



# CopySafe and the ArtisBrowser

## Preparing Web pages for the ArtisBrowser

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### About ArtisBrowser

The ArtistScope Site Protection System (ASPS) is basically comprised of two (2) components to provide an encrypted stream for html from web server to web client. Server-side an ASPS server (running the ArtisFilter) encrypts web pages and on the client end the ArtisBrowser is used to decrypt and display ASPS web pages providing a secure tunnel and the most effective copy protection for web pages on the planet.

### ArtisBrowser Features

By requiring use of the ASPS browser be used all avenues of exploit are secured:

- No-nonsense browser plug-in support without annoying prompts.
- JavaScript and CopySafe plug-ins cannot be disabled.
- Nothing can be retrieved from browser cache.
- No view of a page's source code is possible.
- No right-click menus for copy, save or print.
- Add-ons cannot be installed to spoof identity or pirate media.

To ensure that your protected content remains secure it is strongly recommended to prevent access to your protected pages (including linked menus and indexes) from all other web browsers. See the section on ArtisBrowser Browser Detection.

When using the ArtisBrowser with unencrypted web pages the only remaining exploit is packet sniffing which can be prevented by using either SSL. ASPS Server requires a dedicated/virtual server for the rights to install software at system level. Otherwise securing your site links with SSL (https) may suffice.

### Browser Support for CopySafe

Normally CopySafe PDF, CopySafe Video and CopySafe Web detect browser version and display object tags for NPAPI plug-ins. These plugins used to work in all web browsers, but since 2015 they all dropped support for NPAPI in preference for PPAPI which is simply based on HTML and JavaScript for mobile phones. Consequently, none of the popular web browsers can support real copy protection because PPAPI plugins are useless for actioning at system level.

But ArtisBrowser does support NPAPI and is now the only web browser capable of supporting real copy protection. By limiting access to protected web pages they are now very much more secure, because now they can be accessed by a web browser that was properly designed to protect web content and not steal it.

While the object tags differ between CopySafe PDF, CopySafe Video and CopySafe Web, the code used to detect the ArtisBrowser can be the same. See below for generic examples. If using a CMS like DNN, Drupal, Joomla, Moodle or WordPress the add-on modules for CopySafe PDF, CopySafe Video and CopySafe Web will already include everything that you need.

## CopySafe PDF Object Tag

To display CopySafe PDF encrypted files for ArtisBrowser you can hard-code the object tag for each PDF document or use this code as a template to populate dynamically:

```
<object id='csviewer' type='application/x-artistscope-pdfreader5' codebase='download.html'
width='600' height='750' style='z-index:3;'>
    <param name='Document' value='myDocument.class' />
    <param name='PrintsAllowed' value='0' />
    <param name='PrintAnywhere' value='0' />
    <param name='AllowCapture' value='0' />
    <param name='AllowRemote' value='0' />
    <param name='Language' value='' />
    <param name='Background' value='EEEEEE' />
</object />
```

See the CopySafe PDF Protector user-guide for more detail.

## CopySafe Video Object Tag

To display CopySafe Video encrypted videos for the ArtisBrowser you can hard-code the object tag for each ivideo or use this code as a template to populate dynamically:

```
<object type='application/x-artistscope-pdfreader5' codebase='/artis-plugins/download-asps.html'
width='600' height='800'>
    <param name='Document' value='temp/84oranges.class' />
    <param name='PrintsAllowed' value='1' />
    <param name='PrintAnywhere' value='0' />
    <param name='AllowCapture' value='0' />
    <param name='AllowRemote' value='1' />
    <param name='Background' value='#FFFFFF' />
</object />
```

See the CopySafe Video Encoder user-guide for more detail.

## CopySafe Web Object Tag

To display CopySafe Web encrypted images for the ArtisBrowser you can hard-code the object tag for each image or use this code as a template to populate dynamically:

```
<object type='application/x-artistscope-firefox5' codebase=' /plugins/download_fx.asp'
width='550' height='366'>
  <param name='KeySafe' value='1' />
  <param name='CaptureSafe' value='1' />
  <param name='MenuSafe' value='1' />
  <param name='RemoteSafe' value='0' />
  <param name='Style' value='ImageLink' />
  <param name='TextColor' value='#FFFFFF' />
  <param name='BorderColor' value='#000000' />
  <param name='Border' value='0' />
  <param name='Loading' value='Image loading...' />
  <param name='Label' value='CopySafe' />
  <param name='Link' value='' />
  <param name='TargetFrame' value='_top' />
  <param name='Message' value='Message...' />
  <param name='FrameDelay' value='2000' />
  <param name='FrameCount' value='1' />
  <param name='Frame000' value='myImage.class' />
</object />
```

Note: RemoteSafe is no longer supported in CopySafe Web as it can cause crashes. See the CopySafe Web Converter user-guide for more detail.

## ArtisBrowser Browser Detection

As well as the usual user-agent string, the ArtisBrowser provides additional server variables that can be queried to ensure that a visitor is not browser-spoofing. The ArtisBrowser's user-agent is:

Mozilla/5.0 (Windows NT 6.1; WOW64; rv:52.9) ArtisReader/x.x.x ArtisBrowser/x.x.x

These additional server variables can be found in the request header:

- **HTTP\_ARTISDRM** gives the client machine id for use in DRM. This number is unique to each computer and can be used to verify a user's identity by comparing to your user database.
- **HTTP\_ARTISDATE** gives the date on the client computer in YYYYMMDD format – for checking if the client date is so different from the server date that someone has rolled their clock back to bypass expiries and usage restrictions.
- **HTTP\_ARTISWIDTH** gives the user's screen width in pixels.
- **HTTP\_ARTISHEIGHT** gives the user's screen height in pixels.

Getting other server variables using ASP:

```
strCheckReferrer = Request.ServerVariables("HTTP_REFERER")
strCheckIPnumber = Request.ServerVariables("REMOTE_ADDR")
strServer = Request.ServerVariables("SERVER_NAME")
strUrl = Request.ServerVariables("URL")
strUserLanguage = Lcase(request.servervariables("HTTP_ACCEPT_LANGUAGE"))
```

Getting other server variables using PHP:

```
$checkreferrer = $_SERVER['HTTP_REFERER'];
$checkipnumber = $_SERVER['REMOTE_ADDR'];
$server = $_SERVER['SERVER_NAME'];
$url = $_SERVER['QUERY_STRING'];
$userlanguage = $_SERVER['HTTP_ACCEPT_LANGUAGE'];
```

Detecting User-agent using JavaScript:

```
<script type="text/javascript">
    var m_szAgent = navigator.userAgent.toLowerCase();
    var m_bArtis = (m_szAgent.indexOf("artisreader/2")!=-1);
</script>
```

When the ASPS web browser loads this script m\_bArtis will be true.

Detect User-agent using PHP:

```
if(strpos(strtolower($_SERVER["HTTP_USER_AGENT"]), "artisreader/2") {
    // do something
} else {
    // redirect
}
```

## Controlling Window Size

Each page can be set to display specifically to settings that you can include in your meta-tags like:

<code>&lt;meta name="artis-width" value="800" /&gt;</code>	set width in pixels
<code>&lt;meta name="artis-height" value="600" /&gt;</code>	set height in pixels

or...

`<meta name="artis-kioskmode" value="true" />` open fullscreen (without toolbar)

Note: that setting the windows size is not necessary if you want to leave it to the user's preference as any window opening from a previous window will maintain the same window size. So you only need to add these size tags on windows that you do want to be a specific size.

To move from a normal window to 'Kiosk Mode' which uses fullscreen without a toolbar, you only need to set the size tag on the pages to be displayed at fullscreen. So them to return from full screen to a smaller window, simply link to a page that has tags for the new window size.

NOTE: that the active window will govern the size setting for all tabs, but only on first load. Swapping between different tabs will not change the size once it is set by a new window/tab.

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