow voice dialing
- Allow In-App Purchase
- Force user to enter iTunes Store password for all purchases
- Allow multiplayer gaming
- Allow adding Game Center friends

Applications
Enable access to applications on the device

- Allow use of YouTube
- Allow use of iTunes Store
- Allow use of Safari
 - Enable autofill
 - Force fraud warning
 - Enable JavaScript

Wi-Fi

This is a way to automatically enter the wi-fi password for all iPads without having to enter it manually. Ask your school's tech contact for the password for Lunenburg if necessary. These steps have been detailed at wcpssios.pbworks.com/Deployment – [Set Up Wireless Connection](#)

- **Service Set Identifier (SSID):** Lunenburg
- **Auto Join:** Checked
- **Hidden Network:** Checked
- **Proxy Setup:** Manual
- **Server and Port:** proxy.wcpss.net:8080
- **Security Type:** WPA / WPA2
- **Password:** ***** (See your tech contact for the password)

Service Set Identifier (SSID)
Identification of the wireless network to connect to
Lunenburg

Auto Join
Automatically join the target network

Hidden Network
Enable if target network is not open or broadcasting

Proxy Setup
Configures proxies to be used with this network.
Manual

Server and Port
Hostname or IP address, and port number for the proxy server
proxy.wcpss.net : 8080

Authentication
Username used to connect to the proxy
[optional]

Password
Password used to authenticate with the proxy
[optional]

Security Type
Wireless network encryption to use when connecting
WPA / WPA2

Password
Password for the wireless network

Email

You can enter in a generic WCPSS Email address for all iPads. The settings are the same ones detailed at wcpssios.pbworks.com/Deployment – [Setting up a generic WCPSS iPad email address](#).

In my example below, I entered the following info. You may need to modify these for your own situation:

- **Account Description:** KHS iPad Email
- **Account Type:** IMAP
- **User Display Name:** KHS iPad
- **Email Address:** khs-ipad@wcpss.net
- **Allow Move** – Unchecked
- **Enable S / MIME** – Unchecked
- **Incoming Mail**
 - **Mail Server and Port:** imap.wcpss.net:143
 - **User Name:** khs-ipad@wcpss.net
 - **Authentication Type:** Password
 - **Password:** ***** (Choose your own password)
 - **Use SSL** - Unchecked
- **Outgoing Mail**
 - **Mail Server and Port:** mobmx1.wcpss.net:587
 - **User Name:** ipad
 - **Password:** *****
 - Sorry, can't post password on Internet

- Contact kmeyrick@wcpss.net or elwoodard@wcpss.net
- **Outgoing password same as incoming** - Unchecked
- **Use Only in Mail** - Unchecked
- **Use SSL** - Unchecked

Email

Account Description
The display name of the account (e.g. "Company Mail Account")
KHS iPad Email

Account Type
The protocol for accessing the email account
IMAP Path Prefix: [optional]

User Display Name
The display name of the user (e.g. "John Appleseed")
KHS iPad

Email Address
The address of the account (e.g. "john@company.com")
khs-ipad@wcpss.net

Allow Move
Allow user to move messages from this account

Enable S/MIME
Support S/MIME for this account

Incoming Mail **Outgoing Mail**

Mail Server and Port
Hostname or IP address, and port number for incoming mail
imap.wcpss.net : 143

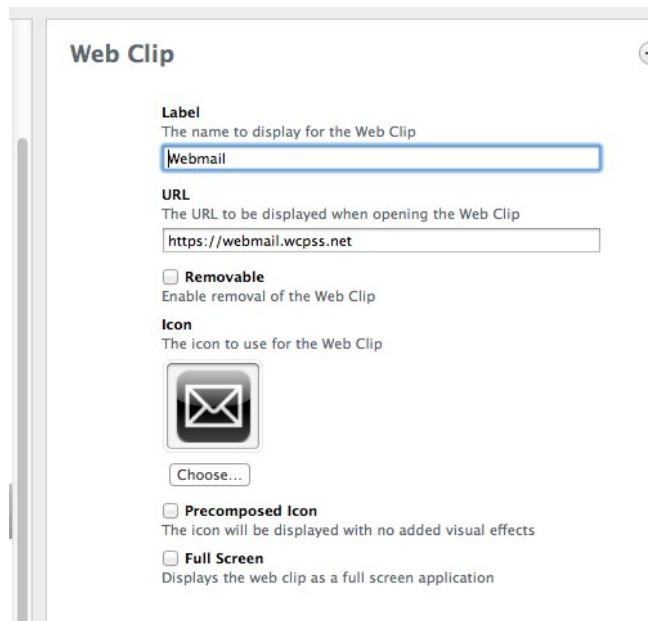
User Name
The username used to connect to the server for incoming mail
khs-ipad@wcpss.net

Authentication Type

Web Clips

Web clips are a great way to create shortcuts to commonly used websites. You can also choose any square image to use as an icon for the Web Clip. I create the following web clips for use on the KHS STEM iPads:

- **Webmail:** <https://webmail.wcpss.net>
- **KHS STEM:** <https://khsstem.pbworks.com>
- **KHS Home:** <http://knightdalehs.wcpss.net>
- **WCPSS STEM:** <http://blogs.wcpss.net/stem>
 - I always Uncheck **Removable** so that students cannot "accidentally" remove web clips



Installing the Configuration Profile on the iPad

Once you have created your profile, putting it on the iPad is really simple. Plug your iPad into a Macbook or a PC and go...

- Connect iPad using USB connection
- Open iPhone Configuration Utility
- After a moment, the device appears in the Devices list in iPhone Configuration Utility.
- Select the device, and then click the Configuration Profiles tab.
- Select your configuration profile from the list, and then click install.



- On the iPad, tap **Install** to install the profile.

Cancel **Install Profile**



KHS STEM iPad
Knightdale HS STEM Collaborative

✔ **Verified** **Install**

Description Add WCPSS Email, Restrictions, etc to KHS iPads

Signed iPhone Configuration Utility (B364A67D-BF03-4B2B-9AC3-9D50650A0A05)

Received Jun 20, 2012

Contains Wi-Fi Network
Web Clip
Restriction
Profile Removal Password
Email Account

More Details >