

Retek[®] Demand Forecasting[™] 11.1

Installation Guide

ORACLE[®]



Corporate Headquarters:

Retek Inc.
Retek on the Mall
950 Nicollet Mall
Minneapolis, MN 55403
USA
888.61.RETEK (toll free US)
Switchboard:
+1 612 587 5000
Fax:
+1 612 587 5100

European Headquarters:

Retek
110 Wigmore Street
London
W1U 3RW
United Kingdom
Switchboard:
+44 (0)20 7563 4600
Sales Enquiries:
+44 (0)20 7563 46 46
Fax:
+44 (0)20 7563 46 10

The software described in this documentation is furnished under a license agreement, is the confidential information of Retek Inc., and may be used only in accordance with the terms of the agreement.

No part of this documentation may be reproduced or transmitted in any form or by any means without the express written permission of Retek Inc., Retek on the Mall, 950 Nicollet Mall, Minneapolis, MN 55403, and the copyright notice may not be removed without the consent of Retek Inc.

Information in this documentation is subject to change without notice.

Retek provides product documentation in a read-only-format to ensure content integrity. Retek Customer Support cannot support documentation that has been changed without Retek authorization.

The functionality described herein applies to this version, as reflected on the title page of this document, and to no other versions of software, including without limitation subsequent releases of the same software component. The functionality described herein will change from time to time with the release of new versions of software and Retek reserves the right to make such modifications at its absolute discretion.

Retek® Demand Forecasting™ is a trademark of Retek Inc.

Retek and the Retek logo are registered trademarks of Retek Inc.

This unpublished work is protected by confidentiality agreement, and by trade secret, copyright, and other laws. In the event of publication, the following notice shall apply:

©2005 Retek Inc. All rights reserved.

All other product names mentioned are trademarks or registered trademarks of their respective owners and should be treated as such.

Printed in the United States of America.

Customer Support

Customer Support hours

Customer Support is available 7x24x365 via email, phone, and Web access.

Depending on the Support option chosen by a particular client (Standard, Plus, or Premium), the times that certain services are delivered may be restricted. Severity 1 (Critical) issues are addressed on a 7x24 basis and receive continuous attention until resolved, for all clients on active maintenance. Retek customers on active maintenance agreements may contact a global Customer Support representative in accordance with contract terms in one of the following ways.

Contact Method	Contact Information
----------------	---------------------

E-mail	support@retex.com
--------	-------------------

Internet (ROCS)	rocs.retek.com Retek's secure client Web site to update and view issues
-----------------	---

Phone	+1 612 587 5800
-------	-----------------

Toll free alternatives are also available in various regions of the world:

Australia	+1 800 555 923 (AU-Telstra) or +1 800 000 562 (AU-Optus)
France	0800 90 91 66
Hong Kong	800 96 4262
Korea	00 308 13 1342
United Kingdom	0800 917 2863
United States	+1 800 61 RETEK or 800 617 3835

Mail	Retek Customer Support Retek on the Mall 950 Nicollet Mall Minneapolis, MN 55403
------	---

When contacting Customer Support, please provide:

- Product version and program/module name.
- Functional and technical description of the problem (include business impact).
- Detailed step-by-step instructions to recreate.
- Exact error message received.
- Screen shots of each step you take.

Contents

Chapter 1 – Introduction	1
Intended Audience	1
About this Document	1
Chapter 2 – Installation	3
Installation Overview	3
Detailed Installation Instructions	4
Installation Notes	4
Step 1: Extract RPAS Client and Server files for installation	4
Step 2: Install server-side software	5
Step 3: Install the RPAS Configuration Tools (optional)	5
Step 4: Install the RPAS Client	6
Step 5: Start the RPAS DomainDaemon	6
Step 6: Obtain the solution install package	6
Step 7: Extract and install the solution package	7
Step 8: Create or Modify a Configuration (optional)	9
Step 9: Copy Configuration Files to the Domain Server	9
Step 10: Update the Sales Data and Hierarchy Files	9
Step 11: Configure sciPostInstall	10
Step 12: Determine the Path for the Domain(s)	10
Step 13: Create a Global Domain Configuration Directory (optional)	10
Step 14: Run sciInstall to Install the Domain(s)	11
Step 15: Configure the RPAS Client to use the domain	13
Chapter 3 – Patching	15
Patching Overview	15
Step 1: Unzip and Install the ARPOPlatform and Solution Patch Packages	16
Step 2: Extract the contents of PlugIn.zip to \$RIDE_HOME	16
Step 3: Extract InstallScripts.zip to \$SCI_HOME/scripts (optional)	16
Step 4: Autogenerate the RDF, Curve, Promote or Grade Solutions That are Implemented	17
Step 5: Copy Configuration Files to the Domain Server	17
Step 6: Configure sciPostPatch	17
Step 7: Run sciPatch to Patch Domain(s)	17

Chapter 1 – Introduction

This document provides instructions on installing: Retek Demand Forecasting (RDF), Curve, Promote and Grade v11.1.x on the RPAS 11.1.x platform. The process described in this document begins after the .zip files have been properly downloaded from <http://fulfillment.retek.com>. License keys for licensed products must be obtained prior to beginning the installation process.

Intended Audience

This document is intended for an MIS administrator that needs to install the RPAS software and create RDF, Curve and Grade domains.

About this Document

This document provides detailed instructions for how to install an RDF, Curve, Promote or Grade Solution on a RPAS 11.1.x platform using a configuration created via the RPAS Configuration Tools. This document does not describe how to create the actual configuration. The RPAS 11.1 Solution Extension Configuration Guide documents the steps required to create a configuration.

Supplemental installations guides are referenced in this document. The RPAS 11.1 Installation Guide, RPAS 11.1 Configuration Guide, and RDF 11.1 Administrator Guide must be obtained prior to beginning the installation process. **Please read these documents in their entirety before beginning the installation.**

Chapter 2 – Installation

Installation Overview

The following is an overview of the steps involved in the installation of all the software components required for a typical RDF, Curve, Promote, or Grade product installation. The subsequent sections go into deeper detail for each of the following:

- Step 1: Extract RPAS Client and Server files for installation
- Step 2: Install server-side software
- Step 3: Install the RPAS Configuration Tools (optional)
- Step 4: Install the RPAS Client
- Step 5: Start the RPAS DomainDaemon
- Step 6: Obtain the Solution Install Package
- Step 7: Extract and Install the Solution Package
- Step 8: Create or Modify a Configuration (optional)
- Step 9: Copy Configuration Files to the Domain Server
- Step 10: Update the Sales Data and Hierarchy Files
- Step 11: Configure sciPostInstall
- Step 12: Determine the Path for the Domain(s)
- Step 13: Create a Global Domain Configuration Directory (optional)
- Step 14: Run sciInstall to Install the Domain(s)
- Step 15: Configure the RPAS Client to use the domain



Note: Steps 1 through 5 may overlap with the installation instructions of the ARPOPlatform or other Retek Solutions.

Detailed Installation Instructions

Installation Notes

For the purposes of this document, '/' will be used to delineate directories and files in paths. Users in a Windows Command Prompt environment will need to either use '\' as the delineation character or use double quotes around paths.

When unzipping files on a UNIX server, the '-a' option is required. For example: unzip -a example.zip

Paths on Windows are not case-sensitive and on UNIX paths are case-sensitive.

Step 1: Extract RPAS Client and Server files for installation

The RPAS Client and Server software are provided to you in a .zip format. Prior to beginning this process you must download the .zip files from Retek's Fulfillment Center (<http://fulfillment.retek.com>). The latest patch release should also be obtained from Retek Online Customer Support (<http://rocs.retek.com/>). You must have also obtained a proper license key from Retek for the use of this software. The following .zip files are required for this installation process:

- 1 ARPOplatform-<version>.<platform>.zip – where <version> is the current RPAS version and <platform> is your operating system platform (AIX, SUN, HP, NT)
e.g. ARPOplatform-11.1.x.aix.zip
- 2 ARPOplatform-11.1docs.zip



Note: The actual installation of these files will occur in a later step.

Step 1.1

Unzip the ARPOplatform-<version>.<platform>.zip file to a location on the Configuration Tools Workstation (NT) and the server where the domain is to be installed. For this guide, assume that location is called /root/arpo.

The following subfolders will be created in /root/arpo:

/Acumate – contains the setup files for the Acumate installation

/Client – contains the setup files for the RPAS client installation

/RpasServer – contains the setup files for the RPAS Server installation

/Sample_Config – contains the .zip file for building a Sample configuration

/Tools – contains the .zip file for the configuration tools installation

/Web – contains the files for installing and operating a Web-based deployment of RPAS

Step 1.2

Unzip the ARPOplatform-<version>.docs.zip file to a location on the Configuration Tools Workstation (NT) and the server where the domain is to be installed. The following documentation guides will be extracted:

- RPAS 11.1 Administrator Guide: rpas-111-ag.pdf
- RPAS 11.1 Installation Guide: rpas-111-ig.doc
- RPAS 11.1 Calculation Engine User Guide: rpas-111-ceug.pdf
- RPAS 11.1 Configuration Guide: rpas-111-cg.pdf
- RPAS 11.1 Configuration Tools Release Notes: rpas-111-ctrn.pdf
- RPAS 11.1 Release Notes: rpas-111-rn.pdf
- RPAS 11.1 User Guide: rpas-111-ug.pdf
- RPAS 11.1 Solution Extension Configuration Guide: rpas-111-secg.pdf

Step 2: Install server-side software

This step will install the database-access software, Acumate, and the RPAS Server-side software. Also required is the installation of the configuration tools domain installer. All steps are required for a successful installation.

Step 2.1

Please refer to the RPAS 11.1 Installation Guide for an overview and instructions on how to install Acumate and the RPAS server software. Note the location of the installation files that were unzipped in Step 1.1.

During this installation step, a directory will be created to store the RPAS server software. This directory will be referred to later in this document as \$RPAS_HOME.

Step 2.2

Please refer to the RPAS 11.1 Installation Guide for instructions on installing the RPAS Configuration Tools. Note the location of the zip file that was unzipped in Step 1.1. This directory will be referred to later in this document as \$RIDE_HOME.



Note: The RPAS Configuration Tools installation will install all tools components as part of the installation process. However, only the tools domain installer program is utilized on the server. A system administrator on a Windows client machine uses the remaining components.

Step 3: Install the RPAS Configuration Tools (optional)

This is an optional step and is only required to be done on the administrator's machine or the person who has been identified to support the configuration. The RPAS Configuration Tools must be installed on a Windows client if you are not starting with an existing configuration or if changes are to be made to an existing configuration. Please refer to the RPAS 11.1 Installation Guide for instructions on installing the Configuration Tools. This directory will be referred to later in this document as \$RIDE_HOME.

Step 4: Install the RPAS Client

The RPAS client must be installed on any (Windows) machine that will be used to access the domains.

Please refer to the RPAS 11.1 Installation Guide for instructions on installation and use the RPAS Client.

The client files are found in the Client directory, which was created in Step 1 when the ARPOPlatform zip file was extracted.

Step 5: Start the RPAS DomainDaemon

The RPAS DomainDaemon process runs on the server. It allows a user to access any domain on the server using the RPAS client installed on a local machine.

Please refer to the RPAS 11.1 Administrator Guide for instructions on how to start the DomainDaemon.



Note: You will need to record the port number that is used to start the process. This port number is required for the configuration of each RPAS client that is installed.

Step 6: Obtain the solution install package

The Solution (Curve, RDF, Promote or Grade) installation software is provided to you in a .zip format. Prior to beginning this process you must have downloaded one of the below .zip files from the Retek Fulfillment Center (<http://fulfillment.retek.com>). The Fulfillment Center provides all major releases and service packs. The latest patch release from Retek Online Customer Support (<http://rocs.retek.com>) should be obtained before beginning the installation.



Note: Each release package is dependent on a specific version of the ARPOPlatform. See the RDF 11.1.x Release Notes or Grade 11.1.x Release Notes for version compatibility. Release Notes are also updated and delivered with each patch.

You must have also obtained a proper license key from Retek for the use of this software. These are the zip files required to support an RDF, Promote, Curve or Grade solution install:

1. Zip containing solution configuration, scripts and mock install

The initial release should be downloaded from Fulfillment and the latest patch should be downloaded from ROCS.

Curve<version>.zip: Supports the install of a Curve solution

RDF<version>.zip: Supports the install of an RDF and Curve solution

Promote<version>.zip: Supports the install of an RDF, Curve and Promote solution

Grade<version>.zip Supports the install of a Grade solution



Note: Only one of the above Curve, RDF or Promote zip packages needs to be downloaded based on the licensing agreement. The Grade package may be used to install a stand-alone Grade solution or may be configured in the same installation of any RPAS solution.

2. Zip containing the overlay to the RPAS Server

This zip file is only available for download from ROCS.

Forecast-11.1.x.<platform>.zip: Includes the libraries and shared objects necessary for the RPAS Server to support an: RDF, Curve, Promote or Grade solution.

3. Zip containing user documentation

The zip file should be downloaded from Fulfillment and individual documents from this zip file may also be downloaded from ROCS.

Forecast-11.1.docs.zip: Included in the Curve<version>.zip, Predict<version>.zip or Promote<version>.zip release packages:

- a. RDF 11.1 Installation Guide
- b. RDF 11.1 Administrator Guide
- c. RDF, Curve, Promote 11.1 Release Notes
- d. RDF, Curve, Promote 11.1 User Guide

Grade-11.1.docs.zip: Included in the Grade<version>.zip release package:

- a. RDF 11.1 Installation Guide
- b. Grade 11.1 Release Notes
- c. Grade 11.1 User Guide

Step 7: Extract and install the solution package

Step 7.1

On both the Windows (NT) machine and the server where the domain is to be installed, create a directory to store the installation and patching scripts (for example: /root/SCI_HOME), and a directory to store the configuration and data (for example: root/SCI_DATA). Create an environmental variable named 'SCI_HOME' and set it equal to the newly created software directory. Also, create an environment variable named 'SCI_DATA' and set it equal to the newly created configuration and data directory. Henceforth we will reference these directories as \$SCI_HOME and \$SCI_DATA respectively.

Step 7.2

Open the Curve<version>.zip, RDF<version>.zip, Promote<version>.zip or Grade<version>.zip file (zip file depends on the licensing agreement). The following zip files will be visible:

InstallScripts.zip

- Scripts to support the domain install, data loading and patching of a Curve, RDF, Promote or Grade solution

Configurations.zip

- Test Domain Configuration
 - a. LabsGA2: supports a mock install of a Simple domain environment
 - b. LabsGA3: supports a mock install of a Global domain environment

Data.zip

- Data Files to be used with the mock install of a the LabsGA2 or LabsGA3 configurations

PlugIn.zip

- An overlay file to the RPAS Configuration Tools installation (\$RIDE_HOME)

Step 7.3

On both the Windows (NT) machine and the Server, extract InstallScripts.zip to \$SCI_HOME.

The following subfolder will be created in \$SCI_HOME:

```
/scripts
```



Note: When installing to a UNIX Server, the scripts in the scripts directory need to be made executable using the 'chmod' command. E.g. `chmod -R 755 $SCI_HOME/scripts`

Step 7.4

On only the Windows machine, extract Configurations.zip to \$SCI_DATA if you are installing the LabsGA2 or LabsGA3 configuration. If you are not installing either of these configurations, you should create a 'configurations' directory off of \$SCI_DATA for your configuration (\$SCI_DATA/configurations).

Step 7.5 (for Windows (NT) domain installation only)

If the domain is to be created on the Windows (NT) machine, you may also unzip Data.zip (for the LabsGA2 or LabsGA3 domains) directly into \$SCI_DATA, or your specific data files in a \$SCI_DATA/data directory.

The following subfolders will be created in \$SCI_DATA:

```
/configurations
```

```
  /ConfigurationName (LabsGA2 or LabsGA3 from the example)
```

```
    /ProjectName (D01 from the example)
```

```
  /data (optional)
```



Note: The /configurations and /data subfolders are at the same level.

Step 7.6 Extract the contents of PlugIn.zip to \$RIDE_HOME

The PlugIn.zip will enable the RDF, Promote, Curve or Grade solution extensions to be available for configuration in the RPAS Configuration Tools. The content of this zip file also supports the domain install of the configured solution extension. This zip file varies based on the customer's licensing agreement. Extracting this zip file over \$RIDE_HOME will update the /resources/plugins directory with the licensed solution extension(s).

Step 7.7 Extract the contents of Forecast-11.1.x.<platform>.zip to \$RPAS_HOME

The Forecast-11.1.x.<platform>.zip will update the \$RPAS_HOME with the libraries and executables required to support an RDF, Promote, Curve or Grade solution. The version number of this zip file must match the version number of the solution install package (either the: Curve<version>.zip, RDF<version>.zip, Promote<version>.zip or Grade<version>.zip). The Forecast-11.1.x.<platform>.zip contains the same content regardless of which of these solutions is being implemented. Extracting this zip file over \$RPAS_HOME will update the \$RPAS_HOME/applib, \$RPAS_HOME/bin and \$RPAS_HOME/domain directories.

Step 8: Create or Modify a Configuration (optional)

This is an optional step and is only required to be done on the administrator's machine or the person who has been identified to support the configuration. Please refer to the RPAS 11.1 Configuration Tools User Guide or the RPAS 11.1 Solution Extension Configuration Guide for more information on the creation and modification of a configuration.

Step 9: Copy Configuration Files to the Domain Server

Copy the configuration from the \$SCI_DATA directory on the Windows (NT) machine to the domain server. The location on the domain server should have the same structure as on the Windows machine:

```
/configurations
  /ConfigurationName
    /ProjectName
```

If you are using WinZip to archive the configuration for transfer to a UNIX server, you must use 'unzip -a' to unzip on the server side.

Step 10: Update the Sales Data and Hierarchy Files

Copy the sales data and hierarchy files to be loaded into the domain into a \$SCI_DATA/data directory. If you **are not** installing the LabsGA2 or LabsGA3 configuration, you will need to create the 'data' sub-directory off of \$SCI_DATA. If you are using the data provided in the release package, unzip the Data.zip file provided in to the \$SCI_DATA directory (this zip file will create a 'data' sub-directory off of \$SCI_DATA).

The \$SCI_DATA directory should now have the following structure:

```
/configurations
  /ConfigurationName
    /ProjectName
/data
```



Note: The /configurations and /data subfolders are at the same level.

Step 11: Configure sciPostInstall

Custom post-domain creation steps can be automated by creating a shell script named `sciPostInstall.ksh` in the `$SCI_HOME/scripts` directory. The `sciInstall.ksh` script will call the `sciPostInstall.ksh` script before exiting. For the LabsGA2 and LabsGA3 configurations this script is pre-configured to do the following:

- 1 Load data files from the `$SCI_DATA/data` directory into the domain
 - If building a Global Domain environment, `sciPostInstall.ksh` is pre-configured to split the data files (.dat files) for the LabsGA3 configuration based on the partition positions.
2. Run a Rule Group in the domain(s)

sciPostInstall must be edited or removed before installing any configurations other than LabsGA2 or LabsGA3.

Step 12: Determine the Path for the Domain(s)

Determine the location(s) of the domain(s) to be installed. For the LabsGA3 test domain, you may create a directory such as `/Domains/LabsGA3` to be the path of the domain install. If the LabsGA3 directory does not already exist during the time of the install, it will be created. However the root of the domain install must already exist. Using the above example `/Domains` must already be created.

Step 13: Create a Global Domain Configuration Directory (optional)

If installing a Global Domain environment, an xml file may be created to determine how the domains will be partitioned and the label of each domain. If taking this approach the '-f' option should be used when running `sciInstall`. Otherwise '-g' should be used along with the name of the partition dimension name (see Step 13 for more on usage of `sciInstall`). The following is an example of the structure of the '**globaldomainconfig.xml**' file. The items in **bold** in our example below are as follows:

Path: The location of the root of the domain. For our LabsGA3 configuration, 'D01' is the Project Name, equivalent to the Master domain.

Partitiondim: The partition dimension. For our LabsGA3 configuration, 'pgrp' (Group) is the dimension in which the local domains will be partitioned. There can only be one partition dimension.

Subpath: The path and name of the local (sub-domain) that contains a specific partition position. 'ldom#' is the default name given by RPAS to local domains. For the LabsGA3 configuration the `sciInstall.ksh` and `sciPostInstall.ksh` scripts are pre-configured to install and load data to the domains named 'ldom0', 'ldom1' and 'ldom2'.

Subposition: The position from the partition dimension that will be located in the local domain. The LabsGA3 configuration will create three local domains. For example, 'ldom0' will include all product positions at or below 'pgrp' 1100.

Example file structure:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<rpas>
  <globaldomain>
    <path>/Domains/LabsGA3/D01</path>
    <partitiondim>pgrp</partitiondim>
    <subdomain>
      <subpath>/Domains/LabsGA3/D01/ldom0</subpath>
      <subpositions>1100</subpositions>
    </subdomain>
    <subdomain>
      <subpath>/Domains/LabsGA3/D01/ldom1</subpath>
      <subpositions>1300</subpositions>
    </subdomain>
    <subdomain>
      <subpath>/Domains/LabsGA3/D01/ldom2</subpath>
      <subpositions>2500</subpositions>
    </subdomain>
  </globaldomain>
</rpas>
```



Note: If using the above example xml file structure to install the LabsGA3 configuration, only the Path and Subpath to the domains may be changed, but the ProjectName (**D01**), local domains (**ldom0**, **ldom1**, **ldom2**), Partitiondim (**pgrp**) and Subpositions (**1100**, **1300** and **2500**) must be the same as above.

Step 14: Run sciInstall to Install the Domain(s)

Located in the \$SCI_HOME/scripts directory, the sciInstall.ksh script is used to install domains that support RDF, Curve, Promote or Grade. The sciInstall.ksh script does the following:

1. Verifies the path to the 'globaldomainconfig.xml'
2. Runs the 'rpasinstall' executable with the -fullinstall option
3. Registers the following libraries:
 - a. AppFunctions: RDF Common Functions
 - b. ClusterEngine: Grade Functions
 - c. LostSaleFunctions: Preprocessing Functions
 - d. RdfFunctions: Predict and Promote Functions
4. Curve, RDF, Promote or Grade-specific Install Tasks (depends on the solutions implemented)
5. Runs 'checkparents' on each loaded hierarchy

6. Runs 'sciPostInstall.ksh'
7. Outputs the installation log file to either:
 - a. The default location if the `-o` option is not used with `sciInstall`:
`$SCI_DATA/configurations/domainPath/sciInstallLog.txt`
 - b. The user-specified path if the `-o` option is used with `sciInstall`
8. Creates the domain(s)

The installation process will create two directories under *domainPath*.

ProjectName: This is the name of the project defined within the RPAS Configuration Tools. This will be the domain directory root. If installing a Global Domain environment (LabsGA3), you will see within the D01 directory each of the local domains (ldom0, ldom1 and ldom2). In this case D01 is the Master domain.

Installs: This directory contains information on the configuration used to create the domain(s) and is necessary to support the domain patching process. Do not delete or move this directory.



Note: For more information on Solution Extension-specific installation tasks, see the RDF 11.1 Administrator Guide.



Note: You may see an error similar to the following during the install: **Error when reading domain properties: [[DatabaseOpenFailed: path to \$SCI_HOME/scripts/data/admin]].**

This error should be ignored, but will not be displayed in the `sciInstallLog.txt`. An open defect has been logged to RPAS to remove this error message.

Usage

```
sciInstall.ksh -d DomainPath -c ConfigName [-j ProjectName] [-p
ConfigPath] [-I InputPath] [-o the path and name of log file] [-g
Global Domain DimName | -f Global Domain ConfigDirectory]
```

Example 1: Installing a Simple domain environment using the LabsGA2 configuration

```
$SCI_HOME/scripts/sciInstall.ksh -d /Domains/LabsGA2 -c LabsGA2 -j
D01
```

Example 2: Installing a Global Domain environment using the LabsGA3 configuration and the `-g` option

```
$SCI_HOME/scripts/sciInstall.ksh -d /Domains/LabsGA3 -c LabsGA3 -j
D01 -g pgrp
```

Example 3: Installing a Global Domain environment using the LabsGA3 configuration and the `-f` option

```
$SCI_HOME/scripts/sciInstall.ksh -d /Domains/LabsGA2 -c LabsGA2 -j
D01 -f /SCI_HOME
```



Note: The `globaldomainconfig.xml`, any custom xml, data or scripts not specified in this document should not be stored at or below the `$SCI_DATA/configurations/ProjectName` directory.



Note: If building a Global Domain environment, the `-g` and the `-f` options with `sciInstall` SHOULD NOT be used together.

Step 15: Configure the RPAS Client to use the domain

The RPAS client must be configured to point to the newly created domain(s).

Please refer to the RPAS 11.1 Installation Guide for instructions on how to configure the RPAS Client.

Chapter 3 – Patching

Patching Overview

Regardless of whether you are making a change to a configuration or taking a patch release, the following steps should be used to patch an existing domain with an: RDF, Curve, Promote or Grade solution. The subsequent sections go into deeper detail for each of the following:

Step 1: Unzip and Install the ARPOPlatform and Solution Patch Packages

Step 2: Extract the contents of PlugIn.zip to \$RIDE_HOME

Step 3: Extract InstallScripts.zip to \$SCI_HOME/scripts (optional)

Step 4: Autogenerate the RDF, Curve, Promote or Grade Solutions That are Implemented

Step 5: Copy Configuration Files to the Domain Server

Step 6: Configure sciPostPatch

Step 7: Run sciPatch to Patch Domain(s)

Step 1: Unzip and Install the ARPOPlatform and Solution Patch Packages

If you are taking a patch release of the ARPOPlatform and the compatible patch release of the RDF, Curve, Promote or Grade packages, each includes Release Notes that indicate the issues addressed and new enhancements in the patch. Unzip and Install the ARPOPlatform patch as documented in *Using the Retek Service Pack System*. This document is included with each patch release.

The RDF, Curve, Promote and Grade patches will include the following:

InstallScripts.zip

- Scripts to support the domain install, data loading and patching of a Curve, RDF, Promote or Grade solution

Configurations.zip

- Test Domain Configuration
 - a. GA2: supports a mock install of a Simple domain environment
 - b. GA3: supports a mock install of a Global domain environment

Data.zip

- Data Files to be used with the mock install of a the LabsGA2 or LabsGA3 configurations

PlugIn.zip

- An overlay file to the RPAS Configuration Tools installation (\$RIDE_HOME)

RDF 11.1.x or Grade 11.1.x Release Notes

- The Release Notes delivered with each patch summarize enhancements, issues addressed and open issues since the last patch.

If patching existing domain(s) with RDF, Curve, Promote or Grade solutions installed, **only the PlugIn.zip should be required**. InstallScripts.zip would be needed only if the Release Notes indicate a change to sciInstall.ksh or sciPatch.ksh. This is rare and will most likely not be required.



Note: If using the patch release for the initial domain installation following the installation steps in Chapter 2 of this guide.

Step 2: Extract the contents of PlugIn.zip to \$RIDE_HOME

Extracting this zip file over \$RIDE_HOME will update the /resources/plugins directory with the licensed solution extension(s). This step will provide users access to any changes made to the solution extension-specific configuration utilities since the last release or patch.

Step 3: Extract InstallScripts.zip to \$SCI_HOME/scripts (optional)

Extracting either 'sciInstall.ksh' or 'sciPatch.ksh' from the InstallScripts.zip to \$SCI_HOME/scripts is only necessary if the *RDF 11.1.x Release Notes* or *Grade 11.1.x Release Notes* indicate a change to these scripts. **Otherwise this step may be skipped.**

Step 4: Autogenerate the RDF, Curve, Promote or Grade Solutions That are Implemented

It is necessary to open the configuration in the patch version of the RPAS Configuration Tools and autogenerate each of the existing solution extension configurations. This autogeneration step is also required if you are making a change to your existing configuration of a RDF, Curve, Promote or Grade solution.

You should save the configuration after this is completed. Please see the RPAS 11.1 Solution Extension Configuration Guide for more information on the autogeneration process in a Curve, RDF or Promote solution extension or the potential impacts to the domain when modifying an existing configuration.

Step 5: Copy Configuration Files to the Domain Server

This is the same process as Step 8 from Chapter 2. Copy the updated configuration from the \$SCI_DATA directory from the Windows (NT) machine to the domain server. The location on the domain server should have the same structure as on the Windows machine:

```
/configurations
  /ConfigurationName (LabsGA2 or LabsGA3 from the example)
    /ProjectName (D01 from the example)
```

If you are using WinZip to archive the configuration for transfer to a UNIX server, you must use 'unzip -a' to unzip on the server side.

Step 6: Configure sciPostPatch

Custom post-patch process can be automated by creating a shell script named sciPostPatch.ksh in the \$SCI_HOME/scripts directory. The sciPatch.ksh script will call the sciPostPatch.ksh script before exiting. **sciPostPatch.ksh is delivered as part of the release package but is not pre-configured for any post-patching processes.**

Step 7: Run sciPatch to Patch Domain(s)

Located in the \$SCI_HOME/scripts directory, the sciPatch.ksh script is used to patch domains that support RDF, Promote, Curve or Grade. Invoke the domain patch script (sciPatch.ksh) using the following syntax:

Usage

```
sciPatch.ksh -d DomainPath -c ConfigName [-j ProjectName] [-p
ConfigPath] [-i InputPath] [-o the path and name of log file] [-g
Global Domain DimName | -f Global Domain ConfigDirectory]
```

Example 1: Installing a Simple domain environment using the LabsGA2 configuration

```
$SCI_HOME/scripts/sciPatch.ksh -d /Domains/LabsGA2 -c LabsGA2 -j D01
```

Example 2: Installing a Global Domain environment using the LabsGA3 configuration and the -g option

```
$SCI_HOME/scripts/sciPatch.ksh -d /Domains/LabsGA3 -c LabsGA3 -j D01
-g pgrp
```

Example 3: Installing a Global Domain environment using the LabsGA3 configuration and the `-f` option

```
$SCI_HOME/scripts/sciPatch.ksh -d /Domains/LabsGA2 -c LabsGA2 -j D01  
-f /SCI_HOME
```



Note: The `globaldomainconfig.xml`, any custom xml, data or scripts not specified in this document should not be stored at or below the `$SCI_DATA/configurations/ProjectName` directory.

The `sciPatch.ksh` script does the following:

1. Runs the 'rpasinstall' executable with the `-patchinstall` option
2. Registers the following libraries:
 - a. AppFunctions: RDF Common Functions
 - b. ClusterEngine: Grade Functions
 - c. LostSaleFunctions: Preprocessing Functions
 - d. RdfFunctions: Predict and Promote Functions
3. Curve, RDF, Promote or Grade-specific patching tasks (depends on the solutions implemented)
4. Runs 'checkparents' on each loaded hierarchy
5. Runs `sciPostPatch.ksh`
6. Outputs the log file to:
`$SCI_DATA/configurations/domainPath/sciPatchLog.txt`



Note: You may see an error similar to the following during patching: **Error when reading domain properties: [[DatabaseOpenFailed: *path to* \$SCI_HOME/scripts/data/admin]].**

This error should be ignored, but will not be displayed in the `sciInstallLog.txt`. An open defect has been logged for the removal of this error message.



Note: For more information on Solution Extension-specific patching tasks and patchable configuration changes, see the RDF 11.1 Administrator Guide.