

2021

Babylon Milestone Installation Guide

BABYLONPI INSTALLATION & SERVICE
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1. Babylon Server

- Create a UBI3 port
- Ensure Flags 1,2 and 4 are selected
- Ensure a TCP port number is added e.g. Here we have a UBI port No of **15**, insert the number **23??.** ?? being the port number i.e., **15**
- Create an easy identification name
- Create a password
- Save and restart Babylon server application

W3Port [1] Demo Server

File Edit Help

File Explorer | Print | Exit | New | Open | Save | Delete | Copy | Paste | Find | Replace | Properties | Refresh | Help | About | UBI

Index Details

No.	Active	Connected	Identification	TCP-Port	Actual Client IP	Client Port	No. of Connect
15	<input checked="" type="checkbox"/>		TCP - MILESTON	2315	127.0.0.1	63644	16

General Settings **Log Pointers**

1 = Activate UBI-Port, N3UBI3R (UBI3) or N3UBISR (UBI2) will be started automatically!

2 = Use TCP/IP protocol (UBI3), else UDP/IP (UBI2)

3 = Activate datagram encryption (UBI3 only)

4 = Activate password checking (UBI3 only)

5 = Check IP-Address of client (max. 8 Clients)

6 = Record datagrams in file "\$(BABYTHON)\TCPLpppp.TXT"

7 = Activate access rights limitation. The Identification must be a valid Userid!

8 = Use a safe TLS 1.2 connection (X509-Certificates required!)

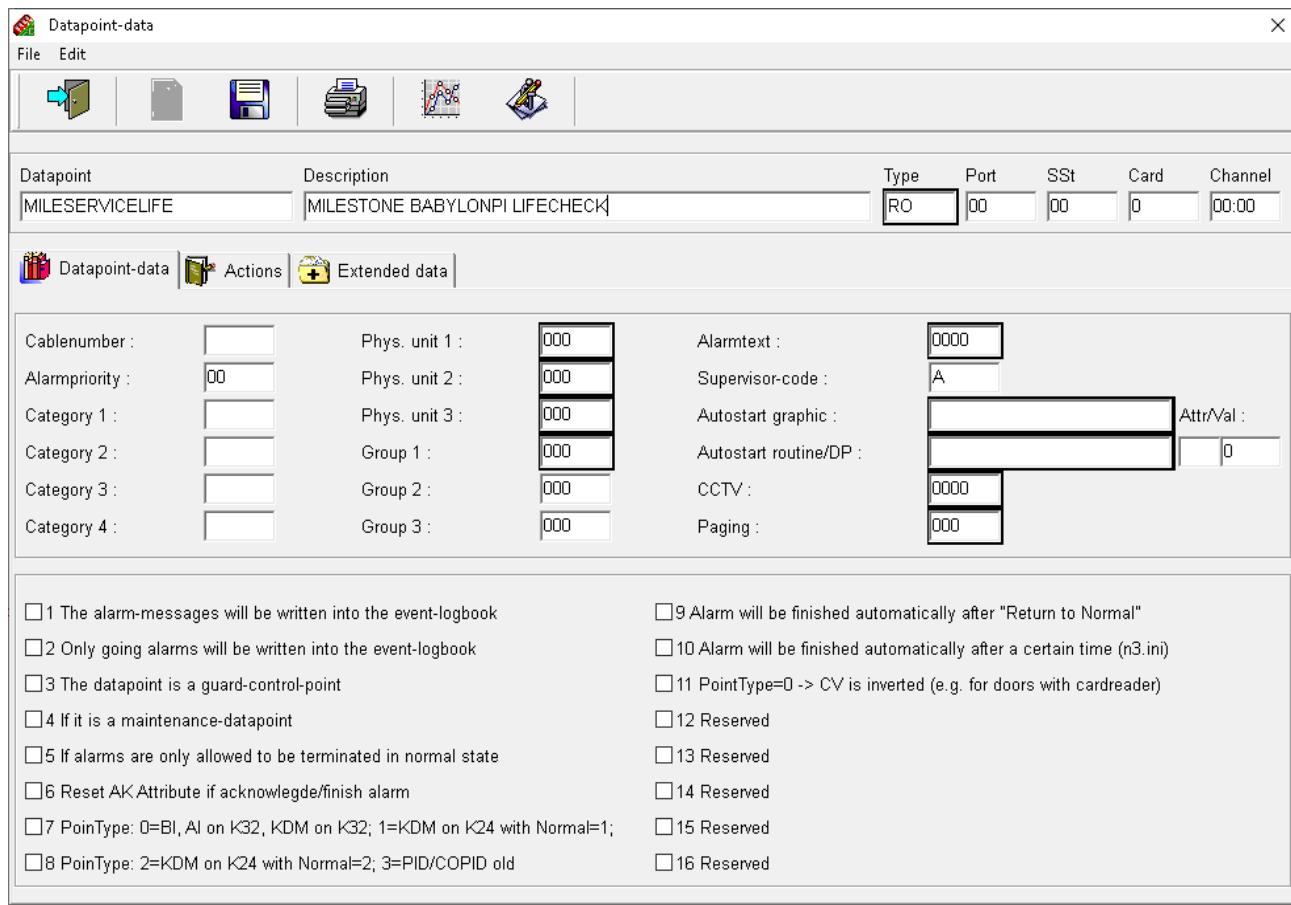
TCP port number optional (0 -> 2300 + UBI-Port):	2315
Identification (max. 8 chars) for Systemlog, Taskdisplay etc.:	MILESTON
Password for encryption and authorization (UBI3 only):	1234
Receive timeout in seconds (0 = 10 seconds):	0
Client X509-Certificate-ID (0..9) if TLS connection:	0
Reserved	
Reserved	
Reserved	

Allowed client IP addresses:

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- Create a Life check datapoint of type "RO"



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2. Install the Babylon service

- Run the installer / setup program supplied

BabylonPI Service Installer.exe

- Edit the “BabMileService.exe.config” file

connection string is the connection to SQL

cfgBabyloServerIPAddress - value is Babylon server IP address

cfgBabylonUBI3Port – value of UBI3 port

cfgBabylonUBIPort – value of port number in W3Port

cfgUBITimeout – value of timeout of communication. Default is “10”

cfgBabylonUBIPassword – value of password for UBI3

cfgLifeckeckDatapoint – value of Life check datapoint in Babylon

cfgLifecheckAttribute – value of attribute to do the life check on. Default is “\$A”

cfgMilestoneTCPIPAddressAndPort -value of the IP ADDRESS and PORT of the Babylon server – DO NOT USE “127.0.0.1”. Format is (IPAddress:Port) e.g., 192.168.1.114:4567

cfgDebugOnOff – value of “0” switches debugging OFF, value of “1” switches debugging ON

```

<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <configSections>
    </configSections>
  <connectionStrings>
    <add name="BabMileService.Properties.Settings.MilestoneConnectionString"
      connectionString="Server=WAYNEC-NOTEBOOK\SQLEXPRESS;Database=MilestoneBabylon;User=Milestone;Password=123"
      providerName="System.Data.SqlClient" />
  </connectionStrings>
  <appSettings>
    <!--Babylon Connection strings-->
    <add key="cfgBabyloServerIPAddress" value="127.0.0.1" />
    <add key="cfgBabyloUBI3Port" value="2315" />
    <add key="cfgBabyloUBIPort" value="13" />
    <add key="cfgUBITimeout" value="10" />
    <add key="cfgBabyloUBIPassword" value="1234" />
    <!--Babylon Life check datapoint and attribute-->
    <add key="cfgLifeckeckDatapoint" value="MILESTONELIFE" />
    <add key="cfgLifecheckAttribute" value="58" />
    <!--Milestone Server TCP Address i.e. ("192.168.1.114:4567")-->
    <add key="cfgMilestoneTCPIPAddressAndPort" value="192.168.1.114:4567" />
    <!--See debug "1==ON , 0==OFF"-->
    <add key="cfgDebugOnOff" value="0" />
    <!--Path to debug file"-->
  </appSettings>
  <startup>
    <supportedRuntime version=".NETFramework,Version=v4.7.2" />
  </startup>
  <runtime>
    <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
      <dependentAssembly>
        <assemblyIdentity name="Serilog.Sinks.Console" publicKeyToken="24c2f752a8e5ba10" culture="neutral" />
        <bindingRedirect oldVersion="0.0.0.0-4.0.0.0" newVersion="4.0.0.0" />
      </dependentAssembly>
      <dependentAssembly>
        <assemblyIdentity name="System.Memory" publicKeyToken="cc7b1ffcd2ddd1" culture="neutral" />
        <bindingRedirect oldVersion="0.0.0.0-4.0.1.1" newVersion="4.0.1.1" />
      </dependentAssembly>
    </assemblyBinding>
  </runtime>
</configuration>

```

- Save and close the configuration file

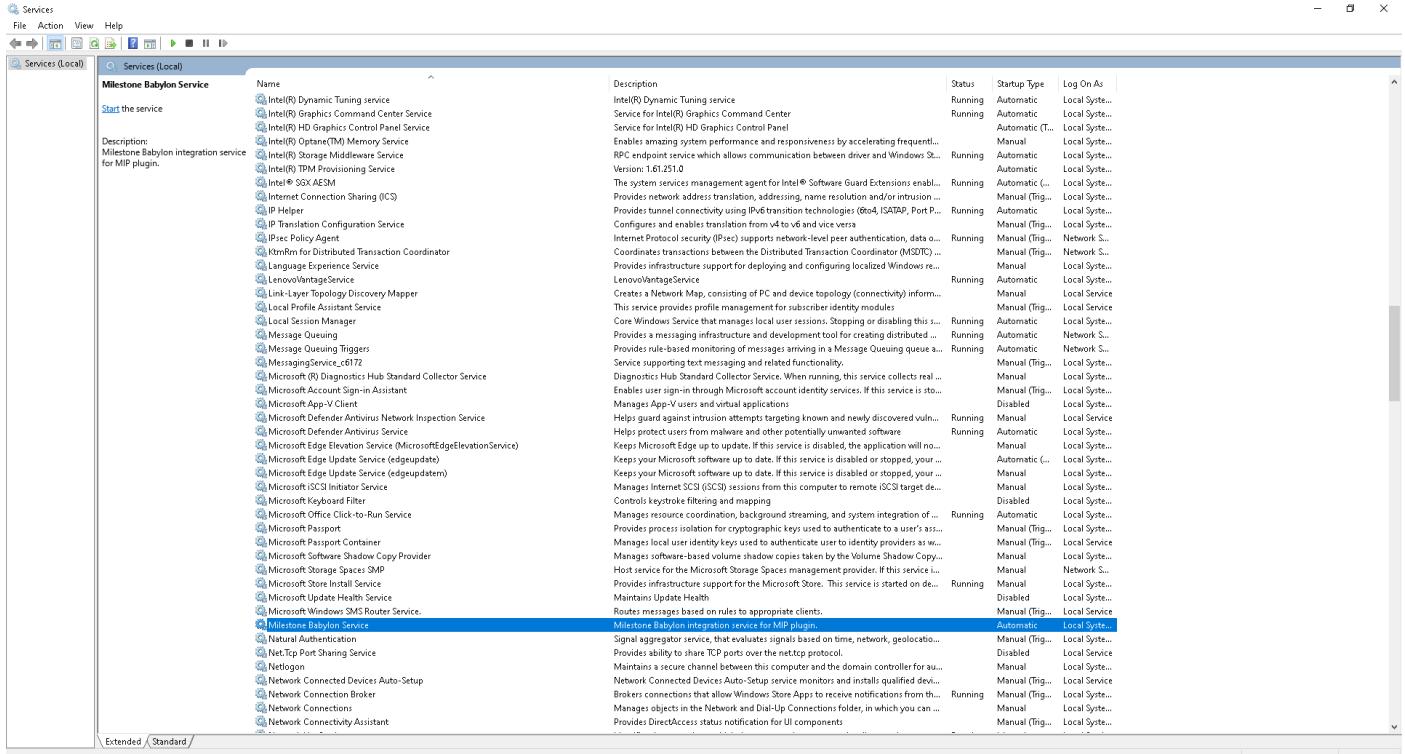
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- Navigate to services and verify the service is in the list of services

Note:

The service name is **Milestone Babylon Service**



3. SQL

- Attach the supplied SQL “MilestoneBabylon” database to a SQL instance on the site which can be accessed from the Babylon server and the Milestone server
- Create a user who has rights to the database and tables in SQL management studio

4. Installing the Plugin on the Milestone server

- Run the installer / setup program supplied

BabylonPI Installer.exe

- Do not change the installation path or folder as Milestone requires any plugin to be installed in the "C:\Program Files\Milestone\MIPPlugins\" directory
- Enter the supplied license key when prompted to do so

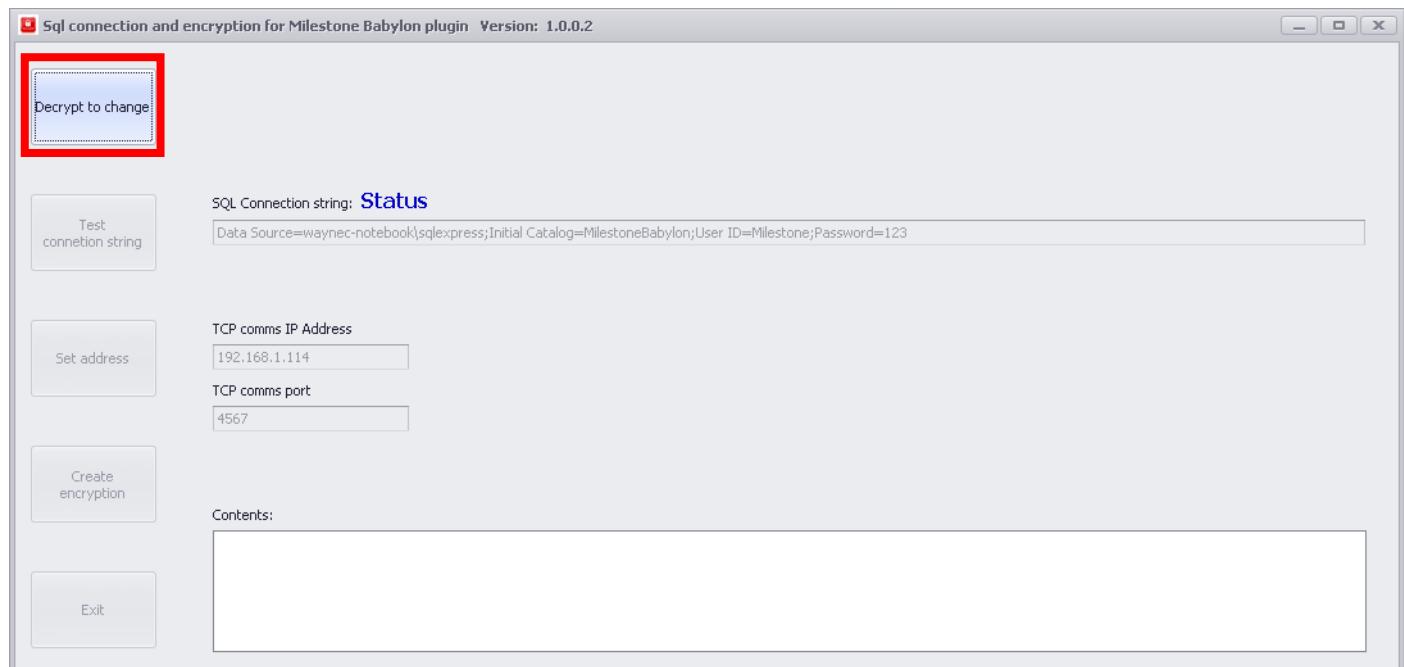
5. Encryption software

Run the Encryption Software as Administrator located in the “C:\Program Files\Milestone\MIPPlugins\BabylonPI\Encryption and SQL Test Software” folder

Note:

The software must be run as Administrator for the encryption to function correctly

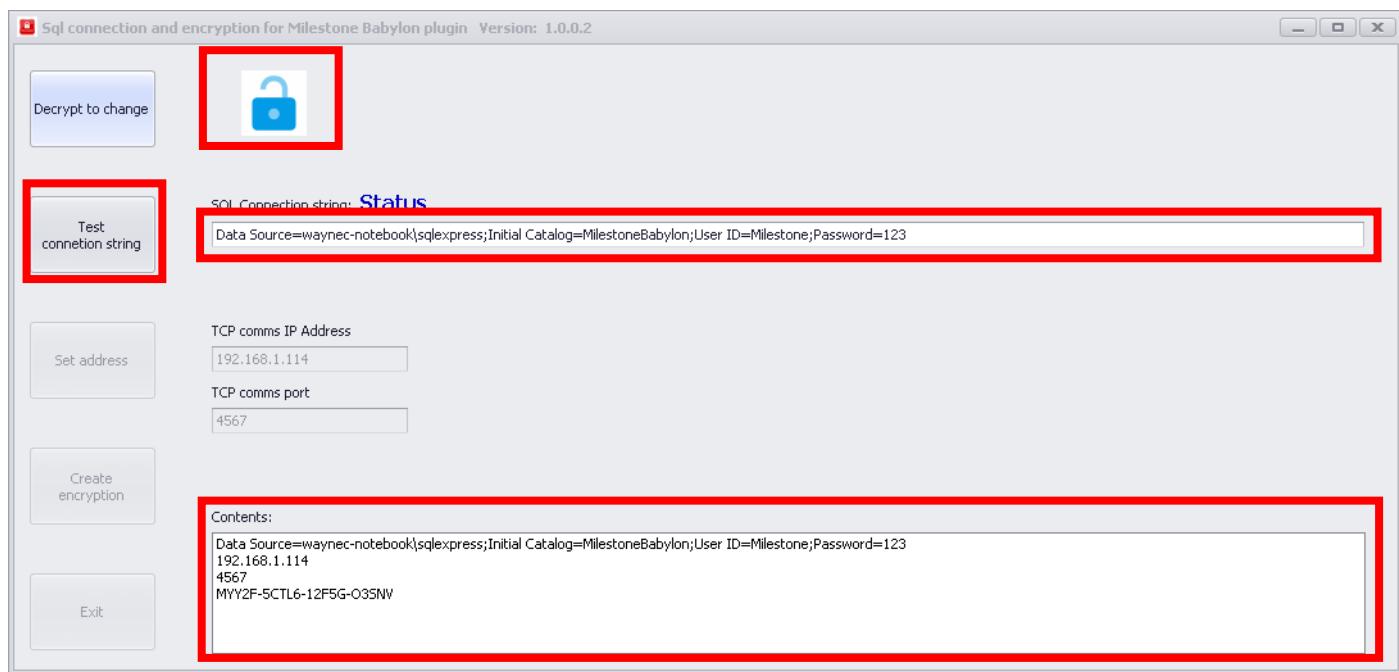
Select the Decrypt to change button



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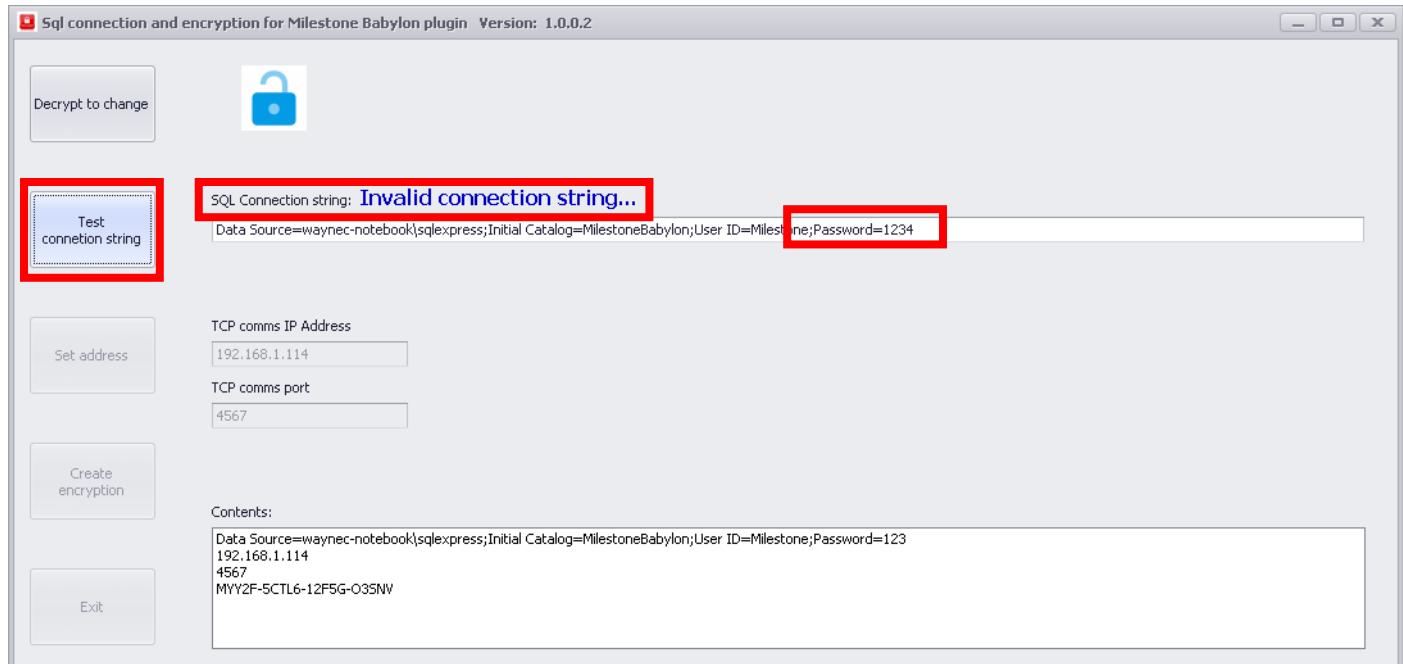
Installation guide

- The Test connection string will be enabled
- The unlocked image will appear on successful decryption
- The SQL Connection string text box will be enabled to allow for editing the connection string to the “MilestoneBabylon” database
- The Contents information box should show three or four lines:
- The current connection string to SQL
- The current IP address of the Babylon server
- The current TCP port used to communicate with the Babylon server
- The current license issued for the site (Line 4)



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- Selecting the Test connection string button will verify the connection to the SQL database
- The Status label will display either a “Valid connection string...” or “Invalid connection string...”
- If an invalid connection string is entered, in this case the Password should be 123 *not* 1234

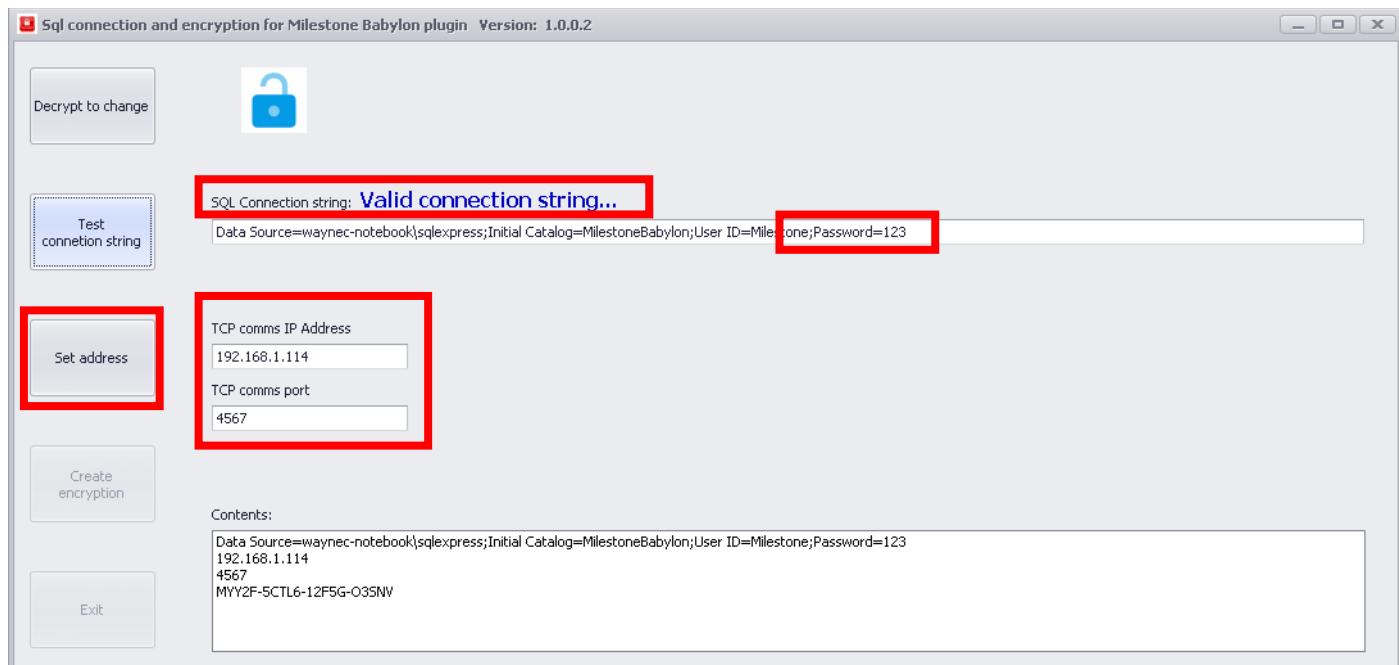


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- Upon the SQL connection string being valid
- The Status label will display either a “Valid connection string...”, in this case the Password is valid i.e., 123
- The Set address button will be enabled and the TCP comms IP Address text box will be enabled for editing
- The TCP comms port text box will be enabled for editing

Note:

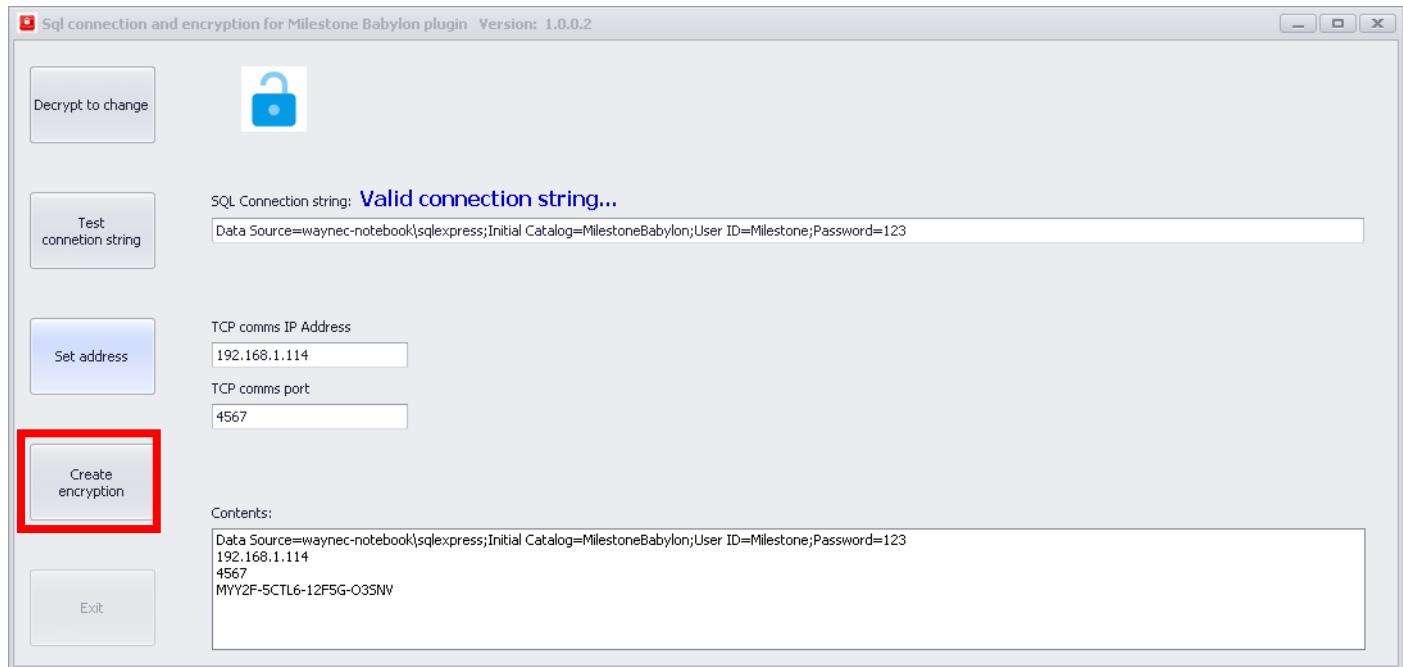
The TCP comms IP Address and the TCP comms port is the connection for the Babylon server communications



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- When the Set address button is selected
- The Create encryption button is enabled

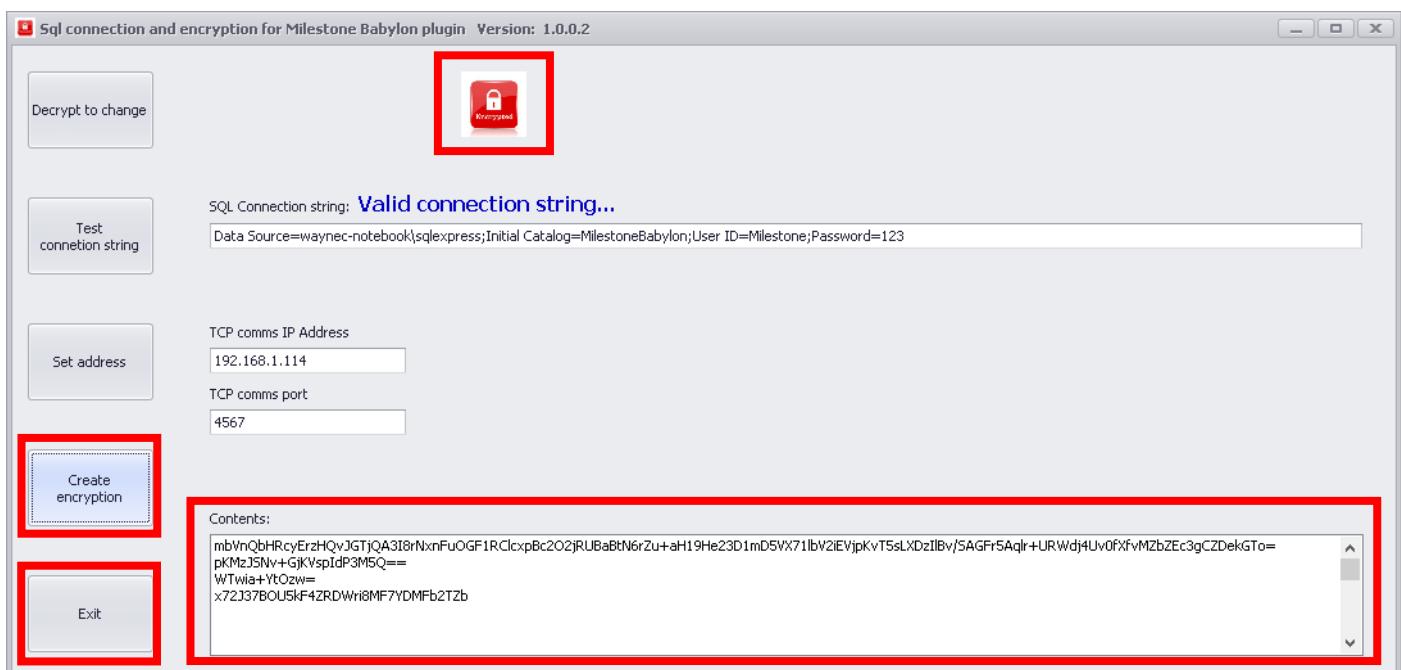


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- Selecting the Create encryption button
- The Lock image will appear on successful encryption
- The Contents information box should show four lines that are encrypted:
- The connection string to SQL
- The IP address of the Babylon server
- The TCP port used to communicate with the Babylon server
- The license issued for the site
- The Exit button will be enabled to close the application

Note:

The Decrypt button can be selected again to verify the contents

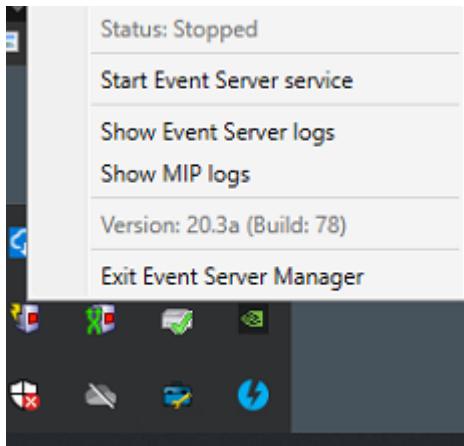


!!!! IMPORTANT !!!!

ON COMPLETION OF THE ENCRYPTION PROCESS TECHNICIAN TO REMOVE THE SOFTWARE FROM SITE TO RESTRICT REUSE ON OTHER SITES

6. Completion

- Start or restart the Milestone Event Server Service
 - Validate the installation success by right clicking on the Event Server icon in the task tray and selecting Show MIP logs



- Observe the logs carefully
 - On successful installation of the plugin the plugin should have the following displayed in the log

```
PrepareForSend     Checksum payload : vZNre7BbClYha0IEKyZNG6GOGF0=
MoveNext          [12000]OK
ResetTimerInternal  CUDA Sender: resetting timer internal
ConfigurationChangedCheck  Sending ConfigurationChangedIndication for Kind:Analytics Events
ConfigurationChangedCheck  Sending ConfigurationChangedIndication for Kind:Access Control Server
ConfigurationChangedCheck  Sending ConfigurationChangedIndication for Kind:Output1
ConfigurationChangedCheck  Sending ConfigurationChangedIndication for Kind:Output2
ConfigurationChangedCheck  Sending ConfigurationChangedIndication for Kind:Output3
ConfigurationChangedCheck  Sending ConfigurationChangedIndication for Kind:Biometric1
ConfigurationChangedCheck  Sending ConfigurationChangedIndication for Kind:InputsGU
ConfigurationChangedCheck  Sending ConfigurationChangedIndication for Kind:Inputsglocks
ConfigurationChangedCheck  Sending ConfigurationChangedIndication for Kind:InputsdoorMonitors
ConfigurationChangedCheck  Sending ConfigurationChangedIndication for Kind:Items
ConfigurationChangedCheck  Sending ConfigurationChangedIndication for Kind:Output1
ConfigurationChangedCheck  Sending ConfigurationChangedIndication for Kind:Output2
ConfigurationChangedCheck  Sending ConfigurationChangedIndication for Kind:Babylon
Items - Datapoint-- Count from controller configuration change handler in Background plugin 1
Background Plugin   Controller configuration changed
Tcp Message received from Babylon False
Trying to connect  To host 192.168.1.114;
Tcp Client connection error to Babylon service Failed connecting to 192.168.1.114: Exception: No connection could be made because the target machine actively refused it 192.168.1.114:4567
Trying to connect  To host 192.168.1.114:
Trying to connect  To host 192.168.1.114;
Tcp Client connection error to Babylon service Failed connecting to 192.168.1.114: Exception: No connection could be made because the target machine actively refused it 192.168.1.114:4567
Trying to connect  To host 192.168.1.114;
Tcp Client connection error to Babylon service Failed connecting to 192.168.1.114: Exception: No connection could be made because the target machine actively refused it 192.168.1.114:4567
Trying to connect  To host 192.168.1.114;
Tcp Client connection error to Babylon service Failed connecting to 192.168.1.114: Exception: No connection could be made because the target machine actively refused it 192.168.1.114:4567
ConfigurationChangedDelayThread End delay - Send message
Trying to connect  To host 192.168.1.114;
```

- Start the Babylon service on the Babylon server
 - Observe the logs again after the Babylon service has started
 - The following should be displayed

```
I-08-25 09:59:14.854 UTC+02:00 Info Tcp Client connection error to Babylon service Failed connecting to 192.168.1.114: Exception: No connection could be made because the target machine actively refused it 192.168.1.114:4567  
I-08-25 09:59:25.378 UTC+02:00 Info Trying to connect To host 192.168.1.114:  
I-08-25 09:59:27.427 UTC+02:00 Info Tcp Client connection error to Babylon service Failed connecting to 192.168.1.114: Exception: No connection could be made because the target machine actively refused it 192.168.1.114:4567  
I-08-25 09:59:37.952 UTC+02:00 Info Trying to connect To host 192.168.1.114:  
I-08-25 09:59:40.000 UTC+02:00 Info Tcp Client connection error to Babylon service Failed connecting to 192.168.1.114: Exception: No connection could be made because the target machine actively refused it 192.168.1.114:4567  
I-08-25 09:59:50.528 UTC+02:00 Info Trying to connect To host 192.168.1.114:  
I-08-25 09:59:52.570 UTC+02:00 Info Tcp Client connection error to Babylon service Failed connecting to 192.168.1.114: Exception: No connection could be made because the target machine actively refused it 192.168.1.114:4567  
I-08-25 10:00:03.998 UTC+02:00 Info Trying to connect To host 192.168.1.114:  
I-08-25 10:00:05.149 UTC+02:00 Info Tcp Client connection error to Babylon service Failed connecting to 192.168.1.114: Exception: No connection could be made because the target machine actively refused it 192.168.1.114:4567  
I-08-25 10:00:17.212 UTC+02:00 Info Babylon Tcp Connected 192.168.1.114:4567
```

Congratulations... The installation is successful!!!