

How to install ESSO?

- [ESSO Installation Windows \(from 3.3.3-enterprise to 3.4.3-enterprise\)](#)
- [ESSO Installation Windows \(+3.5.0-enterprise\)](#)
- [ESSO Installation Linux](#)
- [Startup process](#)
- [Enforcing browser addons](#)

ESSO Installation Windows (from 3.3.3-enterprise to 3.4.3-enterprise)

Introduction

Soffid ESSO is a full Enterprise Single Sign on solution.

Here you can find the details about the **ESSO from 3.3.3-enterprise to 3.4.3-enterprise** versions installation.

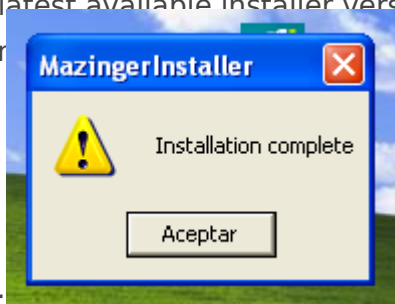
Supported platforms

Soffid ESSO supports Windows XP or later workstations.

Interactive installation

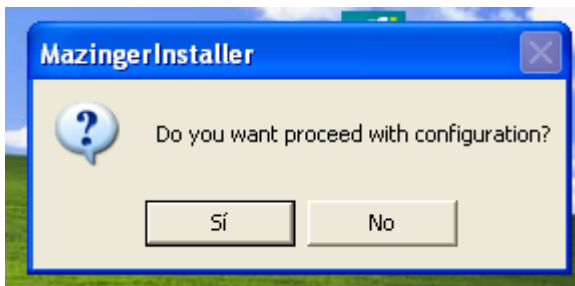
To install Soffid ESSO, you must follow these steps:

1. Download the latest available installer version from: [Soffid Download Manager](#).
2. Run it as administrator. After the installation has finished, a message window



will notice you:

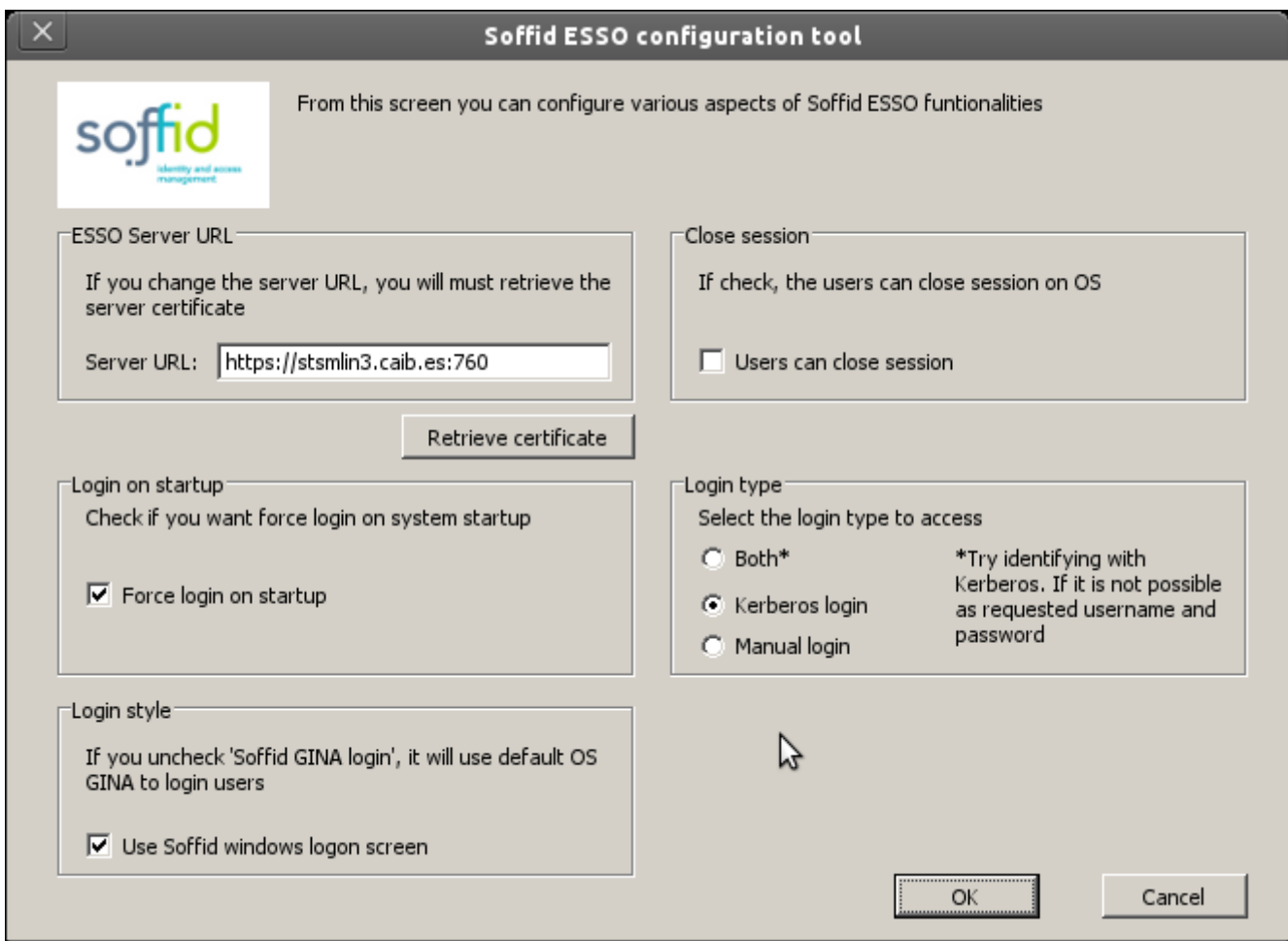
3. Finally, the system will prompt you to configure Soffid ESSO. This prompt will not be shown on updates or silent installations.



4. After configuring the system, it's required to reboot the computer.

Interactive configuration

The first task to do at configuration panel is to enter the Soffid synchronization server URL and fetch its digital certificate. To do it, enter its URL on the textbox and press "Retrieve Certificate" button in order to obtain a certificate from the server.

A screenshot of the "Soffid ESSO configuration tool" window. The title bar is dark gray with a close button (X) and the text "Soffid ESSO configuration tool". The main area has a light gray background. At the top left is the Soffid logo (a stylized 's' in blue and green) with the text "soffid" and "identity and access management" below it. To the right of the logo is the text "From this screen you can configure various aspects of Soffid ESSO functionalities". The window is divided into several sections: 1. "ESSO Server URL": Contains a text box with the URL "https://stsmlin3.caib.es:760" and a "Retrieve certificate" button below it. 2. "Close session": Contains a checkbox labeled "Users can close session". 3. "Login on startup": Contains a checkbox labeled "Force login on startup". 4. "Login type": Contains three radio buttons: "Both*", "Kerberos login", and "Manual login". To the right of these is a note: "*Try identifying with Kerberos. If it is not possible as requested username and password". 5. "Login style": Contains a checkbox labeled "Use Soffid windows logon screen". At the bottom right are "OK" and "Cancel" buttons.

If the URL is correct and the synchronization server is effectively running, the digital certificate will be downloaded and stored at Soffid ESSO directory. Mind that this initial configuration step is highly insecure. Should a man be in the middle, the certificate could be tampered, compromising any further security check.

It is a suitable procedure for testing and quick configuring, but a secure way to install and configure your installation certificate is preferred.

“**Users can logout**” checkbox enable users to open the Soffid notifier menu and close it's Soffid session. After logging out, the user will be allowed to start a new Soffid session with the same or another user name. If the checkbox is not selected, the user will not be allowed to close Soffid session without closing Windows session.

When “**Force login at startup**”, checkbox is selected, the Windows session (explorer.exe) won't start until Soffid session is completely verified and set up. Otherwise, the windows session will start regardless Soffid session is not started yet. If there is an error or denied log-on at Soffid ESSO, windows session will go on without any single sign on feature.

“**Use Soffid windows logon screen**” checkbox is only available on Windows XP. It changes the default (GINA) Windows logon screen, allowing the use of self-registered SmartCard certificates or one-time-password devices. It is not needed on Vista and later.

There are three ways to logon to Soffid:

- **Kerberos login** will reuse the Windows credential acquired by the operating system. If they belong to a managed Active Directory, the user won't need to enter any user name or password to access Soffid.
- When **manual login** is selected, the user must enter a valid user name and password in order to access Soffid.
- When **both** is selected, the system will try first a Kerberos login. Whenever it is not possible (the user is not a domain user), a manual login will be prompted to the user.

Silent installation

In order to do a silent installation you can execute the installer from command line with the following parameters:

-q or **/q**: Quiet installation

-server [url] or **/server** [url]: to configure the synchronization server URL.

-force or **/force**: force the installation even if a restart is pending. Not recommended.

-nogina or **/nogina**: do not modify previos GINA. In this version, this parameter only applies in first installation.

Example:

```
C:\> soffidesso.exe -q -server https://server.domain.local:760 -force -nogina
```

Smart update

To assist in massive deployment scenarios, smart update switch can be set to prevent Soffid to reinstall components when the installer version matches the already installed one. This switch does not affect to new installations.

-smartupdate or /smartupdate: Smart update installation

Example:

```
C:\> soffidesso.exe -q -server https://server.domain.local:760 -force -nogina -smartupdate
```

MSI Package

MSI Installation is also available for enterprise customers.

To customize configuration parameters, the PARAM variable can be used:

Example:

```
C:\> msixexec /i soffidesso.mssi PARAM="-q -server https://server.domain.local:760 -force -nogina -smartupdate"
```

Registry configuration entries

The system stores all its settings in the registry branch HKLM\Software\Soffid\esso. The values used are as follows:

Entry	Default Value	Description
LogonEntry	Logon	After identifying the user, Soffid ESSO will look at the defined application tree for an application with this key, in order to execute it.

OfflineEntry	Offline	If synchronization servers are not reachable, an alternative script will be execute. This entry contains the key of the application entry point to execute in such a case.
LocalCardSupport	2	Indicate whether to ask for coordinates card at logon time or not. Four values are allowed. 1 – Coordinates card is required 2 – Coordinates card is required if and only if the user is the owner of one card. 3 – Coordinates card is required if the user is connecting from a not registered device. 4 – Never ask for coordinates card.
RemoteCardSupport	1	Indicate whether to ask for coordinates card when performing a remote logon. Four values are allowed. 1 – Coordinates card is required 2 – Coordinates card is required if and only if the user is the owner of one card. 3 – Coordinates card is required if the user is connecting from a not registered remote device. 4 – Never ask for coordinates card.
LocalOfflineAllowed	1	Specifies whether is it permitted to use the workstation when no Soffid synchronization servers are reachable. 1 – It's permitted. 0 – It's forbidden.
RemoteOfflineAllowed	0	Specifies whether it is permitted to open a terminal server connection against this host when no Soffid synchronization servers are reachable. 1 – It's permitted. 0 – It's forbidden.
CertificateFile	root.cer	Specifies the name of the file containing the Certificate Authority certificate used by the synchronization server (X509 DER format)
SSOServer	stsm1in3.caib.es, sticlin2.caib.es	Comma-separated list of synchronization server names
seycon.https.port	760	TCP/IP port used for connecting to SEYCON

debuglevel		Indicates the level of detail of the log: 0 = not recorded anything 1 = Basic Information 2 = Detailed Information
ginalogFile		Name of the file which records the actions taken by GINA. Do not enable it unless needed.
ShiroHostName		Do not modify: It contains the name that the host had when it was registered at Soffid server.
startDisabled	false	When it contains the value "true", Soffid ESSO will be started in disabled (or pause) state. Thus, it will not inject any user name or password on user applications.
MazingerVersion		It contains the version number of Soffid ESSO.
sayaka.domain		It contains the Active Directory name the workstations belongs to.
sayaka.pkcs11%	(reserved)	Each crypto card used by the user will have a corresponding entry indicating the name of the PKCS#11 DLL that can handle it. Do not modify.

Startup process

Windows XP GINA logon

Soffid GINA is an optional part of Soffid ESSO. It's features are:

- Allows users to log on using smart cards. The digital certificates can be auto enrolled as long as there is a method to know which user it belongs to.
- Allows authorized users to log on with Local Administrator privileges.

Windows Vista Credential Provider

Soffid Credential Provider is an optional part of Soffid ESSO. It's features are:

- Allows users to log on using smart cards. The digital certificates can be auto enrolled as long as there is a method to know which user it belongs to.
- Allows authorized users to run with Local Administrator privileges.

Soffid session startup

After being identified by Windows, the Soffid session startup takes place. Either sequentially or in parallel to desktop startup, the Soffid ESSO session manager (named KojiKabuto after the best ever hero) is the responsible for making the following steps.

Update settings

KojiKabuto will contact Soffid servers to update registry entries using the system configuration introduced at Soffid console (LogonEntry, OfflineEntry, SSO Server, seycon.https.port)

Kerberos handshake

If it's enabled by system administrator, Soffid Synchronization server and the user desktop will perform a Kerberos handshake. If the Credential token shown by user desktop is accepted by any managed Active Directory, Soffid will accept that credential as a prove of identity.

In order to do that handshake, Soffid will create a special user named SEYCON_xxxx for each one of the synchronization servers involved in the login process.

Manual login

If it's enabled by system administrator, or Kerberos handshake has failed, the user will have the chance to enter its user name and passwords. They will be verified by synchronization server against its internal user database.

Coordinates card

Once logged in, KojiKabuto requested permission to log. At this time, synchronization server could issue a coordinates card challenge. If the user fails to enter the right value for the coordinates requested, the Soffid session will be canceled.

Multiple sessions prevention

At this phase, Synchronization Server will check if the user has any other, not linked, session. If there is any other active session, and the user has not been granted the capability to open more than one (at Soffid console), the system will notice it to both, the new session and the ancient one.

Finally, the new session will take the decision to close the ancient one or to give up. If the user chooses to close the ancient one, the later will show a prompt, and its user will have 30 seconds to answer if he agrees to close that session. Usually the user has left the ancient session open and no user will be present at the ancient session. So, after 30 seconds the session will be closed and the new one will proceed.

SSO Rules activation

Once the session has been created, the SSO rules present at Soffid Console will be compiled and loaded into the Windows Session. Since this moment, every application launched will have its credentials automatically fulfilled.

Startup script

The workstation connects to Synchronization Server to get the session logon script (LogonEntry registry entry with default value "Logon"), and the session offline script (registry entry "OfflineEntry" with default value "offline"), which will be executed at next logon whether or not Synchronization server is reachable.

The offline script is stored at %ProgramFiles%\SoffidESSO\Cache\offline.mzn file.

Afterwards, the application menu is populated using the application entries configured at Soffid Console.

Desktop start

Unless the system configuration enables the user to use the desktop before opening the Soffid Session, the Desktop is started right now. Otherwise, the desktop would have been started at the initial steps.

System operation

Once the session is started, Soffid ESSO has two main tasks to do:

First. Timely keeps in touch with Synchronization server to confirm the validity of the soffid session.

Second. Performs injection of user names and password to applications, based on the SSO rules bound to each application entry point the user is authorized to execute.\

Enforcing browser addons

Modern browsers, apply certain restrictions to automatically enable browser addons without user intervention:

Google chrome

Google chrome extension is automatically enabled, but requires internet access, as Chrome is going to download the addon directly from Chrome store rather than using the locally installed version. This addon is compatible with Microsoft Edge.

Mozilla Firefox

There is a Mozilla firefox group policy to automatically enable any extension. Follow this link to get it: https://github.com/mozilla/policy-templates/releases/download/v1.11/policy_templates_v1.11.zip

You can alternatively, add the following registry key:

HKEY_LOCAL_MACHINE\Software\Policies\Mozilla\Firefox\Extensions\Locked\1 = "esso@soffid.com"

Internet Explorer (deprecated)

As well, there is a group policy for Internet Explorer. Please, follow this Microsoft link to get it: <https://docs.microsoft.com/es-es/internet-explorer/ie11-deploy-guide/enable-and-disable-add-ons-using-administrative-templates-and-group-policy>

The GUID of Soffid ESSO group policy is {53252A52-D536-11DF-866D-5B82D67A00D1}

ESSO Installation Windows (+3.5.0-enterprise)

Introduction

Soffid ESSO is a full Enterprise Single Sign on solution.

Here you can find the details about the **ESSO +3.5.0-enterprise** installation.

Supported platforms

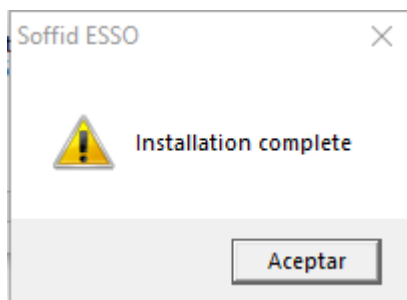
Soffid ESSO supports Windows XP or later workstations.

Windows

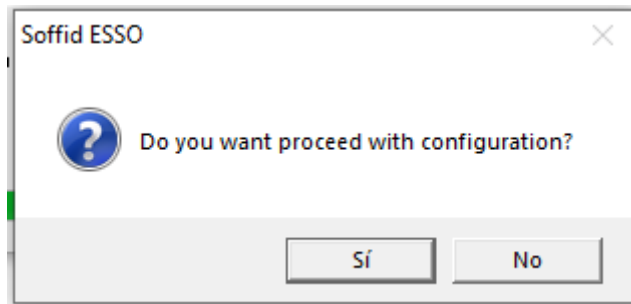
Interactive installation

To install Soffid ESSO, you must follow these steps:

1. Download the latest available installer version from: [Soffid Download Manager](#).
2. Install as administrator. Once the interactive installation has finished, a message window will notice you:

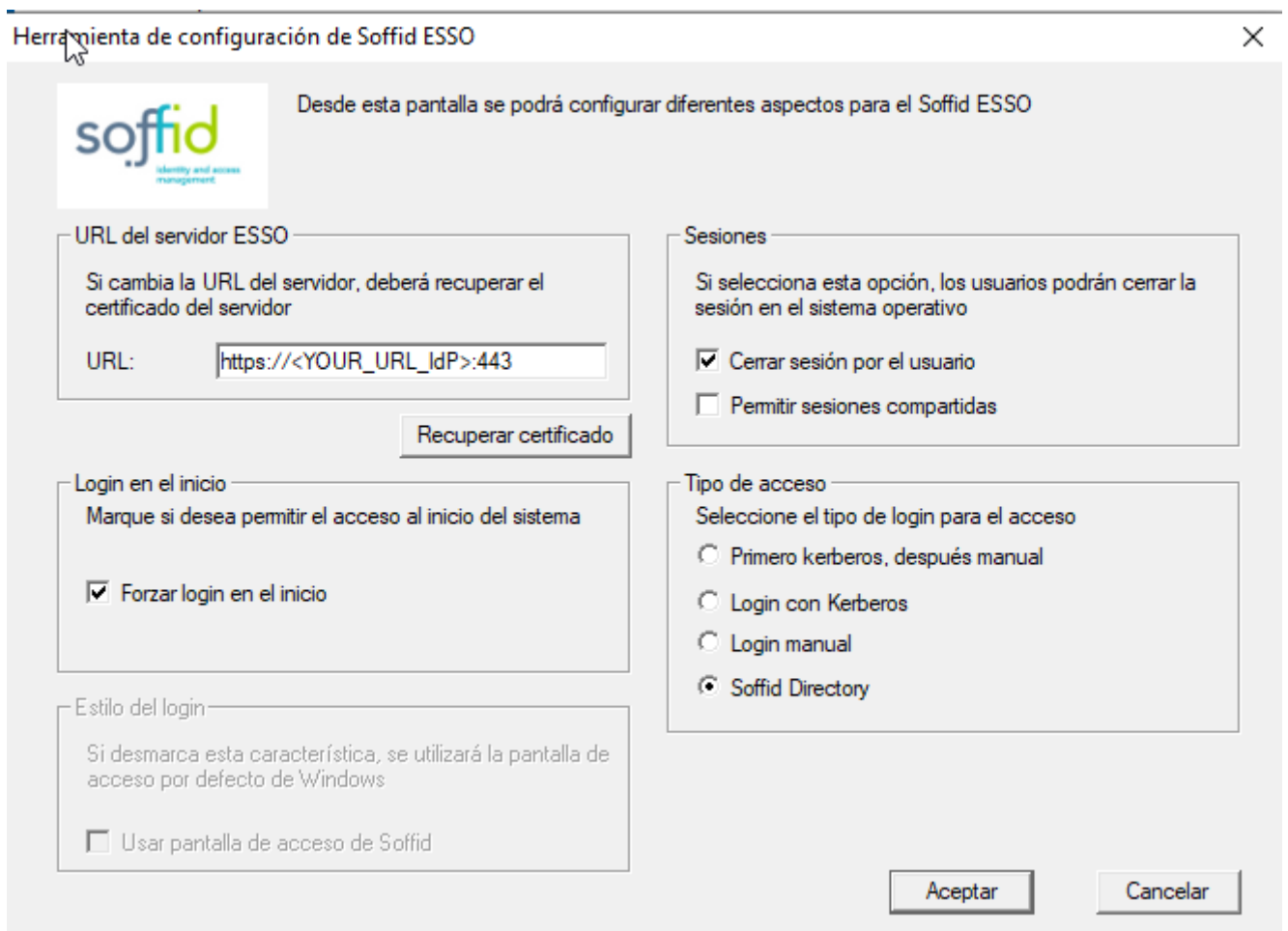


3. Finally, the system will prompt you to configure Soffid ESSO. This prompt will not be shown on updates or silent installations.



3.1. If you click No, the process finish without configuration

3.2. If you clic Yes, you have to configure the URL of the ESSO server, for which you will have to enter the URL of the Soffid identity provider and obtain its digital certificate.




4. After configuring the system, it's **required to reboot the computer**.

For more information, you can visit [the Windows user acces page](#) and [the Windows Administrator access page](#).

Configure the ESSO Profile

1. Then you need to configure the ESSO profile in your Identity Provider

 **Image**

Class :

Esso


Enabled :

Yes

II

Soffid main agent :

soffid

 Soffid system

Seconds to send keep alive from desktop to server :

60

Timeout to close sessions :

180

Enable Windows credential provider :

II

No

Display last logged-on user :

Yes

II

Create local accounts when there is no domain account :

II

No

Maximum number of consecutive days to allow an off-line logon :

Maximum number of consecutive days to allow an off-line logon

Enforce ESSO session when desktop gets on-line. :

II

No

Enforce ESSO sessions :

II

No

Let the user close the ESSO session :

Yes

II

Allow quickly (and insecure) switch between users :


II

No

Hostname format :

Long (fully-qualified host name)


▼



For more information you can visit the following page:

<https://bookstack.soffid.com/books/federation/page/esso>

2. And finally, you can configure the Adaptive authentication rules

 **Image**

Adaptive authentication

Description :

Esso

Condition :

isEsso

Always ask for credentials :

No

First autl	Password	Kerberos	External	OTP	Email	SMS	PIN	Certifica	FIDO	Push
Password	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Kerberos		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTP				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Email					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SMS						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PIN							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Certificat								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIDO									<input type="checkbox"/>	<input type="checkbox"/>
Push										<input type="checkbox"/>

+

Close

Silent installation

In order to do a silent installation you can execute the installer from command line with the following parameters:

-q or /q: Quiet installation

-server [url] or /server [url]: to configure the synchronization server URL.

-force or /force: force the installation even if a restart is pending. Not recommended.

-nogina or /nogina: do not modify previos GINA. In this version, this parameter only applies in first installation.

-nopm : to avoid installing Password Manager

To assist in massive deployment scenarios, smart update swich can be set to prevent Soffid to reinstall componenents when the installer version matches the already installed one. This switch does not affect to new installations.

-smartupdate or /smartupdate: Smart update installation

Install EXE Package

EXE Installation is also available for enterprise customers.

Example:

```
C:\> MazingerInstaller-3.5.3-enterprise.exe -q -server https://idp.your-soffid.com:443 -force -nogina -smartupdate -nopm
```

Install MSI Package

MSI Installation is also available for enterprise customers.

To customize configuration parameters, the PARAM variable can be used.

Example:

```
C:\> msixexec /i soffidesso.msi PARAM="-q -server https://idp.your-soffid.com:443 -force -nogina -smartupdate -nopm"
```

“ **Installation problems can be reviewed in the installer log:
C:\Windows\SysWOW64\mazinger-install.log**

Registry configuration entries

The system stores all its settings in the registry branch **HKLM\SOFTWARE\Soffid\esso**.

The values used are as follows:

Entry	Default Value	Description
LogonEntry	Logon	After identifying the user, Soffid ESSO will look at the defined application tree for an application with this key, in order to execute it.
OfflineEntry	Offline	If synchronization servers are not reachable, an alternative script will be execute. This entry contains the key of the application entry point to execute in such a case.

LocalCardSupport	2	Indicate whether to ask for coordinates card at logon time or not. Four values are allowed. 1 - Coordinates card is required 2 - Coordinates card is required if and only if the user is the owner of one card. 3 - Coordinates card is required if the user is connecting from a not registered device. 4 - Never ask for coordinates card.
RemoteCardSupport	1	Indicate whether to ask for coordinates card when performing a remote logon. Four values are allowed. 1 - Coordinates card is required 2 - Coordinates card is required if and only if the user is the owner of one card. 3 - Coordinates card is required if the user is connecting from a not registered remote device. 4 - Never ask for coordinates card.
LocalOfflineAllowed	1	Specifies whether is it permitted to use the workstation when no Soffid synchronization servers are reachable. 1 - It's permitted. 0 - It's forbidden.
RemoteOfflineAllowed	0	Specifies whether it is permitted to open a terminal server connection against this host when no Soffid synchronization servers are reachable. 1 - It's permitted. 0 - It's forbidden.
CertificateFile	root.cer	Specifies the name of the file containing the Certificate Authority certificate used by the synchronization server (X509 DER format)
SSOServer	stsm1n3.caib.es, sticlin2.caib.es	Comma-separated list of synchronization server names
seycon.https.port	760	TCP/IP port used for connecting to SEYCON
debuglevel		Indicates the level of detail of the log: 0 = not recorded anything 1 = Basic Information 2 = Detailed Information

ginaLogFile		Name of the file which records the actions taken by GINA. Do not enable it unless needed.
ShiroHostName		Do not modify: It contains the name that the host had when it was registered at Soffid server.
startDisabled	false	When it contains the value “true”, Soffid ESSO will be started in disabled (or pause) state. Thus, it will not inject any user name or password on user applications.
MazingerVersion		It contains the version number of Soffid ESSO.
sayaka.domain		It contains the Active Directory name the workstations belongs to.
sayaka.pkcs11%	(reserved)	Each crypto card used by the user will have a corresponding entry indicating the name of the PKCS#11 DLL that can handle it. Do not modify.

Startup process

Windows XP GINA logon

Soffid GINA is an optional part of Soffid ESSO. It's features are:

- Allows users to log on using smart cards. The digital certificates can be auto enrolled as long as there is a method to know which user it belongs to.
- Allows authorized users to log on with Local Administrator privileges.

Windows Vista Credential Provider

Soffid Credential Provider is an optional part of Soffid ESSO. It's features are:

- Allows users to log on using smart cards. The digital certificates can be auto enrolled as long as there is a method to know which user it belongs to.
- Allows authorized users to run with Local Administrator privileges.

Soffid session startup

After being identified by Windows, the Soffid session startup takes place. Either sequentially or in parallel to desktop startup, the Soffid ESSO session manager (named KojiKabuto after the best ever hero) is the responsible for making the following steps.

Update settings

KojiKabuto will contact Soffid servers to update registry entries using the system configuration introduced at Soffid console (LogonEntry, OfflineEntry, SSOserver, seycon.https.port)

Kerberos handshake

If it's enabled by system administrator, Soffid Synchronization server and the user desktop will perform a Kerberos handshake. If the Credential token shown by user desktop is accepted by any managed Active Directory, Soffid will accept that credential as a prove of identity.

In order to do that handshake, Soffid will create a special user named SEYCON_xxxx for each one of the synchronization servers involved in the login process.

Manual login

If it's enabled by system administrator, or Kerberos handshake has failed, the user will have the chance to enter its user name and passwords. They will be verified by synchronization server against its internal user database.

Coordinates card

Once logged in, KojiKabuto requested permission to log. At this time, synchronization server could issue a coordinates card challenge. If the user fails to enter the right value for the coordinates requested, the Soffid session will be canceled.

Multiple sessions prevention

At this phase, Synchronization Server will check if the user has any other, not linked, session. If there is any other active session, and the user has not been granted the capability to open more than one (at Soffid console), the system will notice it to both, the new session and the ancient one.

Finally, the new session will take the decision to close the ancient one or to give up. If the user chooses to close the ancient one, the later will show a prompt, and its user will have 30 seconds to answer if he agrees to close that session. Usually the user has left the ancient session open and no user will be present at the ancient session. So, after 30 seconds the session will be closed and the new one will proceed.

SSO Rules activation

Once the session has been created, the SSO rules present at Soffid Console will be compiled and loaded into the Windows Session. Since this moment, every application launched will have its

credentials automatically fulfilled.

Startup script

The workstation connects to Synchronization Server to get the session logon script (LogonEntry registry entry with default value "Logon"), and the session offline script (registry entry "OfflineEntry" with default value "offline"), which will be executed at next logon whether no Synchronization server is reachable.

The offline script is stored at %ProgramFiles%\SoffidESSO\Cache\offline.mzn file.

Afterwards, the application menu is populated using the application entries configured at Soffid Console.

Desktop start

Unless the system configuration enables the user to use the desktop before opening the Soffid Session, the Desktop is started right now. Otherwise, the desktop would have been started at the initial steps.

System operation

Once the session is started, Soffid ESSO has two main tasks to do:

First. Timely keeps in touch with Synchronization server to confirm the validity of the soffid session.

Second. Performs injection of user names and password to applications, based on the SSO rules bound to each application entry point the user is authorized to execute.\

Enforcing browser addons

Modern browsers, apply certain restrictions to automatically enable browser addons without user intervention:

Google chrome

Google chrome extension is automatically enabled, but requires internet access, as Chrome is going to download the addon directly from Chrome store rather than using the locally installed version. This addon is compatible with Microsoft Edge.

Mozilla Firefox

There is a Mozilla firefox group policy to automatically enable any extension. Follow this link to get it: https://github.com/mozilla/policy-templates/releases/download/v1.11/policy_templates_v1.11.zip

You can alternatively, add the following registry key:

HKEY_LOCAL_MACHINE\Software\Policies\Mozilla\Firefox\Extensions\Locked\1 = "esso@soffid.com"

Internet Explorer (deprecated)

As well, there is a group policy for Internet Explorer. Please, follow this Microsoft link to get it: <https://docs.microsoft.com/es-es/internet-explorer/ie11-deploy-guide/enable-and-disable-add-ons-using-administrative-templates-and-group-policy>

The GUID of Soffid ESSO group policy is {53252A52-D536-11DF-866D-5B82D67A00D1}

ESSO Installation Linux

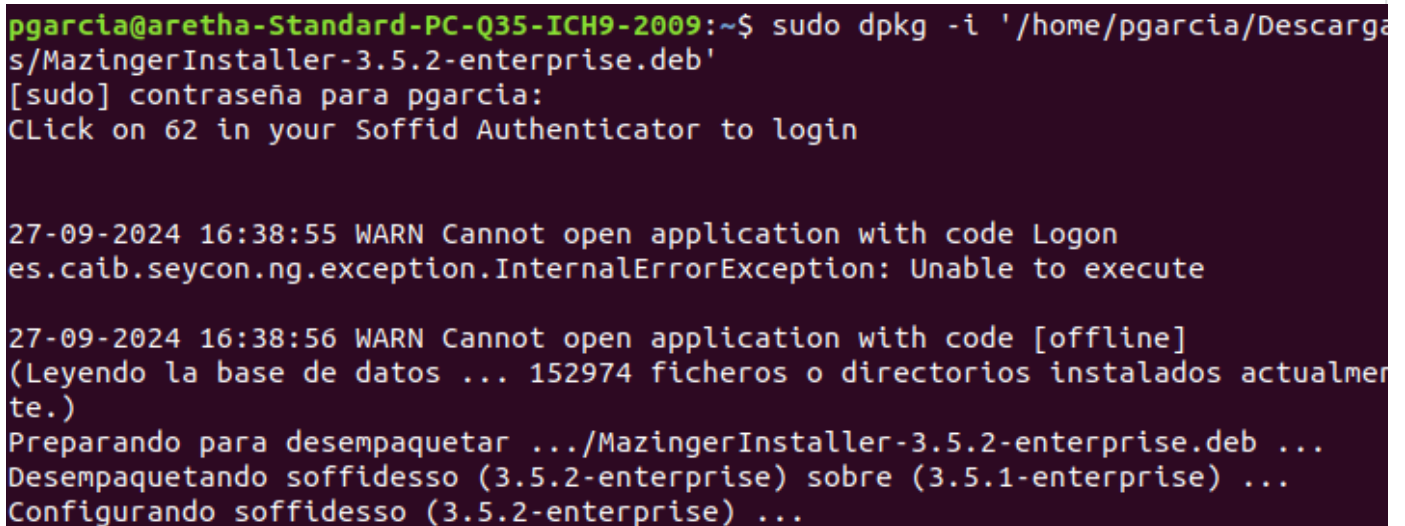
Introduction

Here you can find the details about the ESSO installation.

Installation

```
sudo dpkg -i '<your_path>/MazingerInstaller-3.5.2-enterprise.deb'
```

Image



```
pgarcia@aretha-Standard-PC-Q35-ICH9-2009:~$ sudo dpkg -i '/home/pgarcia/Descargas/MazingerInstaller-3.5.2-enterprise.deb'
[sudo] contraseña para pgarcia:
Click on 62 in your Soffid Authenticator to login

27-09-2024 16:38:55 WARN Cannot open application with code Logon
es.caib.seycon.ng.exception.InternalErrorException: Unable to execute

27-09-2024 16:38:56 WARN Cannot open application with code [offline]
(Leyendo la base de datos ... 152974 ficheros o directorios instalados actualmente.)
Preparando para desempaquetar .../MazingerInstaller-3.5.2-enterprise.deb ...
Desempaquetando soffidesso (3.5.2-enterprise) sobre (3.5.1-enterprise) ...
Configurando soffidesso (3.5.2-enterprise) ...
```

Interactive configuration

1. To configure, you need to run the following command with your Soffid Identity Provider URL.



```
sudo configure_esso https://<YOUR_IdP_URL>:443
```

Image

```
pgarcia@aretha-Standard-PC-Q35-ICH9-2009:~$ sudo configure_esso https://idp.soffid.com:443
Fetching configuration from https://idp.soffid.com:443
Configuration is completed
pgarcia@aretha-Standard-PC-Q35-ICH9-2009:~$
```

2. Then you need to configure the ESSO profile in your Identity Provider

Image

Class :	Esso
Enabled :	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Soffid main agent :	soffid  Soffid system
Seconds to send keep alive from desktop to server :	60
Timeout to close sessions :	180
Enable Windows credential provider :	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Display last logged-on user :	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Create local accounts when there is no domain account :	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Maximum number of consecutive days to allow an off-line login :	Maximum number of consecutive days to allow an off-line login
Enforce ESSO session when desktop gets on-line. :	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Enforce ESSO sessions :	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Let the user close the ESSO session :	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Allow quickly (and insecure) switch between users :	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hostname format :	Long (fully-qualified host name) 

 Close

For more information you can visit the following page:

<https://bookstack.soffid.com/books/federation/page/esso>

3. And finally, you can configure the Adaptive authentication rules

Image

Adaptive authentication

Description :

Esso

Condition :

isEsso

Always ask for credentials :

No

First autl	Password	Kerberos	External	OTP	Email	SMS	PIN	Certifica	FIDO	Push
Password	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Kerberos		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTP				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Email					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SMS						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PIN							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Certificat								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIDO									<input type="checkbox"/>	<input type="checkbox"/>
Push										<input type="checkbox"/>

+

Close

For more information, you can visit [the Linux Administrator access page](#) and [the Linux user acces page](#).

Enforcing browser addons

Modern browsers, apply certain restrictions to automatically enable browser addons without user intervention:

Google chrome

Google chrome extension is automatically enabled, but requires internet access, as Chrome is going to download the addon directly from Chrome store rather than using the locally installed version. This addon is compatible with Microsoft Edge.

Mozilla Firefox

There is a Mozilla firefox group policy to automatically enable any extension. Follow this link to get it: https://github.com/mozilla/policy-templates/releases/download/v1.11/policy_templates_v1.11.zip

You can alternatively, add the following registry key:

HKEY_LOCAL_MACHINE\Software\Policies\Mozilla\Firefox\Extensions\Locked\1 = "esso@soffid.com"

Internet Explorer (deprecated)

As well, there is a group policy for Internet Explorer. Please, follow this Microsoft link to get it:

<https://docs.microsoft.com/es-es/internet-explorer/ie11-deploy-guide/enable-and-disable-add-ons-using-administrative-templates-and-group-policy>

The GUID of Soffid ESSO group policy is {53252A52-D536-11DF-866D-5B82D67A00D1}

Startup process

Windows XP GINA logon

Soffid GINA is an optional part of Soffid ESSO. It's features are:

- Allows users to log on using smart cards. The digital certificates can be auto enrolled as long as there is a method to know which user it belongs to.
- Allows authorized users to log on with Local Administrator privileges.

Windows Vista Credential Provider

Soffid Credential Provider is an optional part of Soffid ESSO. It's features are:

- Allows users to log on using smart cards. The digital certificates can be auto enrolled as long as there is a method to know which user it belongs to.
- Allows authorized users to run with Local Administrator privileges.

Soffid session startup

After being identified by Windows, the Soffid session startup takes place. Either sequentially or in parallel to desktop startup, the Soffid ESSO session manager (named KojiKabuto after the best ever hero) is the responsible for making the following steps.

Update settings

KojiKabuto will contact Soffid servers to update registry entries using the system configuration introduced at Soffid console (LogonEntry, OfflineEntry, SSOServer, seycon.https.port)

Kerberos handshake

If it's enabled by system administrator, Soffid Synchronization server and the user desktop will perform a Kerberos handshake. If the Credential token shown by user desktop is accepted by any managed Active Directory, Soffid will accept that credential as a prove of identity.

In order to do that handshake, Soffid will create an special user named SEYCON_XXXX for each one of the synchronization servers involved in the login process.

Manual login

If it's enabled by system administrator, or Kerberos handshake has failed, the user will have the chance to enter its user name and passwords. They will be verified by synchronization server against its internal user database.

Coordinates card

Once logged in, KojiKabuto requested permission to log. At this time, synchronization server could issue a coordinates card challenge. If the user fails to enter the right value for the coordinates requested, the Soffid session will be canceled.

Multiple sessions prevention

At this phase, Synchronization Server will check if the user has any other, not linked, session. If there is any other active session, and the user has not been granted the capability to open more than one (at Soffid console), the system will notice it to both, the new session and the ancient one.

Finally, the new session will take the decision to close the ancient one or to give up. If the user chooses to close the ancient one, the later will show a prompt, and its user will have 30 seconds to answer if he agrees to close that session. Usually the user has left the ancient session open and no user will be present at the ancient session. So, after 30 seconds the session will be closed and the new one will proceed.

SSO Rules activation

Once the session has been created, the SSO rules present at Soffid Console will be compiled and loaded into the Windows Session. Since this moment, every application launched will have its credentials automatically fulfilled.

Startup script

The workstation connects to Synchronization Server to get the session logon script (LogonEntry registry entry with default value "Logon"), and the session offline script (registry entry "OfflineEntry" with default value "offline"), which will be executed at next logon whether no Synchronization server is reachable.

The offline script is stored at %ProgramFiles%\SoffidESSO\Cache\offline.mzn file.

Afterwards, the application menu is populated using the application entries configured at Soffid Console.

Desktop start

Unless the system configuration enables the user to use the desktop before opening the Soffid Session, the Desktop is started right now. Otherwise, the desktop would have been started at the initial steps.

System operation

Once the session is started, Soffid ESSO has two main tasks to do:

First. Timely keeps in touch with Synchronization server to confirm the validity of the soffid session.

Second. Performs injection of user names and password to applications, based on the SSO rules bound to each application entry point the user is authorized to execute.\

Enforcing browser addons

Modern browsers, apply certain restrictions to automatically enable browser addons without user intervention:

Google chrome

Google chrome extension is automatically enabled, but requires internet access, as Chrome is going to download the addon directly from Chrome store rather than using the locally installed version. This addon is compatible with Microsoft Edge.

Mozilla Firefox

There is a Mozilla firefox group policy to automatically enable any extension. Follow this link to get it: https://github.com/mozilla/policy-templates/releases/download/v1.11/policy_templates_v1.11.zip

You can alternatively, add the following registry key:

```
HKEY_LOCAL_MACHINE\Software\Policies\Mozilla\Firefox\Extensions\Locked\1 = "esso@soffid.com"
```

Internet Explorer (deprecated)

As well, there is a group policy for Internet Explorer. Please, follow this Microsoft link to get it: <https://docs.microsoft.com/es-es/internet-explorer/ie11-deploy-guide/enable-and-disable-add-ons-using-administrative-templates-and-group-policy>

The GUID of Soffid ESSO group policy is {53252A52-D536-11DF-866D-5B82D67A00D1}