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SafeNet Agent for Siebel 1.2.0 INSTALLATION AND CONFIGURATION GUIDE



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PREFACE: About the SafeNet Agent for Siebel 1.2.0 Guide

Customer Release Notes

The customer release notes (CRN) provide important information about this release that is not included in the customer documentation. It is strongly recommended that you read the CRN to fully understand the capabilities, limitations, and known issues for this release.

Audience

This document is intended for personnel responsible for maintaining your organization's security infrastructure.

All products manufactured and distributed by Thales Group are designed to be installed, operated, and maintained by personnel who have the knowledge, training, and qualifications required to safely perform the tasks assigned to them. The information, processes, and procedures contained in this document are intended for use by trained and qualified personnel only.

It is assumed that the users of this document are proficient with security concepts.

Document Conventions

This section describes the conventions used in this document.

Command Syntax and Typeface Conventions

This document uses the following conventions for command syntax descriptions, and to highlight elements of the user interface.

Format	Convention
bold	 The bold attribute is used to indicate the following: Command-line commands and options that you enter verbatim (Type dir /p.) Button names (Click Save As.) Check box and radio button names (Select the Print Duplex check box.) Dialog box titles (On the Protect Document dialog box, click Yes.) Field names (User Name: Enter the name of the user.) Menu names (On the File menu, click Save.) (Click Menu > Go To > Folders.) User input (In the Date box, type April 1.)

Format	Convention
italics	In type, the italic attribute is used for emphasis or to indicate a related document. (See the <i>Installation Guide</i> for more information.)
<variable></variable>	In command descriptions, angle brackets represent variables. You must substitute a value for command line arguments that are enclosed in angle brackets.
[optional] [<optional>]</optional>	Represent optional keywords or <variables> in a command line description. Optionally enter the keyword or <variable> that is enclosed in square brackets, if it is necessary or desirable to complete the task.</variable></variables>
{ a b c } { <a> <c>}</c>	Represent required alternate keywords or <variables> in a command line description. You must choose one command line argument enclosed within the braces. Choices are separated by vertical (OR) bars.</variables>
[a b c] [<a> <c>]</c>	Represent optional alternate keywords or variables in a command line description. Choose one command line argument enclosed within the braces, if desired. Choices are separated by vertical (OR) bars.

Notifications and Alerts

Notifications and alerts are used to highlight important information or alert you to the potential for data loss or personal injury.

Tips

Tips are used to highlight information that helps to complete a task more efficiently.

TIP This is some information that will allow you to complete your task more efficiently.

Notes

Notes are used to highlight important or helpful information.

NOTE Take note. Contains important or helpful information.

Cautions

Cautions are used to alert you to important information that may help prevent unexpected results or data loss.

CAUTION! Exercise caution. Contains important information that may help prevent unexpected results or data loss.

Warnings

Warnings are used to alert you to the potential for catastrophic data loss or personal injury.

WARNING Be extremely careful and obey all safety and security measures. In this situation you might do something that could result in catastrophic data loss or personal injury.

Support Contacts

If you encounter a problem while installing, registering, or operating this product, please refer to the documentation before contacting support. If you cannot resolve the issue, contact your supplier or Thales Group Customer Support.

Thales Group Customer Support operates 24 hours a day, 7 days a week. Your level of access to this service is governed by the support plan arrangements made between Thales Group and your organization. Please consult this support plan for further information about your entitlements, including the hours when telephone support is available to you.

Customer Support Portal

The Customer Support Portal, at https://supportportal.thalesgroup.com, is where you can find solutions for most common problems. The Customer Support Portal is a comprehensive, fully searchable database of support resources, including software and firmware downloads, release notes listing known problems and workarounds, a knowledge base, FAQs, product documentation, technical notes, and more. You can also use the portal to create and manage support cases.

NOTE You require an account to access the Customer Support Portal. To create a new account, go to the portal and click on the **REGISTER** link.

Telephone

The support portal also lists telephone numbers for voice contact (Contact Us).

CHAPTER 1: Overview

The SafeNet Agent for Siebel is a Two-Factor Authentication (2FA) solution that helps Siebel customers ensure that valuable resources are accessible only to authorized users. The use of 2FA when accessing network resources, instead of traditional static passwords, is a critical measure for information security.

The SafeNet Agent for Siebel enables you to configure authentication rules in the policy domains and policies that protect your resources. The authentication rules contain authentication schemes, which provide methods for verifying a user's identity.

The SafeNet Agent for Siebel uses the Siebel's CRM architecture and extend the interfaces provided for authentication.

When there is an authentication request at the Siebel CRM solution, the app's authentication module is looked up and the configured adapter is triggered.

- > For existing authentication adapters, such as Active Directory Service Interfaces (ADSI)/ LDAP or Oracle, the existing authentication modules handle the configuration.
- > For custom authentication adapters, it looks up the module (the dynamic library) and loads it.

The user credentials are passed to the authentication module and a return code is expected. The return code is then mapped to a Siebel error or a success message, and rendered on the screen.

User Flow

The 2FA parameters are passed from the Siebel application to the SafeNet Authentication Service (SAS) server:

- 1. The user authenticates with LDAP credentials on the landing screen.
- 2. If the LDAP authentication is successful, the user receives an SMS message.
- 3. On the Siebel CRM interface, the users is prompted to enter the SAS OTP.
- 4. If the user does not provide SAS OTP (within 60 seconds), they are prompted to authenticate with their LDAP credentials again.

Compatibility and Component Information

Supported Siebel Version

- > Innovation Pack 2015 (IP15)
- > Innovation Pack 2016 (IP16)
- > Innovation Pack 2018 (IP18)

Authentication Server

- > SafeNet Authentication Service PCE/SPE 3.7 and later
- > SafeNet Authentication Service Cloud

Network

TCP Port 80 or 443

Supported Web Browsers

> Supports all browsers supported by native Siebel CRM.

Additional Web Browser Requirements

- > Cookies must be enabled.
- > JavaScript must be enabled.

Supported Authentication Methods

Except Push OTP, all tokens and authentication methods supported by SafeNet.

CHAPTER 2: Installing the SafeNet Agent for Siebel

Prerequisites

- > The Siebel environment is up and running.
- > The application that requires 2FA is integrated with the LDAP server.
- All the anonymous users must be added in the LDAP directory, and must only be assigned limited, required permissions.

Installing and Configuring Siebel Server

To install the SafeNet Agent for Siebel, extract its package file (*SiebelAgent-1.1.0.<build number>.tar*), and copy the agent files to folders on the Siebel server.

1. Stop the Siebel server, using the following commands:

```
cd /export/home/siebel/sia/siebsrvr
. ./siebenv.sh
cd bin
stop_server all
```

2. Create a folder (/usr/local) and ensure that you have administrator rights to install at the location.

NOTE If you do not have administrator rights to install at the location, you can install the SafeNet Agent for Siebel package in a different location. In this case, change the paths in the following steps accordingly.

3. Navigate to the folder (/usr/local) by executing the following command:

cd /usr/local

4. Extract the SafeNet Agent for Siebel package *SafeNet-Authentication-Service-Agent-For-Siebel-<Version number>.tar* file:

tar -xvf SafeNet-Authentication-Service-Agent-For-Siebel-<Version number>.tar

The SafeNet Agent for Siebel will be installed in the following folder: /usr/local/gemalto/siebel

5. Navigate to the following path:

```
cd /<Siebel install directory>/sia/siebsrvr/lib
```

 Create a backup of the *libSiebel* file. Copy the *libSiebel.so.<version>* file from the Siebel agent package to the current location:

```
cp /usr/local/gemalto/siebel/lib/libSiebel.so.<version> ./
```

7. Create the soft link of the file (as copied in step 6) by executing the following command:

ln -s libSiebel.so.<version> libSiebel.so
Example: ln -s libSiebel.so.1.2.0.18 libSiebel.so

8. Copy the *libcurl.so.3* file from the Siebel agent package to the current location:

cp /usr/local/gemalto/siebel/lib/libcurl.so.3 ./

9. Navigate to the following path:

cd /<Siebel install directory>/Sia/siebsrvr/webtempl/ouiwebtempl

10. Create a backup of the SWELogin.swt file. Copy the SWELogin.swt file from the package to the current location:

cp /usr/local/gemalto/siebel/SWELogin.swt ./

11. Start the server, using the following commands:

```
cd /export/home/siebel/sia/siebsrvr
. ./siebenv.sh
cd bin
start_server all
```

12.(Optional) In case of a Solaris server start, execute the step first:

```
cd /export/home/siebel/sia/gtwysrvr
. ./siebenv.sh
cd bin
start_ns
```

NOTE Starting the server is a CPU intensive operation. Before accessing the app with the Siebel SDK agent, ensure that the server is started completely.

Configuring Custom Authentication

1. Log in to the Siebel Call Center application as an administrator.

ORACLE
User ID SADMIN
Password
••••••
Login
Siebel Call Center Innovation Pack 2015

- 2. From the Home page, click the Site Map icon 🧬.
- 3. On the Screens section, search and select the Administration Server Configuration option.
- 4. Under Administration Server Configuration, click Enterprises > Profile Configuration.

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Siebel High Tech Industrial Manufacturing	HTIM	2	Enabled	Siebel Hig	h Tech Industrial Manufactur	ing Components						
PIM Server Integration Management	PIMSI	2	Disabled	Siebel PIN	Server Integration Compone	ents						
Marketing Server	MktgSrv	1	Enabled	Marketing	Server Components							
Field Service	FieldSvc	9	Enabled	Field Servi	ice Components							
Workflow Management	Workflow	6	Enabled	Workflow	Management Components							
Application Deployment Manager	ADM	3	Enabled	Applicatio	n Deployment Manager Com	ponents						
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5. In the Enterprise Profiles section, click Enterprise Profiles:New icon + to create a new profile with the

following details:

- a. Profile
- b. Alias
- c. Subsystem Type
- d. Description

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SmqDispatchSubsys	SmqDispatchSubsys	EAITransportDataHandlingSubsys	EAITransportDataHandlingSubsys SMQ Dispatch parameters				
eTraining LMS HACP Adapter	HACP	EAITransportDataHandlingSubsys	TransportDataHandlingSubsys eTraining LMS HACP Adapter				
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6. In the Enterprise Profiles section, select the profile you just created, and scroll-down.

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- 7. Navigate to the **Profile Parameters** section and edit the **Value**(s) of the following **Name** fields:
 - a. Security Adapter DII Name: Change to libSiebel.
 - b. Config File Name: Change to customsecurity.cfg.
 - c. Config Section Name: Change to customparam.
 - **d. Propagate Change**: Ensure that the value is set as *False*, as the LDAP user creation is not supported by the Siebel agent.

Profile Parameters	5				م	0	1 - 10 of 1	0+ x³
Delete Parameter Override	Reset Advanced Hidden	×		\bigcirc				
	Name Alias	Data Type	Value					Description
CRC	CustomSecAdpt_CRC	String	******	Security adapter checksu	um			
Security Adapter Dll Name	CustomSecAdpt_SecAdptDllName	String	libSiebel	Security adapter dll name	e			
Config File Name	ConfigFileName	String	customsecurity.cfg	Custom security adapter	configuration file na	me		
User Password Hash Algorithm	CustomSecAdpt_HashAlgorithm	String	RSASHA1	The hash algorithm used	to hash password w	hen Hasl	hUserPwd is s	set to TRUE
Hash DB Cred	CustomSecAdpt_HashDBPwd	Boolean	False	If set to TRUE, then siebe	authentication syst	em will h	ash the db pa	assword an
Hash User Password	CustomSecAdpt_HashUserPwd	Boolean	False	If set to TRUE, then user's	s password will be ha	shed be	fore sent to a	uthenticati
Propagate Change	CustomSecAdpt_PropagateChang	e Boolean	False	Propagate user changes	to external user repo	sitory		
Salt User Password	CustomSecAdpt_SaltUserPwd	Boolean	False	If set to TRUE, then user's	s password will be pr	efixed wi	ith salt before	hashing. I
Config Section Name	ConfigSectionName	String	customparam	Custom security adapter	configuration section	n name		
Single Sign On	CustomSecAdpt_SingleSignOn	Boolean	False	Web SSO is enabled				

8. Scroll-up and click the **Component Definitions** tab. Search and select the application that you need to configure for custom authentication.

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Accounts L Contacts	Administration - Product 🖬 Opportunitie	s 🕲 Quotes 📲 Fleet Managem	ent 📕 Administration - Fleet Management	Sales Orders Service	ration - Server Configuration
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9. Scroll-down to the **Component Parameters** section, and configure the required setting for the application:

			D4 44 3	* H		
Component Parameters		۹ ۵	1-2of2 🛃	Security Ada	pter Mode	
Reset Advanced Hidden Name	v security*			Alias:	SecAdptMode	Effective
Name Value			Default Value	Subsystem	Security Manager	Immediately.
Security Adapter Mode Custom DB				Data Type:	String	At Next Task: 🗇
Security Adapter Name GTOCustom DBSecAdpt				Override Level:	Compdef level	At Component Restart: 🕫
				Fixed:		At Server Restart: 💷
				Description:	Type of security adapter	Requires Reconfiguration: 98

In the new Siebel subsystem **GTOCustom**, change **Custom** parameter value of the **Security Adapter Name** to **GTOCustom**.

The post LDAP login screen appears:

ORACLE [®] Siebel Customer Relationship Management	Accessibility Hy Account My Profile My Profile Inventory Search Contact Us Contact Us Help Log In/Out
Service Request Home	
	Search: Go Advanced Search
You are about to entire a secure area of this web sits. Please enter your user ID and password. If you are a new user, you can register to use this site by diding the New User Ink below.	
User Login	
Logins not allowed at certain times or from certain machines due to the security policy. Alternatively, your account has been disabled due to excessive failed login attempts. Please review your company's security policy or contact your system admin User ID: e	ctrator for assistance. (SBL-QAT-00570)
Password *	
Remember my User ID	
OK	
Forget Your Password?	
Nev User	
Login is not allowed at certain times or from certain machines due to the security policy. Alternatively, your account has been disabled due to excessive field login attempts. Please review your company's security policy or contact your system administ	trator for assistance.(SBL-0AT-00570)

Configuring LDAP Adapter

Configuring Custom Parameters

To configure parameters, refer the *sample_customSecurity.cfg* configuration file included in the SafeNet Agent for Siebel package.

1. Add your LDAP binding credentials:

```
ldapBindAccount="<user name>"
ldapBindPassword="<password>"
```

Use the following username and password for a bind:

- For Sun LDAP, use the uid of the user account.
- For Microsoft AD, use a simple name (with no details) since it does not use filters.
- 2. Configure BaseDN for LDAP users:

ldapBaseDN="<LDAP base DN>"

For example: ldapBaseDN="OU=users,OU=bccs,O=stc,C=sa,DC=stc,DC=com"

NOTE The BaseDN should mention Country Name before Domain Controller.

3. Configure the LDAP port and IP address, and the database username and password:

```
ldapPort=389
ldapServerIP="<LDAP server IP address>"
dbusername="<database username>"
dbpassword="<database password>"
```

4. For SSL, disable the default as 0:

ldapSSL="0"

5. Add the UID for LDAP query values:

ldapUID="<value>"

Common values are:

- cn
- UID
- sAMAccountName
- 6. For Microsoft AD, set the value to 1:

```
ldmicrosoftad="0"
```

```
sasEncryptionKeyFile="/home/siebel/sia/siebsrvr/bin/Agent.bsidkey"
sasprimaryhost="<IP of the SAS primary host>"
sasprimaryport="<80 for http or 443 for https>"
sasprimarypath="/TokenValidator/TokenValidator.asmx"
sasprimaryisssl="0"
sassecondaryhost="<IP of the SAS secondary host>"
sassecondaryport="<80 for http or 443 for https>"
sassecondarypath="/TokenValidator/TokenValidator.asmx"
sassecondarypath="/TokenValidator/TokenValidator.asmx"
```

7. Enable or disable SafeNet (OTP) authentication for users in LDAP groups:

ldapForceOTPGroupEnabled="1"

- Set the value to **1** (or any other value) to enforce OTP authentication.
- Set the value to **0** (or Blank) to disable OTP authentication.

NOTE Irrespective of whether you set the value to **1** or **0**, you must provide value(s) for mandatory, related attributes.

8. Enter group names for SafeNet authentication in a comma-separated list:

ldapForceOTPGroup="<group1>,<group2>"

NOTE SAS authentication is only applied to defined groups if ldapForceOTPGroupEnabled="1" (as defined in step 7).

- 9. Set the LDAP attribute used to search and identify users defined in LDAP groups (as defined in step 8): ldapForceOTPMember="member"
- 10. Enable or disable LDAP authentication:

ldapenabled="1"

NOTE Set value to 1 to enable or 0 to disable the LDAP authentication.

11.Set the BaseDN for user groups (as defined in Step 8):

ldapgroupbasedn

For example: ldapgroupbasedn="OU=bccs, O=stc, C=sa, DC=stc, DC=com"

Enter all anonymous users for SafeNet authentication in a comma-separated list:

anonusername="<user1>,<user2>"

NOTE The SafeNet two factor authentication will not be applicable for anonymous users.

13. Set validateCertificate value as 0 or 1. The value 1 ensures that the security certificate checks will be forced, while communicating with the SAS servers. If the value is left at default (0), the certificate check will be ignored. This parameter is only valid for the HTTPS protocol.

validateCertificate="1"

```
14. Set log level:
```

logLevel="<value>"

NOTE Set the value to **1** for **Info** logs. Set the value to **2** for **Debug** logs.

Troubleshooting

Error

If an error is encountered, it usually means that either the server didn't start correctly, or the Gateway Server isn't running.

Solution

Restart the Gateway Server, and then start the Siebel Server.

If needed, reboot the machine, start the Gateway Server, and then start the Siebel Server (you must do it, in the exact specified sequence).



Page not Loading

If the page is not loading, check the log file created at the following location: /tmp/siebelCRM.log

No Log File

If the log file is not being created, it means that an issue occurred on the Siebel CRM Admin console while configuring the adapter. Check the logs for the corresponding object manager under the enterprise directory.