Adobe

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Using Adobe FrameMaker Publishing Server

Contents

Getting Started

Adobe FrameMaker Publishing Server (FMPS) is an enterprise software that allows you to automate your multichannel publishing process. Using the horizontal and vertical scaling architecture, FMPS can run on one or multiple remote systems. You can automate output generation in multiple formats: PDF, Responsive HTML5, Mobile App, ePub, Kindle, Microsoft HTML Help, and Basic HTML. Leverage out-of-the-box support for leading Content Management Systems (CMS), or use the web APIs to smoothly integrate with other CMSs.

Resources

Before you begin working with Adobe FrameMaker Publishing Server, take a few moments to read an overview of activation and the many resources available to you. You have access to instructional videos, plug-ins, templates, user communities, seminars, tutorials, RSS feeds, and much more.

System requirements and licensing

To review complete system requirements and recommendations for your Adobe FrameMaker Publishing Server software, see the FrameMaker Publishing Server product page at www.adobe.com/products/fmserver.

System requirements

FrameMaker Publishing Server is available in English only. Before you install FrameMaker Publishing Server ensure that your computer meets the following minimum system requirements:

Hardware

64-bit 4 vCPU with Core i5 or faster processor

Operating System

64-bit Microsoft® Windows® Server 2022

RAM

8 GB or higher

Hard Disk Space

8 GB of available hard-disk space; additional free space required during installation (cannot install on a volume that uses a case-sensitive file system or on removable flash storage devices).

NOTE:
If you copy your source documents to the server that hosts FrameMaker Publishing Server, allocate additional disk space.

Screen Resolution

Maximum supported screen resolution – 4K (3480 x 2160, 8.3 megapixels, aspect ratio 16:9).

Activation

FrameMaker Publishing Server does not operate without activation. Internet connection and registration are required for software activation, validation of subscriptions, and access to Online Services. Phone activation is not available.

Pre-requisite

You must have MongoDB Community Server version 5.0 or 4.0.19 installed and configured on your system before installing FrameMaker Publishing Server. For downloading MongoDB, visit https://www.mongodb.com/try/download/community.

NOTE:
You can find the download link either in the *Available Downloads* section or the *Archived Releases* section.

Browsers

- Google Chrome
- Firefox Mozilla
- Microsoft Edge

Installation

You can install FMPS on a machine that meets the System requirements and then access it over the network using other machines. For more information on installation, see Installation and setup.

License activation

During the installation process, your Adobe software contacts an Adobe server to complete the license activation process. No personal data is transmitted. For more information on product activation, visit the Adobe website at www.adobe.com/go/activation.

Help and support

Understand the various Help resources for you to get started with FMPS and other related products like FrameMaker.

Community Help

Community Help is an integrated environment on Adobe.com that gives you access to community-generated content moderated by Adobe and industry experts. Comments from users help guide you to an answer. Search the FrameMaker Community Help to find the best content on the web about Adobe products and technologies, including these resources:

- Videos, tutorials, tips and techniques, blogs, articles, and examples for designers and developers. Check the publishing workflow videos on the FrameMaker video hub page.
- Complete online Help, which is updated regularly and may contain more information than the Help delivered with FrameMaker Publishing Server.
- All other content on Adobe.com, including knowledge-base articles, downloads and updates, Adobe Developer Connection, and more.

Other resources

Online Help also include links to the complete, updated PDF and HTML versions of Help for FMPS and other related products.

Visit the Adobe Support website at www.adobe.com/support to learn about free and paid technical support options.

Introduction

FrameMaker Publishing Server

With centralized and automated publications, it is easy to integrate and synchronize publication of technical documents with product build schedules. With support for scalable architecture, you can deploy FMPS on one or multiple systems. In a scalable setup, the server component is configured to communicate with the FrameMaker instances deployed on one or multiple systems.

Multiple users can remotely access FMPS simultaneously and run various operations such as create presets and creating and scheduling publishing tasks. FMPS leverages out-of-the-box integration with leading Content Management Systems (CMS) like OpenText Documentum, Microsoft SharePoint, DitaExchange and Adobe Experience Manager. Using the FMPS APIs, you can smoothly integrate with other CMSs as well to enable you to manage publication tasks and enforce version control.

With ExtendScript Toolkit integrated with FMPS, you can create custom publication tasks that work with source files in XML/DITA and FrameMaker formats. By creating reusable publication task settings, you can quickly set up custom publication environments and schedule the build processes to run daily, weekly, or at any defined intervals.

Watch this video Overview of FrameMaker Publishing Server for more information about the release.

What’s new in FrameMaker Publishing Server

Faster PDF publishing of DITA content

PDF publishing has been enhanced and made much faster and seamless for a composite document and a book with FrameMaker components.

You can now quickly generate a composite book with a much improved workflow. The composite document is a basic PDF without any title, table of contents, list of figures, and other components. Composite documents generally require importing many documents and media files which is now done much more quickly. Keyspace generation and content resolution are also now done very efficiently before the PDF is generated.

With the new, improved workflow, you can also very efficiently generate the PDF through the book with the FrameMaker components route (Flat Book Hierarchy), where you get the title page, table of contents, front matter, back matter, list of figures or tables, and other book components.

Depending on the references used in your DITA map, the performance of PDF generation has increased by 5x compared to the earlier FrameMaker versions, so now you can generate a composite document or book with FrameMaker components very efficiently.

Improved quality of graphics in PDF output

Graphics are a key component of your PDF output. Now the graphics in your PDF output of both structured and unstructured documents have been significantly improved. Various graphic objects like dashed lines, arcs, shapes, and curves are drawn very uniformly, and the edges are sharply defined. The corners and curves in the objects are crisp and clear. Unlike the previous versions, the quality isn't compromised even when you zoom the output.

Other features in FrameMaker Publishing Server

Customize DITA templates for PDF

FMPS can now store and use DITA templates for PDF output. You can store your PDF output settings in a settings (.sts) file and easily make changes to it. The same settings file can then be exported and imported into a new publishing task

Responsive HTML5 layouts

Create modern Responsive HTML5 layout to deliver a superior navigation experience. Also, the responsive HTML5 output comes with first-of-its kind search experience. The newly redesigned responsive HTML5 output now displays predictive search results based on a few characters that you type in the search box. This reduces the search time and improves the usability of your Help system.

Basic HTML output

You can now publish in Basic HTML format from FMPS. The Basic HTML output format takes each topic file within your book or DITA map and generates a corresponding HTML file with the similar look-and-feel controlled through a CSS file. The generated output does not contain any JavaScript or custom layouts that can be re-purposed or customized for the intended audience.

Enhanced native integration with Adobe Experience Manager Guides

Experience Manager Guides is an end-to-end enterprise-class component content management solution (CCMS). Experience Manager Guides integrates with FMPS that allows you to publish DITA content to formats like Responsive HTML5, PDF, ePub, Kindle and more.

Enhanced template-based publishing solution

Quickly automate document assembly and formatting by defining multiple output template presets for generating output. FMPS comes with HTML5 template that helps you generate HTML5 output without investing time and effort in creating a new template.

Bidirectional language publishing

Publish documents with bidirectional content, including XML/DITA content, from within FrameMaker in multiple formats: PDF, Responsive HTML5, Mobile App, ePub, Kindle, Microsoft HTML Help, and Basic HTML. Optionally, flip the HTML5 layout so that the navigation pane appears on the right for RTL content, and render smoothly on any device - desktop, tablet, or a mobile.

Personalized dynamic content

Empower users to find relevant content faster in the document, TOC, and index in the final Responsive HTML5 or Mobile App output. Leverage existing conditional tags and expressions to enable end users to dynamically filter content in the final HTML5 output, thereby delivering personalized help experiences.

Simply assign names for existing conditional tags or expressions, categorize them under any Group you want (such as region, audience, market segment etc.), enable single or multiple selections within a Group, and then display this two-level hierarchy as content filter criteria in the final output.

Customizable HTML5 Layout

Use the customizable Responsive HTML5 layouts to deliver an amazing content consumption experience. With more powerful search options, configure search to appear on the content or topic panes, and show informative context and breadcrumbs in the results. This helps your readers identify the best choice among results. You can also customize the search context message for each topic. The search results can also be configured to appear on the left pane.

Easily show or hide widgets such as glossary, TOC, index, and filters. Convert the layout to right-to-left languages (Arabic and Hebrew) to meet the needs of a global audience, just by changing one property. Also add Facebook and Twitter widgets to your pages to allow users to share the content that they are reading – with a single click!

Provide your users with a different experience for the device (desktop, tablet, and mobile) that they use by customizing the function bar, side bar, and TOC in the output.

Use the powerful, yet easy-to-use Layout Customization tool to customize not only your content, but also the appearance of buttons, labels, fonts, background color, search boxes, and most components of your online content.

Reference page image publishing

Publish reference pages content such as images, headers and footers, and logos, in all output formats supported by FrameMaker Publishing Server.

SVG support in HTML5 output

Let your end users see top quality images regardless of the screen size and resolution of the device on which they are being viewed. This is because FrameMaker Publishing Server embeds the entire SVG code in the final responsive HTML5 output.

Reusable publishing elements

Reuse elements easily with the enhanced multi-device publishing settings file. Create elements, such as responsive HTML5 layouts, CSS, and HTML page templates, just once. Then import or export the setting files for use across different books and documents.

HTML page template support

Improve the usability of your output by adding mini-TOCs, breadcrumbs, and headers and footers. Configure the output settings just once and then easily reuse these across all outputs to give your users a uniform experience.

Integration with leading CMSs

Leverage the out-of-the-box integration with leading Content Management Systems (CMS) like Open-Text Documentum, Microsoft SharePoint, DitaExchange and Adobe Experience Manager. You can also use the FMPS APIs to smoothly integrate with other CMSs to enable you to manage publication tasks and enforce version control. Use the Repository view to check-out files, manage dependencies, version management and perform search. Use the advanced metadata-based filter to quickly browse and find relevant topics, DITA maps, or graphics in a large volume of content.

Installation and setup

To work with FrameMaker Publishing Server, do the following:

1) System requirements
2) Plan the deployment architecture
3) Install and configure MongoDB
4) Install FrameMaker Publishing Server
5) Configure the server component
6) Configure the client components
7) Common customizations for FrameMaker Publishing Server
8) Access FrameMaker Publishing Server

You can also install a free command line tool, such as cURL, to access FrameMaker Publishing Server using the command line.

IMPORTANT
You must not run FrameMaker Publishing Server (December 2022 release) and Summer 2020 release on the same system simultaneously.

System requirements

Before installing FrameMaker Publishing Server, make sure that you have the required hardware and software. See System requirements for more details.

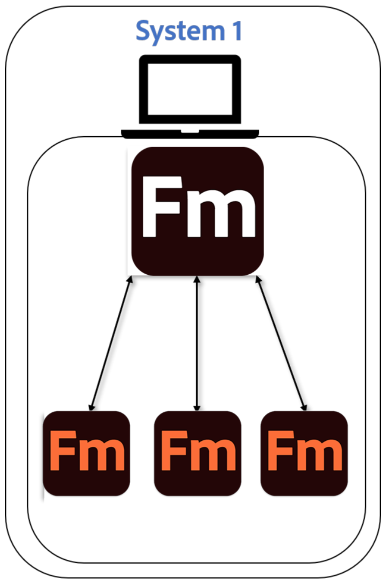
Plan the deployment architecture

The new and much improved scalable architecture of FrameMaker Publishing Server (FMPS) allows you to maximize your system utilization. FMPS is designed to support three types of scaling architecture:

- Vertical scaling
- Horizontal scaling
- Mix scaling or a combination of vertical and horizontal scaling

Vertical scaling

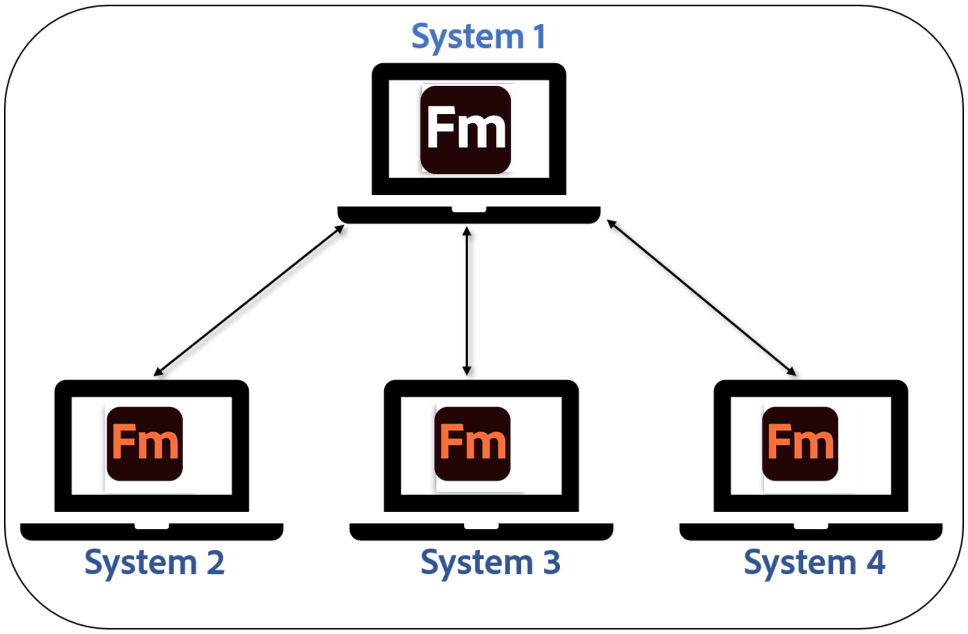
The following illustration shows the vertical scaling deployment architecture:



In vertical scaling, FrameMaker Publishing Server component, client component, FrameMaker, and database are installed on the same system. In this architecture, for each publishing task, a new instance of FrameMaker is launched. The number of FrameMaker instances that a system can launch depend on the number of cores. For example, on a 4-core machine, FMPS can launch 1 instance of FrameMaker. On an 8-core machine, there can be a maximum of 3 instances of FrameMaker that can run simultaneously.In case the number of publishing tasks is more than the number of FrameMaker instance, then FMPS keeps such tasks in a queue. Once an existing task completes, then the task in the queue is assigned to the available instance of FrameMaker. This way, FrameMaker Publishing Server also acts as a load balancer.

Horizontal scaling

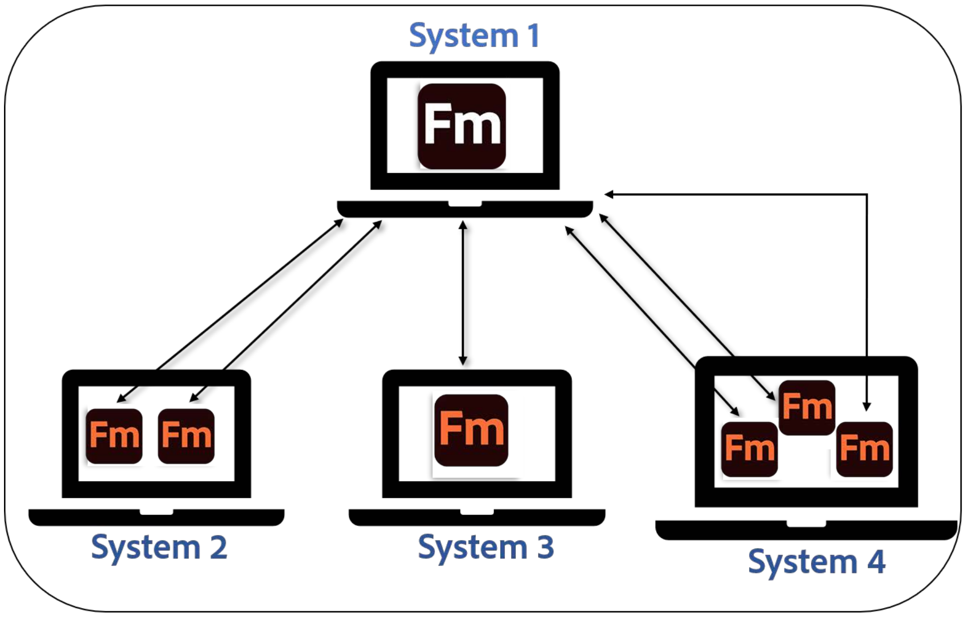
The following illustration shows the horizontal scaling architecture:



In horizontal scaling, FrameMaker Publishing Server component, client component, FrameMaker, and database are installed on different systems. As shown in the above illustration, FMPS is installed on *System 1*, and a single instance of FrameMaker along with client component is installed on *System 2*, *System 3*, and *System 4*. You can have as many instances of FrameMaker as you need, but you need only a single instance of FrameMaker Publishing Server. The load balancing happens in a similar way as described in vertical scaling

Mixed scaling

The third possible architecture is a mix of horizontal and vertical scaling:



In a mixed scaling architecture, a single instance of FrameMaker Publishing Server controls multiple instances of FrameMaker spread across multiple systems. As shown in the preceding illustration, *System 2* has two instances of FrameMaker on it and *System 4* has three instances of FrameMaker, each communicating with a single instance of FrameMaker Publishing Server.

Install and configure MongoDB

As FrameMaker Publishing Server uses MongoDB for data storage, you need a working setup of MongoDB on your system before installing FMPS.

To install MongoDB, perform the following steps:

IMPORTANT
Before installing FrameMaker Publishing Server or any update, clean the MongoDB instance. This is required to fix some critical security issues.

1) Download MongoDB Community Server version 5.0 or 4.0.19 from the official website:
https://www.mongodb.com/try/download/community

NOTE:
You can find the download link either in the *Available Downloads* section or the *Archived Releases* section.

2) Configure the MongoDB Service as follows:
   - **Service Name**: `MongoDB` (keep the default name)
   - **Data Directory**: Any directory outside the `Program Files` folder where all programs and users would have the read and write access.
   - **Log Directory**: Specify a directory to store the logs.
3) Configure the IP address of the MongoDB Service in the `mongod.cfg` file. By default, the `mongod.cfg` file is available in the following location:

   `<Drive>:\MongoDB\Server\<version>\bin\`

   Change the default IP address from `127.0.0.1` to `0.0.0.0`. This will ensure that MongoDB can be accessed from any other system by using the host system's IP address and port.
4) Create the default user account with administrative privileges to access MongoDB.

   To create the basic user account, run the following commands:

   a) Open the command prompt.
   b) Change the working directory to "`%INSTALLDIR%\mongodb\bin`".
   c) Run "`mongod.exe`".
   d) Run "`mongo.exe`".
   e) In the MongoDB interface, run the following script:

```
use admin
db.createUser(
{
user: "fmadmin",
pwd: "fmadmin",
roles: [
{ role: "userAdminAnyDatabase", db: "admin" },
{ role: "readWriteAnyDatabase", db: "admin" },
{ role: "dbAdminAnyDatabase", db: "admin" },
{ role: "clusterAdmin", db: "admin" },
{ role: "root", db: "admin" },
{ role: "readWrite", db: "admin" },
]
})

exit
```

If you are using LDAP-based authentication, then you need to create and assign administrative privileges to a LDAP user ID. This is a one-time activity. For the subsequent requests, you can use this user account to grant privileges to other users via API. To assign administrative privileges to a LDAP user ID, perform the following steps:

NOTE:
The following instructions are using the CLI. However, you can also use MongoDB Compass, which is free a UI tool to access and work with MongoDB.

1) Open the command prompt.
2) Change the working directory to "`%INSTALLDIR%\mongodb\bin`".
3) Run "`mongod.exe`".
4) Run "`mongo.exe`".
5) In the MongoDB interface, run the following script:

```
use stubFM;db.users.find();
```

   Note the user ID that you want to update.
6) Run the following script:

```
db.users.update(
    { _id: ObjectId("5a321b0c602d2e16677760f5") },
    {
        $set: {
            userPermission: "ADMIN"
        }
    }
)
```

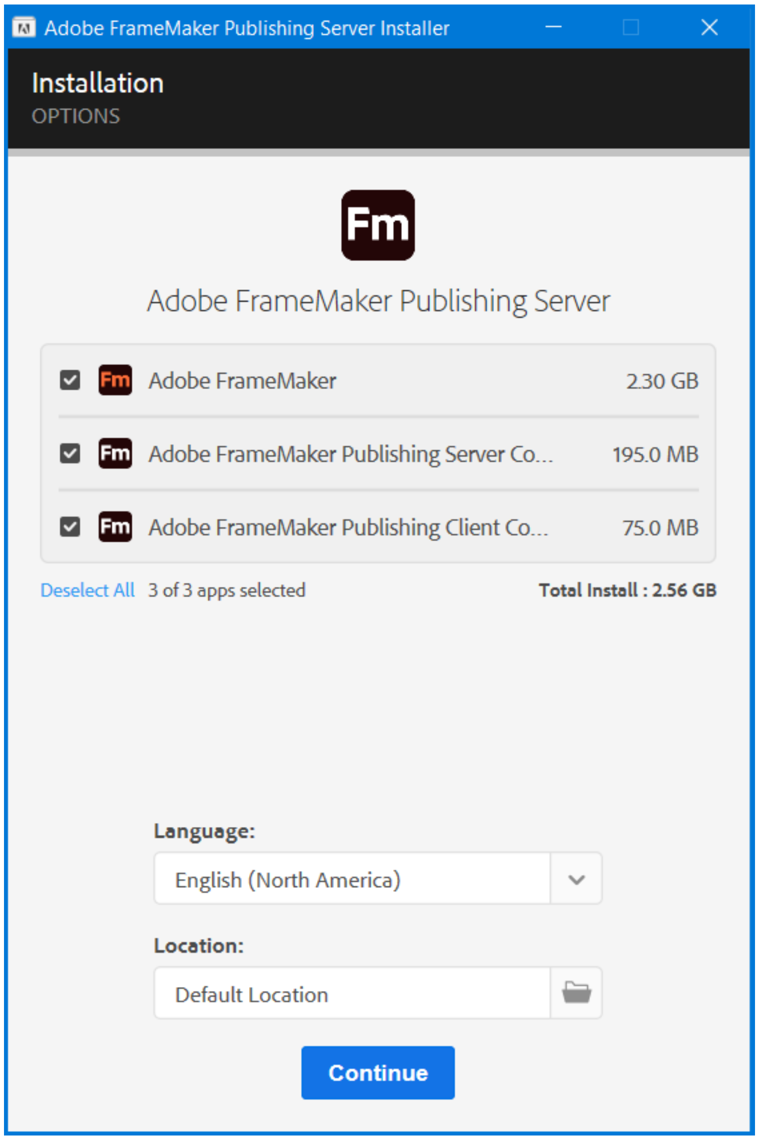
   This script will update the user with an ID of "`5a321b0c602d2e16677760f5`" with administrative privileges.

Install FrameMaker Publishing Server

To install FMPS, perform the following steps:

IMPORTANT
Before installing FrameMaker Publishing Server or any update, clean the MongoDB instance. This is required to fix some critical security issues.

1) Run the FMPS installer. The following Installation Options dialog appears:



Adobe FrameMaker Publishing Server Installer

Installation
OPTIONS

Adobe FrameMaker Publishing Server

✓	Adobe FrameMaker	2.30 GB
✓	Adobe FrameMaker Publishing Server Co...	195.0 MB
✓	Adobe FrameMaker Publishing Client Co...	75.0 MB

Deselect All 3 of 3 apps selected Total Install : 2.56 GB

Language: English (North America)

Location: Default Location

2) Based on your deployment strategy, you can choose to:
   - Install only the server component (for horizontal scaling)
   - Install only the client component and FrameMaker (for horizontal scaling)
   - Install all components (for vertical scaling)

   If you want to install only the server component, then choose only the second component - **Adobe FrameMaker Publishing Server Component**.

If you want to install only the client components, then choose the first and the third options - **Adobe FrameMaker** and **Adobe FrameMaker Publishing Client Component**.

3) If you want to change the default install location, click the Browse icon next to the Location field and select a new destination.
4) Click **Continue**.

   The selected FMPS components are installed on the system.
5) Once the installation in complete, click **Close**.

IMPORTANT
By default, on completion of the installation process, FrameMaker Publishing Server and client are launched. It is configured to work in case you have installed all components on a single system (vertical scaling). However, if you have deployed FMPS on multiple systems (horizontal scaling), then you will have to configure FMPS server and client components to work correctly.

Next, you need to customize the server and client components before you can start using FrameMaker Publishing Server. The following sections will guide you through the configuration and customizations that you need to perform.

NOTE:
For information on issues during installation, see FMPS troubleshooting.

Configure the server component

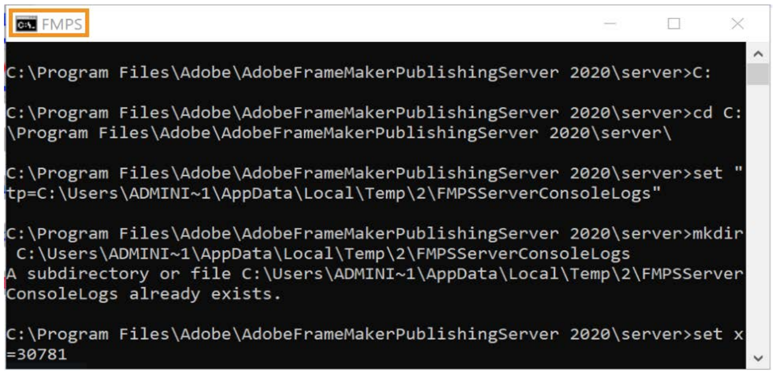
The system where you have deployed the server component contains the files and folders required to configure and launch the server. The typical process of configuring the launching the server component involves the following steps:

1) Stop the server component
2) Configure the server_url.txt file
3) Configure the development.json file
4) Launch the server using the run.bat file

The following sections will guide you through the above-mentioned steps.

Stop the server component

Before you start making configuration changes in the server component, ensure that the server component is not running. If the server component is running on your system, you will see a command prompt window with "FMPS" title as shown below:



```
C:\Program Files\Adobe\AdobeFrameMakerPublishingServer 2020\server>C:

C:\Program Files\Adobe\AdobeFrameMakerPublishingServer 2020\server>cd C:
\Program Files\Adobe\AdobeFrameMakerPublishingServer 2020\server\

C:\Program Files\Adobe\AdobeFrameMakerPublishingServer 2020\server>set "
tp=C:\Users\ADMINI~1\AppData\Local\Temp\2\FMPSServerConsoleLogs"

C:\Program Files\Adobe\AdobeFrameMakerPublishingServer 2020\server>mkdir
 C:\Users\ADMINI~1\AppData\Local\Temp\2\FMPSServerConsoleLogs
A subdirectory or file C:\Users\ADMINI~1\AppData\Local\Temp\2\FMPSServer
ConsoleLogs already exists.

C:\Program Files\Adobe\AdobeFrameMakerPublishingServer 2020\server>set x
=30781
```

To stop the server component, simply close the command prompt window with "FMPS" title by clicking on the "X" icon.

Configure the server_url.txt file

The `server_url.txt` file contains the fully qualified domain name (FQDN) and port of the system where your server component is deployed. The default location of `server_url.txt` file is:

```
\Program Files\Adobe\AdobeFrameMakerPublishingServer
2022\server\server_url.txt
```

You can open this file in a text editor and provide your server's host name and port information in the following format:

```
http[s]://<fully-qualified-domain-name_or_ip-address>:<port>
```

NOTE:
By default, when you complete the installation process, the FQDN of the server machine is fetched and entered in the `server_url.txt` file. However, if the installation process is not able to get the FQDN, then `localhost` is added in the `server_url.txt` file, which should be manually updated with FQDN.

Configure the development.json file

The `development.json` file contains most of the configurable settings for FrameMaker Publishing Server. It allows you to configure the MongoDB settings, user credentials for default users, logging information, and much more.

The following snippet of the development.json file highlights the configuration settings that you can modify as per your deployment setup.

IMPORTANT
The `ANONYMOUS` login type for the **`typeOfAuth`** setting is deprecated. It is recommended to use other supported authentication methods.

```
{
   "FMPS": {
      "dbConfig": {
       "MONGO_HOST": "localhost",   //The hostname of MongoDB server.
Default is localhost.

        "MONGO_PORT": 27017,   //The port where MongoDB is listening.
Default is 27017.

         "dbName": "stubFM",

         "dbNameLog4j": "logs",

         "dbNameQueue": "stubFM_Queue",

        "username": "fmadmin", //Basic username and password that is
created to access MongoDB.

         "password": "fmadmin",

        "authMechanism": "SCRAM-SHA-1",   //Authentication mechanism
to use to connect with MongoDB. For version 4.x, you can choose from
SCRAM-SHA-1 or none.

         "authSource": "admin",

        "SCHEMA_VERSION": 16, //This is used to identify the schema.
Please Do Not Change.",

        "defaultUser": "fmpsuser",    //Default username and password
to access FMPS as an Administrator.

         "defaultPassword": "fmpsuser",

         "defaultEmail": "fmpsuser@enterprise.com", //Default email
ID to send notifications. You must replace it with a valid email ID.

         "LogQueue": "logqueue",

         "LogMonQueue": "logmongoqueue",

         "MaxNoOfLogs": "5", //Maximum number of task logs that are
```

```
returned by the API.

        "logLevel": "INFO"// Level of logs to maintain. Supported
values are: FATAL, ERROR, WARN, INFO, DEBUG. By default INFO level
logs are enabled.
        },
"webConfig": {
           "apiVersion": "v16", // This is used to identify the API
versions. Please Do Not Change

       "host": "localhost", // The hostname of the server where FMPS
is deployed. If FMPS is started by executing the run.bat file, then
the value of this setting is picked from the server_url.txt file. Else,
you need to change it manually.

        "port": 7000, // The port where FMPS is listening. If FMPS
is started by executing the run.bat file, then the value of this
setting is picked from the server_url.txt file. Else, you need to
change it manually.

       "sslPort": 6234, // If FMPS is deployed on HTTPS, then specify
the port on which it is listening. If FMPS is started by executing the
run.bat file, then the value of this setting is picked from the
server_url.txt file. Else, you need to change it manually.

        "protocol": "http://", // Specify the protocol “http://” or
“https://” where FMPS is deployed. If FMPS is started by executing the
run.bat file, then the value of this setting is picked from the
server_url.txt file. Else, you need to change it manually.

        "typeOfAuth": "USERLOGIN", // Type of authentication to use
with FMPS. Supported values are: USERLOGIN, ANONYMOUS, LDAP. The
default authentication mechanism is basic username/password
(USERLOGIN). If you change this, then the server restart is required.

        "daysForTokenExpiryUserLogin":7, // Days for token to expire
used in USERLOGIN and LDAP.

        "useSSL": false, //By default SSL is not enabled. In case
FMPS is setup on SSL, change this to true.

If useSSL is set to true, then set this component according to the
location of the SSL certificate:

        "keyPath": absolute or URL path to server key, // Save the
SSL certificate and the key of your organization in the “cert” folder.
You must replace the sample path with your actual path.

        "certPath": absolute or URL path to SSL certificate, // Save
the SSL certificate and the key of your organization in the “cert”
```

```
folder. You must replace the sample path with your actual path.

For example, a sample path can be:
"keyPath": "C:\\Program
Files\\Adobe\\AdobeFrameMakerPublishingServer
2022\\server\\cert\\server.key",
"certPath": "C:\\Program
Files\\Adobe\\AdobeFrameMakerPublishingServer
2022\\server\\cert\\bundle.crt",

         "taskTimeOut": 60, // If the queued task is not picked up
within the specified time (default 60 minutes), then it will retire
and is pushed back with +1 number of retries.

        "runningtaskTimeOut": 200, // This is the timeout for running
task, which means if a publishing task does not complete in 200
minutes, it will retire and is pushed back with +1 number of retries.

       "maxRetries": 5, //Max number of retries for a publishing task.

            "defaultTimezone": "Atlantic/Reykjavik"  //Default time
zone for FMPS. Supported values are: Atlantic/Reykjavik for GMT,
Asia/Kolkata for India, America/Los_Angeles for PDT, America/New_York
for EDT, see https://momentjs.com/timezone/ for time zone information.
Ideally this should align with the Server time zone.
        },
"cronConfig": {
            "workscheduler": "*/10 * * * * *",
            "TaskPoller": "*/5 * * * * *",
            "TaskPollerFailed": "*/40 * * * * *"
        },
"ldapConfig": {  //If you are using LDAP-based authentication, then
update the settings in this section.
           "ldapurl": "ldaps://global.enterprise.com:636", //Specify
the LDAP URL that is used for authentication.

         "baseDN":
"cn=users,dc=enterprise,dc=global,dc=enterprise,dc=com", //LDAP
domain name string.

         "tlsOptions": false, //Set as "true" if LDAP uses TLS, else
set it to "false".

        "domainName": "enterprise" //Specify the domain name that is
appended with the username. For example, domainname\\username.
        },
"smtpConfig": { //Settings in this section are used to configure the
email server that is used to send email notifications.
         "host": "smtp.enterprise.com", //Specify the SMTP hostname.
         "smtpport": 25, //Specify the SMTP port.

         "username": "fmpsuser@enterprise.com", //Specify the SMPT
username that is used to send email notifications.

         "password": "fmadmin", //Specify the password for the SMPT
user.

       "requirePassword": false, //Set to true if password is required
by the SMTP server and a value for the password settings is provided.

         "disableSMTP": true, // By default SMTP is disabled. If you
have configured the SMTP server, then set this setting to false.

        "triggerAlertEmail":false, //Set to true if you want to enable
email notifications for events such as high memory usage or server
restart. By default, it is disabled (set to false).

         "alertEmail":fmpsuser@enterprise.com  //A comma separated
email IDs of users to whom an alert email notification is sent.
        },
"appConfig": {
        "_comment_For_AppConfig": "Settings in this section are used
to setup application folders and logs.",
            "Company": "Adobe",
            "Product": "FrameMakerPublishingServer",
            "NodeLogs": "Nodelogs",
            "Version": "16",
            "MaxMem": 4096,
           "lengthOfLogMessage":10000    // Specify the total length
of a log message in characters
        }
    }
}
```

Launch the server using the run.bat file

To launch the server component, you need to run the `run.bat` file available at the following location:

`\Program Files\Adobe\AdobeFrameMakerPublishingServer 2022\server\run.bat`

Typically, you would launch the server only after completing all configurations required for the server as well as the client components. The following section will guide you to configure the client components.

Configure the client components

A client is system where you have installed Adobe FrameMaker and Adobe FrameMaker Publishing Client Component. The client has to establish a connection with the server to be able to receive information about what needs to be published and send a response back.

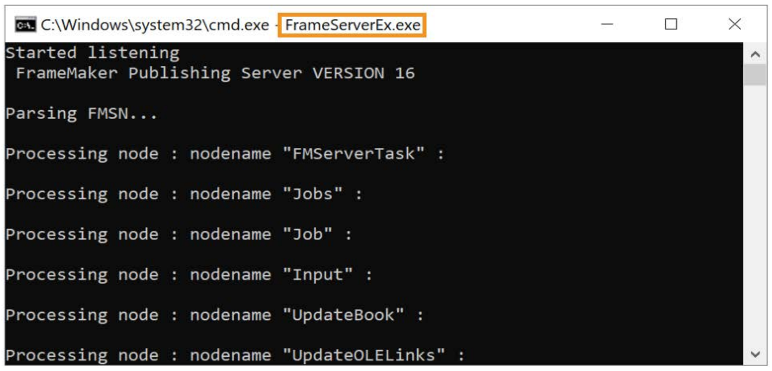
The typical process of configuring and launching the client component involves the following steps:

1) Stop the client component
2) Configure the server.ini file
3) Configure the FrameMaker instance
4) Launch the client using the StartWorker.bat file

The following sections will guide you through the above-mentioned steps.

Stop the client component

Before you start making configuration changes in the client component, ensure that the client component is not running. If the client component is running on your system, you will see one or more command prompt windows with "FrameServerEx" title as shown below:



```
Started listening
 FrameMaker Publishing Server VERSION 16

Parsing FMSN...

Processing node : nodename "FMServerTask" :

Processing node : nodename "Jobs" :

Processing node : nodename "Job" :

Processing node : nodename "Input" :

Processing node : nodename "UpdateBook" :

Processing node : nodename "UpdateOLELinks" :
```

To stop the client component, simply close all command prompt windows with "FrameServerEx" title by clicking on the "X" icon.

Configure the server.ini file

The `server.ini` file contains the parameters to connect to the server component of FMPS. Open the `server.ini` file in a text editor and configure the following parameters:

port

Specify the port on which the server component is listening for incoming requests.

server

Specify the fully-qualified domain name or the IP address of the server.

scheme

Specify the protocol (http or https) used by the server.

MaxFMSessions

Specify the maximum number of concurrent FrameMaker sessions that the can run on a client machine. By default it is set to 4. This setting works in conjunction with the *`VAR`* variable setting in the `StartWorker.bat` file. For more details, see Launch the client using the StartWorker.bat file.

doNotDeleteGeneratedFile

Supported values - `On` and `Off`. By default, it is set to `On`, which indicates that the publishing process will not delete any existing file on the given location where the output is saved.

HTTPTimeout

Specify the time in seconds after which the connection with the server machine is timed out. This happens when no response is received from the server machine during the configured time.

Delay

Specify the time in seconds that the client machine waits for before launching another instance of FrameMaker.

Configure the FrameMaker instance

To optimize the performance of FrameMaker in automated publishing tasks, make the following changes to FrameMaker configuration. These changes are essential to run scheduled tasks on FMPS and modify the behavior in the following ways.

FMPS ignores unresolved cross-references, unresolved text insets, and missing graphics.

- To use MathML, accept the EULA in FrameMaker.
- Check all source documents for errors before initiating a build task.
- FMPS does not report missing fonts. Ensure that the machine that hosts FMPS client component has all the required fonts.

Launch the client using the StartWorker.bat file

The `StartWorker.bat` file is used to launch FrameMaker instances (or workers) on the client machine that listen to the publishing requests from the server component. Each worker opens and works with a single FrameMaker instance to complete a publishing task. Once the task is complete, the FrameMaker instance is closed by the worker. The `MaxFMSessions` parameter in the `server.ini` file controls how many maximum instances of FrameMaker can run parallelly. The settings in `StartWorker.bat` file defines how many instances of FrameMaker will run on a given client machine. For example, say you have set the `MaxFMSessions` parameter to `4` and in the `StartWorker.bat` file you have defined `8` workers to run. In this case, the client machine can only run 4 instances of FrameMaker at any given time, even though it has launched 8 workers. If the server sends 5 publishing commands to this client system, then 4 publishing tasks will start immediately, and the 5th task will be pushed to a queue. The moment any task gets complete, then the next available worker will take up the 5th task from the queue and start executing it.

IMPORTANT
To launch the client, provide a valid user email and password. User authentication is done at the server. All users eligible to log in to the server are allowed to launch a client.

The contents of StartWorker.bat file are:

```
%~d0
 cd %~dp0
SET /a VAR=0
:HOME
SET /a VAR=VAR+1
```

```
IF %VAR%==3 goto :End
```

```
start cmd /K FrameServerEx.exe -username %1 -password %2
```

```
goto :HOME

:END
```

Provide your email and password in quotes. For example, `StartWorker.bat "abc@xyz.com" "abc ! 123"`

The `typeOfAuth` used for client authentication is same as that used in the server configuration.

In this file, the line - `IF %VAR%==2 goto :End` controls how many worker instances will be launched on the client machine. Let's say, you want to launch 4 worker instances, then you must configure it as:

```
IF %VAR%==5 goto :End
```

Note that the value of `VAR` is always **1+** (or one more) than the number of workers you want to launch on the client machine.

After configuring the maximum number of FrameMaker instances that can run simultaneously and the number of workers, you are ready to launch the client component. To launch the client component, you need to run the `StartWorker.bat` file available at the following location:

```
\Program Files\Adobe\AdobeFrameMakerPublishingServer
2022\FrameServerExe\StartWorker.bat
```

Common customizations for FrameMaker Publishing Server

The following additional customizations are required on the systems where you have deployed the server or client components:

1) Turn off the IE Enhanced Security Configuration.

   See FAQ about Internet Explorer Enhanced Security Configuration (ESC)in Microsoft documentation.

2) Add rules for inbound and outbound ports in Windows firewall. Also ensure that the ports on which you have deployed FrameMaker Publishing Server and MongoDB are opened for listening. By default, FMPS runs on port 7000 and MongoDB runs on port 27017.

   See Create an Inbound Port Rule and Create an Outbound Port Rule in Microsoft documentation.

3) Allow `FrameMaker.exe`, `FrameMakerEx.exe`, and `node.exe` to run through the firewall.
4) Change the following security and privacy settings for Internet Options.

NOTE:
You can access the Internet Options by opening the Control Panel and clicking Internet Options.

   – In the **Security** tab, set the security to **Medium-high**.
   – In the **Security** tab, click **Custom level**, and ensure that the following settings are *Enabled*:
      • In the **ActiveX controls and plug-ins** section: **Allow Scriptlets** and **Binary and scripts behaviors**.
      • In the **Downloads** section: **File download** and **Font download**.
      • **Enable .NET Framework setup**.
      • In the **Miscellaneous** section: **Access data sources across domains** and **Display mixed content**.
      • In the **Scripting** section: **Active scripting**.
   – In the **Privacy** tab, click **Advanced** and configure the following settings:
      • **First-party Cookies**: **Accept**
      • **Third-party Cookies**: **Accept**
      • **Always allow session cookies**: Enabled

5) Enable the .NET Framework 3.5 in Control Panel.

Access FrameMaker Publishing Server

Multiple users can simultaneously access FMPS by logging in to the server that hosts it. Using the web-based user interface of FMPS, you can access it remotely from any machine. To launch and access FMPS, perform the following steps:

1) On the system where you have deployed the server component, start the server by double-clicking the `run.bat` file.
2) On the system where you have deployed the client components, start the client by double-clicking the `StartWorker.bat` file.
3) Access the FMPS web interface by entering the following URL in your browser:

   ```
   http[s]://<FMPS_server>:<port>/index.html
   ```

NOTE:
<FMPS_Server> is the DNS or IP address of the system hosting FMPS. The default port is 7000.

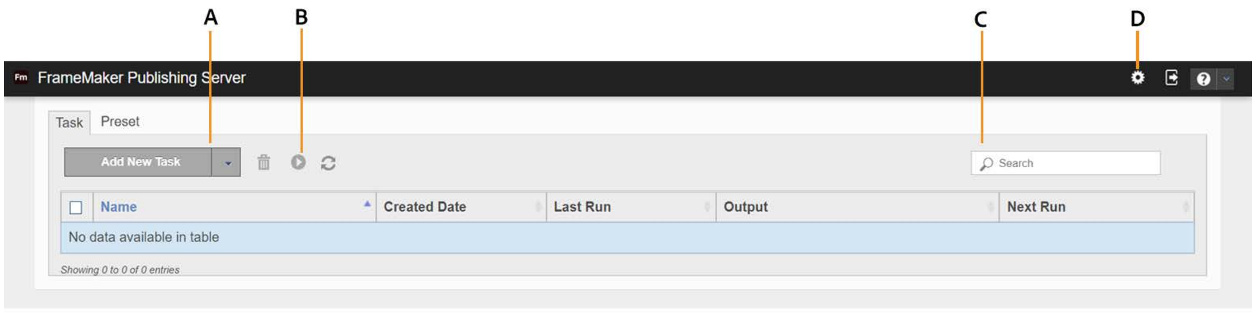
FrameMaker Publishing Server dashboard

FMPS provides a simple, web-based user interface using which you can:

- Create, manage, and schedule publication tasks
- Create and use presets to quickly apply and populate settings to the repetitive tasks with similar settings
- Manage and view task logs
- Use in-app API documentation to create custom scripts for scheduling and publishing tasks

Once you have installed FMPS on a machine, you can access it on the network from any machine to use it.

Adobe FrameMaker Publishing Server dashboard



Name	Created Date	Last Run	Output	Next Run
No data available in table				

Showing 0 to 0 of 0 entries

A.

Add New <Task/Preset> drop-down - Depending on which tab you are in, this drop-down allows you to create and duplicate Tasks and Presets.

B.

The Run button: To run tasks, select one or more tasks and click Run.

NOTE:
If you have scheduled a task to run, then it cannot be added to the scheduled queue again. If you want to run the task using the Run button, then you must first remove the scheduled task from the task scheduling queue.

C.

Incremental search: Search for a Task or Preset name (depending on the tab you are on) - as you type text, FMPS finds matches the text and displays them in the list

D.

Autorefresh settings: You can enable autorefresh for FMPS and specify the number of seconds after which FMPS automatically refreshes

By clicking on the column names, you can sort the list of tasks by that column. The tasks are color coded: green are successful, red are failed, and orange are queued.

For more information on:

- Using FMPS through a browser on a client machine, see Create and manage publication tasks.
- Using FMPS through the APIs on a client machine, see Work with FMPS using REST APIs.

Related topics

- Create and manage publication tasks
- Tasks

Autorefresh of the FMPS interface

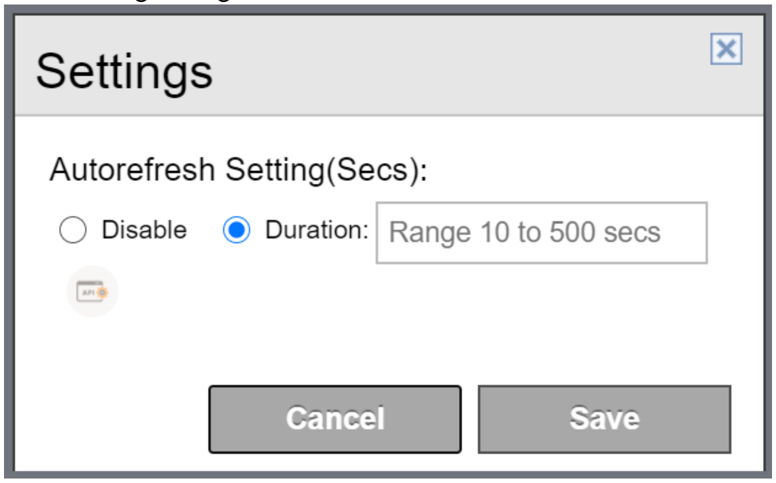
The FMPS web interface's autorefresh is disabled by default. You can set it to autorefresh every 10-500 seconds.

1) Click **Settings** (⚙)

   The Settings dialog appears.

2) In the Settings dialog, select **Duration** and enter the number of seconds after which you want FMPS web interface to autorefresh. You can enter a number from 10 to 500.

Configure Autorefresh in the Settings dialog


Settings

Autorefresh Setting(Secs):

Disable [✓ Duration:] Range 10 to 500 secs

3) Click **Save**.

NOTE:
You can also manually refresh FMPS by clicking the refresh button on the FMPS dashboard.

Create and manage publication tasks

You can create publishing task that can be scheduled to run at off-peak times and on regular time intervals to ensure that published content is always current. The FMPS dashboard notifications keep you informed about pending jobs as you turn your attention to other publishing tasks.

Publishing

Tasks

You remotely define the publication tasks in Adobe FrameMaker Publishing Server and schedule them to run at the required interval. A task is a complete collection of all the build information that is required to run a publication task.

For more information, watch this video - FrameMaker Publishing Server: Automated publishing delivered remotely.

Typically, you define a task for each book or source document that you want to create outputs from. For example, if you have a book file from which you want to create Adobe PDF, Basic HTML, Responsive HTML5, or more outputs, specify the following settings for the Task:

Input Source

Location of the source document or book. You can specify sources from the local file system, a network or WebDAV folder, an OpenText Documentum repository, a Microsoft SharePoint repository, DitaExchange or Adobe Experience Manager (AEM).

If you are accessing the server from the same system where you have deployed it, then a local file path will work. However, in other cases, you must specify a network location or the location of your CMS repository. In case the source files are available on a network location of a CMS, you need to specify the User Name and Password of the user who has access rights on the files, else the publishing process will fail.

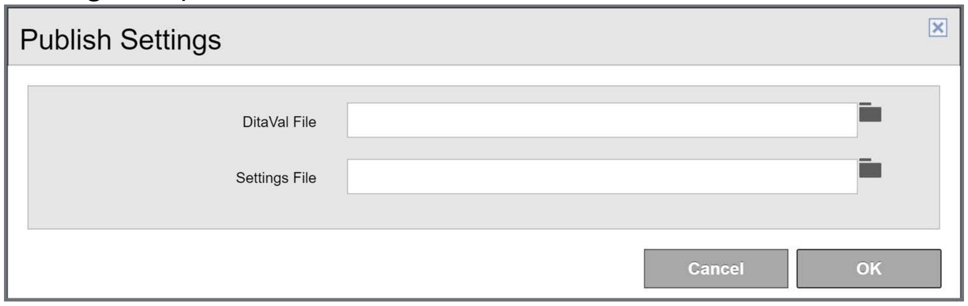
Output Settings > Format

Output formats required and their settings.

The supported output formats are: PDF, Responsive HTML5, Mobile App, ePub, Kindle, Microsoft HTML Help, and Basic HTML.

Presets

Presets for all supported output formats include the settings such as DITAVAL File and Settings File (`.STS`). These files are saved in MongoDB and attached to the task being created. Preset help you apply these settings to repetitive and similar tasks and save time.



NOTE:
For more information about configuring output presets using FrameMaker, see the *Print and Publish* topic in FrameMaker User Guide.

Output Folder Path

The location where you want the output from the output generation process saved. You can specify the output location as a folder in the local file system, a network or WebDAV folder, or an OpenText Documentum, Microsoft SharePoint repository, DitaExchange, or AEM. Again, the Output Folder Path can be a local system if you are running the server and client components on a single system. For multi-system deployment scenario, you have specify a network location along with user credentials to access the network path.

Pre- and Post-Publish Script

The location of the script file that you want to run before and after the publishing process. You can specify a `.jsx` or `.jsxbin` file in the pre-publish script. However, post-publish scripts can contain scripts or batch files that can run from the command prompt only. The script file is uploaded into MongoDB and attached with this task.

Scheduling

Schedule to run the task and the frequency.

NOTE:
If you schedule a task to run at a specific time, then you will not be able to run that task dynamically.

Send Log In Email

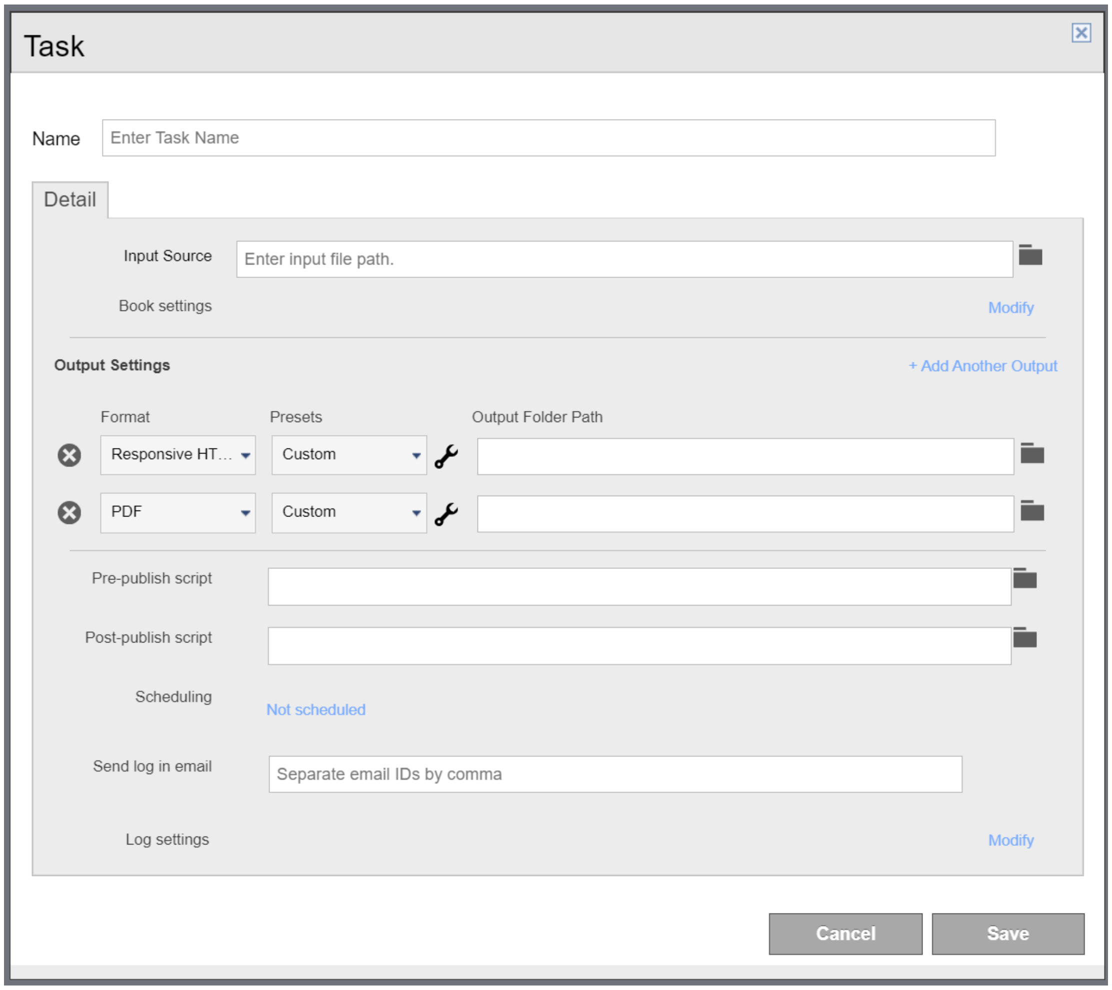
The Email IDs where you want the task logs to be sent.

Log Settings

The information you want to capture in the task logs.

Create a task

1) On the FrameMaker Publishing Server dashboard, select the **Task** tab.
2) In the **Add New Task** drop-down, select **Add New Task**.



3) On the new Task screen, specify a **Name** for the publishing task.

   Tasks in the task queue are listed with the task name. Provide intuitive task names that indicate the type of document and the output formats to easily identify your task in the queue.
4) Click the browse button next to the **Input Source** field.

   The Specify Input Source dialog appears. Enter the following details in it:

   a) An input source file (`.book`, `.ditamap`, `.fm`, or `.mif` file). Enter full path and name of the input file.
   b) Enter login credentials to access the input file, if required. For example, login information is required to access files over a network or a CMS.

c) If your input file is on a CMS, select the **CMS** option, choose the CMS type, and specify the CMS details, such as login information, server, and workspace.

5) To edit book settings, click the **Modify** link in front of **Book Settings**. In the **Book Settings** dialog, double-click (or use the move icons) to move the required entries in the **Don't Include** and **Include** lists.
6) To add an output type, choose an output format, preset, and then click the browse button next to the **Output Folder Path** field. The Specify Output dialog appears. Enter the following details in it:

NOTE:
By default, FrameMaker Publishing Server does not overwrite existing files with the newly generated output. You can change this setting by turning the doNotDeleteGeneratedFile parameter to `Off` in the `server.ini` file. To keep the output files from an earlier publication task, move them to another folder. You can run a post-publish command as part of the publication task to move the output files to another location after the publication task completes.

a) Specify the destination file path where the output file is saved.
b) If required, enter login credentials to save the output file. For example, login information is required save output files on the network or on the CMS.
c) To save output file to a CMS, select **CMS** and enter the CMS details.

7) To add more output types, click **Add Another Output** and repeat step 6.
8) (Optional) Enter the path and name of a **Pre-Publish Script** to specify any automation script that you created.
9) (Optional) Enter the name and path of a **Post-Publish** script to specify any system command that you want to run on the outputs after the publication task is run. You can create a batch script and provide its path so that FrameMaker Publishing Server runs the script after the publication task completes.
10) Click the **Not Scheduled** link to open the *Schedule* dialog. Specify the time and frequency for the task to execute.

NOTE:
If you schedule a task to run at a specific time, then you will not be able to run that task dynamically.

11) (Optional) In **Send Log in Email**, specify the email addresses where you want to send the task log. Use semicolons between multiple email IDs.
12) To add or delete information in the task logs, click **Modify** in front of **Log Settings**. In the Log Settings dialog, double-click (or use the move icons) to move the required entries in the **Don't Include** and **Include** lists.
13) Click **Save**.

Related Links:

Scheduling

Run tasks from the list

On the FrameMaker Publishing Server dashboard, select the tasks from the task list and click **Run**.

NOTE:
If a task is scheduled to run at a specific time, then you will not be able to execute it from the task list.

Duplicate a task

An easy way to create multiple tasks is to make a copy of an existing task, and then make the necessary changes for the duplicated task.

1) On the FrameMaker Publishing Server dashboard, do one of the following:
   - Click a task's name and in the Task dialog, click the **Duplicate** icon.
   - Select a task and then select **Duplicate Task** from the **Add New Task** drop-down.

     The Task dialog opens with the same task settings and name of the task duplicated with the suffix `-copy`.
2) Edit the name and other details of the task and click **Save**.

Edit a task

1) On the FrameMaker Publishing Server interface, click on a task name.

   The Task dialog appears.
2) Make the required changes in the task and click **Save**.

Delete a task

- On the FrameMaker Publishing Server dashboard, select one or more tasks and click **Delete**.

NOTE:
If you delete a task when it is currently running, the task is removed, but the current run is allowed to complete.

Scheduling

Typically, you create publication settings for recurring tasks. With FrameMaker Publishing Server, you can create multiple publication tasks and schedule them to run at specified intervals. In a typical technical publications department, many teams create automated builds that are then run at the required intervals. You can specify the intervals as once, daily, weekly, or monthly. A publication task requires a defined schedule to run or a user can run them manually. For more information on running tasks manually, see Create a schedule for run.

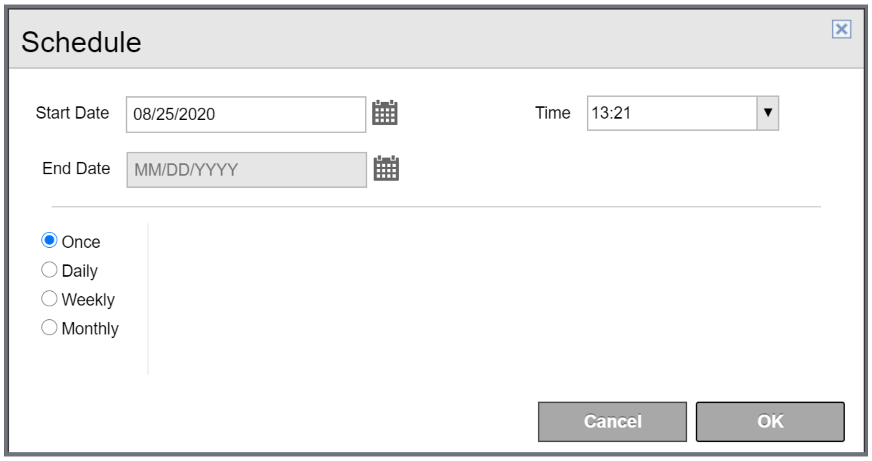
After you schedule a task to run, FrameMaker Publishing Server adds these as scheduled tasks to the Windows Task Scheduler. You can view and edit these tasks from Windows Task Scheduler independent of FrameMaker Publishing Server. The scheduled tasks appear with the name of the task and the user name associated with the task.

Keep in mind the following when you determine the build schedules:

- Each source document requires a separate publication task. If you have a large documentation set that heavily uses single-sourcing approach, you will need to create as many publication tasks as the number of book files.
- Builds are queued—if you want to run an immediate publication task when a large number of builds are in the queue, you will have to wait for the builds in the queue to be completed before you can run your publication task.
- If you require daily builds, consult with other teams so that your build schedule doesn't clash with theirs. If you schedule a large build in the day time, chances are that a once-only build task you want to run urgently will have to wait until the build queue is completed. A good way to ensure that daily build schedules do not affect other build tasks is to plan your daily builds to run in after-office hours.

Create a schedule for run

1) In the Task dialog, click the link next to **Scheduling**. The link could be:
   - Not Scheduled: If the task is not scheduled
   - A description of the scheduled task, such as **20:23 every SUN of every week** if the task is scheduled


Schedule

Start Date 08/25/2020

Time 13:21

End Date MM/DD/YYYY

[✓ Once] Daily Weekly Monthly

2) In the **Schedule** window, select the required interval, and specify the options.
3) Click **Save**.

View the schedules for tasks

FrameMaker Publishing Server lists all the tasks that are defined for the server, and shows their run status. In addition to the list of all tasks, you can see the next run status of each task in the **Next Run** column of the Tasks dashboard.

Work with presets

In FMPS, you can reuse publishing tasks presets and save time.

Presets

In FMPS, you can create presets for output-formats that you want to generate. Presets include settings such as:

- Name for the preset
- DITAVAL file to use
- Settings (`.sts`) file to use

For repetitive tasks with the same settings, you can create and apply the presets to populate all the settings to save time. You can create private or shared presets. Private presets are visible and accessible to the creator of preset only. Shared presets are visible and accessible to all the users but can be edited only by the users who created them.

Add a preset

1) Select the **Preset** tab.
2) Using the **Add New PDF Preset** drop-down, select **Add New Preset**.
3) Provide a **Name** for the preset.
4) Specify the location of the **DitaVal File** that you want to attach to the preset.
5) Specify the location of the publish **Settings File** that you want to attach to the preset

NOTE:
The DITAVAL file and the settings file are uploaded and saved in MongoDB.

6) If you want to make your preset available for others, select **Shared**. If you do not select **Shared**, your preset is visible and available to you only.
7) Click **Save**.

Edit a preset

1) On the **Preset** tab, click on a preset's name.

   The Publish Preset dialog appears.
2) Make the required changes and click **Save**.

Duplicate a preset

Typically, you would need to create a duplicate of a preset when you want to use the same settings file, but a different DITAVAL file. In such a scenario, you can easily create a duplicate preset and use it with a publishing task.

1) On the FrameMaker Publishing Server dashboard, do one of the following:
   - Click a preset's name and in the *Publish Preset* dialog, click the **Duplicate** icon.
   - Select a preset and then select **Duplicate Preset** from the **Add New Preset** drop-down.
2) Open the duplicate preset, edit the required files, and click **Save**.

Delete presets

1) Do one of the following:
   - On the **Preset** tab, select the presets to be deleted and click **Delete**.
   - In the *Publish Preset* dialog, click **Delete**.

Logs

FrameMaker Publishing Server includes extensive logging features. You can use the FrameMaker Publishing Server logs to troubleshoot any publication task errors, and fix errors in the source documents such as unresolved cross-references. You can define FrameMaker Publishing Server logs to have extensive reports including the number of markers, pages, and so on.

You can specify the log settings for each publication task, or can use the default log settings for all tasks.

Specify default log settings

1) Open the publishing task for which you want to modify the log settings.
2) In the Task dialog, click the **Modify** link next to **Log Settings**.
3) In the Log Settings dialog, double-click (or use the move icons) to move the required entries in the **Don't Include** and **Include** lists.
4) Click **Save**.

View logs

You can view the logs of the completed publication tasks in two ways:

In the Task dialog

In the Task dialog, click on the **Log** tab. The Log tab displays all the logs relevant to the task in a reverse chronological order.

In the FrameMaker Publishing Server application folder

FMPS store all logs under the base folder:
`%appdata%\Adobe\FrameMakerPublishingServer\17\`

You can use log parsers to quickly collect publication-related reports from these logs.

The server component maintains the following logs:

- **Access logs**: The server access logs are stored in the following folder:
  `%appdata%\Adobe\FrameMakerPublishingServer\17\Nodelogs\logs`
  - **Node logs**: The Node js is another component of the server. The logs for this component are stored in the following folder:

    `%appdata%.Adobe\FrameMakerPublishingServer\17\Nodelogs`

    Error logs, warnings, information logs, and server restarts are logged here. The Node js opens a console for reporting logs, which can also be redirected to a temporary file using the command prompt.

The client component maintains the following logs:

- **FMPSWorker**: The client component (or worker/`FrameMakerServerEx.exe`) maintains any exception logs of its interaction with the FrameMaker instance in the following folder:

  `%appdata%\Adobe\FrameMakerPublishingServer\17\FMPSWorker`

Work with FMPS using REST APIs

FrameMaker Publishing Server comes with out-of-the-box REST APIs that can be used to create publishing tasks to publish content from Microsoft SharePoint, OpenText Documentum, or Adobe Experience Manager. The APIs work on resources such as users, tasks, presets, and more to create, retrieve, update, and delete resources.

IMPORTANT
The REST APIs are case-sensitive. Add the Request URL in the same case as the given syntax.

The end-point or the base URL of FMPS APIs is:

```
http[s]://<FMPS_server>:<port>/
```

NOTE:
`<FMPS_Server>` is the DNS or IP address of the system hosting FMPS. The default port is 7000.

REST API protocol

From a client machine, you can query FMPS using the following methods to create, retrieve, update, or delete (CRUD) resources. According to the REST protocol, everything on the server, such as tasks, presets, users, is treated as a resource. For more information on the REST protocol, see http://en.wikipedia.org/wiki/Representational_state_transfer

In the REST API URLs and method types table, the various GET, POST, DELETE, and PUT requests map to CRUD framework as:

REST API method types	CRUD aspect
Post	Create
Get	Retrieve
Put	Update
Delete	Delete

The following topics describe the REST APIs available to you for building your own FMPS custom client. Each API has its a specific URL that you can query. The methods, such as Get and Post, are the type of operations you are performing on the REST API. The URLs include parameters that you can pass to an API.

Create and update (Post and Put) requests have parameters passed in the body of the HTTP request as a JSON file as well as in the URL. Get and Delete have parameters in the URLs only. The various task type links in the Help URL include the schema required for the various tasks.

REST API for user management

The following REST APIs are available for managing user and their permissions in FMPS.

Register a new user

A POST method that registers a new user, and can only be used when `typeOfAuth` is set as `USERLOGIN` in `development.json`. Only a user with administrative privileges can register other users.

Request URL

```
http://<FMPS_server>:<port>/v16/auth/register
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request. This must be of another user with administrative privileges.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

The authorization header must also contain the basic authentication type authorization containing credentials (email and password) of the user who is to be registered. For example:

```
Authorization: Basic YWJjZEBhZG9iZS5jb206YWJjZA==
```

Request body

Name	Type	Description
`email`	JSON	An email ID with which the user account is created.

JSON body example

```
{"email":"fmadmin@adobe.com"}
```

Successful response

Returns a HTTP 200 (Successful) response with the user object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.
`406`	String	The request is not acceptable
`409`	String	User with the same credentials is already present.

Change user permission

A PUT method that changes the user permissions. There are two types of user permissions: USER and ADMIN. Only a user with ADMIN permissions can invoke this API.

To assign administrative permissions to your default (first) LDAP user, you will have to use the MongoDB's command-line tool. See Install and configure MongoDB for more details.

Request URL

```
http://<FMPS_server>:<port>/v16/user/changePermission/:id
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request. This must be of another user with administrative permissions.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`id`	String	The user ID of a user whose has to be granted administrative permissions.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

Request body

Name	Type	Description
`userPermission`	String	The type of permission that you want to assign to the user. Use `ADMIN` for administrative permissions, and `USER` for non-administrative permissions.

JSON body example

```
{
"userPermission": "ADMIN"
}
```

Successful response

Returns a HTTP 200 (Successful) response with the user object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.
`422`	String	The request is sent with incorrect data.

User login with USERLOGIN authentication

A POST method that logs the user into the system when USERLOGIN authentication mechanism is used.

Request URL

```
http://<FMPS_server>:<port>/v16/auth/login
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.
`Authorization`	String	A USERLOGIN (basic) authentication type authorization header containing credentials (email and password) of the user that wants to login.

Header example

```
{   "content-type": "application/json",}
```

The authorization header must also contain the basic authentication type authorization containing credentials (email and password) of the user who wants to login. For example:

```
Authorization: Basic dXNlcm5hbWVAYWRvYmUuY29tOnBhc3N3b3Jk
```

Successful response

Returns a HTTP 200 (Successful) response with the user's access token.

Error response

Code	Type	Description
`400`	String	A bad request is sent.
`403`	String	Access not granted.
`406`	String	The request is not acceptable.

User login with LDAP authentication

A POST method that logs the user into the system when LDAP authentication mechanism is used.

Request URL

```
http://<FMPS_server>:<port>/v16/auth/ldap
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`Authorization`	String	A USERLOGIN (basic) authentication type authorization header containing credentials (email and password) of the user that wants to login.

Header example

```
{  "content-type": "application/json",}
```

The authorization header must also contain the basic authentication type authorization header containing credentials (email and password) of the user who wants to login. For example:

```
Authorization: Basic dXNlcm5hbWVAYWRvYmUuY29tOnBhc3N3b3Jk
```

Successful response

Returns a HTTP 200 (Successful) response with the user's access token.

Error response

Code	Type	Description
`400`	String	A bad request is sent.
`401`	String	Use is not authorized.
`406`	String	The request is not acceptable.

REST APIs for working with presets

The following REST APIs are available for working with publishing presets.

Upload an STS file

A POST method that uploads a settings (`.sts`) file in a preset.

Request URL

```
http://<FMPS_server>:<port>/v16/presets/sts/upload
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "multipart/form-data",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Request body

Name	Type	Description
`file`	form-data	Path of the settings file that you want to upload.

JSON body example

```
multipart/form-data
```

Successful response

Returns a HTTP 200 (Successful) response with the settings file object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Upload a DITAVAL file

A POST method that uploads a DITAVAL file in a preset.

Request URL

```
http://<FMPS_server>:<port>/v16/presets/ditaval/upload
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "multipart/form-data",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Request body

Name	Type	Description
`file`	form-data	Path of the DITAVAL file that you want to upload.

JSON body example

```
multipart/form-data
```

Successful response

Returns a HTTP 200 (Successful) response with the DITAVAL file's object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Create a preset

A POST method that creates a preset, which contains one settings (`.sts`) file and an optional DITAVAL file.

Request URL

```
http://<FMPS_server>:<port>/v16/presets
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Request body

Name	Type	Description
`Name`	String	A unique name of the preset that you want to create.
`Shared`	String	Specify whether the preset is shared or not. Possible values are "`NO`" and "`YES`".
`ditavalid`	String	Unique ID of the DITAVAL file to associate with the preset. This is an optional parameter.
`stsfileid`	String	Unique ID of the settings (`.sts`) file to associate with the preset. This is a mandatory parameter.

JSON body example

```
{
    "Name": "test1234",
    "Shared": "NO",
    "ditavalid": "23525252542gsgsggxbc",
    "stsfileid": "23525252542sagRWEWGGSG"
}
```

Successful response

Returns a HTTP 200 (Successful) response with the newly created preset object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Update a preset

A PUT method that updates a preset, which contains one settings (`.sts`) file and an optional DITAVAL file.

Request URL

```
http://<FMPS_server>:<port>/v16/presets/:id
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`id`	String	A unique ID of the preset that you want to update.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

Request body

Name	Type	Description
`Name`	String	A unique name of the preset that you want to update. **NOTE:** The name of the preset cannot be updated.
`Shared`	String	Specify whether the preset is shared or not. Possible values are “`NO`” and “`YES`”.
`ditavalid`	String	Unique ID of the DITAVAL file to associate with the preset. This is an optional parameter.
`ditadirty`	String	Specified only if the DITAVAL file is updated. Possible values are `YES` or `NO`.
`stsfileid`	String	Unique ID of the settings (`.sts`) file to associate with the preset. This is a mandatory parameter.
`stsdirty`	String	Specified only if the settings file is updated. Possible values are `YES` or `NO`.

JSON body example

```
{
    "Name": "test1234",
    "Shared": "NO",
    "stsfileid": "{{UStsId}}",
    "stsdirty":"YES",
    "ditavalid": "23525252542gsgsggxbc",
    "ditadirty":"YES"
}
```

Successful response

Returns a HTTP 200 (Successful) response.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Delete a preset

A DELETE method that deletes a preset using the preset's ID.

Request URL

```
http://<FMPS_server>:<port>/v16/presets/:id
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`id`	String	The unique ID of the preset that you want to delete.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

Successful response

Returns a HTTP 200 (Successful) response with the deleted preset object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Get all presets

A GET method that retrieves all presets available in the system.

Request URL

```
http://<FMPS_server>:<port>/v16/presets
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Successful response

Returns a HTTP 200 (Successful) response with an array of all preset objects.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Get a specific output preset

A GET method that retrieves an existing output preset using its unique ID.

Request URL

```
http://<FMPS_server>:<port>/v16/presets/:id
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.

Name	Type	Description
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`id`	String	The unique ID of the preset that you want to retrieve.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

Successful response

Returns a HTTP 200 (Successful) response with the preset object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

REST APIs for working with tasks

The following REST APIs are available for working with publishing tasks.

Create a task

A POST method that creates a new publishing task. A task can be created using the preconfigured output presets, such as PDF, ePub, Responsive HTML5, and more, or a custom preset. To create a task with custom preset, you must have the settings file and DITAVAL (optional) file IDs before creating a task. Use the Upload an STS file and Upload a DITAVAL file APIs to upload the settings and DITAVAL files and get the file IDs.

Request URL

```
http://<FMPS_server>:<port>/v16/tasks
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Request body

Name	Type	Description
`Name`	String	A unique name of the task that you want to create.
`Input`	JSON	Contains the path of the file to publish and parameters to configure the book components. In case the input files are hosted on a CMS, then the connector settings are also included in the `Input` parameter.
`PrePublish`	JSON	Path of the script file to execute during the prepublish process.
`PostPublish`	JSON	Path of the script file or commands to execute after the publishing process completes.
`LogInfo`	JSON	Specify the information to capture in the log file for the current task.
`Outputs`	JSON	Contains the path to publish the output, the output format, and the preset ID to use. In case the output is to be stored on a CMS, then the login credentials for the CMS are also included in the `Outputs` parameter. If you are using GUID-based file system, then you must configure the `PublishedFileName` option in the `Outputs` parameter.
`Notification`	JSON	Specify an email ID on which the notification email is sent.

JSON body example

The following JSON request is for creating a task with the preconfigured output presets.

```
    {
        "Name": "SamePresetMultiOut4322",
        "FMServerTask": {
            "Version": 16,
            "Jobs": [
                {
                    "Input": {
                   "InputFile": "C:\\Sample\\Books\\Special\\Tables.fm",
                        "UpdateBook": {
                            "UpdateOLELinks": "NO",
                            "UpdateTextInsets": "NO",
                            "UpdateNumbering": "NO",
                            "UpdateXrefs": "NO",
                            "ApplyMasterPages": "NO",
                            "UpdateGeneratableComponents": "NO"
                        }
                    },
                    "PrePublish": {
                        "ExtendScript": {
                            "ScriptFile": ""
                        },
                        "prePublishid": ""
                    },
                    "PostPublish": {
                        "SystemCommand": {
                            "ScriptFile": ""
                        },
                        "postPublishid": ""
                    },
                    "LogInfo": {
                        "SupportedEncodings": "NO",
                        "AvailableFontFamilies": "NO",
                        "NumberofChaptersInBook": "NO",
                        "EmptyBookError": "NO",
                        "NumberofIndexMarkersPresent": "NO",
                        "ListofReferencedGraphics": "NO",
                        "ListofMissingGraphics": "NO",
                        "UnresolvedXrefInBook": "NO",
                        "UnresolvedTextRefInBook": "NO",
                        "ListofFilesInBook": "NO",
                        "ListofChaptersInBook": "NO",
                        "ListofGeneratableFilesInBook": "NO",
                        "NumberofAuthorMarkers": "NO",
                        "NumberofHF1Markers": "NO",
                        "NumberofHF2Markers": "NO",
                        "NumberofCommentMarkers": "NO",
                        "NumberofSubjectMarkers": "NO",
                        "NumberofGlossaryMarkers": "NO",
                        "NumberofEquationMarkers": "NO",
                        "NumberofHyperTextMarkers": "NO",
                        "NumberofCrossRefMarkers": "NO",
                        "NumberofConditionalTextMarkers": "NO",
                        "NumberofHTMLMacroMarkers": "NO"
                    },
                    "Outputs": [
                        {
                            "OutputFile":
"Z:\\SamePresetMultiOut32323\\Responsive",
                            "OutputFormat": "RH_RESPONSIVEHELP",
                            "Configuration": {
                                "presetid": "2346453767sfgfddfhfgdhfdgh"
                            }
                        },
                        {
                            "OutputFile":
"Z:\\SamePresetMultiOut65646464\\html",
                            "OutputFormat": "RH_BASICHTML",
                            "Configuration": {
                                "presetid": "gfsdsdhfghdhhgd"
                            }
                        },
                        {
                            "OutputFile":
"Z:\\SamePresetMultiOut543534543542\\pdf",
                            "OutputFormat": "FM_PDF",
                            "Configuration": {
                                "presetid": "235542352354235234sgsdg"
                            }
                        }
                    ]
                }
            ],
            "Notification": {
                "Emails": "test@adobe.com"
            }
        }
}
```

The following JSON request is for creating a task with the custom output presets.

```
{
   "Name": "testcustompreset",
   "_id": null,
   "runtaskid": "",
   "FMServerTask": {
      "Version": 16,
      "Jobs": [{
            "Input": {
               "InputFile":
    "/content/dam/testfm/Samples/UserGuide/Legal.fm",
               "Connector": {
                  "ConnectorType": "Adobe Experience Manager",
                  "Server": "http://yyyy.corp.adobe.com:4502/",
                  "UserField1": "crx.default",
                  "UserName": "",
                  "Password": "",
                  "id": ""
               },
               "UpdateBook": {
                  "UpdateOLELinks": "NO",
                  "UpdateTextInsets": "NO",
                  "UpdateNumbering": "NO",
                  "UpdateXrefs": "NO",
                  "ApplyMasterPages": "NO",
                  "UpdateGeneratableComponents": "NO"
               }
            },
            "PrePublish": {
               "ExtendScript": {
                  "ScriptFile": ""
               },
               "prePublishid": ""
            },
            "PostPublish": {
               "SystemCommand": {
                  "ScriptFile": ""
               },
               "postPublishid": ""
            },
            "LogInfo": {
               "SupportedEncodings": "NO",
               "AvailableFontFamilies": "NO",
               "NumberofChaptersInBook": "NO",
               "EmptyBookError": "NO",
               "NumberofIndexMarkersPresent": "NO",
               "ListofReferencedGraphics": "NO",
               "ListofMissingGraphics": "NO",
               "UnresolvedXrefInBook": "NO",
               "UnresolvedTextRefInBook": "NO",
               "ListofFilesInBook": "NO",
               "ListofChaptersInBook": "NO",
               "ListofGeneratableFilesInBook": "NO",
               "NumberofAuthorMarkers": "NO",
               "NumberofHF1Markers": "NO",
               "NumberofHF2Markers": "NO",
               "NumberofCommentMarkers": "NO",
               "NumberofSubjectMarkers": "NO",
                "NumberofGlossaryMarkers": "NO",
                "NumberofEquationMarkers": "NO",
                "NumberofHyperTextMarkers": "NO",
                "NumberofCrossRefMarkers": "NO",
                "NumberofConditionalTextMarkers": "NO",
                "NumberofHTMLMacroMarkers": "NO"
             },
             "Outputs": [{
                "OutputFile": "/content/dam/fmdita-outputs",
                "Connector": {
                   "ConnectorType": "Adobe Experience Manager",
                   "Server": "http://abc.def.adobe.com:4502",
                   "UserField1": "crx.default",
                   "UserName": "",
                   "Password": "",
                   "id": ""
                },
                "OutputFormat": "FM_PDF",
                "Configuration": {
                   "PresetName": "Custom",
                   "PresetType": "PDF",
                   "FM_PDFConfiguration": {
                      "DitaValFile": "ProductA_Administrator.ditaval",
                      "SettingsFile": "Default.sts",
                      "stsfileid": "5f083bb493655a1fc060f5d4",
                      "ditavalid": "5f083bb593655a1fc060f5d5"
                   },
                   "presetid": ""
                }
             }]
          }],
          "Notification": {
             "Emails": "123@adobe.com"
          }
       },
       "Schedule": {
          "_id": null
       }
    }
```

The following JSON request is for creating a task using the input files available on a CMS.

```
    {
        "Name": "AEM Task1",
        "_id": null,
        "runtaskid": "",
        "FMServerTask": {
            "Version": 16,
            "Jobs": [
                {
                    "Input": {
                        "InputFile": 
    "/content/dam/testfm/Samples/PartsCatalog/PartsCatalog.book",
                        "Connector": {
                            "ConnectorType": "Adobe Experience Manager",
                            "Server": "AEMHOST",
                            "UserField1": "crx.default",
                            "UserName": "AEMUSER",
                            "Password": "AEMPASS",
                            "id": ""
                        },
                        "UpdateBook": {
                            "UpdateOLELinks": "NO",
                            "UpdateTextInsets": "NO",
                            "UpdateNumbering": "NO",
                            "UpdateXrefs": "NO",
                            "ApplyMasterPages": "NO",
                            "UpdateGeneratableComponents": "NO"
                        }
                    },
                    "PrePublish": {
                        "ExtendScript": {
                            "ScriptFile": ""
                        },
                        "prePublishid": ""
                    },
                    "PostPublish": {
                        "SystemCommand": {
                            "ScriptFile": ""
                        },
                        "postPublishid": ""
                    },
                    "LogInfo": {
                        "SupportedEncodings": "NO",
                        "AvailableFontFamilies": "NO",
                        "NumberofChaptersInBook": "NO",
                        "EmptyBookError": "NO",
                        "NumberofIndexMarkersPresent": "NO",
                        "ListofReferencedGraphics": "NO",
                        "ListofMissingGraphics": "NO",
                        "UnresolvedXrefInBook": "NO",
                        "UnresolvedTextRefInBook": "NO",
                        "ListofFilesInBook": "NO",
                        "ListofChaptersInBook": "NO",
                        "ListofGeneratableFilesInBook": "NO",
                        "NumberofAuthorMarkers": "NO",
                        "NumberofHF1Markers": "NO",
                        "NumberofHF2Markers": "NO",
                        "NumberofCommentMarkers": "NO",
                        "NumberofSubjectMarkers": "NO",
                        "NumberofGlossaryMarkers": "NO",
                        "NumberofEquationMarkers": "NO",
                        "NumberofHyperTextMarkers": "NO",
                        "NumberofCrossRefMarkers": "NO",
                        "NumberofConditionalTextMarkers": "NO",
                        "NumberofHTMLMacroMarkers": "NO"
                    },
                    "Outputs": [
                        {
                            "OutputFile": "/content/dam/fmdita-outputs",
                            "Connector": {
                             "ConnectorType": "Adobe Experience Manager",
                                "Server": "AEMHOST",
                                "UserField1": "crx.default",
                                "UserName": "AEMUSER",
                                "Password": "AEMPASS",
                                "id": ""
                            },
                            "OutputFormat": "FM_PDF",
                            "Configuration": {
                                "presetid": "PresetId"
                            }
                        }
                    ]
                }
            ],
            "Notification": {
                "Emails": "user@enterprise.com"
            }
        },
        "Schedule": {
            "_id": null
        }
    }
```

The following JSON request is for creating a task and scheduling the execution time.

```
    {
       "Name": "ScheduledTask",
       "_id": null,
       "runtaskid": "",
       "FMServerTask": {
          "Version": 16,
          "Jobs": [{
            "Input": {
               "InputFile": "E:\\HTMLBUGS\\basic.fm",
               "UpdateBook": {
                  "UpdateOLELinks": "NO",
                  "UpdateTextInsets": "NO",
                  "UpdateNumbering": "NO",
                  "UpdateXrefs": "NO",
                  "ApplyMasterPages": "NO",
                  "UpdateGeneratableComponents": "NO"
               }
            },
            "PrePublish": {
               "ExtendScript": {
                  "ScriptFile": ""
               },
               "prePublishid": ""
            },
            "PostPublish": {
               "SystemCommand": {
                  "ScriptFile": ""
               },
               "postPublishid": ""
            },
            "LogInfo": {
               "SupportedEncodings": "NO",
               "AvailableFontFamilies": "NO",
               "NumberofChaptersInBook": "NO",
               "EmptyBookError": "NO",
               "NumberofIndexMarkersPresent": "NO",
               "ListofReferencedGraphics": "NO",
               "ListofMissingGraphics": "NO",
               "UnresolvedXrefInBook": "NO",
               "UnresolvedTextRefInBook": "NO",
               "ListofFilesInBook": "NO",
               "ListofChaptersInBook": "NO",
               "ListofGeneratableFilesInBook": "NO",
               "NumberofAuthorMarkers": "NO",
               "NumberofHF1Markers": "NO",
               "NumberofHF2Markers": "NO",
               "NumberofCommentMarkers": "NO",
               "NumberofSubjectMarkers": "NO",
               "NumberofGlossaryMarkers": "NO",
               "NumberofEquationMarkers": "NO",
               "NumberofHyperTextMarkers": "NO",
               "NumberofCrossRefMarkers": "NO",
               "NumberofConditionalTextMarkers": "NO",
               "NumberofHTMLMacroMarkers": "NO"
            },
            "Outputs": [{
               "OutputFile": "E:\\HTMLBUGS\\OUT",
                "OutputFormat": "FM_PDF",
                "Configuration": {
                   "PresetName": "test1597120516",
                   "PresetType": "PDF",
                   "presetid": "5f322004900d1e21a89e92de"
                }
             }]
          }],
          "Notification": {
             "Emails": ""
          }
       },
       "MetaInfo": {
          "Creator":
    "{\"username\":\"fmpsuser\",\"email\":\"fmpsuser@adobe.com\",\"userT
    ype\":\"ADMIN\"}"
       },
       "Schedule": {
          "_id": null,
          "Daily": {
             "StartDate": {
                "Year": 2022,
                "Month": "DEC",
                "DayofMonth": 16
             },
             "Time": {
                "Hour": 9,
                "Minute": 15,
                "AMPM": "AM"
             },
             "Interval": 1
          }
       }
    }
```

The following JSON request is for creating a task using the preconfigured output presets to generate PDF output. If you are integrating with Adobe Experience Manager (AEM), which uses GUID-based file naming convention, then you must configure the `PublishedFileName` option. If you do not specify the file name, then FMPS will generate the PDF using the same GUID as the source file, which will result in deletion of the source file. While specifying the `PublishedFileName` option, you don't need to specify the file extension, which defaults to `.pdf`.

The `PublishedFileName` option is optional for systems that do not use GUID-based file naming convention.

```
{
    "Name": "Publish PDF GUID AEM",
    "FMServerTask": {
        "Version": 16,
        "Jobs": [
            {
                "Input": {
                    "InputFile":
"C:\\Samples\\UserGuide\\UserGuide.book",
                    "UpdateBook": {
                        "UpdateOLELinks": "NO",
                        "UpdateTextInsets": "NO",
                        "UpdateNumbering": "NO",
                        "UpdateXrefs": "NO",
                        "ApplyMasterPages": "NO",
                        "UpdateGeneratableComponents": "NO"
                    }
                },
                "PrePublish": {
                    "ExtendScript": {
                        "ScriptFile": ""
                    },
                    "prePublishid": ""
                },
                "PostPublish": {
                    "SystemCommand": {
                        "ScriptFile": ""
                    },
                    "postPublishid": ""
                },
                "LogInfo": {
                    "SupportedEncodings": "NO",
                    "AvailableFontFamilies": "NO",
                    "NumberofChaptersInBook": "NO",
                    "EmptyBookError": "NO",
                    "NumberofIndexMarkersPresent": "NO",
                    "ListofReferencedGraphics": "NO",
                    "ListofMissingGraphics": "NO",
                    "UnresolvedXrefInBook": "NO",
                    "UnresolvedTextRefInBook": "NO",
                    "ListofFilesInBook": "NO",
                    "ListofChaptersInBook": "NO",
                    "ListofGeneratableFilesInBook": "NO",
                    "NumberofAuthorMarkers": "NO",
                    "NumberofHF1Markers": "NO",
                    "NumberofHF2Markers": "NO",
                    "NumberofCommentMarkers": "NO",
                    "NumberofSubjectMarkers": "NO",
                    "NumberofGlossaryMarkers": "NO",
                    "NumberofEquationMarkers": "NO",
                    "NumberofHyperTextMarkers": "NO",
                    "NumberofCrossRefMarkers": "NO",
                    "NumberofConditionalTextMarkers": "NO",
                    "NumberofHTMLMacroMarkers": "NO"
                },
                "Outputs": [
                    {
                        "OutputFile": "C:\\FMPS\\output",
                        "PublishedFileName": "samplePublishedFile",
                        "OutputFormat": "FM_PDF",
                        "Configuration": {
                            "presetid": "6011f0bc301fb91fa0e0e97c"
                        }
                    }
                ]
            }
        ],
        "Notification": {
            "Emails": "punagpal@adobe.com"
        }
    },
"Creator":
"{\"username\":\"fmpsuser\",\"email\":\"fmpsuser@adobe.com\",\"userT
ype\":\"ADMIN\"}"
   },
    "Schedule": {
        "Once": {
            "Date": {
                "Year": 2021,
                "Month": "MAR",
                "DayofMonth": 8
            },
            "Time": {
                "Hour": 1,
                "Minute": 15,
                "AMPM": "PM"
            }
        }
    }
}
```

Successful response

Returns a HTTP 200 (Successful) response with the newly created task's object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Delete a task

A DELETE method that deletes a task using the task's ID.

Request URL

```
http://<FMPS_server>:<port>/v16/tasks/:id
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`id`	String	The unique ID of the task that you want to delete.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

Successful response

Returns a HTTP 200 (Successful) response with the deleted task's object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Get all tasks

A GET method that retrieves all tasks available in the system.

Request URL

```
http://<FMPS_server>:<port>/v16/tasks
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Successful response

Returns a HTTP 200 (Successful) response with an array of all task objects.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Get a specific task

A GET method that retrieves an existing task using its unique ID.

Request URL

```
http://<FMPS_server>:<port>/v16/task/:id
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`id`	String	The unique ID of the task that you want to retrieve.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

Successful response

Returns a HTTP 200 (Successful) response with the task's object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Get the status of a task of a specific user

A GET method that retrieves the status of an existing task created by a specific user.

Request URL

```
http://<FMPS_server>:<port>/v16/tasks/status/:taskid/:userid
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`taskid`	String	The unique ID of the task that you want to retrieve.
`userid`	String	The unique ID of the user who has created the task.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

```
5e4302fafdfdfadsfdfasgafsafgsag
```

Successful response

Returns a HTTP 200 (Successful) response with the status of the retrieved task.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Get the status of a running task

A GET method that retrieves the status of a running task.

Request URL

```
http://<FMPS_server>:<port>/v16/queue/status/:runid
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`runid`	String	The unique ID of the task whose status you want to retrieve.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

Successful response

Returns a HTTP 200 (Successful) response with the running status of the retrieved task. The status could have the following values: `NOT_SCHEDULED`, `QUEUED`, `RUNNING`, `COMPLETED`, `FAILED`, or`KILLED`.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Update a task

A PUT method that updates a task using its task ID.

Request URL

```
http://<FMPS_server>:<port>/v16/tasks/:id
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`id`	String	The unique ID of the task that you want to update.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

Request body

Name	Type	Description
`Name`	String	A unique name of the task that you want to update. **NOTE:** The name of the task cannot be updated.
`Input`	JSON	Contains the path of the file to publish and parameters to configure the book components. In case the input files are hosted on a CMS, then the connector settings are also included in the `Input` parameter.
`PrePublish`	JSON	Path of the script file to execute during the prepublish process.

Name	Type	Description
`PostPublish`	JSON	Path of the script file or commands to execute after the publishing process completes.
`LogInfo`	JSON	Specify the information to capture in the log file for the current task.
`Outputs`	JSON	Contains the path to publish the output, the output format, and the preset ID to use. In case the output is to be stored on a CMS, then the login credentials for the CMS are also included in the `Outputs` parameter.
`Notification`	JSON	Specify the email ID on which the notification email is sent.

JSON body example

Refer to the example given under Create a task.

Successful response

Returns a HTTP 200 (Successful) response with the updated task's object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Upload a post-publish script file

A POST method that uploads a post-publish script file to use in a task. Once the file is uploaded, you can use the file's ID in a task to associate with the corresponding task.

Request URL

```
http://<FMPS_server>:<port>/v16/tasks/post/upload
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "multipart/form-data",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Request body

Name	Type	Description
`file`	form-data	Path of the file that you want to upload and execute in the post-publish process.

JSON body example

```
multipart/form-data
```

Successful response

Returns a HTTP 200 (Successful) response with the post-publish script file's object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Upload a prepublish script file

A POST method that uploads a prepublish script file use in a task. Once the file is uploaded, you can use the file's ID in a task to associate with the corresponding task.

Request URL

```
http://<FMPS_server>:<port>/v16/tasks /pre/upload
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "multipart/form-data",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Request body

Name	Type	Description
`file`	form-data	Path of the file that you want to upload and execute in the prepublish process.

JSON body example

```
multipart/form-data
```

Successful response

Returns a HTTP 200 (Successful) response with the prepublish script file's object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

REST APIs to work with scheduling tasks

The following REST APIs are available for working with scheduling tasks.

Schedule a task

A POST method that schedules a task using the task ID. At any time, there can be only one task in the schedule queue. Also, you must keep a delay of ~1 second in between two consecutive tasks.

Request URL

```
http://<FMPS_server>:<port>/v16/queue/scheduleTask/:id
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`id`	String	The unique ID of the task that you want to schedule.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

Successful response

Returns a HTTP 200 (Successful) response with scheduled event.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Get ID of a running task

A GET method that retrieves the running ID of a publishing task.

Request URL

```
http://<FMPS_server>:<port>/v16/queue/task/running/:id
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`id`	String	The unique ID of the task that you want to retrieve the running ID for.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

Successful response

Returns a HTTP 200 (Successful) response with the queue object that contains the running ID of the publishing task.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Stop a running task

A POST method that stops a running publishing task.

Request URL

```
http://<FMPS_server>:<port>/v16/queue/stopTask
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Request body

Name	Type	Description
`runid`	String	ID of the running task that you want to stop.

JSON body example

```
{"runid":"454654456464"}
```

Successful response

Returns a HTTP 200 (Successful) response with an object to terminate the task.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Get running object details for a GUID

A GET method that retrieves the run object’s ID for a task through its GUID.

Request URL

```
http://<FMPS_server>:<port>/v16/queue/task/lastrunguid/:guid
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`guid`	String	GUID of the task that is scheduled for running in the publishing queue.

Parameter example

```
342342553423425
```

Successful response

Returns a HTTP 200 (Successful) response with the run object's ID for a task that has already started executing. If the task has been scheduled, but it has not yet started, then the following message is returned in a JSON:

```
Guid is present in the task, but not for the running queue. It is
probably scheduled. Please wait.
```

Error response

Code	Type	Description
`400`	String	A bad request is sent.
`404`	String	Task not found for the given GUID.

Get all objects present in the running task queue

A GET method that retrieves all objects present in the running task queue. This includes completed, queued, terminated, or currently running tasks.

Request URL

```
http://<FMPS_server>:<port>/v16/queue
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Successful response

Returns a HTTP 200 (Successful) response with the list of queued objects.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Get the details of a specific queued object

A GET method that retrieves the status of a particular queued object. The queued object's ID is used to retrieve all details.

Request URL

```
http://<FMPS_server>:<port>/v16/queue/:id
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`id`	String	The unique ID of the queued object that you want to retrieve.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

Successful response

Returns a HTTP 200 (Successful) response with the queued object.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Other REST APIs to work with the server and logs

The following REST APIs are available for checking server status, connection parameters, and working with FMPS logs.

Get the server status

A GET method that returns the status of the server component.

Request URL

```
http://<FMPS_server>:<port>/ping
```

Successful response

Returns a HTTP 200 (Successful) response with JSON object containing information about the server's status.

Error response

Code	Type	Description
`500`	String	A error occurred while retrieving the server's status.

Get server connection parameters

A GET method that retrieves the server's connection parameters.

Request URL

```
http://<FMPS_server>:<port>/v16/connectionParameter
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.

Header example

```
{
  "content-type": "application/json",
}
```

Successful response

Returns a HTTP 200 (Successful) response with JSON object containing server's connection parameters.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Enable or disable logging and change log level

A POST method that enables or disables logging. By default, logs are turned off. You can also configure logs from the application's user interface, for more details see Specify default log settings.

In addition to enabling logs, you can also configure the log level. The possible values for log level are: `FATAL`, `ERROR`, `WARN`, `INFO`, and`DEBUG`. By default, log level is set to `INFO`.

You can either enable the logs or set the log level, or configure both by providing the required parameters in query string of the API.

Request URL

```
http://<FMPS_server>:<port>/v16/enableLogging?enable=[]&level=[]
```

Header

Name	Type	Description
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Request body

Name	Type	Description
`enable`	Integer	Query parameter that enables (`1`) or disables (`0`) logs.
`level`	String	Query parameter that sets the level of logging information to capture. Possible values are: `FATAL`, `ERROR`, `WARN`, `INFO`, and`DEBUG`.

JSON body example

```
?enable=0
```

```
?level=ERROR
```

Successful response

Returns a HTTP 200 (Successful) response.

Error response

Code	Type	Description
`400`	String	A bad request is sent.
`403`	String	Access not granted.

Get last *n* number of logs for a specific task

A GET method that retrieves the last *n* number of logs for a specific task. It uses the task ID and the number specified in the parameters to retrieve the logs.

Request URL

```
http://<FMPS_server>:<port>/v16/logs/task/list/:id/:lastnrun
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`id`	String	The unique ID of the task for which you want to retrieve the logs.
`lastnrun`	Integer	The number of last *n* logs to retrieve for the given task.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

```
5
```

Successful response

Returns a HTTP 200 (Successful) response with the last *n* logs for the task.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Get logs for a specific task by its run ID

A GET method that retrieves the logs for a specific task using the run ID. It uses the task ID and the run ID in the parameters to retrieve the logs. In addition, you can also specify the type of logs to retrieve in the query string.

Request URL

```
http://<FMPS_server>:<port>/v16/logs/task/run/:id/:runid
```

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Parameter

Name	Type	Description
`id`	String	The unique ID of the task for which you want to retrieve the logs.
`runid`	Integer	ID of the run task for which you want to retrieve the logs.

Parameter example

```
5e4302fafdfdfadsfdfasgafsafgsag
```

```
5e4302fafdfdfadsfdfasgafsafgsag
```

Successful response

Returns a HTTP 200 (Successful) response with the logs for the given task and run ID.

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Get all clients (or workers)

A GET method that retrieves all clients that are available and ready to take publishing tasks from the server.

Request URL

`http://<FMPS_server>:<port>/v16/worker/getallworkers`

Header

Name	Type	Description
`content-type`	String	Type of content that is sent in the request.
`X-Access-Token`	String	The authentication token that is sent in the request.

Header example

```
{
  "content-type": "application/json",
  "X-Access-Token": "eyJ0eXAiOiJKhjshjafakjfkadfas"
}
```

Successful response

Returns a HTTP 200 (Successful) response with an array of all clients (or workers).

Error response

Code	Type	Description
`400`	String	A bad request is sent.

Access API documentation

You can access the complete API documentation from FMPS user interface. To access the documentation, perform the following steps:

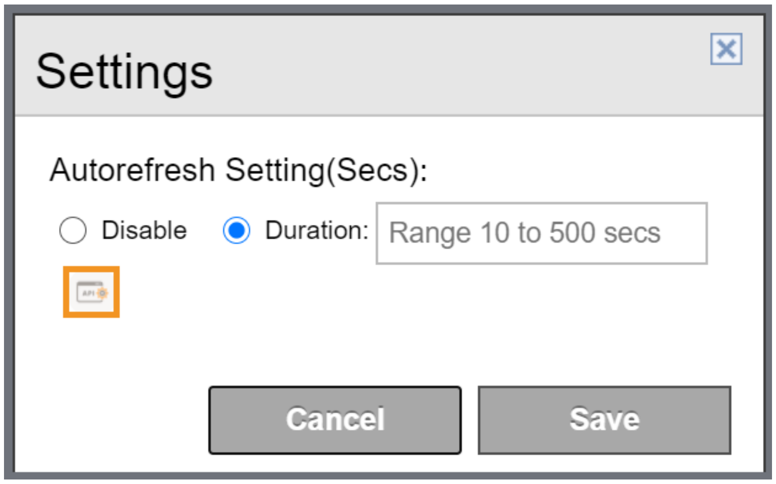
1) Access the FMPS web interface by entering the following URL in your browser:
   `http[s]://<FMPS_server>:<port>/index.html`

NOTE:
<FMPS_Server> is the DNS or IP address of the system hosting FMPS. The default port is 7000.

2) Click **Settings** (⚙)
   The *Settings* dialog appears.
3) In the *Settings* dialog, click on the (highlighted) API documentation link.

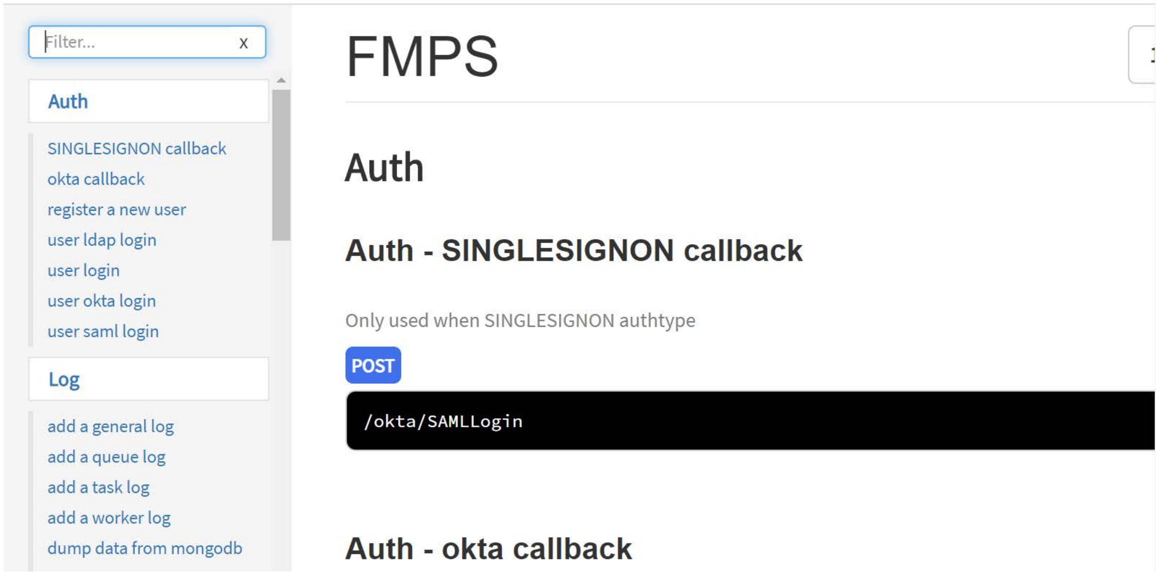
NOTE:
You can also access the API documentation by entering `http[s]://<FMPS_-server>:<port>/documentation/index.html` URL in your browser.

Access the API documentation



4) The FMPS API documentation is launched in a new tab.

FMPS API documentation


Filter...
Auth
SINGLESIGNON callback
okta callback
register a new user
user ldap login
user login
user okta login
user saml login
Log
add a general log
add a queue log
add a task log
add a worker log
dump data from mongodb

FMPS

Auth

Auth - SINGLESIGNON callback

Only used when SINGLESIGNON authtype

POST

```
/okta/SAMLLogin
```

Auth - okta callback

From the left navigation panel, click on the API that you want to view. The right (body) area displays the API details.

FMPS troubleshooting

1) What products are installed via FMPS?
   a) FrameMaker (September 2022 release)
   b) FrameMaker Publishing Server Component
   c) FrameMaker Publishing Client Component
2) If a task/log/file is not getting deleted via the APIs, what could be the issue?
   a) There could be a problem with the permissions. You should give full permissions to the domain\user who runs the task.
3) I get a message "Object reference not set to an instance of an object". What can be the problem?
   a) The website type you are accessing is not correct. Check if the http port is open or https is correctly configured.
4) How do I enable http ports for the FMPS website to be accessed from other computers?
   a) Say you want to allow Win Server allow for port access.
   b) To access the firewall, select Start -> Type in "Firewall" -> Click on "Windows Firewall With Advanced Security"
   c) To configure an inbound traffic rule:

      i. Right click "Inbound Rules" on the left pane

      ii. Choose "New Rule"

      iii. Choose "Port"

      iv. Under "Specific ports" enter your port number (default port is 7000)

v. Continue with "Next" until the end of the wizard, naming the rule when prompted

d) Check if your port is now accessible - you might need to restart the Windows Firewall service (under "Services")

5) Why do I not get an email after a task is complete?

   a) Your virus scan may be blocking the emails. Try disabling that setting. For example, in McAfee -> Access protection properties -> (uncheck) Prevent mass mailing worms from sending mails

6) Why am I not able to see Math ML equations in the published documents?

   a) Check whether you have accepted EULA for Math ML. Open FrameMaker and go to Special > MathML , if the EULA pops up ,accept it.

   b) Check whether JRE is installed on the machine. If not, install it from: http://java.com/en/download/help/index_installing.xml

Legal notices

For legal notices, visit the Legal Notices page.