# lenCode Labs

# CCURE9000-ECL-UAE-EID

# Installation Manual

For the United Arab Emirates Electronic ID Reader Plugin



Revision AO - February 2019



#### CCURE9000-ECL-UAE-EID

Installation Manual for the United Arab Emirates Electronic ID Reader Plugin

Revision: AO

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#### Introduction

The UAE EID driver provides a direct integration of an UAE EID compatible reader into the C•CURE9000 Administration Workstation. It can be dynamically configured to link specific EID data into C•CURE9000 Personnel Fields.

The use of an EID reader eliminates typographic errors and duplicate records in the C•CURE9000 database as well as speeding up the enrolment process.

#### Conventions

The following pictograms are used in this manual to indicate important information



### **Known limitations**

• The plugin only supports **contacted** credentials. No contactless support.

### UAE EID support

The plugin is based on the UAE EIDA Toolkit provided by the United Arab Emirates Government. Support for the **EID plugin** itself is provided by Encode Labs.

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# Chapter 1

# Installation and Configuration

### Overview

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### Installation of the Plugin

To be able to use the plugin on **client workstations**, the plugin **license** must be installed on the C•CURE9000 server.

### Installation of the plugin

Open the installation EXE



setup.exe UAE EID Plugin for CCURE9... Encode Labs

#### Click "Next"





- 1. Accept the license if you agree with the terms
- 2. Click "Next"

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đ	🕏 Encode Labs UAE EID Plugin - InstallShield Wizard	$\times$
	License Agreement Please read the following license agreement carefully.	Ð
	ENCODE LARS United Areh Emirates EID Bluein	<u> </u>
	ENCODE LABS UNited Arab Emirates EID Plugin	$\hat{}$
	COPYRIGHT © 2019 ENCODE LABS - ALL RIGHTS RESERVED.	
	Installation, copying and use of the plugin and its libraries are subject to the following license agreement. Please read this agreement carefully before installing, copying or using the application.	
	By using the application, you agree to be bound by the terms of this license. If	
	you do not agree with the terms of this license, do not install, copy or use the	
	application.	~
ſ	I accept the terms in the license agreement     Print	
	○ I do not accept the terms in the license agreement	
Tı	nstallShield	
	< Back Next > Cancel	

Select the installation path of your C•CURE9000 installation. By default, this is located in the Program Files (x86) folder. The correct installation folder should contain "CrossFire" and "CCURE Client" folders:

- 1. If you installed the software to another location, click the "Browse" button and select that location
- 2. Click "Next"

뤻 Encode L	abs UAE EID Plugin - InstallShield Wizard	$\times$
Destina Click Ne	<b>tion Folder</b> xt to install to this folder, or dick Change to install to a different folder.	Đ
	Install Encode Labs UAE EID Plugin to: C:\Program Files (x86)\Tyco\ 1	Change
InstallShield -	< Back Next >	Cancel

- 1. Select the applicable option
- 2. Click "Next"

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ı,	Encode Labs U	AE EID Plugin - InstallShield Wizard	$\times$
	Setup Type Choose the setu	up type that best suits your needs.	G
	Please select a	setup type.	
	🔿 License an	nd Client Components	
	1	Will install the client components and Plugin License Option. Only select this option when installing on the CCURE Server.	
	O Client Con	nponents Only	
		This will install the client components only on CCURE9000 workstations.	
Ins	tallShield ———	2	
		< Back Next > Ca	ncel

In case of a server installation, you will be presented with the SQL Login Dialog. Otherwise the installation will continue after the SQL dialog.

- 1. Select the database server from the drop-down box
- 2. Select and enter the appropriate details
- 3. Click "Next"

🔀 Encode Labs UAE EID Plugin - InstallShield Wizard	×
Database Server Select database server and authentication method	Đ
Database server that you are installing to:	Browse
Connect using:	_
Windows authentication credentials of current user	
◯ Server authentication using the Login ID and password below	
Login ID: sa	-
Password:	
Name of database catalog:	
ACVSCore	Browse
InstallShield	
< Back Next >	Cancel

## 6

#### Click "Install"



#### Select "Finish"



### Linking the Personnel Fields

The plugin should be installed under your C•CURE Client directory of the C•CURE9000 installation path. The configuration file has the name:

EncodeLabs.EIDA.NextGenConnectedProgram.CredentialValidation.Client.dll.config

Open this file with a Text editor such as Notepad. The file structure is as follows:

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <appSettings>
    <add key="FirstName" value="FirstName"/>
    <add key="LastName" value="LastName"/>
    <add key="MiddleName" value="MiddleName"/>
    <add key="IssueDate" value="Text1"/>
    <add key="ExpiryDate" value="Text2"/>
    <add key="ResidencyNumber" value="Text3"/>
    <add key="ResidencyExpiry" value="Text4"/>
    <add key="Nationality" value="Text5"/>
    <add key="Country" value="Text6"/>
    <add key="CountryDescription" value="Text7"/>
    <add key="Sex" value="Text8"/>
    <add key="CompanyName" value="Text9"/>
    <add key="CompanyNumber" value="Text10"/>
    <add key="IdNumber" value="Text12"/>
    <add key="Photo" value="true"/>
  </appSettings>
  <startup>
    <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.6.1"/>
  </startup>
</configuration>
```

Under the node appSettings, you can set or change the fields to which to link the EID data.

The "key" is the name of the EID data, while the "value" is the name of the Personnel field to which the data must be linked.

For instance, the above example links the EID field "FirstName" to the C•CURE Personnel Field "FirstName".



The field to link must be the standard field name, such as "Text12". Even if the field was relabelled to a new value such as "Residency Number", the link name remains "Text12".



All fields can be linked to Text fields. Only pure numbers can be linked to int fields, and only IssueDate and ExpiryDate can be linked to Date fields (Date1 -> Date4)

#### The ID Number

Each resident has a unique ID Number assigned. This number is used in the plugin to ensure the uniqueness of a record. In order for the C•CURE to enforce uniqueness, you must link the IdNumber field to a personnel field that has the "Unique" tag such as Text12.

#### Reading the photo

To read and save the photo from the EIDA Card, set the "Photo" key to "true".

```
<add key="Photo" value="true"/>
```

#### Logging

The plugin uses NLog as its logging framework. You can configure your own logging options by changing the configuration file:

NLog.config

By default, the application will generate logs in a folder called "EID\_Logs", from the location where it is installed.



The File Name of the log is EncodeLabs.EIDA.log

Each day a new log file will be generated. The system will store a maximum of 31 days.

- 1. Current Log File
- 2. Archived Logfile, shows the DATE (YYYYMMDD)
- 3. The Sequence number in case the log that day becomes larger than the configured size



This is the default configuration section for logging:

```
<target xsi:type="File"

name="allfile"

fileName=".\EIDA_Logs\EncodeLabs.EIDA.log"

archiveAboveSize="10485760"

maxArchiveFiles="31"

archiveEvery="Day"

archiveNumbering="DateAndSequence"
```

layout="\${longdate}|\${logger}|\${uppercase:\${level}}|\${threadId}|\${message}
\${exception}" />

The log level can be configured under the Rules secrtion. The default level is at Debug.

```
<logger name="*" minlevel="Debug" writeTo="allfile" />
```

For more information on the configuration of the logging options, refer to the NLog manual.

#### Duplicating the configuration

The configuration file is stored locally on the Client Workstation.

In order to have the same configuration on multiple workstations, copy the configuration file to a central location or USB stick. Alternatively, reconfigure the file on each individual workstation.

When you have installed the plugin on other workstations and you have copied a customized configuration file, just copy it over the newly installed file on the target workstation.



If you do not have the same configuration across your client workstations, the plugin will not work as intended as values might be written to different fields.



# Chapter 3

# Using the plugin

### Overview

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## Adding the EIDA controls to the Personnel Editor

Open the Administration Workstation and navigate to:

- 1. Select Configuration
- 2. Select "User-Defined Fields"
- 3. Click "New"

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Config	uration			~
🔁 New 🕚	User-define	ed Fields	~	<b>→</b> -
3	S	earch	2	
Name: Template:		~~~		
👉 Gener	ral Purpose	Interface	2	
📑 Config	juration	1		
궁 Card I	Formats and	Keys		

- 1. Enter a name for the control
- 2. Enter the desired Customer Label that will be shown in the editor
- 3. Set "Field Type" to "Custom"
- 4. Make sure "Personnel" is selected
- 5. Select "EidaPersonnelControl"
- 6. Click "Save and Close"

🔁 User-defined Fields - EIDA	-		×
🔜 Save and Close 🚦 Save and New 📜 Save			
6 Name: EIDA Description: 1		~ ~	]
Field Information			
Language information Customer Label: EIDA 2			
Language: English V			
Field Type Custom V 3 Database Field Name:			
Object Type Personnel		~	1

Now navigate to Personnel -> Personnel Views and select the Personnel View you wish to add the controls to.



Person	nel		**
🍇 New 🕞	Personnel	Views	] ~ 🛃 -
	Sea	arch 2	3
Quick		6	
Video	~~~	~~~	
2 Perso	nnel	(1)	
1536			

- 1. Enter a name for the view
- 2. Under the tab "User-defined Fields", the control should have been added by default.
- 3. You can select the control and press Delete
- 4. The control will then appear under the view "Hidden Fields"
- 5.

💐 Personnel Views - Personnel View with EIDA Control	-	□ ×
💂 Save and Close 👔 Create Copy		
Description:		^
		~
Enabled		
Layout Designer Labels Options	and Controls	ņ
Language: English • = Restore Labels @Restore Layout   Reset Tabbing Order	Tools GroupBox TabControl	
	Hidden Fields	

- 1. Under "Hidden Fields", navigate to "User Defined Fields" and drag the control in the desired location.
- 2. You can freely select the location, on the General or other tabs.
- 3. Make sure the view is "Enabled"
- 4. Click "Save and Close"

8 Personnel Views - Personnel View with EIDA Control	_	
🛃 Save and Close 👔 Create Copy		
4 Name: Personnel View with EIDA Control		
Description:		$\hat{}$
Layout Designer       Labels       Options       Image: Control of the second	Fields and Controls	4
Eirst Name: Object ID:	User-defined Fields	
Middle Name: Personnel Type:		
Last Name: Operator Name:		
On Water 2 EIDA Data Assist Assist Partition:		
Options ID Scan		

## Reading the EIDA data

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Create a new personnel record:

Make sure the correct view is selected from the "Current View" drop-down box.

2 Personnel -		□ ×
🔚 Save and Close 🔚 Save and New 🔚 Save 🛛 Current View	Personnel View with EIDA Control	
General Credentials Clearances Customer Customer Extended	Default Personnel Edit View Personnel View with EIDA Control le ds Documents Personnel Triggers Web and Mobil	e
	Personnel View with Portrait in Header	
First Name:	Object ID: 0	
Middle Name:	Personnel Type: None V	-
Last Name:	Operator Name:	
On Watchlist EIDA Data Ast	ist 🌲	
Options	D Scan	

Click "EIDA Data" to read the data fields and fill them in on the Personnel form.

First Name:	Hamad			
Middle Name:	Salem			
Last Name:	Naser			
/atchlist	EIDA Data	Assist 🌲		



Whenever you click the EIDA Data button to read a card, the plugin will search all connected readers for an inserted EID card, even if you have multiple readers connected to the system.

es Customer Extended Images Badging Custom Clearance Previous Doors User-defined Fields Documents

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Issue Date	2017-03-27		
Expiry Date	2020-03-17		
Residency Number	20120701217227		
Residency Expiry	2019-02-14		
Nationality	UAE		
Country	UAE		
Country Description	United Arab Emirates		
Sex	Male		
Company Number	Encode Labs B.V.B.A. Tecom Authority		
Company Name			
Text11:			
ID Number	784274671463378		

If you chose to import the photo, this will automatically be added to the Images tab.

🙎 Perso	nnel – Naser, Hamad Salem						- C	×
📙 Save ar	nd Close 🔚 Save and New	Save   Current View: Perso	nnel View with EIDA Control		•			
General	Credentials Clearances Custo	omer Customer Extended Image	8 Badging Custom Clearance	Previous Doors U	Iser-defined Fields Documents	Personnel Triggers	Web and Mobile	
Captu	ire / View Portraits							
*=/	Add 🛛 📇 Remove							
	Portrait Name	Capture	Capture Date	Primary Image	Selected Portrait			
•	Portrait_(5002-0)	Capture	2019-02-16 21:13:23					
						<b>P</b>		
						P.		
	_							
Captu	ire Signature		_					
			Signature					
	Capture S	lignature						
	Remove S	lignature						
				Signature Captu	ure Date:			

Once the record is saved the capture date will be filled in.

Click the portrait to see the preview in the "Selected Portrait" control.

# Appendix

# Appendix A

## Overview

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CHECKING THE EIDA READER		.9
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### Checking the EIDA Reader

As the plugin makes use of EIDA Middleware, you need to ensure this middleware works correctly on the target workstation.

A Test Client is included in the software package:



(Ei

Ccure.Eid.Uae.Test.exe Ccure.Eid.Uae.Test 1000

Running the test app will look for PCSC compatible readers containing an UAE EID Card. The output will look like this:



Make sure you have a card inside the reader, else it will not be found and the application will stop.

No UAE ID Card found, exiting application.

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