

Monarch Server Report Mining Edition

Version 14.3



[Mobius Integration]



Datawatch Corporation makes no representation or warranties with respect to the contents of this manual or the associated software and especially disclaims any implied warranties of merchantability or fitness for any particular purpose. Further, Datawatch Corporation reserves the right to revise this publication and make changes from time to time to its contents without obligation to notify anyone of such revisions or changes.

Monarch Server 14.3 software is offered and is to be used in accordance with a SOFTWARE LICENSE AND MAINTENANCE AGREEMENT. This agreement stipulates that this software be used only in the computer system designated in that agreement. The agreement further stipulates that the customer shall not copy or alter, or permit others to copy or alter, the software or related materials in whole or in part, in any media for any purpose, except to make an archive (back-up) copy or to make a copy as an essential step in the use of the software with the customer's computer.

Datawatch Corporation hereby grants the buyer the right to reprint this documentation for internal uses only. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, for any other purposes, without the prior written permission of Datawatch Corporation.

Monarch Server Version 14.3 RMS and Mobius Integration

Copyright © 2017 by Datawatch Corporation

All rights reserved. Printed in the U.S.A.

Unpublished - Rights reserved under the copyright law of the United States.

Monarch Server and Monarch Professional are trademarks of Datawatch Corporation. Other products mentioned herein may be trademarks or registered trademarks of their respective owners in the United States or other countries.

For U.S. Government End Users, the software is a "Commercial Item(s)," as that term is defined at 48 C.F.R. Section 2.101, consisting of "Commercial Computer Software" and "Commercial Computer Software Documentation," as such terms are used in 48 C.F.R. Section 12.212 or 48 C.F.R. Section 227.7202, as applicable. Consistent with 48 C.F.R. Section 12.212 or 48 C.F.R. Sections 227.7202-1 through 227.7202-4, as applicable, the Commercial Computer Software and Commercial Computer Software Documentation are being licensed to U.S. Government end users (a) only as Commercial Items and (b) with only those rights as are granted to all other end users pursuant to the Datawatch Software License and Maintenance Agreement.

DATAWATCH CORPORATION

CORPORATE HEADQUARTERS

4 Crosby Drive
Bedford, MA 01730, USA
Tel.: +1 800.445.3311
Fax: +1 978.441.1114

NEW YORK

415 Madison Avenue, Suite 1421
New York, NY 10017
Tel.: +1 800.445.3311

GREENSBORO, NC

101 S Elm #225
Greensboro, NC 27401
Tel: +1 800.445.3311

EUROPE, MIDDLE EAST, AND AFRICA

EUROPEAN HEADQUARTERS

Siena Court, Broadway
Maidenhead, Berkshire SL6 1NJ
Tel: +44 203.868.0230

DATAWATCH AB

Eriksbergsgatan 10
Stockholm, Sweden SE-114 30
Tel: +46 853.480.483

ASIA PACIFIC

MANILA

U2011 20th Flr Jollibee Plaza Condominium
F. Ortigas Jr. Rd., Ortigas Center
Pasig City 1605 PH
Tel: +63 2.633.5583

Table of Contents

Introduction	1
Entry Point for Initiation Request	2
Communication Flow of RMS and Mobius	3
Selecting Mobius Test Framework Presentation Type	5
Monarch Server RMS–Mobius Test Framework.....	2

Introduction

Monarch Server Report Mining Server (RMS) Edition can be used through an initiation request. The request is sent using the HTTP GET method.



Entry Point for Initiation Request

The initiation request is sent to the RMS entry point. The URL for the Mobius web service entry point is

```
http://<host name>:<port number>/<RMS virtual directory/ExternalLaunch/MobiusLaunch? pageUrl=<page URL parameter>
```

where

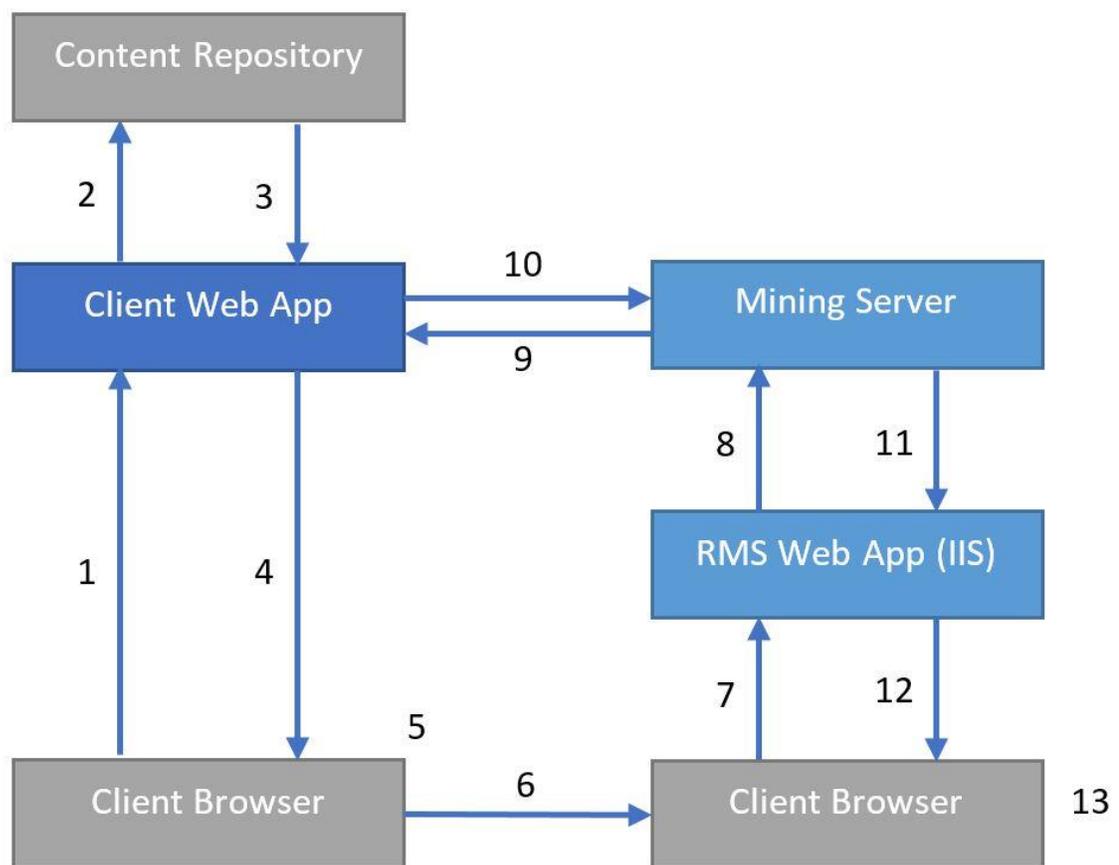
- ❑ <host name> is the name of the computer where the target RMS Web Server component is installed
- ❑ <port number> is the port number on which the RMS Web Server is listening
- ❑ <RMS virtual directory> is the virtual directory under which the application has been installed (default: RMSClient)
- ❑ <page URL parameter> is a URI to the Mobius REST API endpoint to retrieve document content in the following format: `http://<mobius host>:<port>/<Mobius virtual directory>/rest/contentstreams/?id=<document id>&other_parameters`



Communication Flow of RMS and Mobius

and Mobius

The communication between RMS and Mobius is illustrated below. In the illustration, numbers are used to mark the processes involved. Refer to the corresponding description that follows.



1. The user requests results from the content repository.
2. The Web App processes the request.
3. The Web App fulfills the request.
4. The requested content reference information is returned to Client.
5. The user chooses to open a mining session.
6. Client launches a browser with RMS URI with session parameters.

7. The browser automatically submits the URI with RMS session parameters.
8. The mining request is submitted to the Mining Server.
9. Document data and metadata are requested from the Client REST API.
10. The Mining Server returns the report data via API from the Client Web App.



NOTES

RMS sends the following additional requests to Mobius REST API to acquire metadata of the provided document:

- **HEAD request to URI passes through the <page URL parameter> to get the ContentType.**
- **GET request to `http://<mobius host>:<port>/<Mobius virtual directory>/rest/documents/<document id>/parents` to retrieve the parent folders of the specified document. The response contains a list of folder IDs.**
- **GET request to `http://<mobius host>:<port>/<Mobius virtual directory>/rest/folders/<folder id>/children`.** RMS matches the response to the provided document ID to get the metadata of the document and the ReportID.

RMS considers a model from the Server Library with the same name as the value of the ReportID from the metadata of a particular document.

11. The Mining Server retrieves the associated model from the Server Library according to the document metadata and processes the report with the model returning the data or object.
12. The Web App formats the presentation if needed and provides client presentation.
13. Temporary files (if used) are deleted upon session termination.

	NAME	DESCRIPTION	DEFINITION ID	LOCKED	URL	DELETE
1	Report01		8e77c88a-38a-41ee-858a-2132e130778a	☑	↗	✕
2	Report02		c305489-0167-44aa-946d-8ee4129e89ab	☑	↗	✕



Selecting Mobius Test Framework Presentation Type

The initiation request contains instructions to determine the type of presentation provided. You can select interactive, export, external, or Mobius type of presentation in Monarch Server RMS.



The Mobius test framework type of presentation is used to imitate a request from the Mobius portal.

To open the Mobius test framework presentation

- Click the **Mobius** button in [Monarch Server RMS](#).

For information about the interactive and export types of presentation, see the *Monarch Server v14.3 RMS Initiation Request* document.

Monarch Server RMS–Mobius

Test Framework

The Mobius test framework can be accessed through the following URI:

```
http://<host name>:<port number>/<RMS virtual
directory>/TestFramework/ChoiceRequestType
```

where

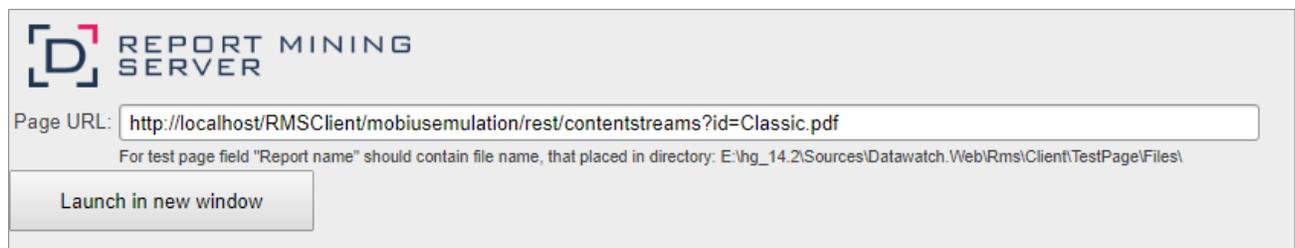
- ❑ <host name> is the name of the computer where the target RMS Web Server component is installed
- ❑ <port number> is the port number on which the RMS Web Server is listening
- ❑ <RMS virtual directory> is the virtual directory under which the application has been installed (default: RMSClient)

The request is sent using the HTTP GET method. All parameters are passed as fields of the GET request.

The URL for the Mobius test framework view request is

```
http://<host name>:<port number>/<RMS virtual directory>/TestFramework/
MobiusTest
```

RMS recognizes the request and then queries the content of the document and model to display views with the appropriate data. As a result, the page with the appropriate request parameters will be displayed.



The screenshot shows the Report Mining Server interface. At the top left is the logo for Report Mining Server, which consists of a stylized 'D' inside a square followed by the text 'REPORT MINING SERVER'. Below the logo is a text input field labeled 'Page URL:' containing the URL 'http://localhost/RMSClient/mobiusimulation/rest/contentstreams?id=Classic.pdf'. Below the input field is a small note: 'For test page field "Report name" should contain file name, that placed in directory: E:\hg_14.2\Sources\Datawatch.Web\Rms\Client\TestPage\Files\'. At the bottom of the form is a button labeled 'Launch in new window'.

The page contains the following items:

- ❑ **Page URL** field: URL for downloading the content of the document.