

# MLTI Jamf Pro Config for MEA 2019

## Requirements:

Jamf Pro admin credentials  
Apple School Manager credentials (at least Content Manager required)

*and*

MLTI iPad

*or*

MLTI MacBook Air

This document describes the Jamf Pro configuration to support MEA testing with MLTI devices for the Spring 2019 testing window.

The procedures below have been tested with a Jamf Pro instance configured as described in the [Recommended Settings](#) document.

This document assumes a basic understanding of Jamf Pro and management of macOS computers. For more information, please see the [Jamf Pro Administrator's Guide](#), as well as the [Jamf 100](#) self-paced training.

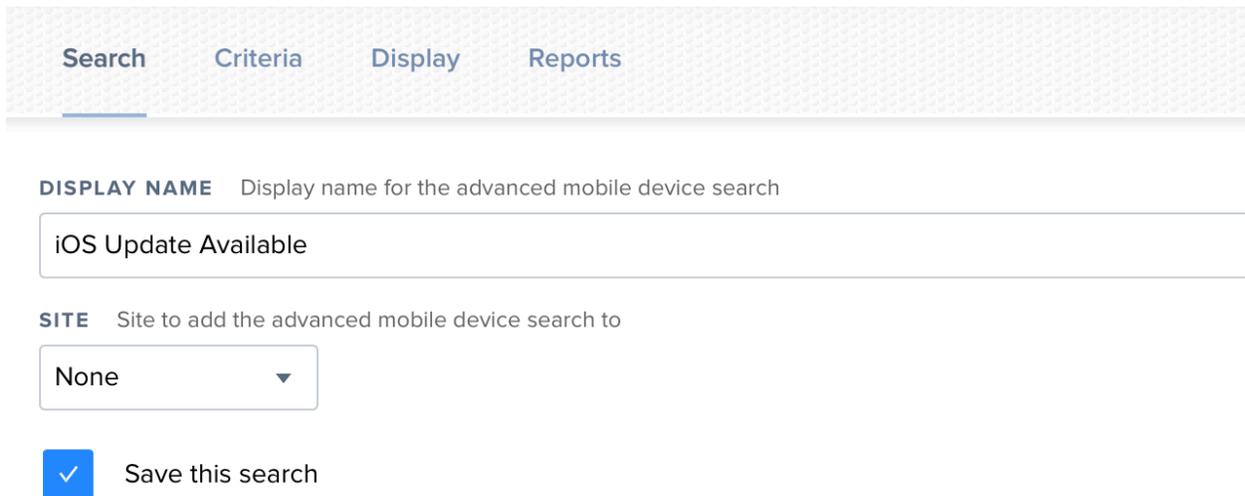
If you require additional assistance, please contact the MLTI AppleCare Help Desk at (800) 919-2775 pin 4MLTI, or <https://acbd.apple.com/mlti/>

# Jamf Pro Config for MEA: iOS

## Step One: Identify devices that are not current.

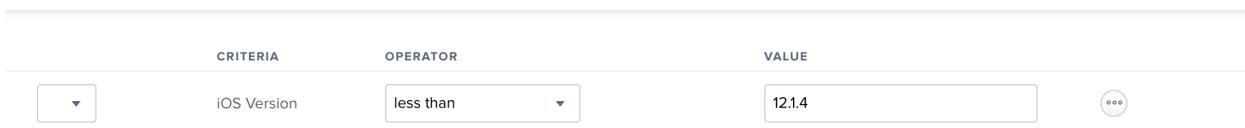
Create an Advanced Mobile Device Search to find devices that are not up-to-date.

(selecting 'Save this search' will allow the search to be re-useable)



The screenshot shows the 'Display' tab of the Jamf Pro interface. At the top, there are four tabs: 'Search', 'Criteria', 'Display', and 'Reports'. Below the tabs, there is a section for configuring the search display. The 'DISPLAY NAME' field is labeled 'Display name for the advanced mobile device search' and contains the text 'iOS Update Available'. Below this, the 'SITE' field is labeled 'Site to add the advanced mobile device search to' and has a dropdown menu with 'None' selected. At the bottom, there is a checkbox labeled 'Save this search' which is checked.

Set the Criteria to identify devices that are not at the current iOS version.



The screenshot shows the 'Criteria' tab of the Jamf Pro interface. It displays a table with three columns: 'CRITERIA', 'OPERATOR', and 'VALUE'. The 'CRITERIA' column has a dropdown menu with 'iOS Version' selected. The 'OPERATOR' column has a dropdown menu with 'less than' selected. The 'VALUE' column has a text input field with '12.14' entered. To the right of the 'VALUE' field, there is a three-dot menu icon.

Note that the search criteria may need to be changed as new iOS versions become available.

## Step Two: Upgrade devices that are not current.

When listing devices identified in Step One, click the 'Actions' button (lower right):

### Choose an Action

- Edit the Building and Department
- Send a Notification to Mobile Devices with Self Service Mobile Installed
- Delete Mobile Devices
- Send Remote Commands
- Cancel Management Commands

Select 'Send Remote Commands' and click 'Next'

**Remote Commands**  
Remote commands to send to mobile devices

- Update iOS Version (supervised iOS 9 or later devices enrolled with DEP only)
- Clear Passcode
- Lock Device
- Update Inventory
- Wipe Device
- Unmanage Institutionally Owned Device
- Set Wallpaper (supervised only)
- Set Diagnostic and Usage Reporting and App Analytics

**iOS Update Action**  
Action to take on mobile devices to update to the latest iOS version

- Download the update for users to install
- Download and install the update, and restart devices after installation

Note that this command can only be applied to devices Supervised and Enrolled over-the-air, and running iOS 9 or later.

### Step Three: Install the eMPowerMEA app

Find the volume purchase account associated with your local Jamf Pro (or site). Volume purchase server tokens used in Jamf Pro are listed here: [https://\[URL\].jamfcloud.com/vppAdminAccounts.html](https://[URL].jamfcloud.com/vppAdminAccounts.html)<sup>1</sup>

Be sure 'Populate Purchased VPP Content' is checked.

Connect to [Apple School Manager](#) and select Apps & Books in the Content Section. Searching for 'eMPowerMEA' will display the number of licenses currently available and allow you to purchase additional licenses (if necessary).

**eMPowerMEA**  
eMetric LLC · iOS App  
✓ Device Assignable  
[View Details ↗](#)

#### Buy Licenses

Assign to  
Maine State Dept Of Education

Price: \$0.00    Quantity: 100    Payment Method: None

Total Cost: **\$0.00**    [Get](#)

#### Manage Licenses ⓘ

Location	In Use	Available	
Maine State Dept Of Education	0	100	<a href="#">Transfer</a>
<b>Total</b>	<b>0</b>	<b>100</b>	

<sup>1</sup> Replace [URL] with the hostname for your local Jamf Pro instance.

Purchase the appropriate number of licenses to cover all devices used for testing.

It may take several minutes for your new purchase to appear in Jamf Pro. If it does not show up, verify that the purchase has completed (see Purchase History at the VPP site above). You will also receive an email (to the address associated with the Apple ID) indicating that the licenses are available for use.

You may then want to select 'Update Purchased Content' (in the 'Content' tab of the VPP account detail in your Jamf Pro).

**Update Purchased Content**

Select 'iOS App' as the content type to update.

**Choose a Content Type**

- eBook
- iOS App
- Mac App Store App

Enter 'eMPowerMEA' as the search criteria.

## Search the App Store/iBooks Store

Search:

**App Store/iBooks Store Country**  
App Store/iBooks Store Country

Find 'eMPowerMEA' in the search results listing and click 'Add'

### Add an App/eBook

Name	Price	Company		
 eMPowerMEA	Free	eMetric	<a href="#">View iTunes Preview Page</a>	<a href="#">Add</a>

Once the app licenses have been added to the token and recognized by your Jamf Pro instance, the app will be added to your App Catalog:

[https://\[URL\].jamfcloud.com/mobileDeviceApps.html](https://[URL].jamfcloud.com/mobileDeviceApps.html)

Locate the eMPowerMEA app in the list and click the link to edit.

Under the 'General' tab, set an appropriate category, select 'Install Automatically', 'Automatically update the app,' 'Make app managed when possible,' and 'Make app managed if currently installed as unmanaged.'

**Category**  
Category to add the app to  
Education

**Version**  
Version of the app  
3.5.0

**Bundle Identifier**  
Bundle identifier for the app  
org.measuredprogress.me

**Free**  
App is free

**Distribution Method**  
Method to use for distributing the app  
Install Automatically/Prompt Users to Install

**Display app in Self Service after it is installed**

**Automatically update app**  
Automatically update app description, icon, and version in the JSS and on mobile devices

**iTunes Country or Region**  
Country or region to use when syncing app with iTunes  
United States

**iTunes Sync Time**  
Time to sync with iTunes each day to automatically update app description, icon, and version in the JSS and on mobile devices  
10 :00 p.m.

**Make app managed when possible**  
Make the app managed when managed app requirements are met

**Make app managed if currently installed as unmanaged**  
Manage the app if it is currently installed as an unmanaged app (the user is prompted to allow management on unsupervised devices)

**Remove app when MDM profile is removed**

Under the 'Scope' tab, select the appropriate devices or device groups corresponding to the devices you will use for testing.

Under the VPP tab, be sure that 'Assign VPP Content' is checked, and sufficient licenses are available for the devices scoped above.

**Assign VPP Content**  
Assign VPP content to mobile devices with iOS 9 or later

Save the app catalog item to deploy the eMPowerMEA app to devices.

Other considerations:

Not all iOS devices will be able to upgrade to iOS 12. For information about [how to upgrade to iOS 12](#), and a list of [compatible devices](#), please visit <http://support.apple.com>

Be sure to remove any profiles deployed for testing in prior years as these may conflict with the testing environment for 2019.

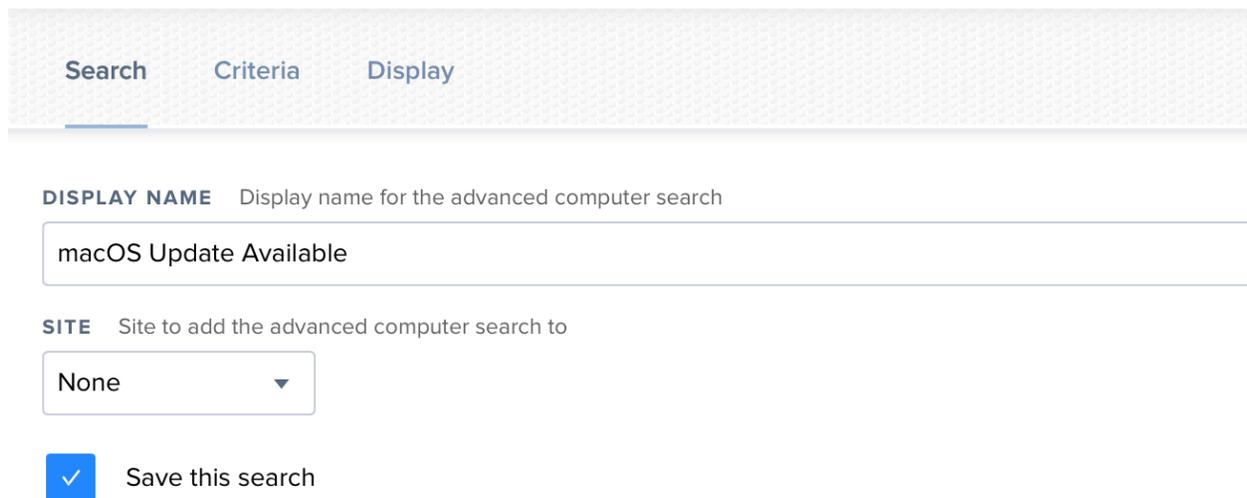
For more information, or assistance, please refer to the [Jamf Pro Administrator's Guide](#), [Jamf Nation](#), the [Assign Apps to MLTI Devices](#) document, and/or contact the MLTI AppleCare Help Desk.

# Jamf Pro Config for MEA: macOS

Step One: Identify devices that are not current.

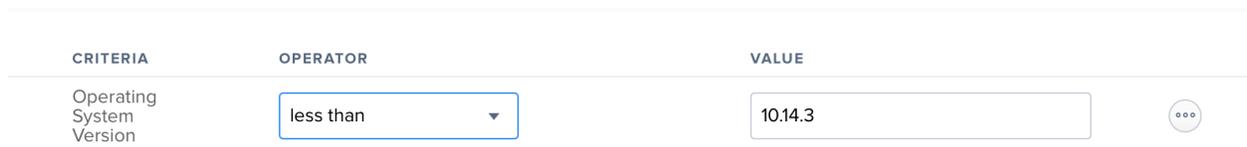
Create an Advanced Computer Search to find devices that are not up-to-date.

(selecting 'Save this search' will allow the search to be re-useable)



The screenshot shows the 'Display' tab of an advanced computer search configuration. At the top, there are three tabs: 'Search', 'Criteria', and 'Display', with 'Display' being the active tab. Below the tabs, there is a section for 'DISPLAY NAME' with the description 'Display name for the advanced computer search'. A text input field contains the value 'macOS Update Available'. Below this is a 'SITE' section with the description 'Site to add the advanced computer search to'. A dropdown menu is set to 'None'. At the bottom, there is a checkbox labeled 'Save this search' which is checked.

Set the Criteria to identify devices that are not at the current macOS<sup>2</sup> version.



The screenshot shows the 'Criteria' tab of an advanced computer search configuration. It features a table with three columns: 'CRITERIA', 'OPERATOR', and 'VALUE'. The 'CRITERIA' column contains 'Operating System Version'. The 'OPERATOR' column has a dropdown menu set to 'less than'. The 'VALUE' column contains a text input field with '10.14.3'. To the right of the table is a three-dot menu icon.

CRITERIA	OPERATOR	VALUE
Operating System Version	less than	10.14.3

To upgrade computers to the current macOS, please see [this document](#).

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<sup>2</sup> Older version of macOS may also be supported. Please be sure to test before deploying.

Part Two: Deploy the eMPowerMEA kiosk app<sup>3</sup>.

Download the *eMPowerMEA\_config\_profile\_signed.mobileconfig* and the *eMPowerMEA.pkg* files as described in the Measured Progress Kiosk Installation Guide ([available here](#)):

Windows	<a href="#">Student Kiosk for Windows</a>
Mac	<a href="#">Student Kiosk for Mac</a> <a href="#">MDM Configuration Profile - Mojave Users</a>

If you need assistance utilizing this site please contact the Maine Service Center at [maineservicecenter@measuredprogress.org](mailto:maineservicecenter@measuredprogress.org) or by calling toll-free 855-652-8929.

If you need assistance with paper based testing please contact the Maine Service Center by calling toll-free 855-652-8929.

Help guides and training materials are available at <https://maine.onlinehelp.measuredprogress.org>.

Upload the package to Jamf Pro in Computer Management -> Packages. Once the package has been uploaded, it can be deployed via Policy.

For example...

1. In Computers -> Policies click  to add a new Policy.
2. Under General, set the name to 'eMPowerMEA'
3. Set the Category to something appropriate (e.g. 'Education')
4. Leave each of the Trigger options unchecked (end user will trigger via Self Service, see step 11).
5. Set the Frequency to 'Ongoing.'
6. Under Packages, click Configure and select the 'eMPowerMEA.pkg' (see above)
7. Under Maintenance, click Configure and select 'Update Inventory'
8. Select the 'Scope' tab.
9. Select 'All Computers' (or add a group of devices used for testing)
10. Click 'Exclusions' and add the 'Non-MLTI' Department to exclude non-MLTI devices.
11. Click the 'Self Service' Tab and check 'Make the policy available in Self Service'
12. Optionally edit Button Name and Description as needed.
13. Under Icon, upload the icon provided (see below).

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<sup>3</sup> The eMPowerMEA kiosk app is currently available via Self Service for devices managed by the Maine DOE Jamf Pro instance.

14. Optionally edit Notification Subject & Message and check 'Display notification...'
15. Save the new Policy.

Optionally this policy can be 'pushed' to managed macOS devices by selecting a trigger (see step 4), and setting the frequency to 'Once per computer' (see step 5).

More information can be found in the [Add non-Mac App Store apps to Self Service](#) document.

This [image](#) can be used as the Self Service icon.

Upload the mobileconfig file to Jamf Pro in Computer Management -> Configuration Profiles. This profile is signed and can not be modified. Once uploaded, scope the profile to the macOS Mojave devices that will be used for testing.

This profile enables the Accessibility entitlement for macOS Mojave. Control of Accessibility features will be pre-approved for the eMPowerMEA app on macOS Mojave computers with this profile in place. This profile does require [user approved MDM](#).

## Part Three: Disable Handoff on devices to be used for testing.

Handoff can be disabled, and then re-enabled using scripts deployed by policy. To add scripts to Jamf Pro, see the 'Adding a Script to the JSS' section (in [Managing Scripts](#)) of the [Jamf Pro Administrator's Guide](#).

The following scripts have been tested for use with devices running macOS Mojave, High Sierra, Sierra and OS X El Capitan, using admin and standard users. Additional scripts, for use with earlier operating systems, can be found at [Jamf Nation](#).

### Script One: Disable Handoff for all users

```
#!/bin/bash
LocalHomes=$(/usr/bin/dscl . -list /Users NFSHomeDirectory | grep -v /var/ | grep -v /Library/ | awk 's2 ~ /\~/ {print s2;}')
for OneHome in $LocalHomes; do
  userName=$(/bin/echo $OneHome | awk -F "/" '{print $NF;}')
  sudo -u $userName defaults write $OneHome/Library/Preferences/ByHost/com.apple.coreservices.useractivityd.plist ActivityAdvertisingAllowed -bool no
  sudo -u $userName defaults write $OneHome/Library/Preferences/ByHost/com.apple.coreservices.useractivityd.plist ActivityReceivingAllowed -bool no
done
exit 0
```

### Script Two: Enable Handoff for all users

```
#!/bin/bash
LocalHomes=$(/usr/bin/dscl . -list /Users NFSHomeDirectory | grep -v /var/ | grep -v /Library/ | awk 's2 ~ /\~/ {print s2;}')
for OneHome in $LocalHomes; do
  userName=$(/bin/echo $OneHome | awk -F "/" '{print $NF;}')
  sudo -u $userName defaults write $OneHome/Library/Preferences/ByHost/com.apple.coreservices.useractivityd.plist ActivityAdvertisingAllowed -bool yes
  sudo -u $userName defaults write $OneHome/Library/Preferences/ByHost/com.apple.coreservices.useractivityd.plist ActivityReceivingAllowed -bool yes
done
exit 0
```

Part Four: Deploy the script(s) by policy.

Create two policies to deploy the two scripts described in Part Three. One policy will disable handoff prior to the testing window, and the second will re-enable handoff after the testing window has completed.

For more information about creating policies, please see the [Managing Policies](#) section of the [Jamf Pro Administrator's Guide](#).

Once the app, the script to disable HandOff, and the profile (for macOS Mojave devices) have been deployed, computers are ready for testing. Optionally, you may want to create a separate user for testing. Steps five and six (below) describe the process to create, and (if necessary) remove this user after conclusion of the testing window.

## Part Five: Add a Testing User by policy (optional)

Add the 'Local Accounts' payload to an existing policy (either the 'EMPowerMEA' package policy or the 'Disable Handoff' policy above) or create a new policy in Computers -> Policies

Configure the 'Local Accounts' payload as shown.

Options	Scope	Self Service	User Interaction
<b>General</b>			
Packages 0 Packages			
Software Updates Not Configured			
Scripts 0 Scripts			
Printers 0 Printers			
Disk Encryption Not Configured			
Dock Items 0 Dock Items			
<b>Local Accounts</b> 1 Account			
Management Account Not Configured			
Directory Bindings 0 Bindings			
EFI Password Not Configured			
Restart Options Configured			
Maintenance Not Configured			
Files and Processes Not Configured			

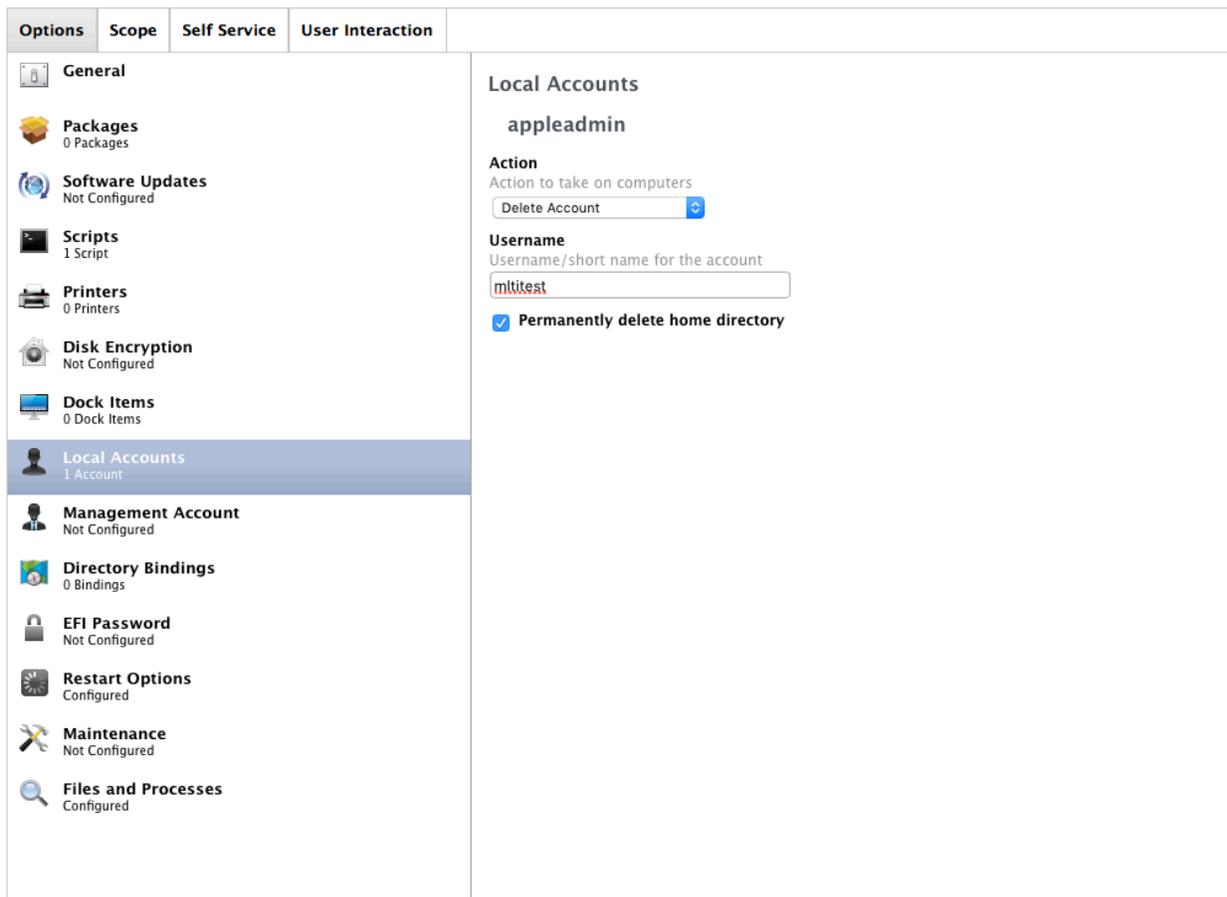
Local Accounts
<b>Action</b> Action to take on computers Create Account
<b>Username</b> Username/short name for the account mlitest
<b>Full Name</b> Display name/long username for the account Testing User
<b>Password</b> Password for the account ****
<b>Verify Password</b> ****
<b>Home Directory Location</b> Full path in which to create the home directory (e.g. "/Users/username/" or "/private/var/username/") /Users/mlitest/
<b>Password Hint</b> Hint to help the user remember the password 
<b>Account Picture Location</b> Full path to the account picture (e.g. "/Library/User Pictures/Animals/Butterfly.tif") /Library/User Pictures/Fun/Chalk.tif
<input type="checkbox"/> <b>Allow user to administer computer</b> Give the user administrator privileges to the computer
<input type="checkbox"/> <b>Enable user for FileVault 2</b> Allow the user to unlock the FileVault 2-encrypted drive

If creating a new policy, be sure to add the 'Maintenance' payload and update inventory (so that the device record will show that the account was created).

## Part Six: Removing the Testing User

If desired, the testing user can be removed at the completion of the testing window. Removing or disabling the policy will not remove the user. A new policy will need to be created that will delete the account.

Using the 'Local Accounts' payload, the account can be deleted, and archived, or the home folder data can be dated completely (as shown):



This policy should be scoped to the same group of devices used in Part Five. If run on devices without the Testing User, an error will be generated, but the result is otherwise harmless.