



Flash Access 2.0 Quick-Start Guide (rev 1.5)

Introduction

This document outlines the steps for a quick setup and deployment of a Flash Access ecosystem utilizing Progressive Download to distribute content, and the Flash Access Server for Protected Streaming for license distribution. All of the steps below are described in further detail in the Flash Access Protecting Content document located at http://help.adobe.com/en_US/flashaccess/2.0/protecting_content.pdf.

The Flash Access Server for Protected Streaming is a minimal-functionality server that does not include source code. For a modifiable server with full Java source, please refer to “Using the Reference Implementation” in the Protecting Content documentation. The setup of this Reference License server would replace Step #4 below.

1. Prerequisites

- 1.1 Two Computers (Windows or Linux). 1 computer will act as License Server, 1 will be Content Server
- 1.2 Tomcat 6.0.18 installed on both machines
- 1.3 Java 1.6 installed on both machines

2. Obtain certificates

- 2.1 After the SDK software has been delivered, an invitation to complete the Flash Access Certificate Enrollment registration process will be sent to the designated Company Certificate Administrator. Please refer to The Flash Access Certificate Enrollment Guide at http://www.adobe.com/go/learn_flashaccess_certificate_2 for more details.
- 2.2 The Administrator will need to appoint at least one individual to act as the Certificate Requester
- 2.3 The Requester generates a private key and CSR, and submits a certificate request.
- 2.4 The Company Admin approves the request.
- 2.5 The Adobe Certificate Admin confirms the submission.
- 2.6 The Requester receives the certificate, binds the certificate with the private key and deploys it as described in Step 4.
- 2.7 Steps 2.3 – 2.6 must be completed for each certificate type. For the Flash Access Production version the Requester must make separate requests for the License Server, Packaging and Transport certificates (valid for two years). Customers using the Flash Access Evaluation or Trial versions only need to require a single certificate (valid for 1 year/90 days respectively).

3. Install Tomcat on both servers

- 3.1 Install Tomcat from <FlashAccessDVD>\Third Party\Tomcat\6.0.18\

***Make sure Tomcat is installed to a location where there are no spaces in the path. "c:\Tomcat\" is ok.
"c:\Program Files\Tomcat" is NOT ok.

3.2 Launch Tomcat: "<TomcatInstallDir>\bin\catalina.bat run"

3.3 Verify installation by checking for the Tomcat landing page at: <http://<Hostname>:8080/>

3.4 Create a crossdomain.xml file and place into <TomcatInstallDir>\webapps\ROOT\ directory. As a reference, one can be copied from <http://drmtest.adobe.com/crossdomain.xml>

4. Setup & deploy Flash Access Server for Protected Streaming (License Server)

4.1 Setup configuration folder (<FlashAccessDVD>\Flash Access Server for Protected Streaming\configs\)

- Copy the sample "configs" folder to <TomcatInstallDir> and rename the copied folder to "licenseserver". The path to the configs folder should now be: <TomcatInstallDir>\licenseserver\.

- Copy over the jsafe.dll file (or libjsafe.so for Linux) located under <FlashAccessDVD>\Flash Access Server for Protected Streaming\thirdparty\ into a folder that is present in the system PATH environment variable (LD_LIBRARY_PATH in Linux). This DLL must exist in the system PATH environment variable.

- Run Scrambler.bat to obtain encrypted passwords for transport and license server PFX files, located at <FlashAccessDVD>\Flash Access Server for Protected Streaming\

 - Scrambler.bat <Adobe-provided transport credential password>

 - Scrambler.bat <Adobe-provided license server credential password>

- Copy the license server and transport credentials (PFX files) to <TomcatInstallDir>\licenseserver\flashaccessserver\tenants\\

- Edit corresponding tenant configuration under the configuration folder hierarchy (<TomcatInstallDir>\licenseserver\flashaccessserver\tenants\samplenenant\flashaccess-tenant.xml), with these minimal settings:

 - Configuration|Tenant|Credentials|TransportCredential|File|path=<filename-transport-credential-PFX>

 - Configuration|Tenant|Credentials|TransportCredential|File|password=<scrambled-transport-credential-password>

 - Configuration|Tenant|Credentials|LicenseServerCredential|File|path=<filename-license-server-credential-PFX>

 - Configuration|Tenant|Credentials|LicenseServerCredential|File|password=<scrambled-license-server-credential-password>

4.2 Run Validator.bat utility to verify configuration is valid:

- Validator.bat -g -r <absolute-path-to TomcatInstallDir\licenseserver>

4.3 Copy the flashaccessserver.war file from the CD into <TomcatInstallDir>\webapps\

4.4 (If Tomcat is running) Stop previous tomcat instance by pressing <CTRL-C> in the command window

4.5 Start Tomcat: "<TomcatInstallDir>\bin\catalina run"

4.6 Verify setup by checking: <http://<LicenseServer>:8080/flashaccessserver/flashaccess/license/v1>

4.7 For more information, see Section 8 (Using the Flash Access Server for Protected Streaming) in the "Protecting Content" PDF document

5. Setup & deploy Flash Access Manager (Content/Packager Server)

5.1 Copy <FlashAccessDVD>\Reference Implementation\Server\resources\ directory to the local filesystem, and add "flashaccess-refimpl-package.properties" to the CLASSPATH, such as <tomcat>\lib\

5.2 Copy the Adobe-issued certificates (from Step 2) to the "resources" directory copied in step 5.1

5.3 Copy <FlashAccessDVD>\Reference Implementation\Server\flashaccess-packager.war to <TomcatInstallDir>\webapps\

5.4 Make sure the most recent version of AIR is installed: <http://get.adobe.com/air/>

5.5 Install the Flash Access Manager from <FlashAccessDVD>\Reference Implementation\UI Tools\Flash Access Manager\FlashAccessManager.air

5.6 Launch the Manager. It will auto-connect to your Flash Access Packager Manager (flashaccess-packager.war) at <http://localhost:8080>, and will auto-populate various fields of the “Preferences” tab

5.7 Update the various necessary properties under the “Preferences” tab

- License Server URL: <http://<LicenseServerHostname>:8080/flashaccessserver/sampletenant>
- Resource Directory: Path to your “resources” directory copied in Step 5.2
- License Server Transport Certificate: Certificate usually ending with .pem or .der
- License Server Certificate: Certificate usually ending with .pem or .der
- Packager Credential Filename & Password: Certificate ending with .pfx (do not scramble passwords)

5.9 Click “save”

5.10 For additional information on the Flash Access Manager utility, see “Adobe Flash Access Manager AIR application usage” in the “Protecting Content” PDF document

6. Package content (Content/Packager Server)

6.1 Open Flash Access Manager & navigate to “Package Media” tab

6.2 In the drop-down list next to “Policy File Name(s)”, select “ad-policy.pol” (which represents the free, ad-supported, business model).

6.3 Select either the “Single File” or “Single Folder” button and populate the input/output fields with the path to the desired test media.

- Note: Although the Flash Access Manager can be launched from any machine, and remotely connect to the packaging server, only the machine hosting the packaging server (flashaccess-packager.war) can package content. Ensure the video(s) to be packaged are on that machine’s local file system, and that the paths entered into the Flash Access Manager are local to that server.

6.4 Select the “Package Media” button

6.5 If a packaged content is not generated, check the logfile for errors at <ContentServer-TomcatInstallDir>\logs\AdobeFlashAccess.log

6.6 Copy all of your encrypted file artifacts (*.metadta, *.header, *.flv, *.f4v) to <ContentServer-TomcatInstallDir>\webapps\ROOT\content\

7. Install Flash Player and playback test content (Client)

7.1 Install Flash Player from <http://get.adobe.com/flashplayer/>

7.2 Verify Flash Player installation by loading video player and playing the pre-populated default video: http://drmtest.adobe.com/SVP/SampleVideoPlayer_FP.html

8. Deploy video player locally (Client)

8.1 Copy contents of <FlashAccessDVD>\Reference Implementation\Sample Video Players\Flash Player\Release\ to <ContentServer-TomcatInstallDir>\webapps\ROOT\player\

9. Playback locally packaged video (Client)

9.1 Open player in a browser: http://<ContentServer>:8080/player/SampleVideoPlayer_FP.html

9.2 Verify baseline functionality by playing Adobe-packaged sample video: <http://drmtest.adobe.com/content/anonymous.f4v>

9.3 Verify local Flash Access ecosystem by playing locally packaged video, which is using the local license server, on a locally hosted video player.

- Open local video player (step .1)
- Play following video: <http://<ContentServer>:8080/content/<yourPackagedVideo.flv>>

***Next steps**

1. Improve robustness by using a Hardware Security Module (HSM)
2. Set up a Reference License Server and view/modify its source code to suit your business requirements
 - “Protecting Content” PDF, Section 9 (License Server and watched folder packager)
3. Use Flash Media Server (FMS) for content streaming
 - <http://www.adobe.com/products/flashmediaserver/>
4. Use Adobe Open Screen Media Framework to create Flash Access-enabled video player for a more engaging user experience
 - <http://www.osmf.com/>