A Teacher's Guide to Updating Multiple TI-Nspire[®] Handhelds



Your Passion. Our Technology. Student Success.**

Table of Contents

| Introduction | 3 |
|--|---|
| Get Started | 3 |
| Method Comparison Chart | 4 |
| Helpful Tips | 5 |
| Method I – Step by Step: Sending Updates Using Unit-to-Unit Transfer | 6 |
| Method II – Step by Step: Sending Updates Using TI-Nspire [™] Navigator [™] Teacher Software | 7 |
| Method III – Step by Step: Sending Updates Using TI-Nspire [™] Docking Stations | 8 |

Introduction

The TI-Nspire" handhelds offer an upgradeable operating system (OS) that allows TI to periodically offer enhanced features for the product. This guide outlines four methods that can be used to update the OS in class sets of TI-Nspire handhelds.

OS updates are posted online where they can be downloaded and transferred to your handhelds using the tools and processes outlined in this guide. Be sure to check for updates each semester so you do not miss the latest improvements. Information about OS updates can be found at **education.ti.com/nspire/update**.

Don't forget to update your TI-Nspire[™] computer software at the same time.

- » If you use TI-Nspire or TI-Nspire[™] CAS computer software, be sure to update these applications at the same time to ensure compatibility when you send and receive TI-Nspire[™] documents between your computer and handheld.
- » Once a TI-Nspire[™] document is opened in a newer version of computer software or on a handheld with a newer version of the OS, the document may convert to the latest version and may not be reopened in the earlier version.
- » Once a TI-Nspire handheld is updated to the latest version of the OS, it can only be reverted to v3.1; it cannot revert to any earlier version of the OS.
- » To load the latest OS version, you will need to have 15MB of free space for the OS file. To free space, please delete or transfer files to a computer.

There are several methods for updating class sets of handhelds:

- » Method I: Using Unit-to-Unit Transfer
- » Method II: Using TI-Nspire[™] Navigator[™] Teacher Software
- » Method III: Using TI-Nspire[™] Docking Stations

Each TI-Nspire handheld uses a distinct operating system file:

| TI-Nspire handheld | TI-Nspire operating system file |
|--|---------------------------------|
| TI-Nspire [™] CX handheld | TI-Nspire.tco |
| TI-Nspire [™] CX CAS handheld | TI-Nspire.tcc |
| TI-Nspire handheld | TI-Nspire.tno |
| (Touchpad and Clickpad) | |
| TI-Nspire CAS handheld | TI-Nspire.tnc |
| (Touchpad and Clickpad) | |
| | |

Get Started

- 1. TI-Nspire[™] keypads must be snapped in place to proceed with OS updates.
- 2. Find the version on the handhelds by first identifying your home screen below and following the directions beside it.

| Version | Home Screen | Find the OS version by |
|--------------|---|-------------------------------------|
| V1.0 to v1.7 | Abura Image: Completion of the completion of | Home > 8: System Info > 5: About |
| V2.0 to 3.1 | Image: Construction of the co | Home > 5: Setting > 4: Status |

3. Depending on your TI-Nspire handheld and current OS version, you may need to update directly to the latest OS or perform a series of OS updates. Please see the chart below for your specific update path. Once you identify your update path, proceed to the Method Comparison Chart to identify the best way for updating your operating system.

| Handheld Type | Current OS | Update Path | Obtain OS at |
|--|---------------|---|--|
| TI-Nspire CX Handheld | 3.0 to 3.1 | Update to v3.2 directly | education.ti.com/nspire/update/tco |
| TI-Nspire CX CAS Handheld | 3.0 to 3.1 | Update to v3.2 directly | education.ti.com/nspire/update/tcc |
| TI-Nspire | 1.1 to 1.3 | Update handhelds to v1.7 first, v3.1 second, and v3.2 third | V1.7 <u>education.ti.com/nspire/update/tno17</u> V3.1 <u>education.ti.com/nspire/update/tno31</u> V3.2 <u>education.ti.com/nspire/update/tno</u> |
| Handheld (Touchpad and Clickpad) | 1.4 to 2.1 | Update handhelds to v3.1 first, and v3.2 second | V3.1 education.ti.com/nspire/update/tno31 V3.2 education.ti.com/nspire/update/tno |
| | 3.0 to 3.1 | Update to v3.2 directly | education.ti.com/nspire/update/tno |
| TI-Nspire CAS Handheld | 1.1 to 1.3 | Update to v1.7 first, and v3.2 second | V1.7 education.ti.com/nspire/update/tnc17 V3.2 education.ti.com/nspire/update/tnc |
| (Touchpad and Clickpad) | 1.4 to 3.1 | Update to v3.2 directly | education.ti.com/nspire/update/tnc |

Method Comparison Chart

A brief overview of each method is provided in the following chart.

| | Method I: Using Unit-to-Unit Transfer | Method II: Using TI-Nspire" Navigator" Teacher Software | Method TI-Nspire [™] Do | III: Using cking Stations |
|------------------------------------|---|---|---|---|
| Required Software | TI-Nspire" or TI-Nspire CAS Student or Teacher Software | TI-Nspire or TI-Nspire CAS Navigator Teacher Software | TI-Nspire or Teacher | TI-Nspire CAS Software |
| Required Hardware | Unit-to-Unit Cable(s) | TI-Navigator" Access Point TI-Nspire" Navigator" Cradles or TI-Nspire" CX Wireless Network Adapters | TI-Nspire Docking Station computer and a pow | n connected to a teacher's ver strip or wall outlet. |
| Handheld Compatibility | All TI-Nspire [™] handhelds | All TI-Nspire handhelds | <u>TI-Nspire Docking Station</u> All TI-Nspire handhelds | <u>TI-Nspire CX Docking Station</u> TI-Nspire CX and TI-Nspire CX CAS handhelds only |
| Compatible Operating Systems | Any OS version | OS Version 1.7.1 or later | OS version 2.1 or later | OS version 3.0 or later |
| Connected Handhelds | Various | Up to 40 handhelds | Up to 50 | handhelds |
| Set-up Image | Update 1 unit Update 2 more Update 4 more Update 8 moreetc. | Trassie | | |
| Notes | Each handheld that receives an OS update is used to update another handheld. Continue until all are updated and rebooted. | | You need version 2.1 o TI-Nspire CAS T | or later of Tl-Nspire and eacher Software |

Helpful Tips







Turn off Press-to-Test for the TI-84 Plus (with TI-84 Plus keypad in place) prior to swapping keypads.

- » If the keypad is switched while *Press-to-Test for the TI-84 Plus* is active, you may receive an "Invalid Keypad" error when you insert the TI-Nspire keypad.
- » The following web page provides links to instructions for disabling Pressto-Test for the TI-84 Plus or Test Guard functionality. Visit education.ti.com/ educationportal/sites/US/productDetail/us_testguard_20.html.

TI-84 Plus OS updates are included in the TI-Nspire OS process.

» It is not possible to transfer a TI-84 Plus OS from a (regular) TI-84 Plus to a TI-Nspire with TI-84 Plus keypad inserted.

NOTE Involve your students in this process. In addition to saving you time, it may provide student leadership opportunities, or opportunities to recognize students' technical skills and ability. You may even want to illustrate mathematics concepts that are inherent in the process.

Knowing when to disconnect the receiving handheld will help you quickly update a large number of handhelds.

- » Updating the handheld OS involves two steps:
 - 1. Receiving the OS installation file from the sending handheld or computer
 - 2. Disconnecting and waiting while the OS file installs the OS and the handheld reboots
- » During the second step, the receiving handheld can be disconnected and a new handheld connected. You can now start another OS transfer to a new handheld.
- » It is safe to unplug the receiving handheld when the installation progress bar can be seen on the receiving handheld.

Questions and Assistance

If you have questions about any aspect of the processes described in this document, the software and connectivity tools or need troubleshooting assistance, contact TI-Cares.

In the U.S. and Canada: **call:** 1.800.TI.CARES (1.800.842.2737) **email:** ti-cares@ti.com

Method I

Step by Step: Sending Updates Using Unit-to-Unit Transfer

- » Download the latest OS from the URLs provided from the Get Started chart on Page 3. Save the OS to a location that will be easy to remember, such as your Desktop, so that it's easy to find when you transfer it to the handhelds.
- » Use TI-Nspire[™] Teacher Software or TI-Nspire[™] Student Software to update a single TI-Nspire[™] handheld to act as the "seed" or "sending" unit for the unit-to-unit OS transfer. In the software, select the Content Explorer tab (far right) in the Documents Toolbox. In the Computer files window, find the TI-Nspire[™] OS file that you downloaded to your computer.



- » Connect the TI-Nspire "seed" handheld to your computer using a USB cable. The TI-Nspire handheld should appear in the Connected Handhelds window at the bottom of the Content Explorer pane.
- » Drag the TI-Nspire OS file you saved to your computer to the TI-Nspire handheld that is listed in the Connected Handhelds window. You will be notified that any unsaved documents will be lost. If you wish to proceed, select **YES**. The OS update will begin. When the handheld restarts, you will be ready to use this TI-Nspire handheld as your "seed" or "sending" unit to update other TI-Nspire handhelds.



- » Save any unsaved documents on the "receiving" handheld.
- » Connect the handhelds using a unit-to-unit USB cable that comes with the purchase of TI-Nspire or TI-Nspire CAS handhelds. It does not matter which connector (A or B) plugs into which unit.

TIP This is often a convenient time to check and replace batteries on all handhelds or those that have low batteries.

- » Ensure that the "receiving" handheld is on.
- » On the "sending" handheld, open the Document Browser: HOME>2: My Documents (If you are still using OS version 1.7 or previous, go to HOME>7: My Documents).
- » Press MENU, then A: Send OS



| 1: New Folder | 6 . Chu |
|--------------------------|------------|
| 3: Save As | 5626 |
| 5: Close (Ctrl+W) | 297K |
| 6: Send 7: Expand All | 214K |
| 8: Collapse All | 11K |
| 9: Settings and Status + | 12K 4K |
| B: Refresh Libraries | 13K |
| C:Delete All | 4K |

» Wait for the handheld to send the file. This process takes about five minutes.

TIP If the transfer doesn't occur, you may have a faulty unit-to-unit connection or USB cable. Check your connection or try another cable.

Sending Unit

Receiving Unit

(Nothing changes on the receiving unit.)



» Upon notification that "You can now unplug," it is safe to disconnect the mini-USB cable from the "receiving unit" while the OS installs.

Sending Unit

Receiving Unit

| *Unsaved Document | | Size |
|------------------------------------|---|--------------------|
| Di Llassund Discussion | | 54.6 |
| Consaved Document | | 4001/ |
| n analysis files | | 1.10% |
| 4 | | |
| | | |
| | | |
| | | 14K |
| Battio | - | 14K 20K |
| Ballito BaMyLib BaNspire3030 | _ | 14K 20K 146K |

| Size | Name | |
|----------|---------------------|--|
| <u> </u> | En Examples | |
| 132K | Ba MyLib | |
| | OS Upgrade | |
| unplug. | Installing OS 1.7.0 | |
| | 0 % | |
| 148 | | |
| 2010 | | |

» Once the OS installation is complete on the "receiving unit," you may plug it into another handheld to repeat the process and update another handheld. It becomes another "seed."

TIP Spread out your handhelds on a large table so you can quickly scan all "receiving" handhelds for the progress bar.

Method II

Step by Step: Sending Updates Using TI-Nspire[™] Navigator[™] Teacher Software

You can install or update the operating system (OS) on a connected handheld using the **Transfer Tool**, but be sure to **End Class** before following these steps.

- » Download the latest OS from the URLs provided from the Get Started chart on Page 3. Save the OS to a location that will be easy to remember, such as your Desktop, so that it's easy to find when you transfer it to the handhelds.
- » Open your TI-Nspire[™] or TI-Nspire CAS Navigator[™] Teacher Software. In the left panel of the Content workspace, you should see all connected handhelds. If you click on Connected Handhelds you can verify the OS on each handheld by clicking on each handheld.



» From the Tools Menu, select Transfer Tool. Click on Add to Transfer List.



» Navigate to the folder where the OS file is located.

» Select the file name and press the **Select** button. The OS file name will appear in the Transfer Tool queue.

| the state of the s | #1 C | 1115 | - | Gentenane. | | E-canal |
|--|-----------------|--|---|--------------------------------------|-------------------------|---------------------------------|
| and the second se | 1000 | A DECEMBER OF | al and | Adda and a local data | 10.00 | |
| No. of Concession, Name | A CONTRACTOR OF | ALC: NOW | - | Co. or other | | |
| distant in | B D Dennin H | Time Lance | | | | |
| discourtes. | * Continues | Long de la | and the local division of the | Constant and a lot of the lot of the | | |
| A DESCRIPTION | a distance of | Contraction of the local division of the loc | Com. | a contract data service | and and a second second | |
| THE R.L. P.L. | · O betame in | | | | Station. | |
| - | · Constants | A Description | And and and and | - | CONTRACTOR . | |
| | a di tanan fi | a contraction of the second | | | and the second | |
| whether Down in | | | | | | |
| | | | | | | |
| This is a second se | | | | | | |
| Contract of the local division of the local | | | | | | |
| Triage and | - | | | | - | |
| Tripperint | TARGET OF THE | | | | | |
| Treps Mrt | | | | | (makes | brunner |
| Translati | | and the second second | | | | nillion Tream |
| Trapelan | | | | | 1.1.4 | states de la companya de |
| the second s | | | | | | Contra Contra Contra |
| The second second | | | | | | status (194)all |
| The second second | | | | and instance in party | - | And In Concession in Concession |
| Transmitter (m) | | | The second se | | | proved - |
| | | | | | | States No. |
| | | | the second se | | | |
| Trage St. | | | | | | |

» Click Start Transfer. A progress screen is displayed.

| COLUMN D | 44 | | the local sector | |
|---|--|---|------------------|-----------|
| Softwisson S | 500 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Foto mailant Foto mailant Marine has been had been to an | | |
| Count of | | | 19434462 | Bart Bart |

» The OS transfer will be sent to any TI-Nspire handheld that is associated with your TI-Navigator[™] Access Point.

Method III

Step by Step: Sending Updates Using TI-Nspire[™] Docking Stations

- » Download the latest OS from the URLs provided from the Get Started chart on Page 3. Save the OS to a location that will be easy to remember, such as your Desktop, so that it's easy to find when you transfer it to the handhelds.
- » Put the handhelds in the docking station(s). You can transfer the OS to up to 50 handhelds if you have multiple docking stations. Make sure the docking stations are connected to the computer via a USB cable and connected into a power source.
- » Open your TI-Nspire[™] or TI-Nspire CAS Teacher Software. In the left panel of the Content Workspace, you should see all connected handhelds. If you click on **Connected Handhelds** you can verify the OS on each handheld by clicking on each handheld.



» Locate the current OS that you saved to your computer by clicking on the appropriate drive in the Resources section. Drag and drop the OS file to **Connected Handhelds** in the left panel.



» Once the Transfer Tool opens, press **Start Transfer**. As the OS is being transferred, the green light on the Docking Station will blink and you will see the green updating bar in the computer software.





- When the transfer is complete, the green light on the TI-Nspire Docking Station will be in solid green and the handheld can be removed. If you have any other handhelds that need to be updated, place them in the open slots and they will immediately begin downloading the new OS. An entire class set of 30 handhelds should take around 15 minutes to update using one docking station if you continually switch the handhelds out as each one finishes updating.
- » When all handhelds are updated, click Stop Transfer.