Neural Server - Milestone

Installation Guide

www.neurallabs.net

Content:

1 - Introduction

The purpose of this document is to guide the installation of Neural Server integrated with Milestone systems.

2 - Requirements

- Neural Server 4.6.2.6
- SQL Server Data Base
- Neural Plugin 1.2.9.0

3 - Database

A database is necessary, whether in the same computer or in a remote computer so the software can operate.

The installation pack incorporates a free SQLServer 2016 version that can be obtained from the following address:

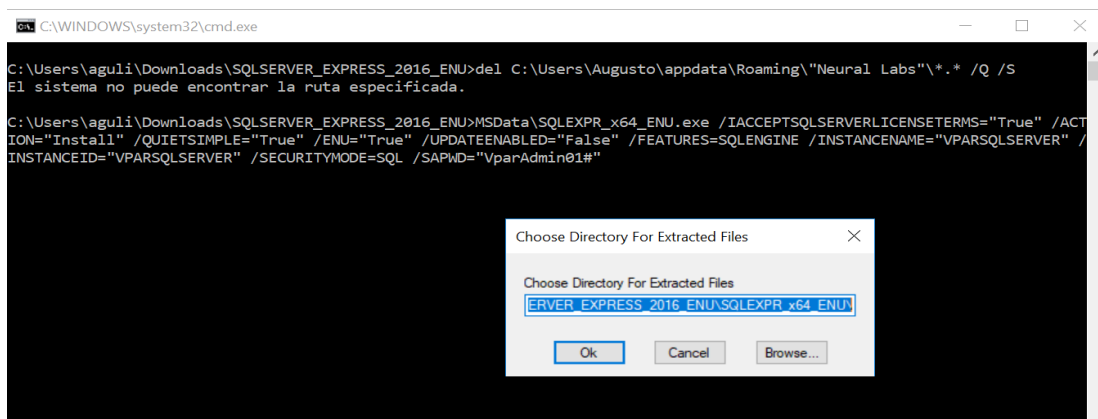http://www.neurallabs.net/PREREQUISITOS/SQLSERVER_EXPRESS_2016_ENU.zip

3.1 - Installation of SQL Server

In order to install SQLServer, unzip the file in a new folder and execute the following file:
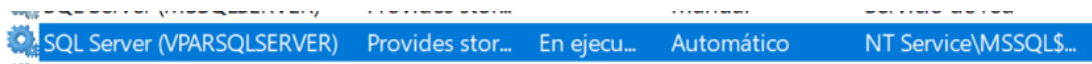
IMPORTANT: User for executing installation must be administrator of the local system or must have administration rights.
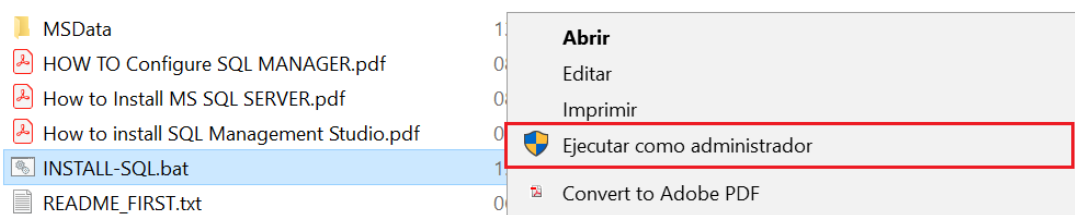
Click "Ok" on the following screen:

Now SQL should be installed on your computer. You will see an SQL Server instance called VPARSQLSERVER on you services.


In case this installation fails you will have to install SQL Server manually

3.2 - Manual installation of SQL Server

On your unzip folder you will find the following folder:

|			
MSData	13/04/2018 8:24	Carpeta de archivos	
SQLEXPR_x64_ENU	29/05/2019 11:19	Carpeta de archivos	
HOW TO Configure SQL MANAGER.pdf	08/02/2019 12:01	Adobe Acrobat Docu...	342 KB
How to Install MS SQL SERVER.pdf	08/02/2019 9:27	Adobe Acrobat Docu...	559 KB
How to install SQL Management Studio.pdf	08/02/2019 12:24	Adobe Acrobat Docu...	279 KB
INSTALL-SQL.bat	15/03/2019 7:45	Archivo por lotes de ...	1 KB
README_FIRST.txt	06/02/2019 5:18	Documento de texto	1 KB

Inside this folder you will find a SETUP.EXE file. Execute it as administrator.
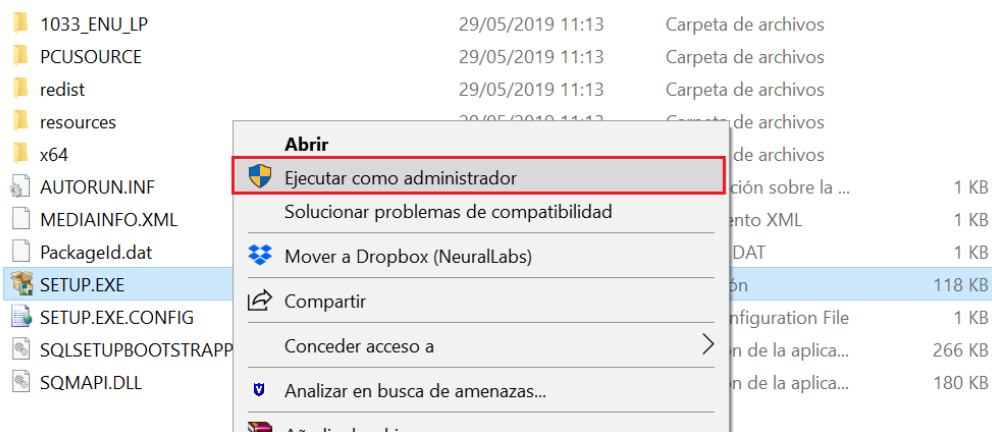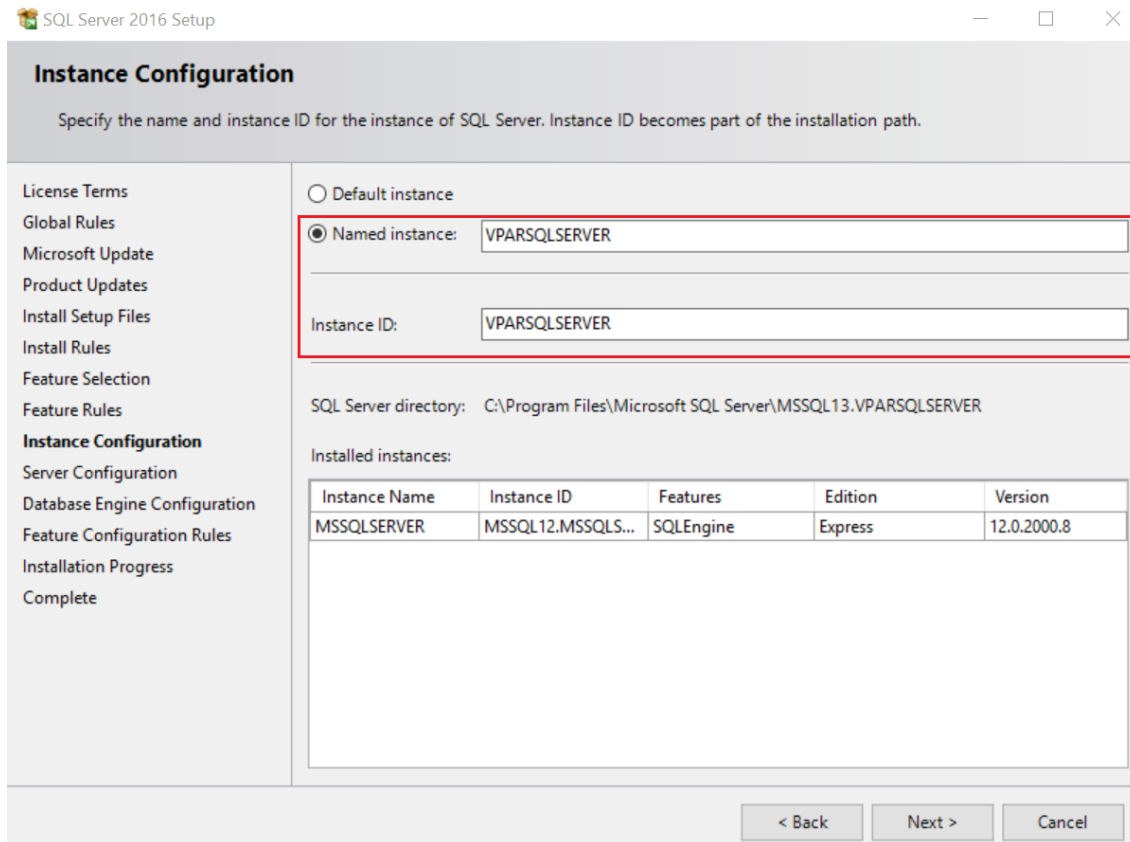
SQL Server Installation Center will prompt, select "New SQL Server stand-alone installation or add features to an existing installation":
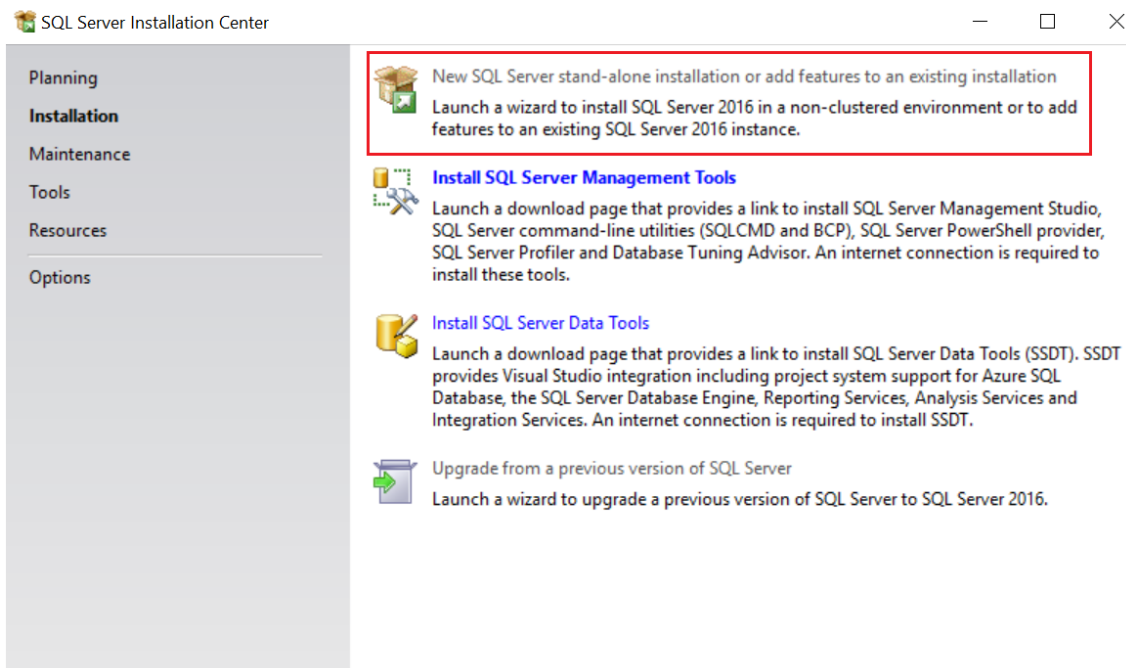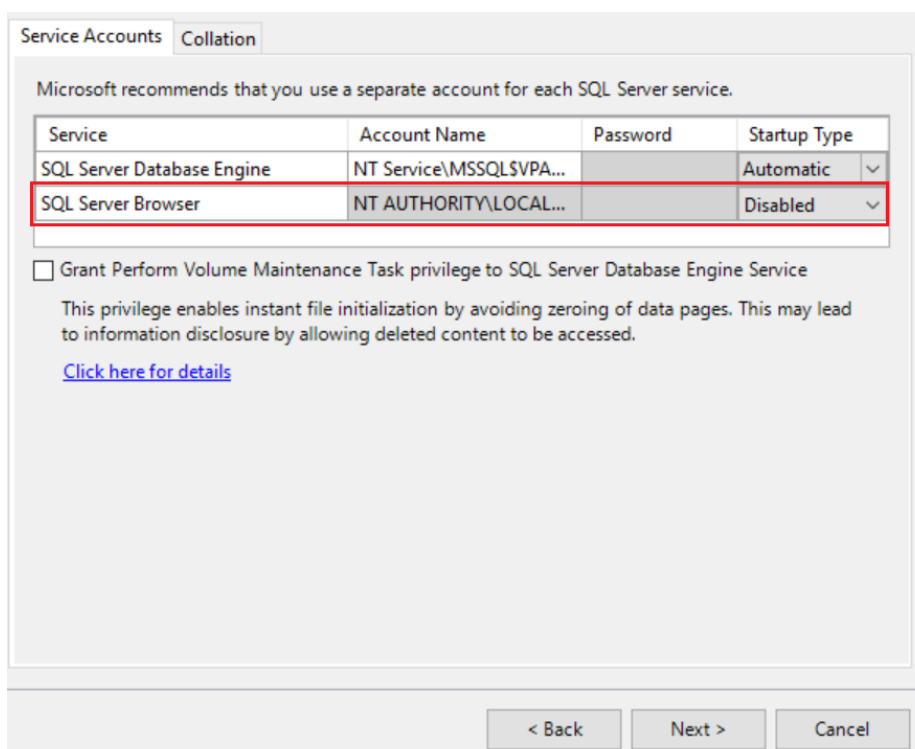

Accept the license agreements and click on "Next":
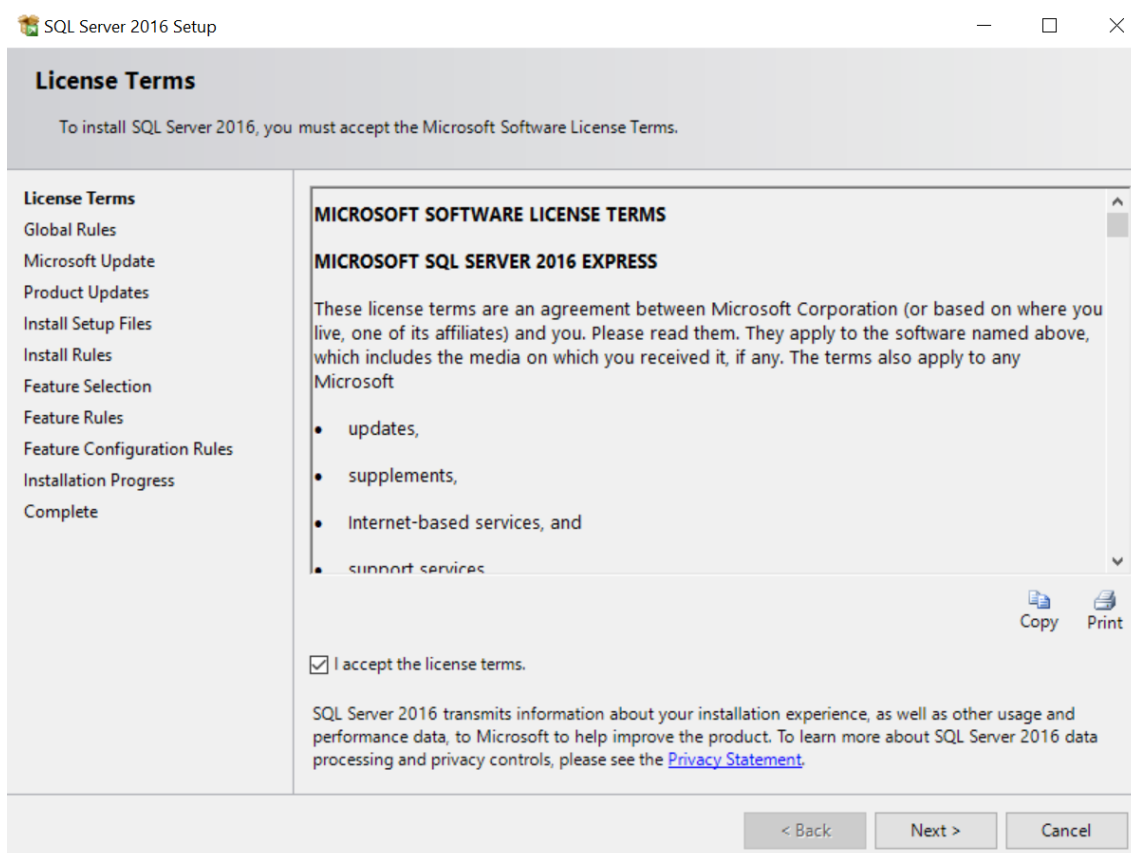
Click on "Next" until you reach the Instance Configuration. Name the instance as "VPARSQLSERVER" and then click on "Next":

Change the SQL Server Browser Startup Type to disable and click on "Next":

Select Mixed Mode and specify the following password for sa account: VparAdmin01#
In case no user is selected, click on "Add current User" and then click on "Next"
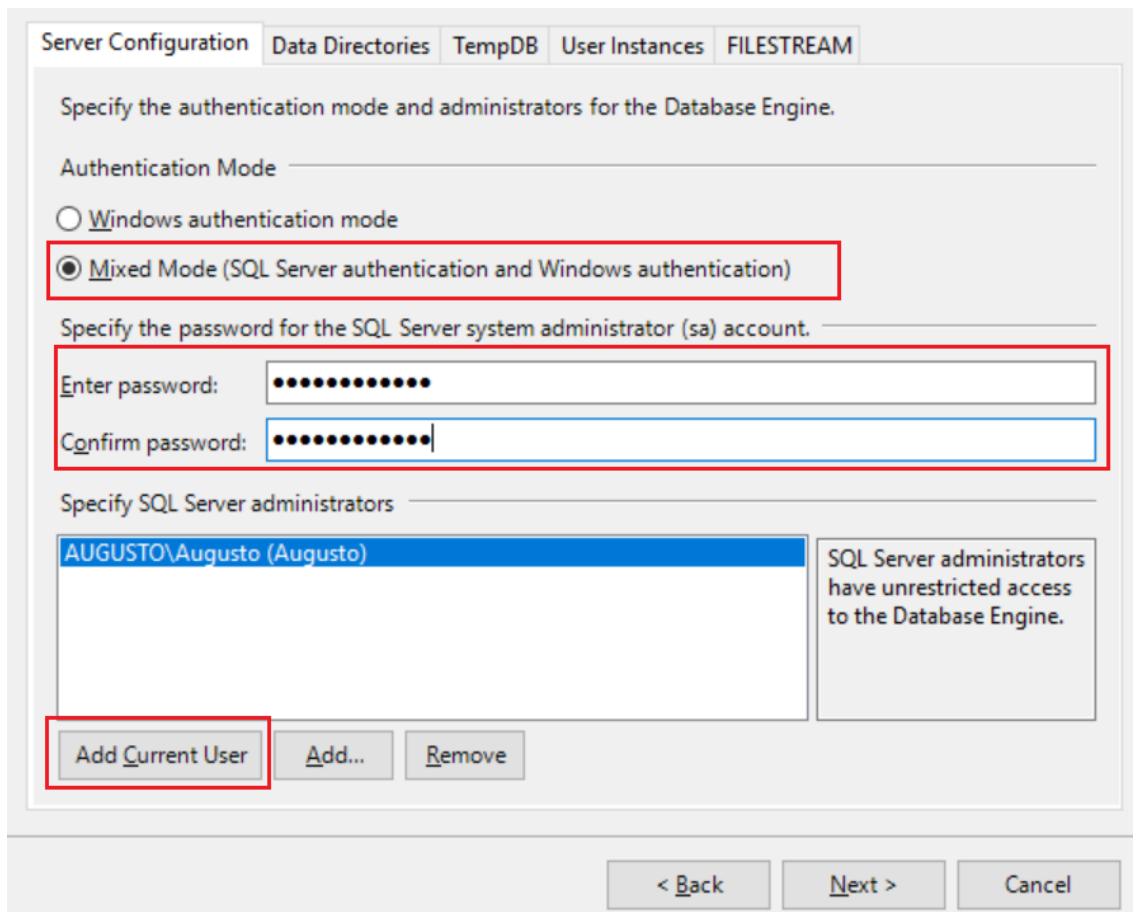
You will be asked to restart your computer. Restart it and now you will find a SQL Sever instance called VPARSQLSERVER on your Services.
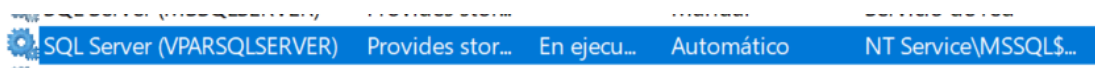
4 – Neural Server installation

You will be able to download the latest version of Neural Server from the following address:

http://www.neurallabs.net/NEURALSERVER/NEURAL_SERVER_4.6.2.6.exe

Execute the downloaded file as administrator:

Accept the license agreements and click on "Install"

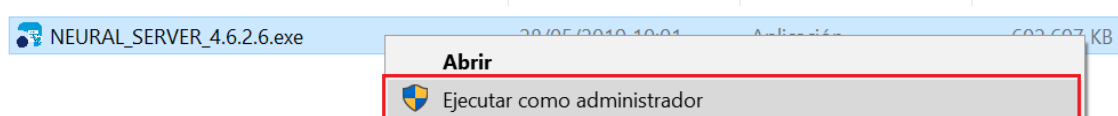Install each one of the prerequisites and Neural Server will now be installed on your computer.

5 – Neural Server configuration

You will find a shortcut on your desktop. Once you open it, Server connection parameters will prompt.

If SQL Server has been installed on the local computer, instance name will be "localhost\VPARSQLSERVER".

In case SQL Server was installed on a different computer, you will have to replace "localhost" with the IP address of the machine where SQL Server is installed.

The following explanation is for SQL Server installed as localhost

Connect to server

Default password is VparAdmin01#, in case you place another password for sa account, you will have to type it in the Password field.

Click on "Test" to check if the connection parameters are right. If connection success, a confirmation message will prompt.
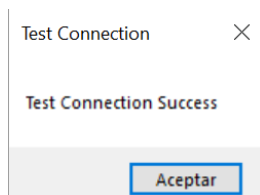
The following message will prompt after you click on "Aceptar", click on "Si"
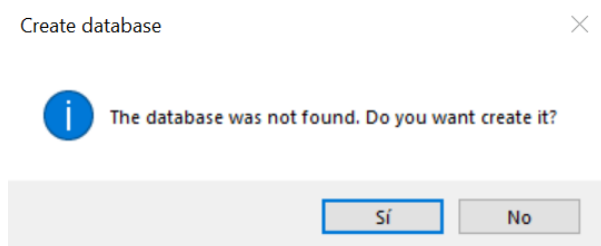
If ANPR database was created correctly, the following message will prompt:

Click on "Aceptar" and afterwards click "Ok". You will now see the following screen, click on "Apply and Save"

Computer ID Manager

◉ Use defined computer id   Starting Instance=1 with SERIAL= 249849432830424985

	COMPUTER_ID	INSTANCE	SERIAL	DESCRIPTION
▶	1	1	0	Instance 1

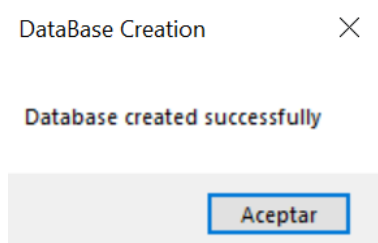* You can change the description by double clicking on it   **Apply and save**

○ New computer id

ID   2 ⬍

Description

Apply and save

Select the corresponding region and then the corresponding country. You will be able to select more than one country. Then click on "Ok"

Country Selector

Region

Select Region   2 - South America & Central America ⌄

Countries of the Region

ID	Name
221	Bermuda
210	Bolivia
203	Brazil
201	Chile
202	Colombia
217	Costa Rica
218	Dominican Republic
206	Ecuador
209	El Salvador
212	Guatemala
219	Honduras
205	Mexico
220	Nicaragua

>

<

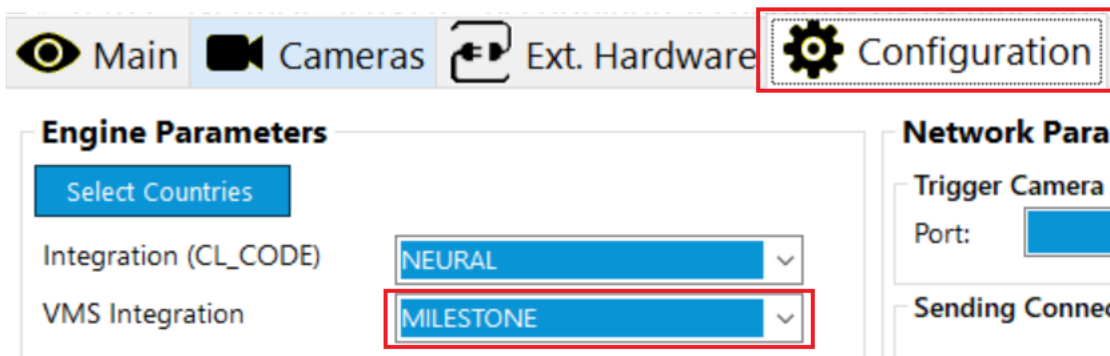**Selected Contries**

ID	Name
204	Argentina

OK

After this step Neural Server will be successfully installed and connected with your SQL Server.

6 – Milestone configuration on Neural Server

In order to connect Neural Server with Milestone VMS, you will have to click on the "Configuration" option and set the "VMS integration" parameter as Milestone.


Click on "Apply and Save" and restart Neural Server system.

Once you start Neural Server again you will be asked to type the Milestone connection parameters. Complete them with the corresponding parameters and click on "Connect".
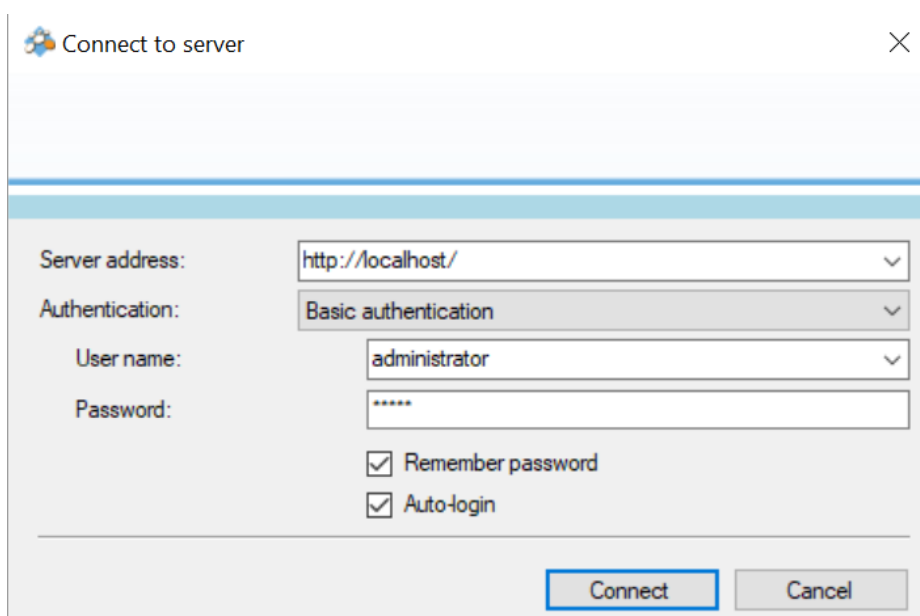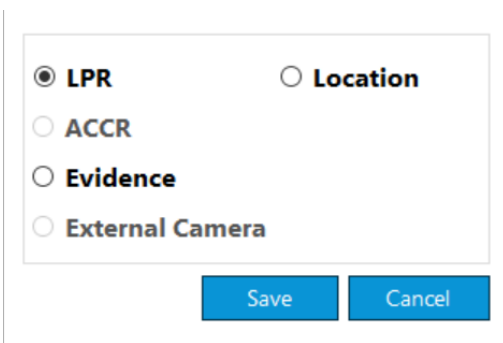

After this step Neural Labs will be already connected with your Milestone Server.
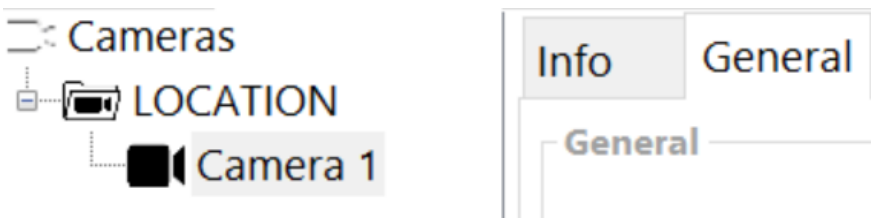
In order to add a new camera on Neural Server click the Camera option and then click on Location
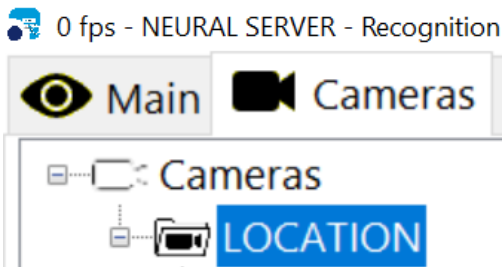
Then click on the "+" button. The following option panel will prompt, select LPR and then click Save.

You will have to refresh the cameras. Now a new camera has been created. Place yourself on the camera and click the General option.
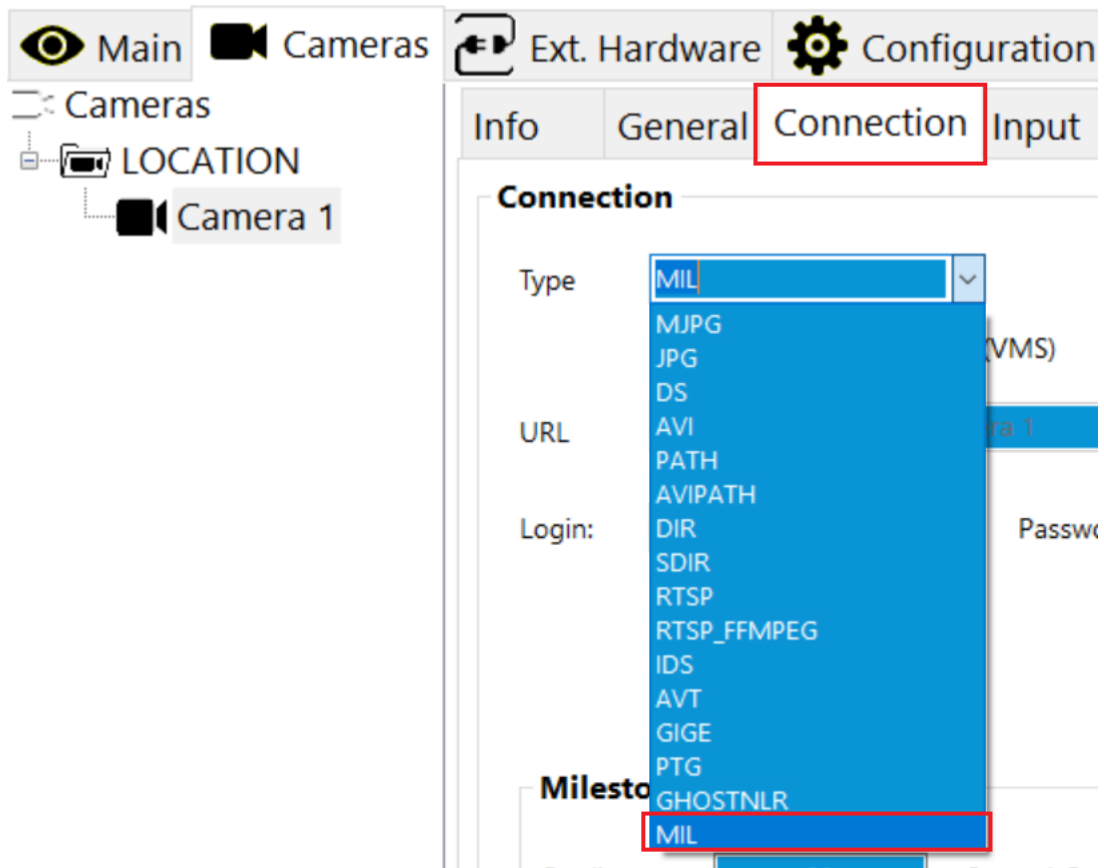

Click on Edit and in the "Name" parameter type the exact same name the camera has on you Milestone Server.

The name has to be exactly the same as you see it on XProtect Smart Client.

Once you have set the camera with the exact same name click on "Apply and Save" and now select the "Connection" option before reloading the cameras. Click on Edit and in the type option select "MIL".

After this, you should see in the URL the name you typed before. Click on Apply and Save and Reload the cameras.

Now you should be able to see the camera by clicking on the Main option.

7 – Plugin configuration

Neural Server plugin for XProtect Smart Client can be downloaded from the following address:

www.neurallabs.net/MILESTONE/PluginMilestone_1.2.9.0.zip

Unzip the downloaded file and you will find three folders.

ListManagementPlugin	08/06/2018 10:22	Carpeta de archivos
NeuralPlugin	09/05/2019 7:22	Carpeta de archivos
Prerrequisitos ReportViewer	08/06/2018 10:22	Carpeta de archivos

Open the "Prerrequisitos ReportViewer" folder and execute first de "SQLSysClrTypes.msi" file and then the "ReportViewer.msi" file.

Nombre	Fecha de modificación	Tipo	Tamaño
ReportViewer.msi	14/08/2017 11:37	Paquete de Windows...	9.128 KB
SQLSysClrTypes.msi	14/08/2017 11:37	Paquete de Windows...	4.188 KB

Now open the Neural Plugin folder and then open the NeuralPlugin.connectionString file with Notepad.

Nombre	Fecha de modificación	Tipo	Tamaño
BussinessLayer.dll	16/05/2019 5:27	Extensión de la aplica...	7 KB
CountryCodes.txt	09/05/2019 7:21	Documento de texto	6 KB
crtBackground.jpg	31/08/2018 6:10	Archivo JPG	8 KB
DataLayer.dll	16/05/2019 5:27	Extensión de la aplica...	28 KB
EntityLayer.dll	16/05/2019 5:27	Extensión de la aplica...	12 KB
Microsoft.ReportViewer.WinForms.dll	29/05/2015 17:27	Extensión de la aplica...	551 KB
NeuralLabsVPARSERVERPlugin.dll	16/05/2019 5:27	Extensión de la aplica...	511 KB
NeuralLabsVPARSERVERPlugin.dll.config	27/11/2018 5:39	XML Configuration File	2 KB
NeuralPlugin.connectionString	31/08/2018 6:10	Archivo CONNECTIO...	1 KB
plugin.def	31/08/2018 6:10	Archivo DEF	1 KB
Tools.dll	16/05/2019 5:27	Extensión de la aplica...	16 KB
VideoOS.Platform.dll	31/08/2018 6:10	Extensión de la aplica...	2.950 KB

Replace each parameter with the corresponding value in order to connect with the SQL Server instance.

The following image shows how the file should be completed in order to connect to the localhost instance of SQL Server. In case SQL is installed somewhere else, replace "localhost" with the corresponding IP address.

NeuralPlugin.connectionString: Bloc de notas
Archivo   Edición   Formato   Ver   Ayuda
Data Source=localhost\VPARSQLSERVER;Database=ANPR;Persist Security Info=True;User ID=sa;Password=VparAdmin01#

Save the file, copy it and now enter to the ListManagmentPlugin. Paste the copied file and overwrite the file from this folder.
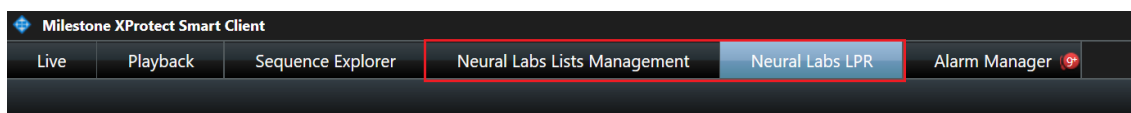
Copy both of the folders (NeuralPlugin and ListManagmentPlugin) and paste them in the following path:

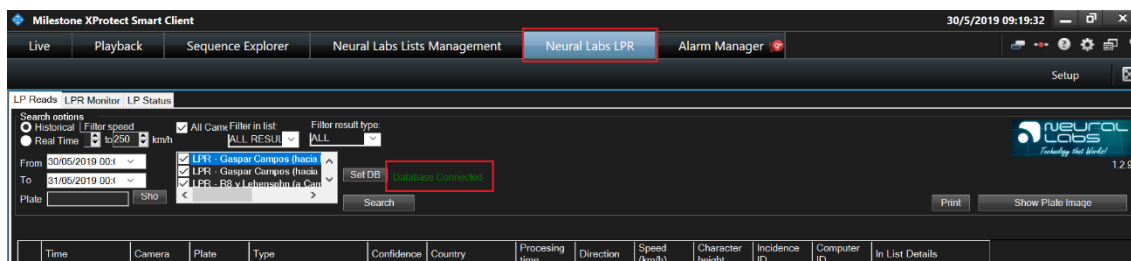C:\Program Files\Milestone\XProtect Smart Client\MIPPlugins

Open XProtect Smart Client, and now you will find to new tabs:

7.1 – Neural Labs LPR Plugin

First, you will have to check if the plugin successfully established a connection with your database.

If connection was established, you will see a message telling "Database Connected"

7.1.1 – LP Reads

Historical

It allows to customize the data selection according to the search criteria.

1. From: The starting moment of the data selection
2. To: Ending moment of the data selection
3. Plate: Filter by a certain plate (leave blank to see all). Filtering can be performed by approach entering only a part of the characters or through exact comparison. Click the show button for more searching criteria.
4. Camera: Filter results by a certain camera (choose ALL to not filter by camera).
5. Filter in list: Filter only those which are In List or Not In List. (Choose ALL RESULTS to see them all).

Click on Search to see the results.

<u>Real Time</u>

In Real Time mode, the application shows the data that is being generated on Neural Server the current day in real time (from 00:00:00 until 23:59:59).

If a filter is active in this mode, real time will work having this filter in consideration.
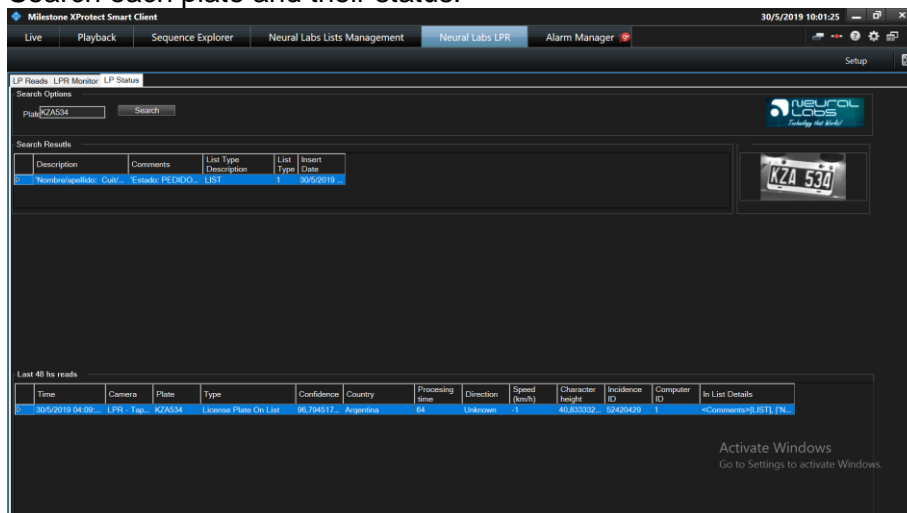
7.1.2 – LPR Monitor

Shows camera reads statistics based on last hour, last 8 hours or last 24 hours.
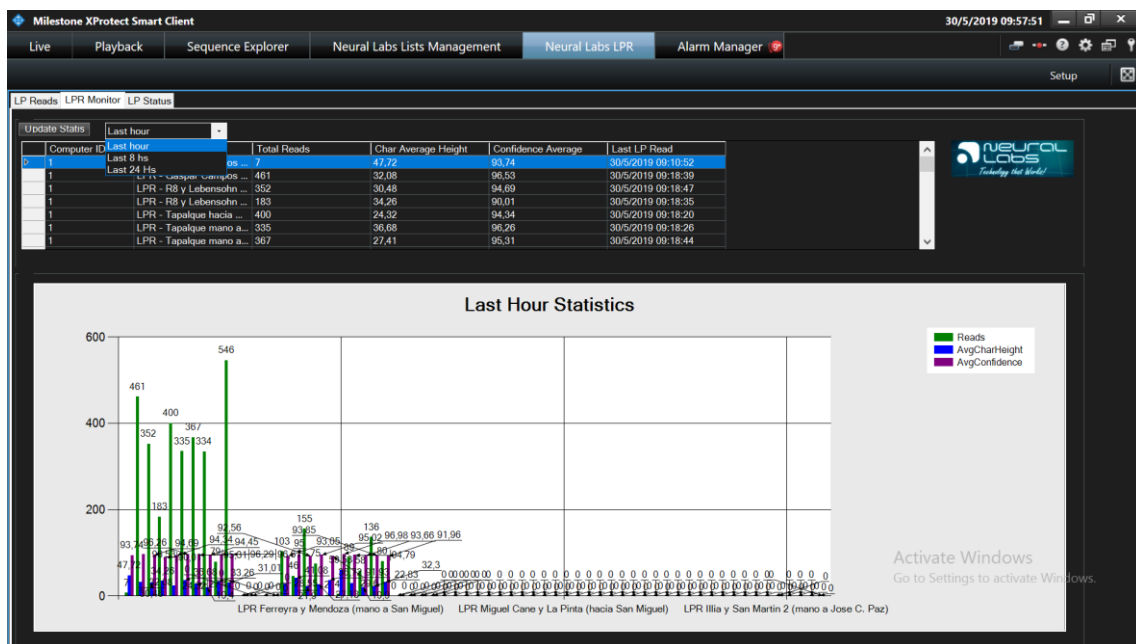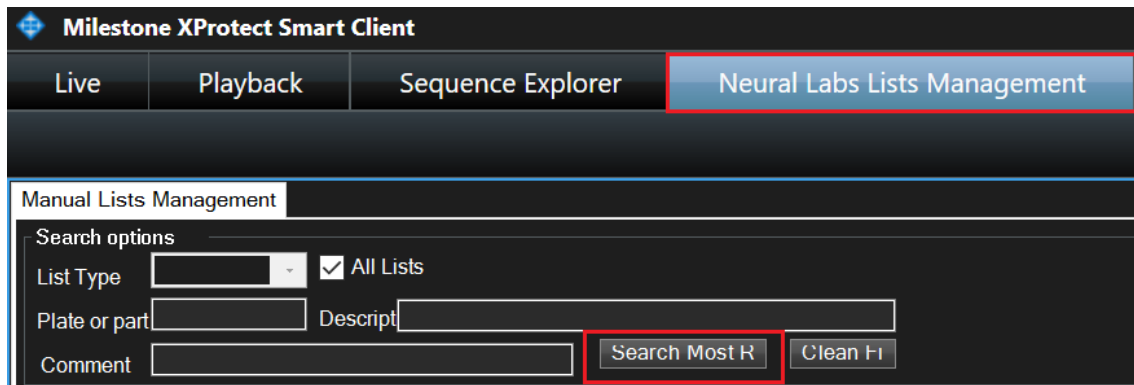

7.1.3 – LP Status

Search each plate and their status.

7.2 – Neural Labs List Management

From the Neural Labs List Management plugin, we can search, add, modify or delete plates from our lists.

- List Type: You can select the list you want to see. (Select All Lists to see information from all your lists).
- Plate or part: Filter by a certain plate (leave blank to see all). Filtering can be performed by approach entering only a part of the characters or through exact comparison.
- Description: Search by the description your plate has on your list.
- Clear Filters: Clear each one of the active filters and return to its default.

Click on Search Most Recent to see the results.

In order to add a new plate on your list, click on New and the following panel will be enabled.
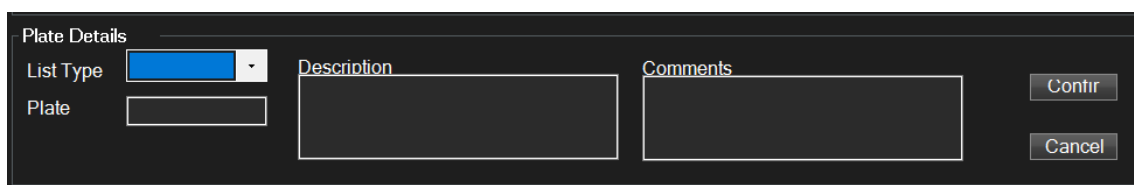
- List Type: Select to which list you would want to add your new plate.
- Plate: Specify the plate number.
- Description: Add a description
- Comments: Add comments.

Click on Confirm to add your new plate.

In order to update or delete one of your plates. Search it, click on it and the click on "update" or "delete".