EsiaVoyager mobile application

Installation



The application is available on </ignore>Google Play.

NoteEsiaVoyager cannot be used without connection parameters to an Esia Infinity or Esia Unity server. In addition, it is designed to work with a server version 3.2.5 or higher (some features will be buggy or inaccessible if the server is in a lower version).

Connection

14:08	₽ .∎
esia	
URL du serveur	
Lutilisateur	
Mot de passe	Θ
CONNEXION	

When you open the application for the first time, you must enter your Esia server information.

For the URL of your server, it is not necessary to add « https:// » The application does this automatically. Android security standards now only allow HTTPS connections.

The application will store the connection data in the phone's memory. The password is never saved; it is only used to create a token to connect to the server before being destroyed. It is this token that is stored in memory.

The connection information will no longer be requested, but will be automatic until the user chooses to disconnect.

SSL security

The application enables an SSL connection via a self-signed certificate (not recognised by the Android system). When the user attempts to connect to the server, a dialog box will appear displaying the certificate (which is automatically retrieved via the SSL connection) and offering the option of trusting (or not) the certificate.



This only applies to « Serveur ». It is not possible to modify the certificate « Client » certificate used for the connection. The certificate is stored by the application in secure storage and the security exception will no longer be displayed. The security exception is only valid for the EsiaVoyager application. Security exceptions can be removed by deleting **all** application data via the Android settings.

My certificate is valid but it generates a security exception

In some cases, a server whose SSL certificate is validated by a certification authority may nevertheless generate an exception in the EsiaVoyager application, even if no exception is generated from a web browser on the same phone. This happens when an intermediate certificate is missing from the certification chain if it is not supplied in full by the server. The web browser already knows some of the intermediate certificates used by the certification authorities and downloads the missing ones when browsing other websites. It may therefore already know the certificate used in your certification chain, even if it is not supplied by your server. The application itself does not have access to the certificates retrieved by the web browser, only to those provided by the OS.

Analysing the SSL certificate returned by the server

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To check the SSL certificate returned by the server, you can use the SSL-test tool from SSL Labs.

Enter the URL of your server in « Hostname », click on « Submit » and wait for the test to finish (it may take 2-3 minutes). You should then see a page like this:

Qualys. SSL L	abs		Home	Projects	Qualys Free Trial	Contact
You are here: <u>Home > Projects > SSL Serve</u>	Test > demo.esia-sa.com					
SSL Report: demo.e	sia-sa.com ()				
Assessed on: Tue, 03 Aug 2021 07:35:08 U	FC <u>Hide</u> <u>Clear cache</u>				<u>Scan A</u>	nother »
Summary						
Overall	Rating					
		Certificate				
		Protocol Support				
		Key Exchange				
		Cipher Strength				
		0 2	0 40	60	80 100	
Visit our doc	umentation page for more information	configuration guides, and book	s Known issi	ies are docume	nted here	
This	amentation page for more information, e	N key enclose and book				
	server supports weak Dime-Heilman (DH	i) key exchange parameters. Gi	rade capped t	DB. MORE INFO	<u></u>	
	This server's certificate chain is incomplete. Grade capped to B.					
	This server supports TLS 1.0 and TLS 1.1. Grade capped to B. MORE INFO »					
	This site works o	only in browsers with SNI supp	ort.			
DNS Certification Authority Authorization (CAA) Policy found for this domain. MORE INFO »						
Certificate #1: RSA	A 2048 bits (SHA256w	vithRSA)				

If your server does not provide the complete certificate chain, you will see the message <ignore> « This server's certificate chain is incomplete ></ignore» as in the image above.

You can get more information by clicking <ignore>« Certification Paths ></ignore» at the bottom of the <ignore>« Certificate #1: ... ></ignore><>

<ignore>

-א	Certificates provided	1 (1473 bytes)	
	Chain issues	Incomplete	
2	Certification Paths		
S S	Mozilla Apple Androi	d Java Windows	
	Path #1: Trusted		
	1 Sent by sen	*.esia-sa.com Fingerprint SHA256: 717ca5732212ff4cb58c088cafebbf2a8da9bd279ccc6f300885f86fb996a6ee Pin SHA256: THalxDFQmwZcQcecVltnhjSQ0qqC3rfl80MjBxuAJ5k= RSA 2048 bits (e 65537) / SHA256withRSA	
	2 Extra downle	AlphaSSL CA - SHA256 - G2 Fingerprint SHA256: ee793643199474ed60efdc8ccde4d37445921683593aa751bbf8ee491a391e97 Pin SHA256: amMeV6gb9QNx0217FJJ19Wa/t2B7KpCF/In2Js3UuSU= RSA 2048 bits (e 65537) / SHA256withRSA	
	3 In trust stor	GlobalSign Root CA Self-signed Fingerprint SHA256: ebd41040e4bb3ec742c9e381d31ef2a41a48b6685c96e7cef3c1df6cd4331c99 Pin SHA256: K87oWBWM9U2fyddvDfoxL+8lpNyoUB2ptGtn0fvG62Q= RSA 2048 bits (e 65537) / SHA1withRSA Weak or insecure signature, but no impact on root certificate	

</ignore>

This image clearly shows that in **1** the server certificate is sent by the server, the root certificate in **3** is known by the OS, but the intermediate certificate in **2** requires an external download. This is where things get tricky for the mobile application.

No more security exceptions

You can either validate the security exception in EsiaVoyager, but you will have to do this for each client that connects to the server. Or you can modify the server so that it returns the complete certification chain instead of just the server certificate.

Tip for downloading the certification chain via Firefox

Open your Esia server page in Firefox. Click on the padlock icon to the left of the URL and then on \ll Connexion sécurisée \gg



Then go to <ignore> «More information ></ignore»

</i>

<ignore></ignore>	
🧲 Esia Network Management × 🛛 –	-
\leftarrow \rightarrow C \textcircled{a}	○ A https://demo.esia-sa.com
	Sécurité de la connexion pour demo.esia-sa.com
	 Votre connexion à ce site est sécurisée. Vérifié par : GlobalSign nv-sa
	Plus d'informations

</ignore>

Click on <ignore>«View the certificate ></ignore»

<ignore>

Informations su	r la page - https://dem	no.esia-sa.com/ – 🕫 🙁
Général <u>M</u> édias <u>P</u> ermissions <u>Sécu</u>) Irité	
Identité du site web Site web : demo.esia-sa.com Propriétaire : Ce site web ne fournit pa	s d'informations sur so	on propriétaire.
Vérifiée par : GlobalSign nv-sa		<u>A</u> fficher le certificat
Expire le : 8 novembre 2021		3
Vie privée et historique Ai-je déjà visité ce site web auparavant ? Ce site web conserve-t-il des	Oui, 202 fois Oui, des cookies et 1,0 Mo de Effac	cer les cookies et les données de sites
Informations sur mon ordinateur ?	données de sites	
Ai-je un mot de passe enregistré pour ce site web ?	Non	Voir les mots de passe enregistrés
Détails techniques Connexion chiffrée (clés TLS_ECDHE_RSA La page actuellement affichée a été chiff Le chiffrement rend très difficile aux per transit entre ordinateurs. Il est donc très transit sur le réseau.	A_WITH_AES_256_GCM Trée avant d'avoir été e sonnes non autorisées improbable que quelq	1_SHA384, 256 bits, TLS 1.2) nvoyée sur Internet. la visualisation de la page durant son u'un puisse lire cette page durant son

nore>

Scroll down to the « Divers » then next to « Télécharger » choose « $\mathsf{PEM}\xspace$ (chain) »

inrormations sur la cle publique	
Algorithme	RSA
Taille de la clé	2048
Exposant	65537
Module	C1:5F:2D:4D:C2:E1:D7:7D:7C:49:E6:28:BB:B0:05:B7:D9:A8:FE:F9:22:F2:F3:C8
Divers	
Numéro de série	1F:24:C9:12:C6:27:1C:D1:83:F0:28:54
Algorithme de signature	SHA-256 with RSA Encryption
Version	3
Télécharger	PEM (cert) <u>PEM (chain)</u>

If you open the .pem file, it contains the complete certification chain.

esia-sa-com-ch	ain.pem – 🕫 🙁
*.esia-sa.com Identité: *.esia-sa.com Vérifié par: AlphaSSL CA - SHA256 - G2 Expire: 08/11/21	
Détails	
AlphaSSL CA - SHA256 - G2 Identité: AlphaSSL CA - SHA256 - G2 Vérifié par: GlobalSign Root CA Expire: 20/02/24 Détails	
GlobalSign Root CA Identité: GlobalSign Root CA Vérifié par: GlobalSign Root CA Expire: 28/01/28 Détails	
	Fermer Importer

All that remains is to replace the certificate on the server with the downloaded PEM file.

Current alerts



Once connected to the server, the application's main page displays the alerts table. This is the equivalent of the « Etat du réseau » page of the Esia web interface (click on the Alerts menu or on Node Status).

Refresh button

Pages displaying Esia data (Current Alerts, Groups, Nodes, etc.) refresh automatically every 5 minutes. This can be done manually using the refresh button. This button can be clicked one minute after the last refresh and displays the number of minutes since the last refresh.

The refresh button 2 minutes after the last page refresh:



Main menu

Open the left-hand menu by pressing the horizontal bars icon at the top left of the screen or by dragging it from the left of the screen.



To change user, click on the « Déconnexion » button in the left-hand menu to delete the user login

details and return to the login page.



To configure the notification settings, click on the « Paramètres » button in the left-hand menu.



Notification settings

Notifications concern the status of services or the status of the connection between the application and the esia server. It attempts to retrieve the information every 5 minutes and compares it with the previous result to detect any differences between the number of services on alert. Obviously, if the application cannot reach the server, it cannot retrieve the status of the services.

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14:24 ← Paramè	tres	•⊿
Paramètres d	les notificati	ons
État	Rétabli	Erreur
ALERTE	✓ Silencieuse	← Silencieuse
CRITIQUE	✓ Sonore	✓ Sonore
INCONNU	✓ Silencieuse	✓ Silencieuse
🚆 Serveur	✓ Aucune	✓ Aucune
D P	ARAMÈTRES SYS	TÉMES

For which events do you want to be notified?

- Restored: Notifies when the total number of errors decreases (Or server connection restored).
- Error: Notifies when the total number of errors increases (Or connection to server lost).

Notification type :

- **Sound:** Vibrate + Sound.
- Silent : Vibrate only.
- None : Ignore this type of event.

If several types of event are detected at the same time, the type of notification chosen will be the one with the highest priority. (1. Audible - 2. Silent)

For example, if you request an audible alert on Critical Error and a silent alert on Reset Unknown (all the rest on None). If during the first check the server contains 10 critical services and 20 unknown services. At the second check 5m later it has gone to 12 critical and 18 unknown (all other status changes will be ignored). You will receive an audible alert with the following message:



Widgets



Various widgets are available:

- **Node status :** the number of nodes per status (equivalent to what you see at the top right of the web interface)
- Service status : the number of services per status OK, Alert, Critical and Unknown
- **Service status with maintenance :** the number of services by status OK, Alert, Critical, Unknown and Maintenance

Phone settings for background tasks

Data from widgets and notifications is retrieved via a background task so that it can be retrieved even when the application is closed. Android places a whole series of restrictions on background tasks that impact their operation. It will attempt to run every 5 minutes, but it is Android that decides when it actually runs. In practice, it will run between 5 and 15 minutes, but often closer to 5 minutes.

Each manufacturer also sets a series of restrictions to limit battery use. **If you want the application to run as regularly as possible and not be completely stopped by the optimization**

systemyou need to create an exception for EsiaVoyager in the battery optimisation settings. The method differs depending on the phone manufacturer, so I'm sharing a link to the site dontkillmyapp which provides tutorials by manufacturer and keeps them up to date.

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Permanent link: https://wiki.esia-sa.com/en/advanced/esia_voyager

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