

Testing Guide for Send and Archive Extension

Prerequisites

- Thunderbird 128.0 or higher installed
- At least one email account configured in Thunderbird
- Some existing emails to reply to (for testing the archive functionality)

Installation for Testing

1. Open Thunderbird
2. Navigate to **Tools → Add-ons and Themes** (or press `Ctrl+Shift+A`)
3. Click the **gear icon**  and select **“Debug Add-ons”**
4. Click **“Load Temporary Add-on”**
5. Browse to the extension directory and select `manifest.json`

Test Cases

Test 1: Extension Loading

Steps:

1. Load the extension as described above
2. Open the Browser Console: **Tools → Developer Tools → Browser Console** (`Ctrl+Shift+J`)
3. Look for the message: “Send and Archive background script loaded”

Expected Result:

- Extension loads without errors
- Console shows successful loading message

Test 2: Toolbar Button (New Message)

Steps:

1. Click **“Write”** to compose a new message
2. Look for the “Send and Archive” button in the compose window toolbar
3. Click the button

Expected Result:

- Button is visible in the compose toolbar
- Message is sent (if valid recipient/subject/body)
- No archiving occurs (console should show “No original message to archive”)

Test 3: Toolbar Button (Reply)

Steps:

1. Select an existing email in your inbox
2. Click **“Reply”**
3. Compose a reply message
4. Click the “Send and Archive” button

Expected Result:

- Reply is sent successfully
- Original message is archived to the archive folder
- Notification appears (if enabled in settings)
- Console shows: “Message sent successfully” and “Message archived successfully”

Test 4: Keyboard Shortcut**Steps:**

1. Reply to an existing message
2. Compose your reply
3. Press `Ctrl+Shift+Enter`

Expected Result:

- Same behavior as clicking the toolbar button
- Reply sent and original archived

Test 5: Options Page**Steps:**

1. Go to **Tools → Add-ons and Themes**
2. Find “Send and Archive” in the extensions list
3. Click the **three dots** ... and select **“Options”**
4. Toggle the “Show notification after archiving” checkbox

Expected Result:

- Options page opens
- Checkbox state changes
- “Settings saved successfully!” message appears
- Settings persist after closing and reopening

Test 6: Notification Toggle**Steps:**

1. Disable notifications in the options page
2. Reply to a message and use “Send and Archive”
3. Verify no notification appears
4. Enable notifications in options
5. Reply to another message and use “Send and Archive”
6. Verify notification appears

Expected Result:

- When disabled: no notification after archiving
- When enabled: notification appears after successful archiving

Test 7: Send Failure Handling**Steps:**

1. Reply to a message
2. Leave the message body empty or remove the recipient
3. Try to use “Send and Archive”

Expected Result:

- Send operation fails with an error
- Original message is NOT archived

- Error notification is displayed
- Compose window remains open

Test 8: Context Menu

Steps:

1. Open a compose window (reply to a message)
2. Right-click the “Send and Archive” toolbar button
3. Look for menu options

Expected Result:

- Context menu appears with extension-related options

Test 9: Archive Folder Location

Steps:

1. Before testing, check your archive settings:
- **Tools → Account Settings → [Your Account] → Copies & Folders → Message Archives**
2. Note the archive folder structure (e.g., yearly, monthly, single folder)
3. Use “Send and Archive” on a reply
4. Check the archive folder

Expected Result:

- Original message is archived according to your existing archive settings
- Archive folder structure is respected

Test 10: Multiple Compose Windows

Steps:

1. Open multiple reply windows (reply to 2-3 different messages)
2. In each window, use the “Send and Archive” button or keyboard shortcut
3. Focus should be on the correct window

Expected Result:

- Each window operates independently
- The correct original message is archived for each reply
- No cross-window interference

Debugging

Console Messages to Look For

Successful operation:

```
Send and Archive triggered for tab: [number]
Found related message ID: [number]
Sending message...
Message sent successfully
Archiving message: [number]
Message archived successfully
```

New message (no archive):

```
Send and Archive triggered for tab: [number]
No original message to archive (this is a new message, not a reply)
```

Error condition:

```
Error sending message: [error details]
```

or

```
Error archiving message: [error details]
```

Common Issues

Issue: Button doesn't appear

- **Solution:** Make sure you're in a compose window, not the main window
- **Solution:** Try restarting Thunderbird and reloading the extension

Issue: Keyboard shortcut doesn't work

- **Solution:** Ensure the compose window has focus
- **Solution:** Check if another extension is using the same shortcut

Issue: Archive fails

- **Solution:** Check that the account supports archiving
- **Solution:** Verify archive folder is configured in account settings
- **Solution:** Check Browser Console for detailed error messages

Issue: `browser.compose.sendMessage()` is undefined error

- **Solution:** This shouldn't occur with this implementation; if it does, verify you're using the `messenger.compose` API, not `browser.compose`

Performance Testing

1. Test with large message bodies (>1MB)
2. Test with messages containing attachments
3. Test with HTML-formatted messages
4. Test with plain text messages

All scenarios should work without performance degradation.

Clean Up After Testing

To remove the temporary extension:

1. Go to **about:debugging** in Thunderbird
2. Find "Send and Archive" in the temporary extensions list
3. Click "**Remove**"

Or simply restart Thunderbird (temporary extensions are automatically removed).

Reporting Issues

When reporting issues, please include:

- Thunderbird version
- Operating system
- Extension version (1.0.0)
- Steps to reproduce
- Console output (from Browser Console)
- Expected vs actual behavior