# RSA Authentication Manager 6.1 External Authorization API Guide



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# Preface

This guide is intended only for programmers, security administrators and other trusted personnel. Do not make it available to the general user population.

This guide explains how to use a generic Application Program Interface (API) for External Authorization to create and set up customized External Authorization criteria. These customized criteria work in addition to, not in place of, RSA Authentication Manager authentication. When External Authorization is enabled, users attempting to gain access to your system must meet an extra set of criteria that you create based on the needs of your organization.

It is assumed that users of this guide are programmers who are experienced with C programming on Windows or UNIX systems, and are familiar with RSA Authentication Manager authentication procedures. Because this guide is for experienced programmers, it gives detailed procedures only where necessary. After reading this guide, you should be able to set up and test External Authorization on an RSA Authentication Manager system with the customized External Authorization criteria. Once you have finished these setup tasks, an RSA Authentication Manager administrator must enable External Authorization as explained in the *RSA Authentication Manager 6.1 Administrator's Guide* (authmgr\_admin.pdf in the *ACEDOC* directory).

# **Supported Platforms and Operating Systems**

Refer to the *RSA Authentication Manager 6.1 for UNIX Installation Guide* or the *RSA Authentication Manager 6.1 for Windows Installation Guide* (authmgr\_install\_unix.pdf or authmgr\_install\_windows.pdf in the *ACEDOC* directory) for information on supported platforms and operating systems.

# **Getting Support and Service**

| RSA SecurCare Online         | https://knowledge.rsasecurity.com |
|------------------------------|-----------------------------------|
| Customer Support Information | www.rsasecurity.com/support       |



### **Before You Call for Technical Support**

**Note:** Technical support is not provided during the warranty period unless a valid Software Service Contract is in force.

Make sure you have direct access to the computer running the RSA Authentication Manager software.

Please have the following information available when you call:

- □ Your RSA Security Customer/License ID. You can find this number on the license distribution medium or by running the Configuration Management application on the Windows NT or Windows 2000 platforms, or by typing 'sdinfo' on any UNIX platform.
- **RSA** Authentication Manager software version number.
- **D** The make and model of the machine on which the problem occurs.
- □ The name and version of the operating system under which the problem occurs.



# RSA Authentication Manager 6.1 External Authorization API

## **About External Authorization**

External Authorization lets you use a generic Application Program Interface to create customized criteria for authorizing users within your organization. This customized authorization is an addition to the RSA Authentication Manager authentication, not a replacement for it. If the External Authorization option is enabled, users attempting access must meet this extra set of criteria before they are permitted access to your system. If the External Authorization option for authorization of remote login requests is also enabled, users are permitted access from a remote realm.

The RSA Authentication Manager first applies the default authentication criteria to determine a user's identity. If the RSA Authentication Manager authenticates the user's identity, a call is made to External Authorization. This call initiates a process that applies your customized criteria to determine whether or not a user is permitted access.

If External Authorization fails, a message is written to the event log (Windows) or the system log (UNIX) indicating that, during authentication, a particular user did not meet the customized authorization criteria.

When the RSA Authentication Manager is stopped, a call is made to terminate your External Authorization routines.

#### **External Authorization Components**

RSA Security provides the dynamic linked library file **libsdxauthr.dll** for Windows-based systems, and these shared library files for UNIX systems: **libsdxauthr.so** (Solaris), **libsdxauthr.sl** (HP), **libsdxauthr.so** (AIX).

The libraries are loaded on your Authentication Manager when you install RSA Authentication Manager 6.1 software. They contain the following four API routines:

iSDExtAuthorInit(). Performs any required initialization for External Authorization.

**iSDExtAuthorCheck()**. Determines whether or not the user is authorized to log in to the Agent Host.

**iSDExtAuthorGetHomeData()**. Gets authorization data from the home realm as part of the enterprise authentication.

iSDExtAuthorShutdown(). Shuts down External Authorization.

RSA Security also provides the following stubbed routines on the RSA Authentication Manager 6.1 CD that you use to create your own External Authorization routines.

**sdxauthr.c**. The template source file used to build the default dynamic linked library on Windows, and the default shared libraries on UNIX (acesup\xauth\_sdk\src).

**sdxauthr.h**. The header file containing definitions to use when you create your customized External Authorization routines (acesupp\xauth\_sdk\inc).



RSA Security does *not* provide specific External Authorization code. Instead, you must create your own External Authorization routines based on the template source file. Your customized routines must

- Conform to this External Authorization API.
- Define a customized authorization scheme that integrates tightly with the RSA Authentication Manager user-authentication process.

#### A Task Overview

To set up External Authorization, you must perform the following tasks:

- 1. Review the information in the following section, "<u>Before You Begin</u>," and in the "<u>Sample Calling Sequences</u>" on page 9.
- 2. Ask your RSA Authentication Manager administrator to verify the authorization service port settings.
- 3. Create customized External Authorization routines that conform to this API.
- 4. Substitute your customized External Authorization routines for the stubbed routines supplied by RSA Security.
- 5. Optionally, create error messages for your customized External Authorization routines.
- 6. Compile your customized routines and link them, as a dynamic linked library for Windows or as a shared library for UNIX.
- 7. Test your customized routines, using the RSA Authentication Manager in a test environment.

Once you have finished these tasks, an RSA Authentication Manager administrator must enable External Authorization as explained in the *RSA Authentication Manager 6.1 Administrator's Guide* (authmgr\_admin.pdf in the *ACEDOC* directory).

#### **Before You Begin**

Review the information in this section before you begin setting up External Authorization. This review will help ensure that the setup goes smoothly and produces the results you want.

- Copy the **xauth\_sdk** folder from the RSA Authentication Manager 6.1 CD (located in the **ace\supp** directory) to the machine on which you are creating your external authorization routines. RSA Security recommends that, for compiling and linking purposes, you do not re-name this folder.
- Note that the RSA Authentication Manager 6.1 is multithreaded, and can accommodate simultaneous executions of your customized External Authorization routines. You should verify that your routines are reentrant, and that they are capable of executing in a multithreaded environment.
- You *must* include all four routines in the dynamic linked library, or shared library. Do *not* exclude a stubbed routine if you do not plan to use it. Instead, stub the routine in the library to return 0 status. Maximum lengths for null-terminated strings include the byte for a trailing zero.



- Note the location of the source library files that shipped with the RSA Authentication Manager 6.1 software. You must substitute your customized versions of these files in the *same location* as the source files.
- You must provide your RSA Authentication Manager system administrator with a list explaining any error messages that you create for your customized External Authorization routines. For messages with return values, you must explain the meaning you assigned to these values.
- After completing the tasks in this guide, ask your RSA Authentication Manager system administrator to enable the External Authorization options that the administrator wants. Then, restart your RSA Authentication Manager so that your options take effect.

#### **Sample Calling Sequences**

Review the following sample sequences before you decide how to set up External Authorization. These sample sequences illustrate how an RSA Authentication Manager with External Authorization enabled processes a user's request for access. The processing sequence depends on both your network configuration and which External Authorization options are enabled.

#### **Single Authentication Manager Configuration**

The following sample sequence shows External Authorization of a user on an RSA Authentication Manager.

| External Authorization enabled   |
|--|
| Receive an authentication request from the Agent Host. $\downarrow$  |
| At the first request to authenticate a user, call <b>iSDExtAuthorInit()</b> . ↓  |
| If RSA Authentication Manager authentication is successful, call <b>iSDExtAuthorCheck()</b> .<br>Log a message on return.<br>↓ |
| Send an authentication response to the Agent Host.   |



#### Multi-Realm Configuration with External Remote Authorization Enabled on the Home Authentication Manager

The following sample sequence shows External Authorization of a user from a remote realm. The enterprise authentication request goes to the user's home realm, which accepts the remote request.

| Home Authentication Manager:<br>External Authorization enabled;<br>External Remote Authorization<br>enabled  |               | Remote Authentication Manager:<br>External Authorization enabled   |
|--|---------------|--|
|  | -             | At the first request from the client to<br>authenticate a user, call<br>iSDExtAuthorInit().<br>↓                                       |
| At the first request to authenticate a user,<br>call <b>iSDExtAuthorInit()</b> .<br>↓  | <i>←</i>      | Send an enterprise authentication<br>request with the External Authorization<br>flag set.  |
| Process the enterprise authentication<br>request.<br>↓   |               |  |
| If the enterprise authentication is<br>successful, call<br><b>iSDExtAuthorGetHomeData()</b> to check<br>authorization on the user's home realm and<br>return data for authorization. | $\rightarrow$ | If authentication and home<br>authorization are successful, call<br><b>iSDExtAuthorCheck</b><br>() with data from the home realm.<br>↓ |
|  |               | Send authentication response to the client.  |



# Multi-Realm Configuration with External Remote Authorization Disabled on the Home Authentication Manager

The following sample sequence shows External Authorization of a user from a remote realm. The enterprise authentication request goes to the user's home realm, which has remote authorization disabled.

| Home Authentication Manager:<br>External Authorization enabled;<br>External Remote Authorization<br>disabled |               | Remote Authentication Manager:<br>External Authorization enabled   |
|--|---------------|--|
|  |               | At the first request to authenticate a user, call <b>iSDExtAuthorInit(</b> ). Process the enterprise authentication request. ↓ |
| Process the enterprise authentication<br>request.<br>↓   | <i>←</i>      | Send an enterprise authentication<br>request with the External Authorization<br>flag set.                                      |
| Return disabled status indicating that<br>external remote authorization is not<br>enabled on the home realm. | $\rightarrow$ | Send an authentication response to the client.   |

# Multi-Realm Configuration with External Authorization Disabled on the Remote Authentication Manager

The following sample sequence shows authentication of a user from a remote realm that has disabled external remote authorization. The enterprise authentication request goes only to the user's home realm for authentication.

| Home Authentication Manager:<br>External Authorization enabled;<br>External Remote Authorization<br>disabled |          | Remote Authentication Manager:<br>External Authorization disabled                         |
|--|----------|---|
|  |          | Receive an authentication request from the client. ↓                                      |
| Process the enterprise authentication<br>request only, <i>not</i> external remote<br>authorization.<br>↓     | <i>←</i> | Send an enterprise authentication request with <i>no</i> External Authorization flag set. |
| Send an authentication response to the client.   |          |   |



# Multi-Realm Configuration with External Authorization Disabled on the Home Authentication Manager

The following sample sequence shows External Authorization of a user from a remote realm. The enterprise authentication request goes to the user's home realm, which has disabled External Authorization.

| Home Authentication Manager:<br>External Authorization disabled                                |               | Remote Authentication Manager:<br>External Authorization enabled  |
|--|---------------|---|
|  |               | At the first request to authenticate a user, call <b>iSDExtAuthorInit()</b> . ↓                             |
|  |               | Authentication request received from the client. ↓  |
| Process the enterprise authentication<br>request.<br>↓   | <i>←</i>      | Send an enterprise authentication<br>request for authentication with an<br>External Authorization flag set. |
| Return an error indicating that External<br>Authorization is not enabled on the home<br>realm. | $\rightarrow$ | Send an authentication failed response to the client.   |



# **Setting Up External Authorization**

This section explains the External Authorization setup tasks.

#### Substituting Customized Routines for the Stubbed Routines

Review the source makefile (named **makefile**) and the source code in the stubbed routines **iSDExtAuthorInit()**, **iSDExtAuthorCheck()**, **iSDExtAuthorGet HomeData()**, and **iSDExtAuthorShutdown()**. Then, create your customized External Authorization routines named **sdxauthr.c**, **sdxauthr.h**, and **makefile**, and substitute them for the stubbed routines.

#### **Compiling and Linking Routines**

Windows: use the project file msvc60.dsp and the workspace file msvc60.dsw to compile your customized routines and to create a dynamically linked library named libsdxauthr.dll.

Use **makefile** to compile and customize your routines. Verify that an ANSI C compiler is installed and configured, and that the Lib environment variable is set appropriately. Invoke the makefile by using either of the following commands:

```
cd WORK_AREA/xauth_sdk/nt
NMAKE makefile "CGF=exauth - Win32 Release"
or
cd WORK_AREA/xauth_sdk/nt
NMAKE makefile "CGF=exauth - Win32 Debug"
```

where WORK\_AREA is a directory of your choice.

**UNIX:** use **makefile** located in the **xauth\_sdk\unix** directory to compile your customized routines, and to create a shared library named libsdxauthr.so (Solaris), **libsdxauthr.sl** (HP), or **libsdxauthr.so** (AIX). Verify that an ANSI C compiler is installed and configured. Invoke the compiler as appropriate depending on your environment. Invoke the makefile as follows:

```
cd WORK_AREA /xauth_sdk/unix
make PLATFORM=<plat>
```

where <plat> is either SOL, AIX, or HP (case-sensitive), and WORK\_AREA is a directory of your choice.

#### **Creating Customized Status and Error Messages**

Templates for creating messages for your customized External Authorization criteria are in the section for each stubbed routine in "<u>API Routines</u>" on page 14.



#### **Testing Customized Routines**

You should test your customized routines to ensure that they function properly with the RSA Authentication Manager. Before testing your routines, it is recommended that you

- Create an isolated test environment that depicts the actual environment in which the RSA Authentication Manager will function with external authorization enabled. For example, if you intend to use external authorization in conjunction with enterprise authentication, your test environment should include multiple realms.
- Create status messages for each routine indicating success or failure.

When your external authorization routines complete, a response packet is sent to a backend on the RSA Authentication Manager. If, during testing, any of your routines terminates unexpectedly, it will cause a backend on the Authentication Manager to terminate. If this occurs, you should verify that the RSA Authentication Manager can still function properly. To do so, perform the following steps:

- 1. Stop the RSA Authentication Manager services.
- 2. Replace your substituted library with the original one provided by RSA Security.
- 3. Restart the RSA Authentication Manager, and repeat your testing procedure.

### **API Routines**

This section describes the API routines that you use to create customized External Authorization. It also includes a sample audit log. The API routines

- Set up and initialize the External Authorization API.
- Determine whether or not an authenticated user is permitted access.
- Pass additional authorization data from the home server to a remote server (if the **Enable Authorization of Remote Login Requests** option is enabled).
- Shut down the External Authorization API.

**Important:** Your External Authorization routines must execute as quickly as possible. If either **iSDExtAuthorCheck()** or **iSDExtAuthorGetHomeData()** takes a long time to process, the performance of the RSA Authentication Manager severely degrades. If the API takes too long to process, the RSA Authentication Manager times out the authentication request and returns a timeout error.



### iSDExtAuthorInit()

Performs any required initialization in the External Authorization Module.

#### Synopsis

#include <sdxauthr.h>

| int iSDExtAuthorInit( |                  |
|-----------------------|------------------|
| SD_U32                | uExtAuthorFlags, |
| P SD ERRSTRING S      | pErrorString);   |

#### **Parameters**

| Parameter                 | Explanation   |
|---------------------------|---|
| uExtAuthorFlags           | Flags indicating the following External Authorization options for this RSA Authentication Manager:                          |
|                           | SD_EXTAUTH_CHECK_ON - Enables External Authorization  |
|                           | SD_EXTAUTH_HOMEDATA_ON - Enables external<br>remote<br>authorization; allows users to retrieve data from the home<br>realm. |
| pErrorString->iStringType | 0=ASCII   |
| pErrorString->cErrString  | Pointer to location to receive a null-terminated user error string to be appended to syslog or event log.                   |

#### Description

This routine lets the External Authorization Module initialize itself prior to the first authorization request. If this routine returns an error, **iSDExtAuthorCheck()**, and **iSDExtAuthorGetHomeData()** are not called.

#### **Return Values**

| 0    | Initialization succeeded.   |
|------|---|
| nnnn | Initialization error; the non-zero error value is stored in the audit log record. |



### iSDExtAuthorCheck()

Authorizes a user to log in to the client.

#### Synopsis

```
#include <sdxauthr.h>
int iSDExtAuthorCheck (
char * pszLoginName,
char * pszClientName,
unsigned int InetAddr,
    P_SD_HOMEDATA_S pHomeData,
    P_SD_ERRSTRING_S pErrorString);
```

#### Parameters

| Parameter                 | Explanation  |
|---------------------------|--|
| pszLogin                  | Pointer to null-terminated string buffer containing the login<br>name of the user authenticating on the RSA Authentication<br>Manager.   |
| pszClientName             | Pointer to null-terminated string buffer containing the name of the client machine the user is accessing.  |
| InetAddr                  | 32-bit unsigned integer containing the IP address of the client in network byte order. For example, address 12.1.68.4 is stored as 0x0C014404.   |
| pHomeData                 | Pointer to the data structure retrieved from the home server<br>during enterprise authentication. If pHomeData is null, the<br>remote <b>iSDExtAuthorGetHomeData()</b> routine completed<br>successfully but did not supply additional data. |
| pHomeData->iLen           | The number of bytes returned in cData.   |
| pHomeData->cData          | Data to be returned.   |
| pErrorString->iStringType | 0=ASCII  |
| pErrorString->cErrString  | Pointer to a location to receive a null-terminated user error string to be appended to syslog or event log.  |

#### Description

If External Authorization is enabled on the RSA Authentication Manager, this routine is called after a user successfully authenticates.

**Important:** Your External Authorization routines must execute as quickly as possible. If either **iSDExtAuthorCheck** () or **iSDExtAuthorGetHomeData**() takes a long time to process, the performance of the RSA Authentication Manager severely degrades. If the API takes too long to process, the RSA Authentication Manager times out the authentication request and returns a timeout error.



If **iSDExtAuthorInit()** or **iSDExtAuthorGetHomeData()** fails during an enterprise authentication, a user authorization failure is logged and this routine is not called.

#### **Return Values**

0

Authorization succeeded.

nnnnn

Authorization error; the non-zero error value is stored in the audit log record.



### iSDExtAuthorGetHomeData()

Gets local information to be returned as part of an enterprise authentication.

#### Synopsis

#include <sdxauthr.h>

| int iSDExtAuthorGetHomeData ( |                |
|-------------------------------|----------------|
| char *                        | pszLogin       |
| char *                        | pszClientName  |
| unsigned int                  | InetAddr       |
| P_SD_HOMEDATA_S               | pHomeData      |
| $P_SD_ERRSTRING_S$            | pErrorString); |

#### **Parameters**

| Parameter                 | Explanation   |
|---------------------------|---|
| pszLogin                  | Pointer to a null-terminated string buffer containing the login name of the user authenticating on the RSA Authentication Manager.                  |
| pszClientName             | Pointer to a null-terminated string buffer containing the name of the client machine the user is accessing.   |
| InetAddr                  | 32-bit unsigned integer containing the IP address of the client in network byte order. For example, address 12.1.68.4 is stored as 0x0C014404.      |
| pHomeData                 | Upon successful authentication, a pointer to the location where data is copied to be returned to remote realm's <b>iSDExtAuthorCheck()</b> routine. |
| pHomeData->iLen           | Length of data returned in bytes, 0=no data returned.   |
| pHomeData->cData          | Data to be returned   |
| pErrorString->iStringType | 0=ASCII   |

#### Description

This routine is called if the **Enable Authorization of Remote Login Requests** option is enabled on the RSA Authentication Manager. If enabled, the RSA Authentication Manager receives an enterprise authentication request with external remote authorization flagged.

**Important:** Your External Authorization routines must execute as quickly as possible. If either **iSDExtAuthorCheck()** or **iSDExtAuthorGetHomeData()** takes a long time to process, the performance of the RSA Authentication Manager severely degrades. If the API takes too long to process, the RSA Authentication Manager times out the authentication request and returns a timeout error.



#### If iSDExtAuthorInit() fails:

- An error is returned to the home realm.
- This routine is not called.
- A status of "authorization failed" is returned to the remote realm.

If external remote authorization is disabled in the home realm:

- A user message is logged.
- This routine is not called.
- A status of "authorization disabled" is returned to the remote realm.
- The remote realm skips further authentication.

#### **Return Values**

| 0     | External remote authorization succeeded.   |
|-------|--|
| nnnnn | External remote authorization error; the non-zero error value is stored in the audit log record. |

#### iSDExtAuthorShutdown()

Shuts down the External Authorization Module.

#### Synopsis

#include <sdxauthr.h>

```
int iSDExtAuthorShutdown(
P SD ERRSTRING S pErrorString);
```

#### **Parameters**

| Parameter                 | Explanation  |
|---------------------------|--|
| pErrorString->iStringType | 0=ASCII  |
| pErrorString->cErrString  | Pointer to location to receive a null-terminated user<br>error string to be appended to syslog or event log. |

#### Description

This routine is called just before the RSA Authentication Manager is shut down or terminated. It allows the External Authorization Module to perform any required shutdown or cleanup procedures before it exits. If **iSDExtAuthorInit()** failed, a user authorization failure is logged and this routine is not called.

Disabling External Authorization while it is running on the RSA Authentication Manager generates a call to this routine.

#### **Return Values**

| 0     | Shutdown succeeded.   |
|-------|---|
| nnnnn | Shutdown error; the non-zero error value is stored in the audit log record. |



# **External Authorization Log Messages**

External Authorization log messages are generated on the event log (Windows), and on the system log (UNIX). Each routine returns a null-terminated error string of up to 48 characters that is appended to the log message.

#### **Event Log or syslog Messages**

These messages appear in the Windows event log, or in the UNIX system log.

#### iSDExtAuthorInit()

External Authorization Initialized External Authorization Initialization error *errstring* 

#### iSDExtAuthorCheck()

External Authorization Check error errstring

#### iSDExtAuthorHomeData()

External Authorization HomeData error errstring

#### iSDExtAuthorShutdown()

External Authorization Shutdown External Authorization Shutdown error *errstring* 

#### Audit Log Messages

These messages appear in the RSA Authentication Manager Audit Log.

#### General

date time ACCESS DENIED, Ext-auth failed login user agent host server token date time XR ACCESS DENIED, Ext-auth failed login user agent host server token date time Ext-Auth conflict w/ remote realm

#### iSDExtAuthorCheck

date time Ext-auth check login user agent host server token date time ACCESS DENIED, Ext-auth failed login user agent host server token date time XR ACCESS DENIED, Ext-auth failed login user agent host server token

#### iSDExtAuthGetHomeData

date time Ext-auth home-data login user agent host server token date time ACCESS DENIED, Ext-auth failed login user agent host server token date time XR ACCESS DENIED, Ext-auth failed login user agent host server token