Documentation

Agents

The following agents are configured under Main Menu > Administration > Configuration > Integration engine > Agents :

1. IdP Agent

The IdP agent is responsible for managing user authentication and identity validation. It is integrated with the Identity Provider (IdP) and linked to it through its Public ID.

<u>Main Menu</u> > <u>Administration</u> >	<u>Configuration</u> > <u>Integration engine</u> > <u>Agents</u> 1 / 3	
Basics Attribute mapping	Load triggers Massive actions Account metadata	
Name	idp *	
Description	Soffid Identity Provider	
Usage	IAM 👻	
Туре:	Soffid Identity Provider	✓ Class:es.caib.seycon.idp.agent.IDPAgent
Server	Each main synchronization server 👻	•
Shared Thread:	Dedicated threads: 1	
Task timeout (ms)	Long task timeout (ms):	
Trust passwords		
Read only	III No	
Pause tasks	III No	
Manual account creation	III No	
Role-based	III No	
Groups		*
User domain	Default user domain 👻 *	
Passwords domain	Default password domain 👻 *	
User Type	User Type	
	External user	
	Internal user	
	SSO account	
Connector parameters:		
Public ID	https://soffid.postbank.lpb.co.ls:1443	(Must match the public ID defined in Federation)

2. Source AD Agent

The Source AD Agent connects the Soffid console with the Active Directory (AD) to manage user data and synchronization, so we can carry out the authoritative load, to retrieve identities, and the reconciliation process, to request the accounts and ensure that all users are aligned with their

respective roles and responsibilities.

<u>Main Menu</u> > <u>Administration</u> > <u>Co</u>	nfiguration > Integration engine > Agents ◀ 2 / 3 ►		
Basics Attribute mapping Lo	ad triggers Massive actions Account metadata		
Name	Source AD: postbank.lpb.co.ls		
Description	Authoritative data source dc=postbank,dc=lpb,dc=co,dc=ls		
Usage	IAM 🗸		
Туре:	Active Directory Only Passwords	✓ Cla	ss:com.soffid.iam.sync.agent2.SSOActiveDirectoryAgent
Server	Each main synchronization server 🔹		
Shared Thread:	□ No Dedicated threads: 1		
Task timeout (ms)	Long task timeout (ms):		
Trust passwords	Yes		
Authoritative identity source	Yes III - 🗸		
Read only	III No		
Pause tasks	III No		
Manual account creation	III No		
Role-based	III No		
Groups	ä		
User domain	Default user domain 🗸 *		
Passwords domain	Default password domain 👻 *		
User Type	▪ User Type		
	External user		
	 ✓ Internal user SSO account 		
Connector parameters:			
Hostname	10.0.1.220		
LDAP base DN	dc=postbank,dc=lpb,dc=co,dc=ls		
Principal name	postbank\soffid		
Password	•••••		
Enable debug	No 🗸		
Accepted certificates	Any (insecure)		
Follow referrals	Don't 👻		
Manage child domains	No Domains to ignore:		
Create OUs when needed	No v		
Generate flat groups	No 🗸		
Undelete deleted users	No 🗸		
Real time load last login attribute	No 🗸		

SSO Agent

Real time load identity changes No 👻

The SSO Agent is responsible for managing user login session across multiple applications. This agent serves as an auxiliary component that facilitates the registration of local accounts in the password vault. This capability allows for secure storage and management of user credentials.

<u>Main Menu > Administration > Configuration > Integration engine > Agents</u> **4** 3 / 3

Basics Attribute mapping L	oad triggers Massive actions Account metadata	
Name	SSO '	
Description	External SSO accounts	
Usage	IAM 🗸	
Туре:	External accounts	 Class:com.soffid.iam.sync.sso.agent.SSOAgent
Server	Each main synchronization server 👻	
Shared Thread:	□ No Dedicated threads: 1	
Task timeout (ms)	Long task timeout (ms):	
Trust passwords	III No	
Read only	III No	
Pause tasks	III No	
Manual account creation	Mes II	
User domain	Default user domain 🔹 *	
Passwords domain	Default password domain 🗸 *	
Connector parameters:		
AD user		
AD Password		
Native SMB	No 🗸	

For more information, please refer to Agents.

Web SSO

The following elements are required for the configuration of Web Single Sign-On (WSSO):

1. Attribute definition

In Main Menu > Administration > Configuration > Web SSO > Attribute definition, the auto-generated user attributes are stored. These attributes are sent from the IdP to the SP, based on the attribute sharing policies.

		∲ Oid		Radius identifier	
Filter	Filter	Filter	Filter	Filter	Filter
Accounts & Passwords	Secrets	um:oid:1.3.6.1.4.1.22896.3.1.6	Ì.		
Email address	mail	um:oid:0.9.2342.19200300.100.1.3	email		
Full name	Fullname	urn:oid:2.16.840.1.113730.3.1.241	full_name		
Given Name	GivenName	urn:oid:2.5.4.42	given_name		
Organizational unit	OU	urn:oid:2.5.4.11	ou		
Phone	TelephoneNumber	urn:oid:2.5.4.20	phone		
Role & group membership	memberOf	urn:oid:1.3.6.1.4.1.5923.1.5.1.1	meber_of		
Session ID	SessionId	urn:oid:1.3.6.1.4.1.22896.3.1.1	session_id		
Session key	SessionKey	urn:oid:1.3.6.1.4.1.22896.3.1.2			
Surname	Surname	urn:oid:2.5.4.4	family_name		
Surnames (all)	Surnames	urn:oid:1.3.6.1.4.1.22896.3.1.5	surnames		
User ID	uid	urn:oid:0.9.2342.19200300.100.1.1	sub		
User type	UserType	urn:oid:1.3.6.1.4.1.22896.3.1.4	user_type		
					Displaye

Attribute sharing policies

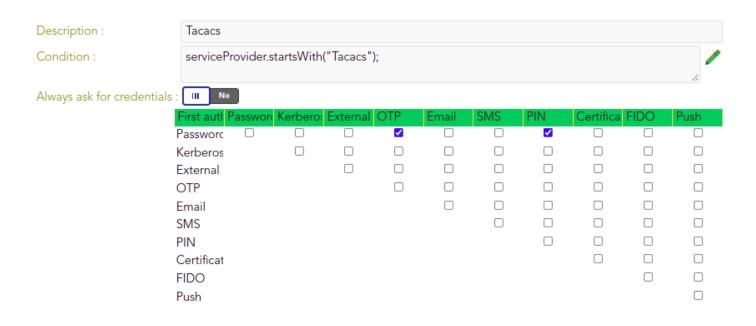
In Main Menu > Administration > Configuration > Web SSO > Attribute sharing policies the rules under which attributes are shared between the IdP and the SP can be defined. These policies ensure that only relevant and essential attributes are transmitted in a secure manner.

3. Identity & Service Providers

One Entity Group has been created (*Postbank*) in Main Menu > Administration > Configuration > Web SSO > Identity & Service providers. The providers defined within this group are:

3.1. Identity Providers

The identity provider uses Soffid IdP for identity authentication. Adaptive authentication is configured, so if the name of the service provider requesting authentication begins with "Tacacs", it indicates that the service provider is utilizing the Terminal Access Controller Access-Control System (TACACS) and two-factor authentication (2FA) will be required, as shown below.



Otherwise multi-factor authentication (MFA) will be required.

Authoptication

Always ask for credentials	: Yes III)									
Authentication methods	First auth	Password	Kerberos	External l	OTP	Email	SMS	PIN	Certificate	FIDO	Push
	Password				~	Image: A start and a start	V	~			
	Kerberos										
	External Ic										
	OTP										
	Email										
	SMS										
	PIN										
	Certificate										
	FIDO										
	Push										~
	Adaptive	authentic	ation								
Kerberos Domain	☆ Kerberos	s Domain		∆ ⊽	Principal	name		⇒ De	escription		
	Filter			F	ilter			Filt	er		
										Disp	layed row

Additionally, TLS and <u>SAML</u> can be configured uploading the PKCS12 files, which have already been uploaded.

<u> Main Menu</u> > <u>Administra</u>	ation > <u>Configuration</u> > <u>Web S</u>	SO > Identity & Servi	<u>ce providers</u> ◀ 4 / 15 ►			
Identification					Service configurat	tion
IdP type :	Soffid IdP			~	• Metadata :	
Identifier :	https://soffid.postbank.lpb.o	co.ls:1443				
Name :	soffid.postbank.lpb.co.ls					
Organization :	Postbank					
Contact :	support@soffid.com					
Network					SAML Security	
Host Name :	soffid.postbank.lpb.co.ls				PublicKey	🚕 Change public / private key 🏾 🍰 Delete public / private key 🗋 🔓 Generate PKCS10 🗋
Network ports	Behind proxy			Accept TLS Certificates	Certificate chain :	BEGIN CERTIFICATE
	Filter	Filter	Filter	Filter		MIIDDjCCAfagAwIBAgIGAZEmlus3MA0GCSqGSIb3DQEBBQUAMEgxljAgBgNVBAMM
	false	1443	TLSv1.3	true		
				Displayed rows:	1	
				÷		
TLS PublicKey	Achange public / private	key 🛛 🍰 Delete publi	ic / private key 🛛 🔒 Generate	PKCS10		
TLS Certificate chain :	BEGIN CERTIFICATE MIIG4DCCBcigAwIBAgIIJRI	r5tAa0pswDQYJKoZlhv	cNAQELBQAwgcYxCzAJBgN\	/	-	

3.2. Service Providers

Several service providers have been defined. Those that grant access to firewalls, routers and other systems, are prefixed with "Tacacs", thus 2FA will be required. For the remaining service providers, which allow access to proxies and other systems, MFA will be enforced, as stated previously. These providers allow users to connect to various systems directly, without initiating the connection through Soffid, while still ensuring identity authentication through the identity provider.

<u>Main Menu</u> > <u>Administrati</u>	on > Configuration > Web SSO > Identity & Service providers ◀ 9 / 15 ►			
Identification		Login rules		
Type :	Tacacs+ 🗸	Roles required to login :		٠
Identifier :	Tacacs1.12	System where an enabled	account is required :	
Name :	Tacacs Active firewall		Source AD: postbank.lpb.co.ls	Authoritative data source dc=postbank,dc=lpb,dc=co,dc=ls
Tacacs+ configuration	n			
Source IPs :	192.168.1.12			
Tacacs+ secret :	••••••• •			
Authorization rules	Authorization rules			
	Filter			
	always true			
	Displayed rows: 1			
	•			

For more information, please refer to <u>Web SSO.</u>

XACML Policy Management

In Main Menu > Administration > Configuration > Security Settings > XACML Policy Management the policy set PAMMFA has been created, within which the policy OTPApprove has been defined. It has the obligation to request an OTP with a timeout when launching a connection through PAM.

<u>Main Me</u>	enu > Administration > 0	<u>Configuration</u> > <u>Security settir</u>	ngs > XACML Policy M	lanagemen	<u>t</u> ◀ 2/2						
Policy											
Identifie	er: : OTP.	Approve									
Version		*									
Descrip	tion: : OTP	Approve									
Rule Co	mbining Algorithm: :										
	Perm	nit overrides				~					
Target											
	∜ Subjects	♦ Operator	\$ \	/alue		+	☐ ♦ Resources	Operator		∜ Value	+
					Displayed rows: 0						Displayed rows: 0
	[≜] Actions	♦ Operator	¢∖	/alue		+	☐ [⊕] Environments	Operator		♦ Value	+
					Displayed rows: 0)					Displayed rows: 0
Variab	les										
	☆ Variable						♦ Expression				+
											Displayed rows: 0
Rules											
	[≜] Rule			† Descri	ption			♦ Effect			+
	Approve			Approve				Permit			
											Displayed rows: 1
Obliga	tions										
	[≜] Obligation		♦ Full fill on				[≜] Attribute		[∆] Value		+
	urn:soffid:obligation:otp		Permit				timeout		30		
											Displayed rows: 1
											Undo Apply change

This policy is enabled through the Password vault Policy Enforcement Point in Main Menu >

Administration > Configuration > Security Settings > XACML PEP configuration, where the Policy Set Id must be specified.

Password vault Policy Enforcement Point (

Enable XACML Policy Enfo	rcement Point : Yes 🛛 💷
Policy Set Id :	PAMMFA
Policy Set Version :	1
Trace requests :	Yes

For more information, please refer to <u>XACML Policy Management</u> and <u>XACML PEP configuration</u>.

Password Vault

As an example, in Main Menu > Administration > Resources > Password vault the PAM Tests folder has been created, within which two accounts have been created aswell.

1. PAM TEST RDP

This account allows us to launch a connection to a machine through the PAM Launcher of Soffid. For this purpose, in "Basics", it is mandatory to indicate the login URL, where the network protocol must be specified (RDP in this case), together with the IP of the machine that we want to connect to. We also need to specify the Launch type, indicating it is a PAM Jump Server, and the Jump server group corresponding to the PAM Jump Server. Additionally, owners can be selected to handle privileged access.

<u>Main Menu > A</u>	dministration >	Resources >	Password	vault	◄	3 /	4	Þ
-------------------------	-----------------	-------------	----------	-------	---	-----	---	---

Common attributes				Owners		
System :	SSO	* 🗲 External SSO accounts		Owner groups :		*
Name :	2			Owner users :	dmokopotsa	💄 Motseki Mokopotsa 💿
Login name :	dmokopotsa				admin	💄 Soffid Administrator 💿
Description :	PAM TEST RDP					*
Type :	Unmanaged		~	Owner roles :	SOFFID_ADMIN@soffid	🐣 SOFFID Administrator 🏾
Status :	Enabled		~			<u>e</u>
Credential type :	Password					
Password policy :	SSO account		~			
Managers				SSO Users		
Manager groups :		*		Granted groups :		
Manager users :		*		Granted users :		*
Manager roles :		•		Granted roles :		•
assword synchron	zation			Password vault		
Server type :			~	Vault folder :	PAM Tests	
Server name :				Inherit new permissions :		
aunch properties.				Audit information		
Login url :	rdp://10.0.1.62			Created :	13/8/2024 16:12	
Launch type :	PAM Jump server		~	Last login :		
Jump server group :	Postbank-PAM-Jump-Ser	ver - Postbank PAM Jump Server	~	Last change :	9/9/2024 18:00	
				Last updated :		
				Last password set :	13/8/2024 16:29	
				Password expiration :	13/8/2025 16:29	
				In use by :		

Consequently, in "Actions", a password must be set in the "Set now" option, so we can launch the connection and unlock the use of the account. Have in mind that we can change the password policies in Main Menu > Administration > Configuration > Security Settings > Password Policies.

<u>Main Menu > Adminis</u>	stration > <u>Resources</u> > <u>Password vault</u>	3/4 ►			
Actions Basics					
Name :	2				
Description :	PAM TEST RDP				
System :	SSO		External SSO	accounts	
Login name :	dmokopotsa				
Login url :	rdp://10.0.1.62				
Credential type :	Password				
In use by :					
					\bigcirc
					1
			Launch	View password	Set now

However, when launching the connection an OTP will be requested, due to the Password vault policy previously explained.

Actions Basics Name :	2	
	PAM TEST RDP	
	SSO	External SSO accounts
	dmokopotsa	
	rdp://10.0.1.62	
Credential type :	Password	
		Enter your OTP value Número de seguridad digits III @I®I®: OK Cancel

2. PAM TEST SSH

Another account has been defined for launching a connection through SSH. The concepts explained in the previous account extend to this one.

For more information, please refer to Password vault.

Connectors

The plugins required for the connectors are stored in Main Menu > Administration > Configuration > Global Settings > Plugins, where the addon files can be uploaded.

Extend accounts plugin 10.2 25/6/2024 10.4 Marada plugin 10.3 25/6/2024 10.4 Oracle plugin 22.4 22.4 25/6/2024 10.4 REST Web service plugin 12.14 25/6/2024 10.4 25/6/2024 10.4 SQL Server plugin 10.1 25/6/2024 10.4 25/6/2024 10.4 SQL Server plugin 10.1 25/6/2024 10.4 25/6/2024 10.4 SQL plugin 17.10 25/6/2024 10.4 25/6/2024 10.4 Sfell plugins 14.16 25/6/2024 10.4 25/6/2024 10.4 Soffid Admin addon 3.11.8 admin 11/8/2024 14.4 Soffid Identity Federation 3.62/1/2024 0.82/1.70.2 admin 24/8/2024 10.4 Soffid Identity XACML 3.018 admin 11/8/2024 10.4 11/8/2024 10.4 Soffid Otherity XACML 3.018 admin 11/8/2024 10.4 11/8/2024 10.4 Soffid Otherity XACML 3.018 admin 11/8/2024 10.4 11/8/2024 10.4 Soffid Otherity XACML 3.018 admin 11/8/2024 10.4 11/8/2024 10.4 11/8/2024 10.4 11/8	• Plugin	∜ Version	Deployed by	[‡] Date
External accounts plugin 10.2 25/6/024 10-4 Marads plugin 10.3 25/6/024 10-4 Oracle plugin 224 24 25/6/024 10-4 REST Web service plugin 12.14 25/6/024 10-4 25/6/024 10-4 SoLl Server plugin 10.1 25/6/024 10-4 25/6/024 10-4 SoL Server plugin 10.1 25/6/024 10-4 25/6/024 10-4 SoL Server plugin 10.1 25/6/024 10-4 25/6/024 10-4 SoL Server plugin 1.16 25/6/024 10-4 25/6/024 10-4 Solf Identity Federation 3.621-0204.024.024.024 3dmin 11/8/024 14-3 Solf Identity Federation 3.621-0204.024.024.024.024.024.024.024.024.024	Filter	Filter	Filter	Filter
Mariads plugin 10.3 25/6/2024 10-4 Oracle plugin 2.2.4 2.2.4 2.2.6/2024 10-4 REST Web service plugin 1.2.1.4 2.2.6/2024 10-4 2.2.6/2024 10-4 SQL Server plugin 1.0.1 2.5.6/2024 10-4 2.5.6/2024 10-4 SAL Server plugin 1.1.8 2.5.6/2024 10-4 2.5.6/2024 10-4 Sofid Jachmin addon 3.1.18 admin 1.18/2024 14-5 Sofid Jachmin Addon 3.0.8 admin 2.4.6/2024 10-4 Sofid Jachmin Adon 3.0.18 admin 1.18/2024 14-5 Sofid Jachmin Adon 3.0.18 admin 1.18/2024 14-5 Sofid Jachmin Adon 3.0.18 admin 1.18/2024 14-5 Sofid Jachmin Y XACML 3.0.18 admin 1.18/2024 14-5 Sofid Jachmin Y XACML 2.20 admin 1.18/2024 14-5	Default plugin	3.6.4		26/8/2024 14:57
Oracle plugin 22.4 Call 25/6/2024 10-2 REST Web service plugin 12.14 6 25/6/2024 10-2 SQL server plugin 10.1 25/6/2024 10-2 25/6/2024 10-2 SQL plugin 10.1 25/6/2024 10-2 25/6/2024 10-2 SQL plugin 17.10 25/6/2024 10-2 25/6/2024 10-2 Shell plugins 14.16 6 26/8/2024 10-2 Sofid Admin addon 36.21.2024.024.024.024.024.024.024 3dmin 1/8/2024 10-2 Sofid Joentity Federation 36.21.020.024.024.024.024 3dmin 24/8/2024 10-2 Sofid Joentity XACML 30.108.04.01.02 3dmin 1/8/2024 0-2 Sofid Joentity XACML 30.108.04.01.02 3dmin 1/8/2024 0-2 Sofid Joentity XACML 30.108.04.01.02 3dmin 1/8/2024 0-2	External accounts plugin	1.0.2		25/6/2024 10:49
REST Web service plugin 12.14 Schl 25/6/2024 10: SQL server plugin 10.1 25/6/2024 10: 25/6/2024 10: SQL server plugin 17.10 25/6/2024 10: 25/6/2024 10: SAL plugins 17.10 25/6/2024 10: 25/6/2024 10: Self plugins 17.10 25/6/2024 10: 25/6/2024 10: Soff of Admin addon 36.1120240.24:10: admin 1/8/2024 14: Soff of Identity Federation 36.2120240.82:41.70: admin 24/8/2024 14: Soff of Identity ACML 30.18 admin 1/8/2024 14: Soff of Of Paddon 22.20 admin 1/8/2024 14:	Mariadb plugin	1.0.3		25/6/2024 10:49
SQL Server plugin 10.1 25/6/2024 10-2 SQL plugin 17.10 25/6/2024 10-2 SAL plugins 14.16 25/6/2024 10-2 Soffid Admin addon 3.118 admin 11/8/2024 14-2 Soffid Identity Federation 3.621/2024 0.624.17.02 admin 11/8/2024 14-2 Soffid Identity Federation 3.621/2024 0.624.17.02 admin 24/8/2024 17-2 Soffid Identity Federation 3.018 admin 11/8/2024 0.42 Soffid Identity Federation 3.018 admin 11/8/2024 0.42 Soffid Identity Federation 2.200 admin 11/8/2024 14-2	Oracle plugin	2.2.4		25/6/2024 10:49
SQL plugins 1.7.10 25/6/2024 10.9 Shell plugins 1.4.16 26/8/2024 14.9 Shell plugins 1.8.18 admin	REST Web service plugin	1.2.14		25/6/2024 10:50
Shell pugins 14.16 26/8/2024 14.5 Sofid Admin addon 3.1.18 admin 1/8/2024 14.5 Sofid Johnty Federation 3.62.1024.08.24.7.02 admin 24/8/2024 7.5 Sofid Johnty Federation 3.62.1024.08.24.7.02 admin 24/8/2024 7.5 Sofid Johnty ACML 3.0.18 admin 1/8/2024 14.5 Sofid Orpadon 2.2.0 admin 1/8/2024 14.5	SQL Server plugin	1.0.1		25/6/2024 10:49
Soffid Admin addon 3.1.18 admin 1/8/2024 14: Soffid Identity Federation 3.621 2024.08.24.17.02 admin 24/8/2024 17: Soffid Identity XACML 30.18 admin 1/8/2024 14: Soffid Identity XACML 30.18 admin 1/8/2024 14: Soffid Identity XACML 30.18 admin 1/8/2024 14: Soffid Identity XACML 2.20 admin 1/8/2024 14:	SQL plugin	1.7.10		25/6/2024 10:50
Soffio Identity Federation 3.621-2024.08.24.7.02 admin 2.4/8/2024.07.24 Soffio Identity XACML 3.0.18 admin 1.9/8/2024.09.24 Soffio OTP addon 2.20 admin 1.9/8/2024.09.24	Shell plugins	1.4.16		26/8/2024 14:58
Sofia Identity XACML 30.18 admin 19/8/2024 09: Sofia OP addon 22.0 admin 1/8/2024 14:	Soffid Admin addon	3.1.18	admin	1/8/2024 14:59
Soffid OTP addon 2.2.0 admin 1/8/2024 145	Soffid Identity Federation	3.6.21-2024.08.24.17.02	admin	24/8/2024 17:02
	Soffid Identity XACML	3.0.18	admin	19/8/2024 09:57
Windows plugin 54.22 26/8/2024 14:5	Soffid OTP addon	2.2.20	admin	1/8/2024 14:59
	Windows plugin	5.4.22		26/8/2024 14:57

These tools help manage external accounts, databases like MariaDB, Oracle, and SQL Server, and interact with REST web services. They also provide SQL execution capabilities, shell scripting, and seamless integration with Windows environments. On the security and identity management side, we have connectors that handle identity federation, XACML and multi-factor authentication via OTP.

For more information, please refer to Connectors.

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