

About Citrix Receiver for Chrome 1.9

Dec 09, 2015

Citrix Receiver for Chrome is hosted on StoreFront servers and enables users to access virtual desktops and hosted applications from a web browser. Resources delivered by XenDesktop and XenApp are aggregated in a StoreFront store and made available through a Citrix Receiver for Web site. With Citrix Receiver for Chrome enabled on the site, users can access desktops and applications within their web browsers without needing to install Receiver locally on their devices.

When used in conjunction with the centralized customization and branding capabilities of StoreFront 3.0, users of this Citrix Receiver for Chrome release will receive a centrally managed app and desktop selection experience from StoreFront.

What's new in version 1.9

Enhanced clipboard support

Citrix Receiver for HTML5 now supports HTML format in addition to plain text between client and a session. This support is useful for Office apps and browsers. Enhanced clipboard support is only available on Chrome and Safari browsers.

How does it work?

Prior to introducing this feature, Citrix Receiver did not support copying and pasting HTML-formatted text from a local application to another application (for example, Microsoft Excel) using the Paste Special feature. As a result, the targeted app (in this case, Microsoft Excel) would not retain its HTML formatting characteristics.

At this release, you can copy HTML content and retain formatting; when copying a link in Chrome, a tag is added in HTML format, which effectively allows you to copy images as well as text. This feature is richer than plain text, but does not work in all applications.

For this feature to work, you must add the following registry entry to the VDA:

```
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Citrix\wfshell\Virtual Clipboard\Additional Formats\HTML  
Format
```

```
"Name"="HTML Format"
```

Warning

Using Registry Editor incorrectly can cause serious problems that can require you to reinstall the operating system. Citrix cannot guarantee that problems resulting from incorrect use of Registry Editor can be solved. Use Registry Editor at your own risk. Make sure you back up the registry before you edit it.

Note

For additional information about the issues resolved by the introduction of this feature, refer to support articles available on the Support site ([CTX112063](#) and [CTX086028](#)).

Hardware encode webcam support

Citrix Receiver for Chrome provides an enhancement to webcam redirection functionality at this release. H.264 hardware encoding for webcam input helps reduce CPU load and increases battery efficiency for Chromebook devices. These devices have encoders for H.264, which leverage Intel functionality through the PPB_VideoEncoder API.

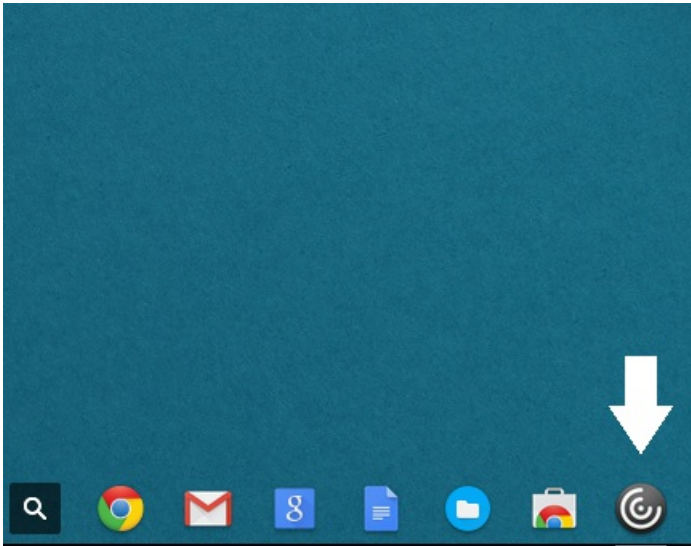
Known issues

- A session may crash while copying and pasting a large amount of data inside a session. Citrix recommends copying less than 10 MB of data when using the clipboard.
[#0586671]
- Citrix recommends that you use an absolute path rather than a relative path in File Transfer registry settings.
[#0607455]
- Citrix Receiver for Chrome does not support cross language keyboard.
[ENH0602652]
- When contents are copied from a document on Google drive (Gdrive) to a session the format of the copied content may not be maintained. To resolve this issue, open the document containing the copied content using the respective app (for example, Google docs, Microsoft Word or Excel) and perform clipboard operations. This should reserve the format at the session side.
[#0606135]
- The keyboard combination ALT+F4 does not work as expected within a session. To resolve this issue, use the Search/Windows key prior to using the ALT key press sequence (for example, Search/Windows key+ALT+F4); this effectively allows you to directly use top row keys of a Chrome book as function keys, there is no need to continually use the Search/Windows key sequence.
[#0607326]

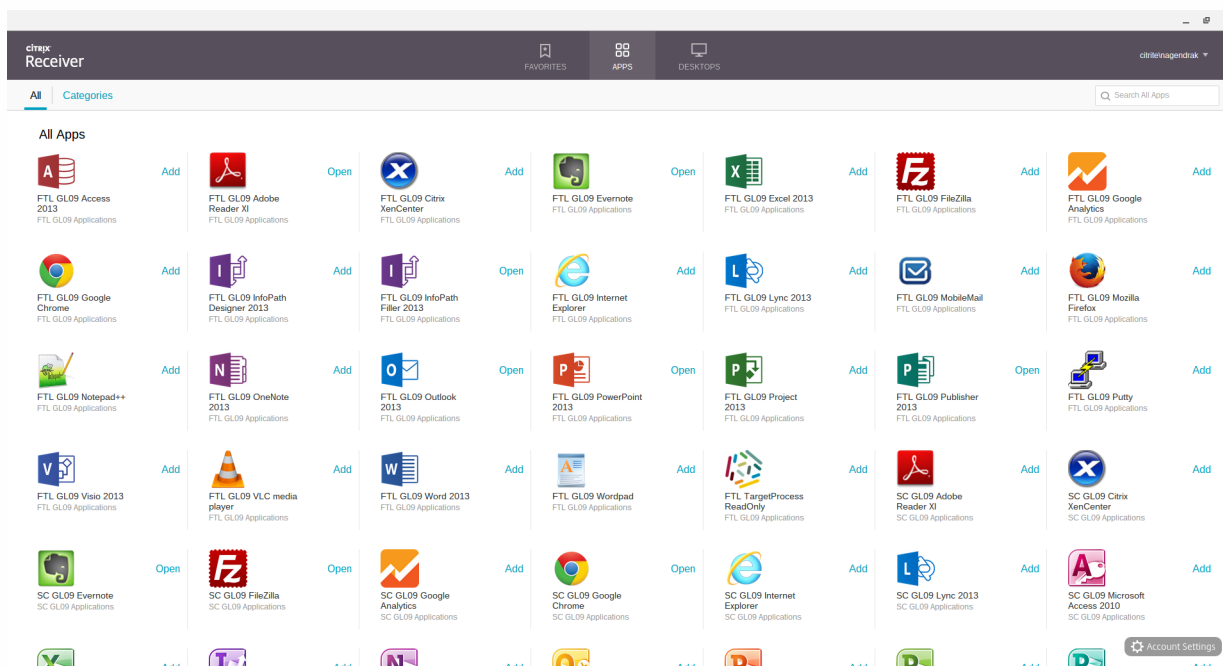
User experience

Mar 30, 2015

After installing and configuring Citrix Receiver for Chrome, users click the Citrix Receiver icon in the Chrome apps list to start Receiver for Chrome, as shown in the following figure. To remove Citrix Receiver for Chrome from their devices, your users right-click the Citrix Receiver icon in the Chrome apps list and select Uninstall.



After they have logged on, users' desktops and applications appear, as shown in the following figure. Users can search for resources and click an icon to start a desktop or application in a new window.

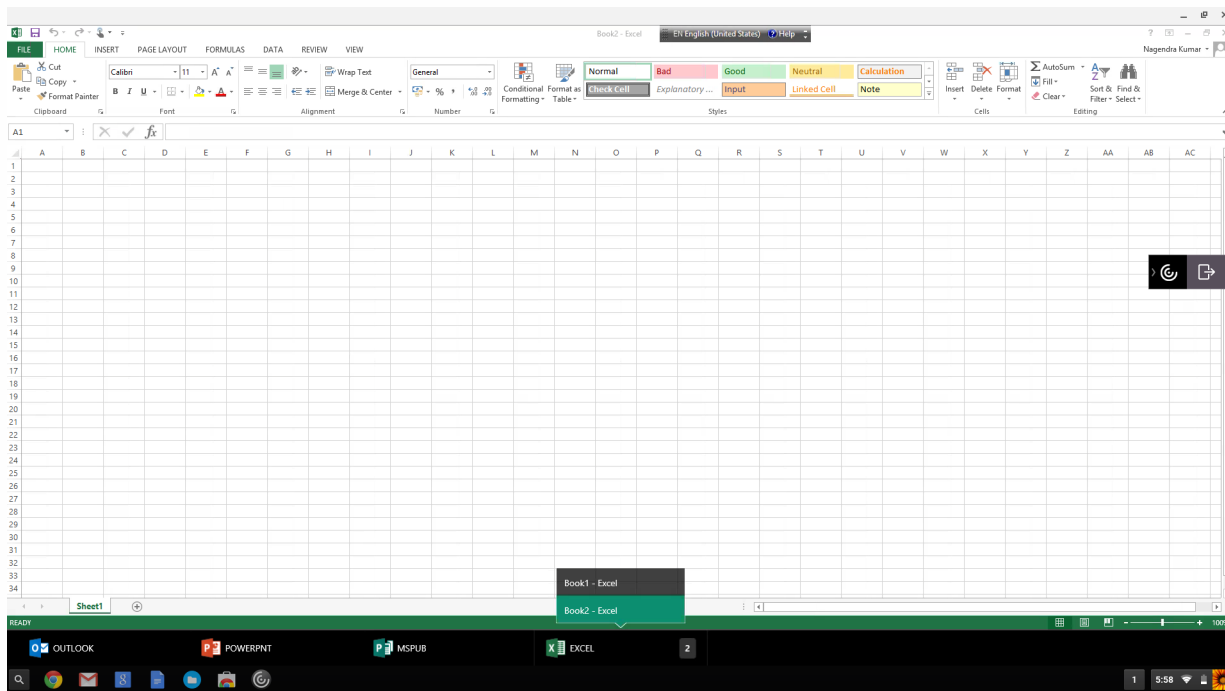


When a user starts an additional application, Citrix Receiver for Chrome checks whether the application can be started within an existing session before creating a new session. This enables users to access multiple applications over a single

connection so that the available resources are used more efficiently.

For session sharing to occur, the applications must be hosted on the same machine and must be configured in seamless window mode with the same settings for parameters, such as window size, color depth, and encryption. Session sharing is enabled by default when a hosted application is made available.

Applications running in the same session appear in the same window. If App Switcher is installed on the machine providing the applications, a taskbar appears at the bottom of the window, as shown in the following figure. The taskbar displays all the applications currently running in the session, enabling users to switch between those applications. Users can configure the taskbar to auto-hide and switch to small icons to minimize the amount of space taken up by the taskbar.

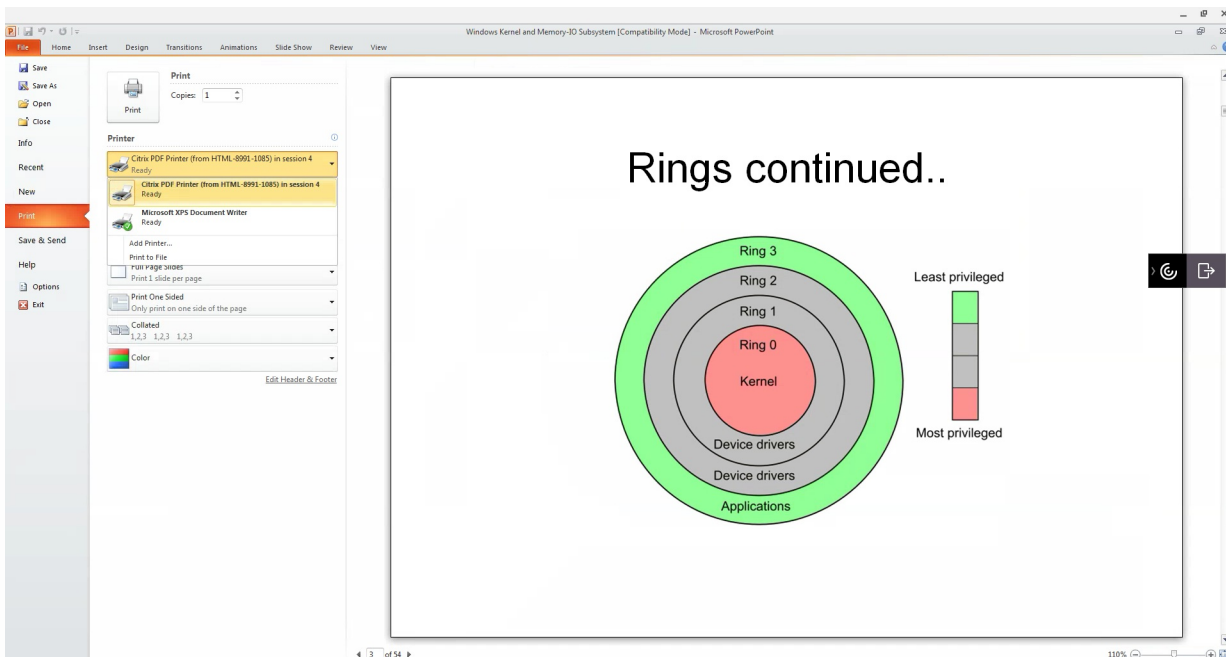


Users can use standard Windows shortcuts to copy data, including text, tables, and images, between hosted applications, both within the same session and between different sessions. Only Unicode plain text can be copied and pasted between hosted applications and the local clipboard on the device.

Users can use standard Windows keyboard shortcuts with Citrix Receiver for Chrome because these shortcuts are passed from Chrome OS to hosted applications. Similarly, shortcuts specific to particular applications can also be used, provided they do not conflict with any Chrome OS shortcuts. However, note that the Windows key must also be pressed for function keys to be recognized, so an external keyboard is required. For more information about using Windows keyboards with Chrome OS, see <https://support.google.com/chromebook/answer/1047364>. Citrix-specific shortcuts, such as those for switching between sessions and windows, cannot be used with Citrix Receiver for Chrome.

When printing a document opened with a hosted application or an application running on a virtual desktop, the user is given the option to print the document to PDF, as shown in the following figure. The PDF is then transferred to the local device for viewing and printing from a locally attached printer or Google Cloud Print. The file is not stored by Citrix Receiver for Chrome.

Note: See the [features](#) for this release for more information about Google Cloud Print support.



To enable logging for Citrix Receiver for Chrome

To assist with troubleshooting connection issues, logs can be generated on both the user device and the machines providing desktops and applications for users.

Enabling logging on user devices

To capture logs on a user device:

1. On the user device, click **Account Settings** in the bottom-right corner of the Citrix Receiver for Chrome logon page.
2. In the **Settings** dialog box, click **Start Logging**.
Details of the collected log files are listed in the Settings dialog box.
3. Click **Stop Logging** to end the collection of logs on the user device.

Enable sever-side logging for App Switcher

To enable logging for App Switcher on machines providing applications for users, complete the following steps.

1. Use a text editor to open the AppSwitcher.exe.config file, which is typically located in the C:\Program Files (x86)\Citrix\App Switcher directory.
2. Locate the following section in the file.

```

1. <applicationSettings>
  <Citrix.AppSwitcher.Properties.Settings>
    <setting name="TraceEnabled" serializeAS="String" >
      <value>False</value>
    </setting>
  </Citrix.AppSwitcher.Properties.Settings>
</applicationSettings>

```

3. Change the content of the <value> element to **True** to enable App Switcher logging.

The App Switcher log files are saved in the \AppData\Citrix\AppSwitcher\Logs directory. The \AppData directory is hidden by default.

Deploying Citrix Receiver

Mar 30, 2015

There are a number of options for deploying Citrix Receiver for Chrome.

- You can use Google App management console to configure Citrix Receiver using Google policy. For more information, see [CTX141844](#).
- You can repackage Citrix Receiver for Chrome to include a Citrix Receiver configuration (.cr) file you have generated. The .cr file contains the connection details for NetScaler Gateway and the Citrix Receiver for Web site providing users' desktops and applications. Users browse to chrome://extensions and then drag and drop the repackaged application (.crx) file onto the Chrome window to install Citrix Receiver for Chrome. As the application is preconfigured, users can start working with Citrix Receiver for Chrome as soon as they have installed it without needing to perform additional configuration steps.

You can deliver your custom Citrix Receiver for Chrome application to users in the following ways.

- Publish the repackaged application for users through Google Apps for Business using the Google Admin Console.
- Provide the .crx file to users by other means, such as through email.
- Users install Citrix Receiver for Chrome from the Chrome Web Store by searching for Citrix Receiver and clicking Add to Chrome.

Once installed, Citrix Receiver for Chrome must be configured with connection details for NetScaler Gateway and the Citrix Receiver for Web site providing users' desktops and applications. This can be achieved in two ways.

- Generate a .cr file containing the appropriate connection details and distribute this file to users. To configure Citrix Receiver for Chrome, users double-click the .cr file and click Add when prompted. For more information about generating .cr files from StoreFront, see [Export store provisioning files for users](#).
- Provide users with the URL they must enter manually when they first start Citrix Receiver for Chrome.

To repackage Citrix Receiver for Chrome

To simplify the deployment process for users, you can repackage Citrix Receiver for Chrome with a new .cr file to preconfigure Citrix Receiver for Chrome with the appropriate connection details for your environment. Users can start working with Citrix Receiver for Chrome as soon as they have installed it without needing to perform any additional configuration steps.

1. Download the unpackaged version of Citrix Receiver for Chrome to a suitable location.
2. Download the sample configuration file and modify it as appropriate for your environment.
3. Rename the modified configuration file to default.cr and copy it to the Citrix Receiver for Chrome root directory. Configuration files with different names or in other locations are not included when Citrix Receiver for Chrome is repackaged.
4. If you want to enable the in-session toolbar that lets users send the CTRL+ALT+DELETE key combination to their desktops and applications, complete the following steps.
 1. Use a text editor to open the configuration.js file in the Citrix Receiver for Chrome root directory.
 2. Locate the following section in the file.

```
'appPrefs': {  
  'chromeApp': {  
    'ui' : {  
      'toolbar' : {
```

```
'menubar':false,  
'clipboard': false
```

3. Change the setting for the menubar attribute to true.

When you enable the in-session toolbar in this way, it is not necessary to enable the toolbar in the Receiver for Citrix Web site configuration file.

5. If you want to suppress First Time User experience (ftu), set 'ftu':true. This enables the administrator to suppress and package it. For example:

```
"hide": {  
  
    "ftu" : false  
  
}
```

6. By default Citrix Receiver for Chrome can open any file extension in the Files App in a Chromebook intended for opening files in Google Drive using the FileAccess component in the VDA. If an administrator wants to disable this option to download the unpackaged version of Citrix Receiver for Chrome and edit the "file handlers" section in manifest.json to resemble the following:

```
"file handlers" : {  
  "text" :  
    "extensions" : [  
      "ica",  
      "cr"  
    ]  
}
```

7. In Chrome, browse to `chrome://extensions`, select the **Developer mode** check box in the top right corner of the page and then click the **Pack extension** button.

For security reasons, StoreFront only accepts connections from known Citrix Receiver for Chrome instances. You must whitelist your repackaged application to enable users to connect to a Citrix Receiver for Web site.

```
hide":{
```

8. On the StoreFront server, use a text editor to open the web.config file for the Citrix Receiver for Web site, which is typically located in the `C:\inetpub\wwwroot\Citrix\storenameWeb` directory, where *storename* is the name specified for the store when it was created.
9. Locate the following element in the file.
`<html5 ... chromeAppOrigins="chrome-extension://haiffjcadagjlijoggckpgfnoeiflnem" ... />`
10. **Change the value of the chromeAppOrigins attribute to** `chrome-extension://haiffjcadagjlijoggckpgfnoeiflnem|chrome-extension://packageid`, where **packageid** is the ID generated for your repackaged application.

Configuring your environment

Jan 17, 2017

To enable Citrix Receiver for Chrome users to access resources hosted on XenDesktop and XenApp, you must create a StoreFront store. You must also enable WebSocket connections on NetScaler Gateway, XenApp, and XenDesktop, as required.

Also in this article:

[Enabling direct connections to XenDesktop and XenApp](#)

[Enabling Google Cloud printing and the Citrix Universal Print Driver](#)

[Enabling app switching for session sharing](#)

[Enabling and disabling access to Google Drive](#)

[Enabling and configuring KIOSK mode](#)

Enabling direct connections to XenDesktop and XenApp

Citrix Receiver for Chrome uses the WebSocket protocol to access virtual desktops and hosted applications. By default, WebSocket connections are prohibited on XenDesktop and XenApp. If you plan to enable users to access desktops and applications from the local network without connecting through NetScaler Gateway, you must allow WebSocket connections on XenDesktop and XenApp.

WebSocket connections are also disabled by default on NetScaler Gateway. For remote users accessing their desktops and applications through NetScaler Gateway, you must create an HTTP profile with WebSocket connections enabled and either bind this to the NetScaler Gateway virtual server or apply the profile globally. For more information about creating HTTP profiles, see [HTTP Configurations](#).

Important

If you are using SecureICA to encrypt communications between users' devices and your XenDesktop or XenApp servers, note that Citrix Receiver for Chrome supports Basic encryption only.

Enabling Google Cloud printing and the Citrix Universal Print Driver

The Citrix PDF Universal Printer driver enables users to print documents opened with hosted applications or applications running on virtual desktops delivered by XenDesktop 7.6 and XenApp 7.6. When a user selects the Citrix PDF Printer option, the driver converts the file to PDF and transfers the PDF to the local device. The PDF is then opened in a new window for viewing and printing through Google Cloud Print.

Requirements

To access the Citrix Receiver for Chrome download page, you need a MyCitrix account.

Download the Citrix PDF Printer from the [Citrix Receiver for Chrome download page](#).

To enable users to print documents opened with hosted applications or applications

1. Download the Citrix PDF Printer and install the Citrix PDF Universal Printer driver on each machine providing desktops or applications for Receiver for Chrome users. After installing the printer driver, restart the machine.
2. In Citrix Studio, select the Policy node in the left pane and either create a new policy or edit an existing policy. For more information about configuring XenDesktop and XenApp policies, see [Citrix policies](#).
3. Set the Auto-create PDF Universal Printer policy setting to Enabled.

Enabling app switching for session sharing

App Switcher enables your users to switch between multiple applications running in the same session. When session sharing is enabled on XenApp, which it is by default, applications opened within the same session appear in the same window. App Switcher provides a taskbar running within the session that displays all the applications currently running in the session, enabling users to switch between them.

Requirements

To access the Citrix Receiver for Chrome download page, you need a MyCitrix account.

Download the App Switcher from the [Citrix Receiver for Chrome download page](#).

To enable app switching in shared sessions

1. Ensure that .NET Framework 4.5 is installed and enabled on your XenApp and XenDesktop servers.
2. Install App Switcher on each server providing applications for Citrix Receiver for Chrome users.

The App Switcher is configured to run automatically in the background when your users establish a session.

Enabling and disabling access to Google Drive

With Google drive support your users can open Windows file types, edit them, and save them from a Chrome device running Citrix Receiver. While running a Google Chrome device, your users can seamlessly use existing Windows-based applications (for example, Microsoft Word) and access the files residing on Google Drive

For example, if one of your users opens a file in Google Drive (for instance, an .DOC file attachment downloaded from Gmail), edits it, and saves it to Google Drive, the file can be accessed in a XenApp hosted application. The file can be viewed, edited, and saved to Google Drive.

Requirements

To access the Citrix download pages, you need a MyCitrix account.

To enable Google Drive access you must install the Citrix File Access component (FileAccess.exe) on your users' VDAs and enable file type associations in Citrix Studio. You download Citrix File Access from the [Citrix Receiver for Chrome download page](#).

To enable Google Drive access from Citrix Receiver

1. Install FileAccess.exe on each XenApp/XenDesktop VDA.
2. Configure the appropriate FTAs for published applications in Citrix AppCenter/Desktop studio.
3. On the XenApp/XenDesktop VDA <https://accounts.google.com> and <https://ssl.gstatic.com> have to be trusted and cookies from these sites should be enabled.

Only files from Google drive (only 'My Drive' folder) can be opened using Citrix receiver. To open a file from google drive, right click on the file, and open with Citrix Receiver.

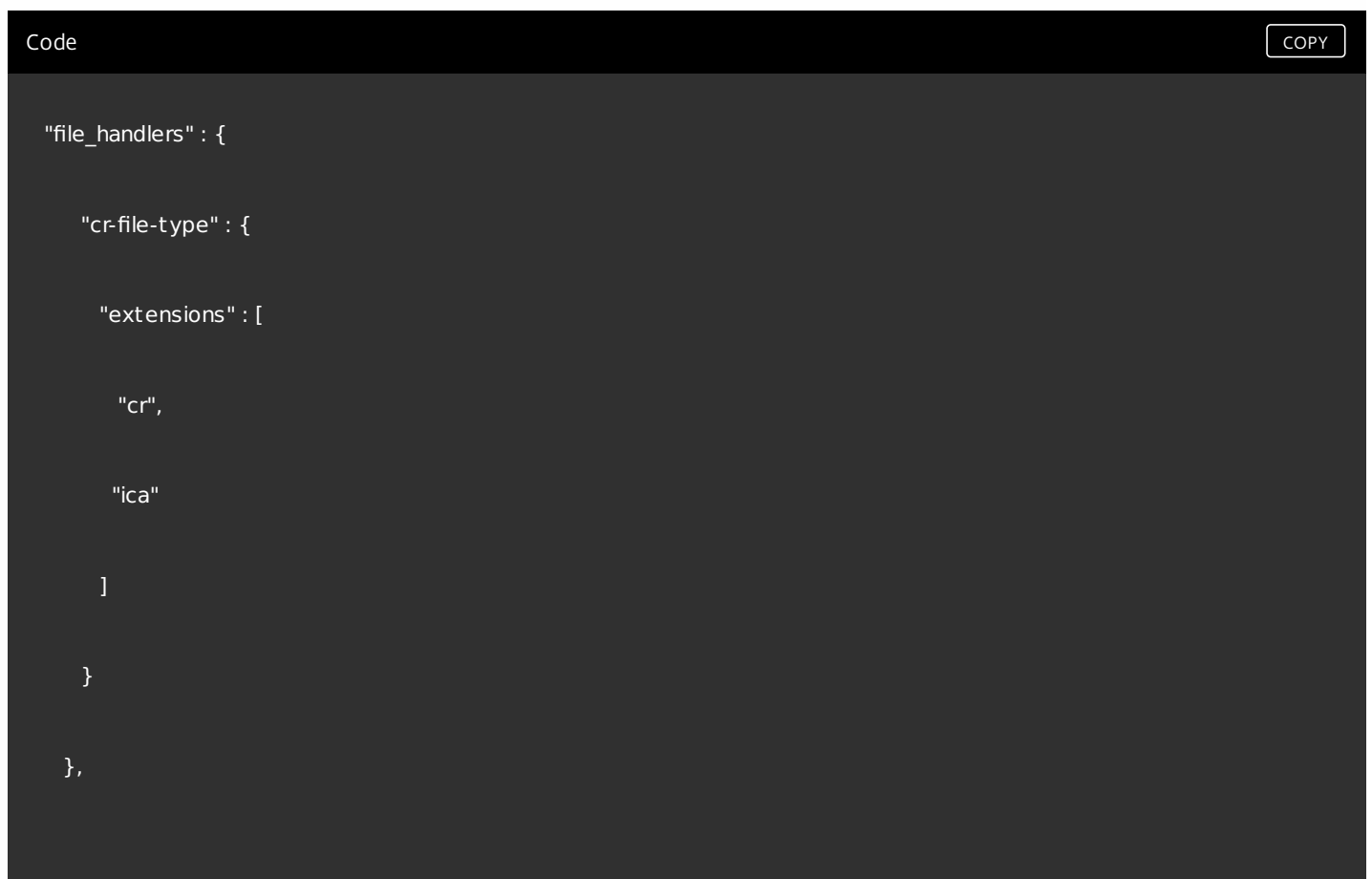
Citrix recommends that you associate one File Type with only one published application.

To disable Google Drive access from Citrix Receiver

In the manifest.json file, replace:

```
"file_handlers" : {  
  "all-file-types" : {  
    "extensions" : [  
      "*" ]  
    }  
  },  
}
```

with:

A code editor window with a dark background. The title bar is black with the word "Code" on the left and a "COPY" button on the right. The code is white text on a dark background, showing the updated JSON configuration for file handlers.

```
Code COPY  
  
"file_handlers" : {  
  
  "cr-file-type" : {  
  
    "extensions" : [  
  
      "cr",  
  
      "ica"  
  
    ]  
  
  }  
  
},
```

Enabling and configuring KIOSK mode

Citrix Receiver for Chrome KIOSK mode provides the ability to run all apps in the same window. Using this feature, you can run Citrix Receiver apps in KIOSK mode, and then launch any Windows app or Desktop using the same mode. In addition, KIOSK mode allows you to publish remote apps or desktops as a dedicated Chrome package using a persistent URL.

You can control this feature set by adjusting the KIOSK settings in the Chrome admin panel for managed Chrome devices.

Refer to the [Google support site](#) for instructions on enabling the Receiver app to run in KIOSK mode on managed and non-managed Chrome devices.

If you are deploying a Receiver app, you should publish using the visibility options set to Public/unlisted to ensure interoperability with KIOSK mode. [Go to the Chrome Web Store Developer Dashboard](#).

The Store URL is read-only when KIOSK mode is active, and cannot be edited using the Account settings screen. However, you can change this setting by either repackaging the app with the .cr file or through Google Policy Management using the Google Admin Console.

```
.cr file example COPY

<Services version="1.0">

<Service>

<rfWeb>http://your_RfWebURL_or_persistenturl</rfWeb>

<Name>Mystore</Name>

<Gateways>

<Gateway>

<Location>https://yourcompany.gateway.com</Location>

</Gateway>

</Gateways>

<Beacons>

<Internal>

<Beacon>http://yourcompany.internalwebsite.net</Beacon>

</Internal>
```

```
<External>

<Beacon>http://www.yourcompany.externalwebsite.com</Beacon>

</External>

</Beacons>

</Service>

</Services>
```

If you are using the Google Admin Console, edit the policy.txt file containing the Receiver configuration. Replace the value of "url" under "rf_web" with a persistent URL.

example

COPY

```
{

"settings": {

"Value": {

"settings_version": "1.0",

"store_settings": {

"beacons": {

"external": [

{

"url": "http://www.yourcompany.externalwebsite.com"

}

}

}

}
```

```
,  
  
"internal": [  
  
  {  
  
    "url": "http://yourcompany.internalwebsite.net"  
  
  }  
  
],  
  
  },  
  
  "gateways": [  
  
    {  
  
      "is_default": true,  
  
      "url": "https://yourcompany.gateway.com"  
  
    }  
  
  ],  
  
  "name": "mystore",  
  
  "rf_web": {  
  
    "url": " http://your_RfWebURL_or_persistenturl "  
  
  }  
  
  }  
  
  }  
  
  }  
  
  }
```

```
}
```

System requirements

Aug 01, 2016

User device requirements

All devices should meet the minimum hardware requirements for the installed operating system.

Users devices require the Google Chrome operating system (version 37 or later) to access desktops and applications using Citrix Receiver for Chrome. Citrix recommends that you use Citrix Receiver for Chrome with releases from the stable channel of Google Chrome. Citrix Receiver for Chrome is only supported on Chrome OS.

Citrix server requirements

Citrix Receiver for Chrome supports access to desktops and applications through the following versions of StoreFront. Stores must be accessed through Citrix Receiver for Web sites. Citrix Receiver for Chrome does not support direct access to StoreFront stores, either using the store URL or the XenApp Services URL.

- StoreFront 3.5
- StoreFront 3.0
- StoreFront 2.5
- Web Interface 5.4

When users connect through NetScaler Gateway, they can use Citrix Receiver for Chrome to access desktops and applications delivered by all the versions of XenDesktop and XenApp that are supported by StoreFront.

For direct connections through StoreFront without NetScaler Gateway, use Citrix Receiver for Chrome to access desktops and applications delivered by the following product versions.

- XenDesktop
 - XenDesktop 7.8
 - XenDesktop 7.6
 - XenDesktop 7.5
 - XenDesktop 7.1
- XenApp
 - XenApp 7.8
 - XenApp 7.6
 - XenApp 6.5 with Hotfix Rollup Pack 3 or later and the Group Policy Management 1.7 update

Secure user connections

In a production environment, Citrix recommends securing communications between Receiver for Web sites and users' devices with NetScaler Gateway and HTTPS. Citrix recommends using SSL certificates with a key size of at least 1024 bits throughout the environment in which Citrix Receiver for Chrome is deployed. Citrix Receiver for Chrome enables user access to desktops and applications from public networks with the following versions of NetScaler Gateway.

- NetScaler Gateway 11.0
- NetScaler Gateway 10.5
- NetScaler Gateway 10.1

Citrix Receiver for Chrome now supports CloudBridge disabling compression and printer compression as well as using HDX

Insight analytics to display in CloudBridge Insight Center.

- CloudBridge 7.3.1