



SURICATO 2.10

Version: 1.0.0.1 10-2019

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1. Suricato 2.10 Installation Guide

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2. Welcome to Suricato

2.1. About the Suricato system

SURICATO is an access control and security system with advanced resources that ensure protection to any kind of business, size or segment, in internal and external areas, supervised in real time.

Ltda., Therefore, it is the user's responsibility to keep this information.



It works on different security fronts, such as monitoring alarms, breach and intrusion, as well as manual and automatic handling of such alarms.

2.2. What is a Meerkat (Suricato)?



Meerkat (Suricato)

The Meerkat (Suricato) is a mammal of the mongoose family. They live in groups and inhabit some of the most inhospitable areas of the planet.

Meerkats (Suricato) share the tasks of patrolling the nests and watching over the area they occupy.

One group is always on alert while the others sleep, forage for food or play.

A Meerkat (Suricato) always ensures protection so that the group feels safe in its tasks.

3. Architecture Configuration

3.1. Architecture Model A

In this architecture model the CONEX Server and the Application Server are the same. Use for a network with no more than 50 CODIN. If the system has more than 30 CODIN and uses *SmartCard* technology, we recommend the use of Architecture B.



3.2. Architecture Model B



In this architecture model, the database (SGBD), CONEX and Suricato application servers are separate, so the processing load is dedicated to its respective server. Use for a network with no more than 500 CODIN (1 CONEX server machine for every 500 CODIN).



3.3. Architecture Model C

In this architecture model, the database server and the application server are separate, so the processing load is balanced. Use for a network with no more than 500 CODIN (1 CONEX server machine for every 500 CODIN).

For contingency, the architecture provides for a second database server - SGBD.



3.4. Architecture Model D

In this architecture model, the database server and the application server are separate, so the processing loads are distributed.

Use for a network with no more than 500 CODIN (1 CONEX server machine for every 500 CODIN).

For contingency, this architecture provides for a second application server, and a second database server. Hence, in the event of problems with the application server and database server, the other contingency servers automatically enter operation.



Slave

3.5. System requirements

System Requirements - Software

Operating System - Server

- Microsoft Windows Server® 2008 R2
- Microsoft Windows Server® 2012 R2

Operating System - Station

- Microsoft Windows 7 (Professional SP1)
- Microsoft Windows 8 (Professional)
- Microsoft Windows 10 (Professional)

Application Server Support

- Apache 2.4.38.0 (Native)
- Microsoft IIS 7, 7.5, 8.0 and 8.5

PHP

• PHP 5.6.31

DBMS

- Microsoft SQL Server 2008, 2012 and 2014, 2016 (english standard)
- Oracle 10G, 11G and 12C (english standard)

DBMS Collate

- SQL Server use: Latin1_General_CI_AS
- Oracle use: .WE8ISO8859P1

TCP Firewall Port

- 1365 for Conex (Access)
- 1366 for ConexReP (Point)
- 443 for Web Server
- 1521 for Oracle customer
- 1433 for SQL Server Client

Other Software

- JRE 1.6 or higher
- Internet Explorer 7, 8 and 11

System Requirements - Hardware

DBMS Server - Recommended Configuration • Intel® Xeon® Quad Core Processor (X5687) • 16GB memory • Disk Space to Install: 2GB • CD-ROM Application Server - Recommended Configuration • Intel® Xeon® Quad Core Processor (X5687) • 8GB memory • Disk Space to Install: 4GB • CD-ROM

 Intel® Xeon® Quad Core Processor (X5687) 16GB Memory (500 CODINs) / 32GB Memory (1000 CODINs) Over 1000 CODINs, add a new server Disk Space to Install: 1GB CD-ROM
Workstation - Recommended Configuration
• Intel® Core ™ I5 2400 Processor (3.1GHZ, 6M) • 8GB memory
Graphic Monitoring Station - Recommended Configuration
 Intel® Core ™ I7 2600s Processor (2.8GHZ, 8M) 8GB memory

4. Installation & Setup

IMPORTANT

The installation process uses the internet to authenticate the installation and validate the license. If the server has no internet connection, the validation will need to be performed *OFF-LINE*.

4.1. Protection Device

Click on the suricato.exe file inside the installation package folder and wait until the wizard screen appears.



Initial Suricato Installation Wizard Screen

Suricato 2.10 is available in Portuguese (Brazil), Spanish (Spain) and English (United States). Select the installation language by clicking on the corresponding image.



Installation Language Selection

The installation wizard will display the following screen:



Welcome Screen

Click on the magnifier and a screen will be presented. Select the installation package path. In this case, we are selecting the installation package path so that de installer can validate the license file (serial.txt) inside the folder.

License Validation Path	
	3

License Validation Path

After selecting the installation folder directory, click on the **OK** button and we'll return to the installation screen.

Select Directory	×
Directory Name:	
C:\Users\edvaldo\Desktop\Release	
Directories:	Elles: (*.*)
C:\ Users edvaldo Desktop Release locale	Ajuda.exe Aplicaceo.exe autorun.inf borthofmm.dll Frota.exe Instalação & Configuração SURIC Instalação & Configuração SURIC
OK	Drives:

Directory Selection

Click on the Start button and the main screen will be displayed.



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4.2. Installation Path

Installation Location is the directory where the system files will be stored. The system will suggest the default location: <u>Program Files</u>.

The systems allows for changing the installation directory. To change this, click on the Installation Path button and select the desired path.



Installation Path

During the first installation of Suricato, Path information will be stored on the computer. When, if necessary, the installation is run again, the installation path where the system was installed the first time will be stored and shown automatically.

4.3. Database

Database is the option for executing SQL scripts to create the system's basic structure. Some options will be filled in according to the Application screen. The type option needs to be filled in: SQL SERVER – SCRIPT => Create files corresponding to the SQL script for SQL SERVER.



ORACLE – SCRIPT => Create files corresponding to the SQL script for ORACLE.

The files will be created in the installation directory and the execution order defined in the Readme.txt file needs to be followed.

If the database is *ORACLE*, three required fields must be informed: TS Data / TS Index / TS Temp. A valid server path must be informed so that the necessary files are stored in the right folder. These files are related to the *ORACLE TableSpace*.

To create the scripts click on the Execute button.



Database

If no problem is encountered during execution, the following message will be displayed. SURICATO CREATED!

4.4. Application

Application is the option for executing a copy of files. It is mandatory to fill in the database connection parameters.

If installation on SQL SERVER is selected

A question will appear asking if the SQL server is the 2008 version.

To start copying files, click on the Application button, select the correct database and click the Execute button.



	2

You can track installation progress. When the file copying finishes, the "INSTALLED APPLICATION FILES" message will be displayed.

4.5. Web server

Web Server is the option for configuring application server initialization. The *web server* uses the TCP/IP 443 port for operation. The system validates the use of the TCP/IP 443 port. If it is in use, the following message will be displayed: PORT 443 IN USE.

If necessary, the user is allowed to change the TCP/IP port and the system automatically validates use. By default the Windows Telemática Suricato service will be installed and configured. But the user has options:

Install, Start, Stop or Uninstall the service.

Generate the HTTPD.CONF or PHP.INI files, responsible for configuration of the application server. To start, click the Web Server button, define the database type, configure database connection parameters, and click on the Execute button.

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Web Server

4.6. Production Environment

Ambiente de Produção is the option for configuring the system's initialization. It is mandatory to define the database Type and the TCP/IP address or name of the database server. The configuration options are:

- Generate the PROD.INI file, responsible for the connection to the database of *web* applications.
- Generate the CGI.HTML file, responsible for IP redirecting.
- Install the Windows Telemática Pending Issue Manager service.
- Install the Windows Telemática Service Manager service.
- Configure the CODIN versus Manager connection (CONEX or ARLON), and when CONEX is selected, install the Telemática CODIN Connection service.

To start, click the Environment button, configure parameters for connection to the database, and click the Execute button.



Production Environment

4.7. Accessing Suricato

Complete the installation process by clicking on the Exit button.



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Exit Installation

The system will add a Suricato icon to the Desktop. If you need to access the system from another machine, use the URL: https://IP_SURICATO_SERVER/telematica/suricato.exe



Access to the Suricato System

5. Installing on IIS 7

5.1. Configure Digital Certificate

In the Connections column, select the ESK (ESK\Administrator) item and then click on Server Certificates.





ESK Home

In the Actions column, click on Create Certificate Request.

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Server Certificates Screen

Fill in the data to generate the certificate and then click on Next.

Specify the required info official names and they c	mation for the certificate. State/provice and City, annot contain abbreviations.	locality must be specified as
Common name:	suricato	
Organization:	tsi	
Organizational <u>u</u> nit:	tsi	
City/locality	SP	
State/province:	SP	
Country/region:	BR	-

Certificate Screen

In Cryptographic service provider: select (Microsoft RSA SChannel Cryptographic Provider) In Bit length: select (1024) and then click on Next.

Request Cert	ificate					? ×
	Cryptogra	aphic Servi	ce Provider Prope	erties		
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Microsoft R	SA SChannel	Cryptographic	: Provider	-		
Bit length:						
1024	1	-				
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			Previous	Next	Elnish	Cancel

Certificate Encryption Screen

Enter the file creation location name and click on Finish.

Request Certificate			? ×
File Name			
Specify the file name for the certificate r authority for signing.	equest. This information	on can be sent to a certif	ication
Specify a file name for the certificate rec	quest:		
c:\suricato.txt			
	Previous	Ein Ein	ish Cancel

Certificate Screen

In the **ISS** folder located at "C:\Program Files\Telematica\Suricato\Telematica\Suricato\iis" Click on the **Certificado.exe** file and browse to the same file generated in figure 30.

relematica - Gerador de Certificado 115	×
Requisição	
c:\suricatotxt	🖉 🖌 Gerar

IIS Certificate Generator

The IIS Certificate Generator will display the message below.

01

Confirmation of Generated Certificate

In the Actions column, click on Complete Certificate Request.

Click the (...) button and locate the suricato.cer file. Enter the Certificate name and click the (OK) button.

Specify Certificate Authority Response	
Specify certificate rational response	
Complete a previously created certificate request by retrieving the authority's response.	e file that contains the certificate
File name containing the certification authority's response: C:\suricato.cer	[
Friendly name:	
Suricato	
	OK Cancel

Complete Certificate Request Screen

The Suricato certificate will be generated on the Server Certificates screen.

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Server Certificates Screen

5.2. Adding Binding Port

In the **Connections** column, click on **Default Web Site.** After viewing the **Default Web Site Home** page, click on the **Bindings** link in the **Actions** column.

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Default Web Site Screen

Click the (Add...) button

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Site Bindings Screen

Select Type: (https), IP address: (Server IP), Port: (443), SSL certificate: (Suricato).

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tps	▼ 192.168.0.14	• 443
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SL certific	aher	
DE COTONIS		-
and an address of the		

Add Site Binding Screen

After filling in the content of fields, click the (OK) button.

5.3. Create Virtual Directory: Scriptcase

On the main screen, Connections column, select the Default Web Site link.

Server Manager											86							
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Default Web Site Home Screen

In the **Connections** column, right-click on the **Default Web Site** link and select the **Add Virtual Directory** option.

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Virtual Directories Screen

In the **Alias** field, enter the name "scriptcase"; in the **Physical path** field, enter the path to the ScriptCase folder "C:\Program Files\Telematica\Suricato\Telematica\Suricato\scriptcase".

Site name: Default Web Site Path: /	
Alas:	
scriptcase	
Example: images	
Physical path:	
amatica\Suricato20115\Telematica\Suricato\scriptcase	
Pass-through authentication	
Connect as Test Settings	
OK	Cancel

Add Virtual Directory Screen

Click the (OK) button.

The ScriptCase folder directory will be created on the Virtual Directories screen.



Virtual Directories Screen

In the Scriptcase folder located:

"C:\Program Files\Telematica\Suricato\Telematica\Suricato\scriptcase"

Right-click on the **Scriptcase** folder, select the **Properties** -> **Security** option and apply **full control** privilege to access the folder.



Group or user na	mes:		
St Users (ESK	VUsers)		-
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To change perm	issions, click Edit.		Edit
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Full control		1	*
Modify		~	
Read & execu	ite	1	
List folder con	itents	~	
Read		1	
Write		1	-
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Scriptcase Properties Screen

On the main **Internet Information Services** screen, select the **ESK (ESK\Administrator)** link. In the **Actions** column, click on the **Restart** link.



Internet Information Services Screen

In the **StriptCase** folder, create the "teste.html" file. "C:\Program Files\Telematica\Suricato\Telematica\Suricato\scriptcase" Within the file, type: <html> <p1>Suricato</p1> </html> Click the teste.html file to test the page.



#Migst//192.166.0.14/striptcase/leste.html - Windows Internet Explorer	
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teste.html screen

5.4. Enable Php mode via ISAPI

In the **Connections** column, select the **Default Web Site** link. In the **Default Web Site Home** column, click on **Handler Mappings.**



Default Web Site Home Screen

In the Actions column, click on the Add Script Map link.

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Handler Mappings Screen

In the **Request path** field, type *.php,

In the **Executable** field: (Php folder and "php5isapi.dll" file path) "C:\Program Files\Telematica\Suricato\Telematica\Suricato\apache\php-5.2.11" In the **Name** field, type PHP, and then click the (OK) button.

Add Script Map	? ×
Request gath:	
*.php	
Example: *.bas, wsvc.axd	
Executable:	
ricato2011S\Telematica\Suricato\apache\php-5	.2.11\php5isapi.dl
Name:	_
Request Restrictions	
	OK Cancel



Click the (Yes) button.





Add Script Map Screen

In the **Connections** column, click the **ESK (ESK\Administrator)** link. In the **ESK Home** column, click the (ISAPI and CGI Restrictions) button.



ESK Home Screen

In the Actions column, click the Add link.



ISAPI or CGI Restrictions Screen

In the **ISAPI or CGI path** field: (enter path and name of "php5isapi.dll" file) "C:\Program Files\Telematica\Suricato\Telematica\Suricato\apache\php-5.2.11" In the **Description** field, type "PHP".

Select the Allow extension path to execute option and click the (OK) button.

lit ISAPI or CGI Restric	tion	?
ISAPI or CGI path:		
o20IIS\Telematica\Suricat	o\apache\php-5.2.11\p	hp5isapi.dll
Description:		
PHP		
Allow extension path t	o execute	1
	OK	Cancel

Edit ISAPI or CGI Restriction Screen

The phpIsapi dll will be created in the ISAPI and CGI Restrictions column.



ISAPI or CGI Restrictions Screen

Access the directory and execute the "php.exe" file: "C:\Program Files\Telematica\Suricato\Telematica\Suricato\apache\php-5.2.11"



Prompt php.exe screen

In the Windows environment variable, if there is the **PHPRC** variable, edit and change the variable path to Suricato's "php-5.2.11" folder after restarting the IIS.

"C:\Program Files\Telematica\Suricato\Telematica\Suricato\apache\php-5.2.11"



	Provide State Stat
ariable name:	PHPRC
/ariable <u>v</u> alue:	IS\Telematica\Suricato\apache\php-5.2.

Edit System Variable Screen

Access the address:

"https://IP do Servidor do IIS/scriptcase/info.php"

If the variable location for the php.ini located in the "**Loaded Configuration File** " column is not changed to the Suricato folder directory, restart the server.

"C:\Program Files\Telematica\Suricato20IIS\Telematica\Suricato\apache\php-5.2.11"

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info.php page screen

5.5. Configure Suricato.dll via ISAPI Module

In the **Connections** column, select the **Default Web Site** link. In the **Default Web Site Home** column, click the (Handler Mappings) button.

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Ltda., Therefore, it is the user's responsibility to keep this information.



Default Web Site Home Screen

In the Actions column, click on the Add Script Map link.

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Handler Mappings Screen



In the **Request path**: field, type suricato.dll In the **Executable** field, inform the suricato.dll path. "C:\Program Files\Telematica\Suricato\Telematica\Suricato\apache\cgi-bin" In the **Name** field, type Suricato. Click the (Request Restrictions) button.

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xample: *.bas, wsvc.axd	
xecutable:	
a\Suricato20115\Telematica\Suricato\apache	(cgi-bin/suricato.dll
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Add Script Map Screen

Go to the (Access) tab, select the Execute option and click the (OK) button.

equest Restrictions	? ×
Mapping Verbs Access	
Specify the access required by the handler:	
C None	
C Read	
C Write	
C Script	
Execute	
<u></u>	
OK	Cancel

Request Restrictions Screen

Click the (Yes) button.



Add Script Map Screen



In the **Connections** column, select the **ESK (ESK\Administrator)** link. In the **ESK Home** column, click the (ISAPI and CGI Restrictions) button.



ESK Home Screen

In the Actions column, click the Add link.



ISAPI or CGI Restrictions Screen

In the **ISAPI or CGI path** field: (enter path and name of "suricato.dll" file) "C:\Program Files\Telematica\Suricato\Telematica\Suricato\apache\cgi-bin"



Edit ISAPI or CGI Restriction Screen

In the **Connections** column, right-click on the **Default Web Site** link and select the **Add Virtual Directory** option.



Default Web Site Home Screen

In the Alias field, type Suricato.

In the **Physical path** field: (enter the path to the **CGI** folder)

"C:\Program Files\Telematica\Suricato20IIS\Telematica\Suricato\apache\cgi-bin".



Add Virtual Directory Screen

The Virtual Directories column will have the CGI folder directory.

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Virtual Directories Screen

Add permission for folder CGI:

"C:\Program Files\Telematica\Suricato20IIS\Telematica\Suricato\apache\cgi-bin"

Group of user names:		
Administrators (ESK/Administrators	(ators)	
SE Users (ESK VUsers)		_
ALIIS JUSHS ESKVIS JUSHS		
•		_ 2
To change permissions, click Edit.	1	EdR_
Permissions for IIS_IUSRS	Allow	Deny
Full control	1	
Modify	1	
Read & execute	1	
List folder contents	1	
Read	1	
Write	1	-
For special permissions or advance click Advanced	ed settings,	Adyanced

CGI-Bin Properties Screen

In the **Connections** column, select the **ESK (ESK\Administrator)** link. In the **Actions** column, click on the **Restart** link.



ESK Home Screen

Access the Suricato link:

"https://lp do Servidor IIS/telematica/suricato.dll"

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Suricato Access Screen