MICRO FOCUS®

Media Management and Analysis Platform

Software Version: 11.6

Installation Guide

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Chapter 1: Introduction

This section provides an overview of the Micro Focus Media Management and Analysis Platform (MMAP).

Media Management and Analysis Platform (MMAP)

The Media Management and Analysis Platform (MMAP) is a media analytics platform designed for viewing, searching, and analyzing video footage from a variety of sources, typically CCTV surveillance camera footage and broadcast footage from IP streams.

MMAP offers source management features, where you can organize cameras or TV channels in folders and sub-folders. You can record and view video footage from any supported source at a later point.

Clients use a rich set of REST APIs to access and modify source, recorder, and video stream information. You can then view live and archive video streams from a web browser, with advanced playback capabilities such as fast forward, fast rewind, live pause, and fast seeking.

MMAP combines these video stream viewing capabilities with the video analytics capabilities of IDOL Video, where you can create events based on object detection and scene analysis. You can retrieve these events by using the REST API, and you can view the associated video footage in a web browser.

You can analyze video that contains audio (for example, broadcast footage), and extract audio transcripts. You can then use the Optical Character Recognition (OCR), face recognition, and Automatic Number Plate Recognition (ANPR) features of IDOL Video to further enhance the information extracted from the footage.

The purpose of the Media Management and Analysis Platform is to provide a standard interface for these tasks, regardless of the components that you use. You might use an IDOL Media Server to perform all of these tasks, or your system might ingest video through Video Input Server (VIS) or Wittwin ACI Server; these are legacy products superseded by the IDOL Media Server, but still supported by MMAP.

IDOL Media Server

IDOL Media Server can ingest video from files and IP streams. Many devices (such as IP cameras, network encoders, and IPTV devices) can produce IP streams. Media Server can also request video from third-party video management systems, such as Milestone XProtect. Media Server provides automatic processing that reduces the operator's workload and can help them respond to suspicious events.

Media Server can run many types of analysis, including:

- Automatic Number Plate Recognition (ANPR)
- Barcode recognition
- Color analysis
- Face detection, recognition, demographic, and expression analysis
- Intelligent scene analysis
- Keyframe analysis
- Object detection

- Object classification
- Optical Character Recognition (OCR)
- Speaker identification
- Speech-to-text
- Vehicle Model identification

Media Server can encode the video that it ingests, so that operators can review suspicious events at a later time and video is available to prosecute offenders. Media Server can output the metadata that it extracts to many formats and systems, including:

- IDOL Server
- Vertica
- XML

For more information about IDOL Media Server, refer to the *Media Server Administration Guide*.

Video Input Service

The Video Input Service (VIS) ingests video from cameras, encoders, video streams, and files. It then makes the video available to other applications, such as Micro Focus Surveillance analytics.

VIS is a legacy product; it has been superseded by IDOL Media Server.

Wittwin ACI Server

Wittwin ACI Server records and streams video. It receives compressed video, audio, and metadata from Video Input Service. Wittwin ACI Server can simultaneously write the video to a rolling buffer (a storage area on disk), and stream both the live input and recorded data to other applications. In response to requests from other applications, Wittwin ACI Server can save video from the rolling buffer to a file, and stream this content.

Wittwin ACI Server is a legacy product; it has been superseded by IDOL Media Server.

The MMAP REST API

The Media Management and Analysis Platform includes a REST API that can be used to:

- Manage video sources (for example, cameras and channels), organized in a hierarchical tree structure
- Manage video recorders, by assigning recorders to video sources
- Store custom metadata associated with the sources or recorders (for example, camera model and manufacturer)
- Play back archive and live footage by using HTTP Live Streaming (HLS) or Real Time Streaming Protocol (RTSP), and pause live content
- Start and stop recording on demand
- View video streams with varying speed (fast or slow), forwards or backwards

- Extract frames from video and save them as images

- Generate video clips from archive footage

- Use the Micro Focus Media Player browser plugin to watch video in the Google Chrome and Internet Explorer web browsers. Alternately, the Micro Focus Media Element can use the browser's own native HTML5 player for MIME types that it understands

Micro Focus Media Player

MMAP includes the Micro Focus Media Player component that allows for live and archive video of the managed sources in the system.

The Media Player consists of a browser plugin for Google Chrome that allows for playback of video within the browser, as well as AngularJS directives which you can use to embed the player (with custom drawn playback controls) into a HTML5 page.

The AngularJS directives use the Media Element internally, which is a JavaScript wrapper that mimics the HTML 5 MediaElement API. This means that to use the Media Player, you can write normal HTML 5 `<video>` elements, and depending on the MIME type of the source, it will display the correct player.

The Media Player supports the following types of content:

- **Content natively supported by browser's HTML 5 player.** The Media Element uses the browser's own native player for MIME types that the browser's own native player understands. Media Element acts as a polyfill around the native media element, to add functionality such as switching the Media Element implement when changing source.

- **Live and archive RTSP streams generated by the legacy Wittwin ACI Server**. You need a separate installer (the Virage Media Player) to play back content generated by Wittwin ACI Server using the Media Player.

- **Live and Archive HLS streams generated by IDOL Media Server.** Media Player uses Google Native Client for its playback functionality. No additional download and installation process is required to use the player in any Google Chrome supported webpage when playing HLS streams generated by IDOL Media Server.

Media Player Supported Browsers

The Micro Focus Media Player is supported on the following browsers:

- Internet Explorer 10 - supports only legacy Wittwin streams and any video stream that the browser native player supports. Does not support HLS playback.

- Google Chrome - supports only HLS playback and any video stream that the browser native player supports. Does not support legacy Wittwin streams.

Chapter 2: Install Media Management and Analysis Platform

This section describes how to install the Media Management and Analysis Platform (MMAP).

System Requirements

This section describes the system requirements for the Media Management and Analysis Platform. The Media Management and Analysis Platform must be hosted by:

- A JBoss enterprise application server (JBoss EAP 6.2.0).
- A fully compliant Java 7 or later Runtime Environment.

> **NOTE:**
> Check the Red Hat JBoss EAP documentation for information on supported versions of Java Runtime for JBoss EAP 6.2.0.

Dependencies

This section describes the dependencies for the Media Management and Analysis Platform:

- IDOL Media Server version 11.6. MMAP 11.6 is not compatible with earlier versions of IDOL Media Server.
- (Optional) IDOL Speech Server 11.3.0 or later is required for speech-to-text features. In general, Micro Focus recommends that you use the same version of IDOL Speech Server as IDOL Media Server.

Minimum Server Requirements

The minimum server requirements depend on many variables, such as the frequency of requests that Media Management and Analysis Platform must serve. The following are minimum requirements but there may be additional requirements. Micro Focus recommends that you refer to the documentation for JBoss EAP 6.2.0.

- 1.4 GHz dual-core processor
- 4 GB RAM
- 20 GB free disk space

Prerequisites

Before installing the Media Management and Analysis Platform, collect the following components. You must use the same versions as shown below:

- **Media Management and Analysis Platform**

File name:	`mmap-all-11.3.0.zip`
Download from:	Micro Focus Big Data Download Center - https://downloads.autonomy.com/

- **Java Runtime Environment (JRE)**

  A fully compliant Java 7 (or later) Runtime Environment is required.

  > **NOTE:**
  > Check the Red Hat JBoss EAP documentation for information on supported versions of Java Runtime for JBoss EAP 6.2.0.

Download from:	http://www.oracle.com/technetwork/java/javase/downloads

- **JBoss EAP 6.2.0 (exact version)**

  JBoss EAP is an enterprise application server that is used to host the Media Management and Analysis Platform.

File name:	`jboss-eap-6.2.0.zip`
Download from:	http://www.jboss.org/products/eap/overview/
MD5:	03ec01654cf4aee8c8e26313fae68c16

- **ModeShape 3.8.1.Final subsystem for EAP 6.2.0.GA** (exact version)

  ModeShape is a content repository that stores information for the Media Management and Analysis Platform.

File name:	`modeshape-3.8.1.Final-jbosseap-dist.zip`
Download from:	http://modeshape.jboss.org/downloads/downloads3-8-1-final.html
MD5:	67eec4695d4b30b8e8706dff01676f24

- **RestEasy JBoss Modules 3.0.5 (exact version)**

  RestEasy JBoss Modules provide features required to host the application's REST API.

File name:	`resteasy-jaxrs-3.0.5.Final-all.zip`
Download from:	http://sourceforge.net/projects/resteasy/files/Resteasy%20JAX-RS/3.0.5.Final/
MD5:	6b30e854b4c873ab117e348a1700c4a6

- Extract the following file from the `resteasy-jaxrs-3.0.5.Final-all.zip` archive for use in step 6 of the MMAP installation. See Install Media Management and Analysis Platform, below.

File name:	`resteasy-jboss-modules-3.0.5.Final.zip`
MD5:	467891e4e3f1c2bb92a981ecbc8c4e6a

Install Media Management and Analysis Platform

Extract the contents of the prerequisite archive files into the indicated directories.

To install MMAP

1. Install the Java 7 or later Runtime Environment.

   > **NOTE:**
   > Check the Red Hat JBoss EAP documentation for information on supported versions of Java Runtime for JBoss EAP 6.2.0.

2. Ensure that all IDOL Media Servers in the MMAP environment are running version 10.11 or later. Dependencies, on page 8

3. Create a directory path for the MMAP installation.

   Windows

   `x:\mmap`

   where `x:` is a volume letter.

   UNIX

   `/mmap`

4. Extract the JBoss EAP 6.2.0 archive (`jboss-eap-6.2.0.zip`) into the `/mmap` directory.

   This creates a directory named `jboss-eap-6.2`.

5. Extract ModeShape 3.8.1.Final archive (`modeshape-3.8.1.Final-jbosseap-dist.zip`) into the `/mmap/jboss-eap-6.2` directory.

   When prompted to allow the merging of directories and replacing of files, click **OK.**

6. Extract the RestEasy JBoss Modules 3.0.5 files to a temporary location.

   This creates a directory named `resteasy-jaxrs-3.0.5.Final`.

   a. Navigate to the `resteasy-jaxrs-3.0.5.Final` directory.

   This directory contains the RestEasy JBoss Modules 3.0.5 (`resteasy-jboss-modules-3.0.5.Final.zip`) archive file.

   b. Extract the RestEasy JBoss Modules 3.0.5 archive (`resteasy-jboss-modules-3.0.5.Final.zip`) into the `/mmap/jboss-eap-6.2/modules/system/layers/base` directory.

   When prompted to allow the merging of directories and replacing of files, click **OK**.

7. Extract the MMAP 11.3.0 archive (`mmap-all-11.3.0.zip`) into the `/mmap/jboss-eap-6.2`

directory.

When prompted to allow the merging of directories and replacing of files, click **OK.**

Configure a PostgreSQL Event Datastore

MMAP uses a database to store analytic events generated by Media Server (for example, transcription data). By default, MMAP is configured to use an embedded H2 database that can be used for initial testing purposes; however, you must install and configure a PostgreSQL event datastore for use in production systems.

Prerequisites

- **PostgreSQL**

  To use PostgreSQL for the event datastore, you must install the PostgreSQL for your platform. For installation instructions, see your PostgreSQL documentation.

  Download from: http://www.postgresql.org/

- **PostgreSQL JDBC driver**

  The PostgreSQL JDBC driver version binary JAR file must match the database server being used.

  Download from: https://jdbc.postgresql.org/download.html

Install PostgreSQL

Install the PostgreSQL database server for your platform. For more information, see your PostgreSQL documentation.

During installation and configuration of PostgreSQL, take note of the following items. These items are required later during configuration of MMAP to use the PostgreSQL server.

- Database name
- Host
- Port
- User name
- Password

Configure MMAP to use PostgreSQL

Configure MMAP to use PostgreSQL as its event datastore.

To configure MMAP to use PostgreSQL

1. In the `/mmap/jboss-eap-6.2` directory created in step 1 of Install Media Management and Analysis Platform, on page 10, navigate to the `modules/org` subdirectory.

2. In the `modules/org` directory, create a directory structure as follows:

   `postgresql/main`

3. Copy the PostgreSQL JDBC driver `.jar` file into the `postgresql/main` directory.

4. In the `main` directory, create a file named `module.xml` with the following content:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<module xmlns="urn:jboss:module:1.0" name="org.postgresql">
   <resources>
      <resource-root path="postgresql-9.1-903.jdbc4.jar"/>
   </resources>
   <dependencies>
     <module name="javax.api"/>
     <module name="javax.transaction.api"/>
   </dependencies>
</module>
```

> **NOTE:** The `<resource-root path="postgresql-9.1-903.jdbc4.jar"/>` parameter is the `.jar` file name for the PostgreSQL JDBC driver version. Replace `resource-root path` with the `.jar` file name downloaded in Prerequisites, on the previous page.

5. Save the `module.xml` file.

6. In the `/mmap/jboss-eap-6.2` directory, navigate to the `standalone/configuration` directory and open `avalanche.xml` in a text editor.

   a. Add three new system properties in the `<system-properties>` section:

```xml
<property name="hibernate.dialect"
value="org.hibernate.dialect.PostgreSQL82Dialect"/>
<property name="avalanche.vms.database.timezone" value="UTC"/>
<property name="hibernate.hbm2ddl.auto" value=""/>
```

   b. Replace the following `<datasources>` section that uses H2:

```xml
<datasource jndi-name="java:/datasources/EventsDS" pool-name="EventsDS"
enabled="true" use-java-context="true">
  <connection-url>jdbc:h2:file:${jboss.server.data.dir}/h2/events;AUTO_
SERVER=TRUE;
INIT=runscript from
'classpath:/com/autonomy/avalanche/persistence/h2/init.sql'\;</connectio
n-url>
  <driver>h2</driver>
  <security>
     <user-name>${avalanche.vms.database.user:sa}</user-name>
     <password>${avalanche.vms.database.password:sa}</password>
  </security>
```

```
</datasource>
```

with the following `datasource` that uses PostgreSQL:

```
<datasource jndi-name="java:/datasources/EventsDS" pool-name="EventsDS"
enabled="true" use-java-context="true">
  <connection-url>jdbc:postgresql://host:port/events</connection-url>
  <driver>postgresql</driver>
  <security>
     <user-name>${avalanche.vms.database.user:sa}</user-name>
     <password>${avalanche.vms.database.password:sa}</password>
  </security>
</datasource>
```

In the `connection-url` section, replace the following settings with the information that you saved when you installed PostgreSQL.

- Replace `host` with the host name of your server.
- Replace `port` with the port number that the PostgreSQL communicates on.
- Replace `events` with the database name.

In the `security` section, replace the following settings with the information that you saved.

- Replace `user-name` with the user name of a user account created for the PostgreSQL database.
- Replace `password` with the password of the user account.

For example:

```
<datasource jndi-name="java:/datasources/EventsDS" pool-name="EventsDS"
enabled="true" use-java-context="true">
  <connection-url>jdbc:postgresql://localhost:5432/postgres</connection-
url>
  <driver>postgresql</driver>
  <security>
     <user-name>${avalanche.vms.database.user:postgres}</user-name>
     <password>${avalanche.vms.database.password:myPassword}</password>
  </security>
</datasource>
```

c. Add a new driver property in the `<drivers>` section:

```
<driver name="postgresql" module="org.postgresql">
   <xa-datasource-class>org.postgresql.xa.PGXADataSource</xa-datasource-
class>
</driver>
```

7. Save the `avalanche.xml` file.
8. Restart the JBoss application server.

Create the MMAP Database Schema in PostgreSQL

The MMAP archive contains the following SQL scripts that create the MMAP database schema in PostgreSQL:

- `schema.sql`
- `stored-procedures.sql`
- `searchable-text.sql`
- `partition-word-table.sql`

To run the SQL scripts on Windows

- Open a command-line window and use the tool `psql.exe` (supplied in the `bin` directory of your PostgreSQL installation) to run each script. Ensure that you run `schema.sql` first. You can use the following command:

  ```
  psql.exe -f <path-to-script> -d<database> --username=<user>
  ```

  where,

  - *<path-to-script>* is the path of the script.
  - *<database>* is the database name.
  - *<user>* is the user account created for the PostgreSQL database.

  This will run the script against the PostgreSQL instance listening on the default port (`5432`).

  For example:

  ```
  psql.exe -f c:\mmap\jboss-eap-6.2\sql\postgresql\schema.sql -dpostgres --
  username=postgres

  psql.exe -f c:\mmap\jboss-eap-6.2\sql\postgresql\stored-procedures.sql -dpostgres
  --username=postgres

  psql.exe -f c:\mmap\jboss-eap-6.2\sql\postgresql\searchable-text.sql -dpostgres -
  -username=postgres

  psql.exe -f c:\mmap\jboss-eap-6.2\sql\postgresql\partition-word-table.sql -
  dpostgres --username=postgres
  ```

  When prompted, type the password for the user.

To run the SQL scripts on UNIX

1. Run the script `schema.sql` by typing the following commands, where *<database>* is the database name.

   ```
   sudo su - postgres
   psql -hlocalhost -d<database> -f schema.sql
   ```

> **TIP:** The `-f` parameter accepts either an absolute path or a path relative to the current directory. For more information about `psql` parameters, refer to the PostgreSQL documentation.

The script runs against the PostgreSQL instance listening on the default port (`5432`).

2. Run the scripts `stored-procedures.sql`, `searchable-text.sql`, and `partition-word-table.sql`:

```
psql -hlocalhost -d<database> -f stored-procedures.sql
psql -hlocalhost -d<database> -f searchable-text.sql
psql -hlocalhost -d<database> -f partition-word-table.sql
```

Configure Media Application

You can configure the Media application by using a custom `config.json` file.

Set the `com.hpe.media.api.config.path` system property to an absolute path to the location of your `config.json` file. For example, you can do this by using JBoss CLI:

```
./<JBoss dir>/jboss-cli.sh -c "/system-property=com.hpe.media.api.config.path:add
(value=/path/to/your.json)"
```

If you use JBoss CLI to set a system property, you do not need to restart JBoss.

> **NOTE:**
> The contents of the `config.json` file must match the JSON specification. The JSON specification does not allow comments, and strings must be enclosed with double quotation marks, not single quotation marks.

The JSON included can contain the following properties (not all properties need to exist). The following example code shows the default values if they are not set:

```
{
    "version": "11.3.0",
    "app": {
        "name": "IDOL Find",
        "url": "http://demo.havendemo.com/bifhi/"
    },
    "search": {
        "url": "http://demo.havendemo.com/bifhi/public/search/query/{{query |
encodeURI}}"
    },
    "player": {
        "src": "../player/plugins/mediaElement.nmf"
    },
    "mmap": {
        "api": "../vms/api/v1"
    }
}
```

where:

- `version` is the version number of the application. This is currently unused.

- `app.name` is the application name, which is displayed in the bar at the top of the Media application.

- `app.url` is the URL you are redirected to if you click on the hyperlink in the top bar, specified by `app.name`.

- `search.url` is the URL you are redirected to when you press **Enter** in the search box at the top of the Media application.

  - `{{query |encodeURI}}` denotes the point at which the query that you entered will be inserted into the URL. The query will be URI-escaped using the `window.encodeURI` JavaScript function.

  - You can use `{{query |encodeURIComponent}}` if the query that you entered needs to be inserted as a URL parameter. The query will be URI-escaped using the `window.encodeURIComponent` JavaScript function. For example:

    `http://mysearchapplication/mywebpage?query={{query | encodeURIComponent}}`

- `player.src` is the URL where the Media Player Chrome plugin is located.

- `mmap.api` is the URL of the MMAP API.

Chapter 3: Start Media Management and Analysis Platform

To start the JBoss application server that hosts the Media Management and Analysis Platform, use the following procedure.

> **TIP:**
> Before starting, ensure that the `JAVA_HOME` environment variable has been set correctly.

To start the Media Management and Analysis Platform System

1. Run the following command:

   For Windows:

   `%JBOSS_BASE_DIR%\bin\standalone.bat -c avalanche.xml`

   where `%JBOSS_BASE_DIR%` is the directory location where you installed MMAP

   For example:

   `C:\mmap\jboss-eap-6.2`

   For Unix:

   `%JBOSS_BASE_DIR%/bin/standalone.sh -c avalanche.xml`

   where `%JBOSS_BASE_DIR%` is the directory location where you installed MMAP.

Verify MMAP is Running

The JBoss application server can take a few minutes to deploy the app. To check that Media Management and Analysis Platform is running, you can open a Google Chrome browser window, and navigate to http://localhost:8080.

When the application is running, this page displays the Media Management and Analysis Platform Getting Started Guide.

> **NOTE:**
> MMAP does not run as a service; after verifying that MMAP is running, you must not close the process.

Troubleshooting

This section provides troubleshooting and error code information to help you identify and resolve issues that you may encounter when installing MMAP.

Description

JBoss displays the following error in `server.log` when starting up MMAP:

```
Error occurred during initialization of VM. Could not reserve enough space for
object heap
```

Solution

Modify `%JBOSS_BASE_DIR%\bin\standalone.conf.bat` (in Windows) or `standalone.conf` (in UNIX) and reduce the `Xms` and `Xmx` values as follows:

For Windows:

Add the following line to `standalone.conf.bat`:

```
set "JAVA_OPTS=-Xms512M -Xmx512M -XX:MaxPermSize=256M"
```

For UNIX:

Add the following line to `standalone.conf`:

```
JAVA_OPTS=-Xms512M -Xmx512M -XX:MaxPermSize=256M"
```

After modifying the file, restart JBoss.

Next Steps

To view the MMAP Getting Started Guide

From a Google Chrome browser window, navigate to http://localhost:8080.

The Media Management and Analysis Platform Getting Started Guide displays in the browser window.

From here, you can explore the REST API calls to manage media sources, create recordings and analytics and play video.

You can also view the MMAP API documentation, follow the instructions to set up a Media Server analysis and recording process and view a live demo with the channel you set up.

Chapter 4: Upgrade MMAP

This section describes the process to upgrade the Media Management and Analysis Platform from previous versions to version 11.6.

Before You Begin

Perform the following tasks before you begin the upgrade of the Media Management and Analysis Platform.

1. Download the MMAP 11.6 software from the Micro Focus Big Data Download Center - https://downloads.autonomy.com/.
2. Upgrade IDOL Media Servers to version 11.6. Upgrade all IDOL Media Servers that Media Management and Analysis Platform uses.

Perform the Upgrade

Upgrading the Media Management and Analysis Platform environment includes backing up the current configuration and creating a clean JBoss directory for MMAP 11.6.

> **NOTE:** The `\mmap\jboss-eap-6.2\standalone\data\modeshape` directory contains all of the channels, cameras, and recorders previously created using the MMAP REST API. In order to preserve your history, after upgrading to 11.6, you must copy back this repository to the clean JBoss directory.

To upgrade

1. On the JBoss server, rename the original JBoss directory to `Jboss-eap-6.2_old`.

   For example:

   Rename `C:\mmap\jboss-eap-6.2` to `C:\mmap\jboss-eap-6.2_old`

2. Repeat steps 3 through 6 of the Install Media Management and Analysis Platform procedure to create a clean JBoss directory.

   For example:

   `C:\mmap\Jboss-eap-6.2`

3. After the new JBoss directory is prepared with all of the software components, copy the backed-up `modeshape` directory to `\mmap\Jboss-eap-6.2\standalone\data\modeshape`.

Upgrade the Database Schema

To keep existing analytics for each channel and camera in the database, contact your database administrator for details of the changes you need to make to migrate from the previous database schema to the new database schema.

You can compare the previous `schema.sql` with the new `schema.sql` for information on the new tables and columns that you need to add.

If you do not wish to keep existing analytics, you can simply delete the database and recreate it from scratch.

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