

ZenLPR

Installation Guide

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1. Introduction

1.1. Overview

This document is provided to serve as a guide for the full installation of ZenLPR[™] and all its related components.

1.2. Purpose

The main purpose of this document is to reduce any possible manipulation mistakes, errors and misinterpretations during the software installation phase by the integration team.

1.3. Scope

This document covers the installation of ZenLPR[™], ARH Carmen FreeFlow[™], and Configuring IIS.

1.4. Out of Scope

This document does not cover:

- Any 'third party' software mentioned in the pre-requisite
- Milestone[™] Installation & Configuration
- Microsoft SQL Server[™] Installation & Configuration
- Server Configuration
- Network communication
- Acceptance procedures
- Validation procedure
- Technical environment

Should any further information about the above topics be needed, please refer to the 'reference document' mentioned below (Section 3.2)

1.5. Pre-Requisites

- Nvidia drivers (version 396 or higher)
- Cuda drivers (version 9.1)
- .Net Framework 4.7
- Milestone Environment





1.6. General Principles

All deliveries must be compliant with the '*Project's System Requirements' provided by the technical team* (Hardware resources, Operating system, System architecture ...). *Whilst* at the same time respecting the operating methods and conditions.

Contractors must be able to distinguish between a 'full installation' and a 'patch delivery installation'. It is worth noting that an update installation is different than a full system deployment in terms of procedures, any wrongful installation falls under the contractor's reliability. All deliveries must contain a 'Release Note Document' & and 'Installation Procedure'. Please refer to the latest version of the above-mentioned document for complete detailed information, where each software release has its own "Release Note Document" with the respective updated "Installation Document".



2. Installation Manual

2.1. Pre-requisites

- Operating System: Windows Server 2012 or above, Windows 8 or above
- Database: Microsoft SQL Server 2012 or above (server edition is dependent on the size of the project, the number of simultaneous connections, and the data retention period effecting the database size)
- For more information, please check SQL SERVER website (<u>https://www.microsoft.com/en-us/sql-server/sql-server-2017-editions</u>)
- System Requirements: ZenLPR[™] needs a minimum of 500MB RAM per stream
- CPU and Storage: dependent of the project size
- Milestone version: Milestone 2016 or above (any milestone version prior to 2016 is not supported by ZenLPR[™])

2.2. Pre-Installation Tasks

Before starting the installation procedure

- A database user must be created as SYSADMIN
- SQL Authentication must be enabled

It is worth noting that if SQL Server is on a remote server, TCP/IP protocol should be enabled

https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-aserver-to-listen-on-a-specific-tcp-port)

Sql Server (Configuration Mana	iger 📃 🗕
File Action View Help		
SQL Server Configuration Manager (Local) SQL Server Services SQL Server Network Configuration (32bit	Protocol Name Shared Memory Named Pipes	Status Enabled Disabled
 SQL Native Client 10.0 Configuration (32) SQL Server Network Configuration 	TCP/IP	Enabled Disabled

Before moving to the next step, make sure the machine has connectivity to the Milestone Management server and has connectivity to the SQL Server (in case it was on a remote server).

In case of a distributed LPR architecture, you will have many processing servers for LPR. ARH Carmen FreeFlow[™] engine should be installed on all LPR Recognition servers. Installation of Carmen FreeFlow[™] is found on section (Section 3.3) of this document Carmen FreeFlow[™] Installation.



3. Carmen FreeFlow Installation

Navigate to the Carmen FreeFlow engine folder supplied to you with the ZenLPR Installation files, and go to setup.

퉬 ms	10/23/2017 6:59 PM	File folder	
퉬 setup.x64	10/23/2017 6:59 PM	File folder	
퉬 setup.x86	10/23/2017 6:59 PM	File folder	
퉬 setupdata	6/14/2017 10:39 AM	File folder	
🔿 Arh	1/9/2015 7:23 AM	ICO File	15 KB
autorun	4/21/2017 12:29 PM	Setup Information	1 KB
📄 readme	6/21/2016 8:08 AM	TXT File	4 KB
🜲 setup	7/14/2016 7:36 AM	Application	932 KB

Agree on license agreement

End-User Licence	x
END-USER LICENSE AGREEMENT FOR CARMEN NUMBER PLATE RECOGNITION SOFTWARE	^
This End-User License Agreement ("AGREEMENT") is a legal agreement between you (either an individual or a single entity) and ARH Informatics Company Limited by Shares ("ARH"), for the use of CAI Number Plate Recognition Software identified below, which includes computer software with the associated media and printed materials and "online" or electronic documentation, hereinafter referred to as the "SOFTWARE PRODUCT" or "SOFTWARE".	
By installing, copying, or otherwise using the SOFTWARE, you agree to be bound by the terms of this AGREEMENT.	
SOFTWARE PRODUCT LICENSE	
	~
E xit I Agree	



Select CARMEN FULL

Purpose of the installation			
Select the installation package:			
C CARMEN Minimal : driver:	s, function libraries		
C CARMEN Typical : driver	commended for Users s, function libraries, demos		
ri CARMEN Full : driver	ecommended for Developers s, function libraries, demos, utils, SDK, docs		
Exit	Next		

While installation is running, you will be prompted with the following popup





Make sure to select "Always trust software from ARH Informatics Private Limited Company" then click install.

• V	/indows Security
Would you like to install this device s Name: ARH Publisher: ARH Informatics Private Limited	oftware? Company
Always trust software from "ARH Informati Private Limited Company".	cs <u>I</u> nstall Do <u>n</u> 't Install
You should only install driver software from safe to install?	publishers you trust. How can I decide which device software is

Installation is completed, click Finish

CARMEN FREEFLOW Installation (32 bit version)	
Create Menu '.\SDK\C\Cmanpr Examples'ok Create Menu '.\SDK\CP\Cmanpr Examples'ok Create Menu '.\SDK\C#\Cmanpr Examples'ok Create Menu '.\SDK\Java\Cmanpr Examples'ok Create Menu '.\SDK\Java\Cmanpr Examples'ok Create Menu '.\Documentations\Programmers manual\C\Cmanpr (HTMI Create Menu '.\Documentations\Programmers manual\C++\Cmanpr (HT Create Menu '.\Documentations\Programmers manual\C++\Cmanpr (HT Create Menu '.\Documentations\Programmers manual\C++\Cmanpr (HT Create Menu '.\Documentations\Programmers manual\CMANPR (PDF)'c Add full access changing to C:\Program Files (x86)\CARMEN GX\ok. Change full access to C:\Program Files (x86)\CARMEN GX\ok. Change full access to C:\Program Data\gxok. Installation is completed.	< 111 >
< III >	
Finish	



Now adding the supplied country engine, hit Start -> Engine Manager (x64), and this window should open

Engine Manager	for 64-bit engines 📃 🗖 🗙
Engine(s) directory:	
]	Browse
Engine(s) package:	
1	Browse
Found engines:	Installed engines:
	cmanpr-7.2.7.108 : general cmanpr-7.3.9.74 : latin_general
	Engine type
	C ANPR C ACCR C UIC
	Default engine: Change
	cmanpr-7.2.7.108:general
Install engines	Uninstall engines



Click "Browse" which is next to "Engine(s) Package" and navigate to the folder where your country engine is located, usually provided along with ZenLPR

<i>.</i>		Open				x
🔄 🍥 🔻 🕆 📕 🕨 Pi	reRequisites 🕨 cmanpr-9.69-arab 🕨 cmanp	or-9.69-arab 🕨 windows		✓ ♂ Search windows	م ر	
Organize 👻 New folder					:= • 🔟 🔮	
🔆 Favorites	Name	Date modified	Туре	Size		
Desktop Downloads	cmanpr-7.3.9.69-arab-x64.gxz	10/11/2016 9:23 AM 10/11/2016 9:23 AM	GXZ File GXZ File	16,403 KB 16,142 KB		
□ Libraries □ Documents □ Music □ Pictures □ Videos □ Computer □ Network						
File n	ame:			V Package file(*.g	xz) 🗸]] :

Select the engine with x64

@		Open					x
🔄 🔄 🕆 🚺 🕨 F	PreRequisites 🕨 cmanpr-9.69-arab 🕨 cman	pr-9.69-arab 🕨 windows		v ¢	Search windows	م	>
Organize 🔻 New folde	er				:==	- 🔲 🤇	0
🔶 Favorites	Name	Date modified	Туре	Size			
Desktop	cmanpr-7.3.9.69-arab-x64.gxz	10/11/2016 9:23 AM	GXZ File	16,403	KB		
), Downloads المجالي Recent places	cmanpr-7.3.9.69-arab-x86.gxz	10/11/2016 9:23 AM	GXZ File	16,142	KB		
 □ Libraries □ Documents □ Music □ Pictures □ Videos 							
👰 Computer							
🗣 Network							
File	name: cmanpr-7.3.9.69-arab-x64.gxz			~	Package file(*.gxz) Open	Cancel	•]



The engine name should appear on the left as displayed

Engine Manager	for 64-bit engines 📃 🗖 🗙
Engine(s) directory:	
	Browse
Engine(s) package:	
C: \Users \Administrator \Desktop \PreRequisites	\cmanpr-9.69-arab \cmanpr-9.69 Browse
Found engines:	Installed engines:
cmanpr-7.3.9.69-arab	cmanpr-7.2.7.108 : general cmanpr-7.3.9.74 : latin_general
	Engine type
	• ANPR • ACCR • UIC
	Default engine: Change
	cmanpr-7.2.7.108:general
Install engines	Uninstall engines
Finding enginesOK	



Select the engine from the list on the left and hit "Install Engines"

🖉 Engine Manager for 64-bit engines 📃 🗖 🗙		
Engine(s) directory:		
	Browse	
Engine(s) package:		
C:\Users\Administrator\Desktop\PreRequisites\	cmanpr-9.69-arab\cmanpr-9.69 Browse	
Found engines:	Installed engines:	
cmanpr-7.3.9.69-arab	cmanpr-7.2.7.108 : general cmanpr-7.3.9.74 : latin_general	
	Engine type	
	ANPR CACCE CUIC	
	Default engine: Change	
	cmanpr-7.2.7.108:general	
Install engines	Uninstall engines	
Finding enginesOK		



After completing successfully, the screen should be like this with the engine name in the "Default Engine"

Engine Manager	for 64-bit engines	
Engine(s) directory:		
		Browse
Engine(s) package:		
C:\Users\Administrator\Desktop\PreRequisites	\cmanpr-9.69-arab \cmanpr-9.69	Browse
Found engines:	Installed engines:	
cmanpr-7.3.9.69-arab	cmanpr-7.2.7.108 : general cmanpr-7.3.9.69 : arab cmanpr-7.3.9.74 : latin_general	
	Engine type	
	• ANPR C ACCR	
	Default engine:	Change
	cmanpr-7.3.9.69:arab	
Install engines	Uninstall engines	
Removing the generated script fileOK Installing the selected engine(s)OK Creating setup script fileOK		^ ~



Next plugin the ARH Dongle in the server in order to make sure it is activated and the engine is running correctly. After plugging in, type "ANPR Demo for Images(x64)" in the start menu and open, the following window should open and display the rectangle on the plate with the result below and the added engine name should be displayed in the title of the window. If this is not the case, please refer to Carmen Installation manual or contact support before proceeding.





4. Configure IIS

By default, all role services are not installed while installing IIS 8.0 on Win2k12, Win 2K12 R2 server. You need to manually select Application Development and IIS Management role services while installing the web server (IIS). These are essential services and should be up and running prior to installing Zen LPR Broadcaster.

This section helps to install web server (IIS) with role services required

- Log on to Win2k12 server.
- Click **Server Manager** icon available in the task bar. Server Dashboard displays.

Server Ma	anager • Dashboard	• 3	🏲	Manage	Tools	View	Help
🇰 Dashboard	WELCOME TO SERVER MANAGER						^
 Local Server All Servers File and Storage Services 	1 Confi	gure this local server					
	QUICK START	roles and features					
	3 Add WHAT'S NEW 4 Cree	l other servers to manage					=
		ate a server group				Hida	
	LEARN MORE					Thue	
	ROLES AND SERVER GROUPS Roles: 1 Server groups: 1 Servers total:	1	1				
	File and Storage Services 1	Local Server 1					
	Events	Events					
	BPA results	Performance					
		BPA results					~



• Select Add Roles and Features. Add Roles and Features Wizard displays.

B	Add Roles and Features Wizard	-		x
Before you begin	DESTI vmesx3-	NATION vm8.Tc	N SERV	'ER cal
Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	This wizard helps you install roles, role services, or features. You determine which roles, role features to install based on the computing needs of your organization, such as sharing do hosting a website. To remove roles, role services, or features: Start the Remove Roles and Features Wizard Before you continue, verify that the following tasks have been completed: • The Administrator account has a strong password • Network settings, such as static IP addresses, are configured • The most current security updates from Windows Update are installed If you must verify that any of the preceding prerequisites have been completed, close the complete the steps, and then run the wizard again. To continue, click Next. Skip this page by default	wizar	vices, c	or
	< Previous Next > Install	(Cance	I

Click Next >



Select Installation Type window displays

'Role based or feature based selection' option is selected by default. You can select the installation type as per the requirement

b	Add Roles and Features Wizard	-		x
E Select installation Before You Begin Installation Type Server Selection Server Roles Features Confirmation	Add Roles and Features Wizard Uppe Select the installation type. You can install roles and features on a running physical compression and the installation fraction of the installation of the installation configure a single server by adding roles, role services, and features. Remote Desktop Services installation Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual role or session-based desktop deployment.	WATION vm8.Too uter or machin	SERVE SERVE virtu virtu	ER rai al
Confirmation Results	or session-based desktop deployment.		. 50.	
< Previous Next > Install Cancel				

Click Next >



Select destination server window displays

📥 Add Roles and Features Wizard 📃 🗖 🗙					
Select destination	n server			DESTINATION SERVER vmesx3-vm8.Toons.local	
Before You Begin Installation Type Server Selection Server Roles	Select a server or a virtual Select a server from the Select a virtual hard dis Server Pool	hard disk on which e server pool k	to install roles and features.]	
Features Confirmation Results					
	vmesx3-vm8.Toons.local	192.168.1.71	Microsoft Windows Server 20	12 Datacenter	
	1 Computer(s) found This page shows servers th Add Servers command in S collection is still incomplet	at are running Wir ierver Manager. Of e are not shown.	dows Server 2012, and that have fline servers and newly-added se	been added by using the rvers from which data	
		< Pre	evious Next >	Install Cancel	

• Select Local Server from the server pool, and then select Next >



• In Roles pane, select the Application Server, and then select Web Server (IIS)

a	Add Roles and Features Wizard	_ D X
Select server roles Before You Begin Installation Type Server Selection Server Roles Features Application Server Role Services Web Server Role (IIS) Role Services Confirmation Results	Add Roles and Features Wizard Select one or more roles to install on the selected server. Roles Active Directory Rights Management Services Application Server DHCP Server DHCP Server Fax Server Fax Server File And Storage Services (Installed) Hyper-V Network Policy and Access Services Print and Document Services Remote Access Remote Access Remote Desktop Services	DESTINATION SERVER vmesx3-vm8.Toons.local Description Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.
	Volume Activation Services Web Server (IIS)	
	Windows Deployment Services Windows Server Update Services V	
	< Previous Next	> Install Cancel

Add Roles and Features Wizard displays the confirmation message



Þ	Add Roles and Features Wizard			
A Ti ha	Add features that are required for Web Server (IIS)? he following tools are required to manage this feature, but do not ave to be installed on the same server.			
	 ✓ Web Server (IIS) ✓ Management Tools [Tools] IIS Management Console 			
	Include management tools (if applicable) Add Features Cancel			

- Click Add Features, Click Next
- Select .NET Framework 3.5 Features, and then select .NET Framework 3.5 (includes .NET 2.0 and 3.0) option





• Select .NET Framework 4.5 Features, and then select WCF Services and then Enable TCP Activation.

ᡖ Add Roles and Features Wizard		- 🗆 X
Select features		DESTINATION SERVER VAS-MS.VEERTEC.COM
Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Select one or more features to install on the selected server. Features Setures Setures Setures Setures Setures	Description TCP Activation supports process activation via TCP. Applications that use TCP Activation can start and stop dynamically in response to work items that arrive over the network via TCP.
	< Previous Next	> Install Cancel

Click Next >



B	Add Roles and Features Wizard		
Application Serve	DESTINATION SERVER vmesx3-vm8.Toons.Jocal		
Before You Begin Installation Type Server Selection Server Roles Features Application Server	Application Server hosts and centrally manages applications that interoperate with systems on the network such as heterogeneous databases, identity management services, security systems, and Web applications and services. Application Server also supports developing custom business applications through integrated services such as the .NET Framework 4.5, COM+, Web Server (IIS) Support, and Message Queuing. Things to note: • We recommend that you install Web Server (IIS) Support if you plan to host distributed applications		
Role Services Web Server Role (IIS) Role Services Confirmation Results	built using ASP.NET or Windows Communication Foundation (WCF).		
	More information about Application Server		
	< Previous Next > Install Cancel		
Select Web Server(IIS) Support			
È.	Add Roles and Features Wizard		
Select role service	CS DESTINATION SERVER vmesx3-vm8.Toons.local		



Add Roles and Features Wizard displays the confirmation message.



Click Add Features

Add Roles and Features Wizard	x			
Add features that are required for Web Server (IIS) Support?				
You cannot install Web Server (IIS) Support unless the following services or features are also installed.	role			
▲ .NET Framework 4.5 Features	^			
ASP.NET 4.5				
⊿ Web Server (IIS)	=			
⊿ Web Server				
▲ Common HTTP Features				
HTTP Redirection				
▲ Application Development				
ASP.NET 4.5				
ISAPI Extensions	~			
Include management tools (if applicable)				
Add Features Can	cel			

Click Next >



b	Add Roles and Features Wizard			
Web Server Role	(IIS) DESTINATION SERVER vmesx3-vm8.Toons.local			
Before You Begin Installation Type Server Selection Server Roles Features	Web servers are computers that let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 8.0 with enhanced security, diagnostic and administration, a unified Web platform that integrates IIS 8.0, ASP.NET, and Windows Communication Foundation. Things to note: • Using Windows System Resource Manager (WSRM) can help ensure equitable servicing of Web			
Application Server Role Services	server traffic, especially when there are multiple roles on this computer. • The default installation for the Web Server (IIS) role includes the installation of role services that			
Web Server Role (IIS) Role Services Confirmation	enable you to serve static content, make minor customizations (such as default documents and HTTP errors), monitor and log server activity, and configure static content compression.			
Results				
More information about Web Server IIS				
	< Previous Next > Install Cancel			

• Enable IIS 6 Management Compatibility

È.	Add Roles and Features Wizard	_ D X
Select role service Before You Begin Installation Type Server Selection Server Roles Features Application Server Role Services Web Server Role (IIS) Role Services Confirmation Results	Add Roles and Features Wizard Select the role services to install for Web Server (IIS) Role services Windows Authentication A Optication Development A Optication Develop	DESTINATION SERVER R1P151VM7.PCLOUD2008.com
	III >	
	< Previous Next :	> Install Cancel

Scroll down and expand Application Development node. Select .NET Extensibility 3.5, ASP.NET Page 25 / 42



	Add Roles and Features Wizar	rd	
elect role servio	ces		DESTINATION SERVE pnpl-testlab9.Toons.loc
1 The destination server h	as a pending restart. We recommend that you restart the o	destination	server before either installing o
Before You Begin	Select the role services to install for Web Server (IIS))	
Installation Type	Role services		Description
Server Selection	URI Authorization	^	Active Server Pages (ASP) provides
Server Roles	Windows Authentication		server side scripting environment for building Web sites and Web
Features	▲ ✔ Application Development		applications. Offering improved
Web Server Role (IIS)	✓ .NET Extensibility 3.5		performance over CGI scripts, ASP provides IIS with pative support for
Role Services	.NET Extensibility 4.5		both VBScript and JScript. Use ASP
Confirmation	Application Initialization		you have existing applications that require ASP support. For new
			development, consider using
	ASP.NET 4.5		ASP.NET.
	CGI	=	
	ISAPI Extensions		
	ISAPI Filters		
	Server Side Includes	~	
	< 111		
	< Previous	Next	> Install Cancel
ble ASP	< Previous	Next	> Install Cancel
ble ASP Add F	< Previous Roles and Features Wizard	Next	> Install Cancel
ble ASP Add F Add features that You cannot install ASP are also installed.	< Previous Roles and Features Wizard are required for ASP? unless the following role services or features	Next	> Install Cancel
ble ASP Add F Add features that You cannot install ASP are also installed.	< Previous Roles and Features Wizard are required for ASP? unless the following role services or features	X Next	> Install Cancel
ble ASP Add Features that You cannot install ASP are also installed.	Roles and Features Wizard are required for ASP? unless the following role services or features	X Next	> Install Cancel
ble ASP Add Features that You cannot install ASP are also installed.	< Previous Roles and Features Wizard are required for ASP? unless the following role services or features	X Next	> Install Cancel
ble ASP Add Features that You cannot install ASP are also installed. Web Server (IIS) Web Server A pplication ISAPI ES	Coles and Features Wizard are required for ASP? unless the following role services or features Development tensions	X Next	> Install Cancel
ble ASP Add Features that Add features that You cannot install ASP are also installed. Web Server (IIS) Web Server Application ISAPI Ex	< Previous Roles and Features Wizard are required for ASP? unless the following role services or features Development ttensions	Next	> Install Cancel
ble ASP Add Features that Add features that You cannot install ASP are also installed. Web Server (IIS) Web Server Application ISAPI Ex	Coles and Features Wizard are required for ASP? unless the following role services or features Development tensions	X Next	> Install Cancel
ble ASP Add features that You cannot install ASP are also installed. Web Server (IIS) Web Server A Deplication ISAPI Ex	Coles and Features Wizard are required for ASP? unless the following role services or features Development ttensions	X Next	> Install Cancel
ble ASP Add features that You cannot install ASP are also installed. Web Server (IIS) Web Server A Deplication ISAPI Es	Coles and Features Wizard are required for ASP? unless the following role services or features Development tensions	X Next	> Install Cancel
ble ASP Add features that You cannot install ASP are also installed. Web Server (IIS) Web Server A pplication ISAPI Es	Coles and Features Wizard are required for ASP? unless the following role services or features Development tensions	X Next	> Install Cancel
ble ASP Add features that You cannot install ASP are also installed. Web Server (IIS) Web Server Application ISAPI Ex	< Coles and Features Wizard are required for ASP? unless the following role services or features Development ttensions	X Next	> Install Cancel
Add features that Add features that You cannot install ASP are also installed.	<pre>< Previous </pre> Coles and Features Wizard are required for ASP? unless the following role services or features Development ttensions ent tools (if applicable)	X Next	> Install Cancel
Add features that Add features that You cannot install ASP are also installed.	Coles and Features Wizard are required for ASP? unless the following role services or features Development tensions	X Next	> Install Cancel

- Click on Add Features
- Similarly, select the checkbox ASP.Net



Select role service	Add Roles and Features Wizard	DESTINATION SERVER pnpl-testiab9.Toons.local
The destination server has Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation Results	a pending restart. We recommend that you restart the destination Select the role services to install for Web Server (IIS) Role services Windows Authentication Windows Authentication NET Extensibility 3.5 NET Extensibility 4.5 Application Initialization ASP ASP.NET 3.5 Server 3.5 Server Side Includes WebSocket Protocol WebSocket Protocol	Description CGI defines how a Web server passes information to an external program. Typical uses might include using a Web form to collect information and then passing that information to a CGI script to be emailed somewhere else. Because CGI is a standard, CGI scripts can be written using a variety of programming languages. The downside to using CGI is the performance overhead.
	< Previous No	ext > Install Cancel

- Scroll down and expand Management Tools node. Select Management Tools and all the Sub options
- Enable IIS 6 Management Console
- Add Roles and Features Wizard displays with confirmation message.



•

	Add Roles and Features Wizard	
onfirm installat	tion selections	ESTINATION SERVER
		47.PCLOUD2008.com
Before You Begin	To install the following roles, role services, or features on selected server, click Install.	
Installation Type	Restart the destination server automatically if required	
Server Selection	Optional features (such as administration tools) might be displayed on this page beca been selected automatically. If you do not want to install these optional features, clic	ause they have k Previous to clear
Server Roles	their check boxes.	
Features	NFT Framework 4.5 Features	^
Application Server	ASP.NET 4.5	
Role Services	Application Server	
Web Server Kole (IIS)	.NET Framework 4.5	
Role Services	Web Server (IIS) Support	
Contirmation	Web Server (IIS)	
	Management Tools	
	IIS 6 Management Console	
	IIS 6 Scripting Tools	
	10 C Matalana Camarita Para	~
	Export configuration settings Specify an alternate source path	
	< Previous Next > Install	Cancel
ck Install	Add Polos and Features Wizard	
ck Install	Add Roles and Features Wizard	
stallation prod	Add Roles and Features Wizard	DESTINATION SERVER
ck Install	Add Roles and Features Wizard	DESTINATION SERVER
ck Install	Add Roles and Features Wizard	DESTINATION SERVER
ck Install Installation prog Before You Begin Installation Type	Add Roles and Features Wizard	DESTINATION SERVER
ck Install Installation prog Before You Begin Installation Type Server Selection	Add Roles and Features Wizard	DESTINATION SERVER
ck Install Installation prog Before You Begin Installation Type Server Selection Server Roles	Add Roles and Features Wizard	DESTINATION SERVER
ck Install Installation prog Before You Begin Installation Type Server Selection Server Roles Features	Add Roles and Features Wizard	DESTINATION SERVER
ck Install Installation prog Before You Begin Installation Type Server Selection Server Roles Features Application Server	Add Roles and Features Wizard	DESTINATION SERVER





5. Installation

NOTE: Installer should be launched "As Administrator", as below:

Go to Package Directory, where you will find the Installers for the system, including the Carmen ANPR Installer and Arab Engine.

Redist	11/11/2019 2:23 AM	File folder	
20171027-CARMEN_Freeflow-7.3.1-17.zip	11/12/2017 11:04 AM	Compressed (zipp	221,833 KB
🚏 BroadcasterInstaller.msi	11/11/2019 1:32 AM	Windows Installer	508 KB
📱 cmanpr-arab-7.3.10.221_19Q2.zip	5/21/2019 2:53 PM	Compressed (zipp	43,711 KB
🙀 Zen LPR Installer v6.6.3.exe	11/11/2019 2:11 AM	Application	869,710 KB

Right click on ZenLPR Installer v6.6.3.exe and "Run as administrator"





뉋 Zen Lpr Installer - Setup 6.6.3.0	×
Zen Lpr Installer	
	6.6.3.0
Welcome to the Installer for Zen Lpr Installer!	
Install	
Cancel	Back Next

The Installer loads and checks for a newer version (if there is an internet connection)

岃 Zen Lpr Installer - Setup 6.6.3.0	×
Service Selection	6.6.3.0
Select services to install:	
☑ Management Service	\sim
Zen LPR Management service, which is responsible for organizing communication between all the components of the system. (Configuration: Database, Milestone) .	
✓ Recognition Service	
Zen LPR Processing Service, responsible for receiving the stream from the cameras and processing for LPR results.	I
☑ Milestone Plug-In	
Zen Lpr Milestone Plug-In, contains the plugin for both Milestone Smart Client for history and live Lpr Results and Milestone Managment Client for managing the server and detection configuration	· ~
Cancel Back N	lext

The system components are by default all selected in order to have a full system deployment on 1 machine.



闄 Zen Lpr Installer -	Setup 6.6.3.0	×	
Managment Service Installation			
Configure [Database Server		
● Local Insta	ance	^	
Create and Configur	e New Local Sql Instance on the Current Machine.		
• Existing/R	emote Server		
Server	localhost\ZENLPRINSTANCE		
Username	sa	~	
Cancel		Back Next	

Click next in order to start with the main component, which is the Management Service configuration. First step is configuring the Database. Either select Local Instance, where a new local SQL Express instance is installed on the machine; or input the connection information to an Existing Instance (Local or Remote). And after that you have the option to either select an Existing Database (from a previous ZenLPR installation) or Create a New Database.

Fill in the Information desired and Click Next.



闄 Zen Lpr Installer - S	etup 6.6.3.0	×
Managn	nent Service Installation	6.6.3.0
Milestone S	erver Configure	
Locate a runn	ing Milestone Server to Fetch cameras from.	
Server		
Username		
Password		
Authorization	Basic ~	
Cancel		Back Next

Management Service needs to have the credentials to the Milestone Management Server, therefore the connection credentials are needed at this stage.

After adding the information, click Next.



波 Zen Lpr Installer - Se	etup 6.6.3.0	×			
Recognition Service Installation					
Recognition	Server Configure				
Locate the Ma	anagment Server Address.				
Managment IP	10.10.10.99				
Locate the Bro	oadcaster URL, where the results will be broacasted from				
Broadcaster URL	http://10.10.10.99/Broadcaster/Service.svc Install Broadcaster	er			
Click Here If the Windows IIS (Internet Information Services) is not Configured.					
Cancel	Back	Next			

This step is for Zen Recognition Service Configuration, where the Management IP address and the Broadcaster Service URL are required.

Management IP is the IP address where the Zen Management Service is located, in this case since it is a Single Machine deployment, the IP would be the same as the local, and it can be replaced by **localhost**.

Broadcaster URL is the location of the service responsible for the LIVE result distribution, in case it hasn't been installed and configured yet, please proceed with the Install Broadcaster section. Otherwise you may skip to section 2 Resume Installation

1. Installing Broadcaster

NOTE: IIS should already be configured and running before the Broadcaster service is installed.

In order to proceed with the installation, click on Install Broadcaster, where it launches another installer.

Install Broadcaster

veer	
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😸 Zen Lpr Installer - Setup 6.6.3.0 \times Rec 🛱 Zen Broadcaster Service \times 6.3.0 Welcome to the Zen Broadcaster Service Setup Wizard Reco The installer will guide you through the steps required to install Zen Broadcaster Service on your computer. Lo Mana Lo Broa WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law. Clic Cancel < Back Next> Can

Click Next

🚽 Zen Broadcaster Service			_	
Select Installation Address				Ę
The installer will install Zen Broadcaster Service	e to the follow	ing web locatio	n.	
To install to this web location, click "Next". To	install to a diff	erent web loca	tion, en	ter it below.
<u>S</u> ite:				
Default Web Site		~		Disk Cost
⊻irtual directory:				
BroadCaster				
Application Pool:				
DefaultAppPool		~		
	Cancel	< Back		Next >
	001001	(DOOK		HORY /

In case there are more than 1 local site, you can select the desired Site to host the



Broadcaster. And input the Virtual Directory where this resembles the name to be used as a sub url.

🖟 Zen Broadcaster Service			_		\times
Confirm Installation					
The installer is ready to install Zen Broad	caster Service on yo	ur computer.			
Click "Next" to start the installation.					
	Cancel	< Back		Nex	t >

Confirm before installation. Click Next.

- After the Broadcaster installation is done, we need to enable net.TCP protocol to the broadcaster Settings in IIS.
 - Open Internet Information Services (IIS) Manager > Expand "Sites" > Expand Default Web Site > Right Click on Broadcaster > Select "Manage Application"



File View Help					
Connections 😪 - 🗔 🖄 🤧	Si 🖤	tes			
Start Page	Filter:		- 🛒 Go	- 🖳 Show A	II Group by: N
Application Pools	Name	IC)	Status	Binding
🗸 🐻 Sites	😜 Default	Web Site 1		Started (ht	*:80 (http),*:443
🗸 🌏 Default Web Site	-				\$ 1 <i>4</i>
> 📔 aspnet_client					
> 🔐 HtmlHelp 🔯	Explore]		
S 👘 IDP	Edit Permissions.				
> 💣 Installation	Add Application.				
> 🖗 RCServer 🔝	Add Virtual Direct	tory			
> 🔐 Reporting	Manage Applicat	ion 🕨	Brow:	se	
> 💮 ServerCon 🔯	Refresh		Adva	nced Settings	
×	Remove				
E	Switch to Conten	t View			
			a		

• Click on "Advanced Settings"

~	(General)	
	Application Pool	DefaultAppPool
	Physical Path	C:\inetpub\wwwroot\BroadCaste
	Physical Path Credentials	
	Physical Path Credentials Logon	ClearText
	Preload Enabled	False
	Virtual Path	/BroadCaster
~	Behavior	
	Enabled Protocols	http

• Add in the Behavior Part > "Enabled Protocoles" ", net.tcp"



Click "OK"

veer

• To test if the Broadcaster is fully functional, open any browser and type the following address: "http://localhost/boadcaster/service.svc"



		' Always close the client.
		client.Close()
	End	Sub
End	Clas	33



2. Resume Installation

₿ Zen Lpr Installer - S	Getup 6.6.3.0	×
Recogni	tion Service Installation	6.6.3.0
Recognition	Server Configure	
Locate the M	anagment Server Address.	
Managment IP	10.10.10.99	
Locate the Br	roadcaster URL, where the results will be broacasted from	
Broadcaster URL	http://10.10.10.99/Broadcaster/Service.svc	r
<u>Click Here If th</u>	ne Windows IIS (Internet Information Services) is not Configure	<u>ed.</u>
Cancel	Back	Next

Fill the required information, Copy the Broadcaster URL to Clipboard to be used in the next Step and click Next.



谩 Zen Lpr Installer - Setup 6.6.3.0	×
Recognition Service Installation	6.6.3.0
Please select a directory for Recognition Server:	
C:\Program Files\Veer\Zen LPR Recognition Service	Browse
Cancel	Back Next

Select the desired directory to install the Recognition Service.

Click Next



闄 Zen Lpr Installer	- Setup 6.6.3.0	×		
Milesto	one Plug-In Installation	6.6.3.0		
Milestone	Plug-In Configure			
Configure t	he Broadcaster Location to receive live result	s from.		
Broadcaster URL	http://10.10.10.99/Broadcaster/Service.svd	Install Broadcaster		
Click Here If the Windows IIS (Internet Information Services) is not Configured.				
Cancel		Back Next		

The Milestone Plugin Configuration, the same Broadcaster URL is required previously copied.

Paste the URL and Click Next;



撮 Zen Lpr Installer - Setup 6.6.3.0	2	×
Installing	6.6.	3.0
Installing Zen LPR. Please don't turn off the computer. This process may take some time to complete. Missing components will be downloaded from the internet automatically.		
Total progress: 0%		
Cancel	Back Next	

Installation process started, you will be prompted in case of error, and will be notified once done.



6. Manually Registering Machine

In case after installation is complete and the Recognition Server is not being listed inside the Management Interface, it is recommended to execute the "GetMachineUUID.exe" located at the Recognition Service directory.

The executable will connect to the Management Service and attempt to register through its GUID.