Application Configurations

1. General parameters

Logging level
The logging level defines the amount of logging done by the application. Each event that can be logged has a priority. The logging level defines which events will be added to the log file.

Logging levels listed in order of increasing amount of information logged:

- OFF
- FATAL
- ERROR
- WARN
- INFO
- DEBUG
- ALL

The default value is WARN and it can be changed to other logging levels in two lines of the given configuration file (see examples below).

The location of the configuration files are described in the sections below. Additional configuration files of Produmex WMS can be found in C:\Program Files\Produmex\Produmex Tools, e.g.:

- Produmex.Sbo.Logex.Tools.UpdateDatabaseTool.exe
- Produmex.Sbo.Logex.Tools.SalesDeliveryTool.exe

The configuration files are XML text files, they can be edited with a text editor (Notepad).

Examples:

Add-On Loader



Fat Client



ScaleCommService



Notification Listener



2. Add-On

The configuration file of the add-on loader will be used. The configuration file for the add-on loader

application is located in the folder of the Add-On Loader.

Example of 64-bit SAP client:

C:\Program Files\SAP\SAP Business One\AddOns\PMX\Produmex AddOnLoader 20
The file name is *Produmex.Foundation.Sbo.AddOnLoader.exe.config*

Example of 32-bit SAP client:

C:\Program Files(x86)\SAP\SAP Business One\AddOns\PMX\Produmex AddOnLoader 20
The file name is *Produmex.Foundation.Sbo.AddOnLoader.exe.config*



TransactionIsolation

Defines the isolation level. For more information see: IsolationLevelEnumeration
Default value: ReadCommitted

TransactionTimeout
Sets the wait time before terminating the attempt to commit the transaction. The value is in *hour:minute:second* format.
Default value: 00:10:00

CommandTimeout
Sets the wait time before terminating the attempt to execute an SQL command and generating an error. The value is in seconds.
Default value: 30

NumberOfRetriesDeadlock
Specifies the amount of times the application will try to book the same transaction again, when it fails due to specific error types like deadlock, timeout, uncommittable transaction or -2038 SBO error code.
Default value: 3

LogDocumentAsXML
If set to true, data sent to the SAP DI API to generate documents will be exported to the log file in xml format.
Default value: false

In order to export documents to the log file, the 'INFO' level logging is required. Change all 'WARN' levels to 'INFO' in the configuration file.

DebugLocalization
If set to true, localization will be logged on Debug level logging.
Default value: false

DebugLicenseServerClientComm
If set to true, the License Server Client communication (Tx/Rx messages) will be logged on Debug level logging.
Default value: false

Log File configuration

The relative path of the log file is configured in the config file in the line below:

<file value=".\Log\AddOnLoader.${USERDOMAIN}.${USERNAME}.${SESSIONNAME}.txt" />

All the log files to all of the components of WMS are saved into one common directory from version 2023.06.00 (users are notified at update)

The new location to the log files is:

%ProgramData%\Boyum IT\WMS

For older versions, the path of the log file is:

c:\Program Files\SAP\SAP Business One\AddOns\PMX\Produmex Add-On Loader 20\Log\

3. Fat Client

The configuration file for the fat client application is located in the installation folder of the fat client, for example: *C:\Program Files\Produmex\Produmex Fat Client*
The file name is *Produmex.Sbo.Logex.Execute.FatClient.exe.config*



TransactionIsolation
Defines the isolation level. For more information please see: IsolationLevelEnumeration
Default value: ReadCommitted

TransactionTimeout
Sets the wait time before terminating the attempt to commit the transaction. The value is in *hour:minute:second* format.
Default value: 00:10:00

CommandTimeout
Sets the wait time before terminating the attempt to execute an SQL command and generating an error. The value is in seconds.
Default value: 30

NumberOfRetriesDeadlock
Specifies the amount of times the application will try to book the same transaction again, when it fails due to specific error types like deadlock, timeout, uncommittable transaction or -2038 SBO error code.
Default value: 3

LogDocumentAsXML
If set to true, data sent to the SAP DI API to generate documents will be exported to the log file in xml format.
Default value: false

In order to export documents to the log file, the 'INFO' level logging is required. Change all 'WARN' levels to 'INFO' in the configuration file.

DebugLocalization
If set to true, localization will be logged on Debug level logging.
Default value: false

DebugLicenseServerClientComm
If set to true, the License Server Client communication (Tx/Rx messages) will be logged on Debug level logging.
Default value: false

Produmex.ScriptAssembliesPath
Specifies the path to the script assemblies.
Default path: C:\Produmex\ScriptAssemblies\

Produmex.TempSAPReportPath
Specifies the path to the folder where reports that are retrieved from SAP Business One directly, are stored temporary during the printing.
Default path: C:\Produmex\Reports\TempSAPReports\

Produmex.Error.BackColor
Determines the background color of the error messages. For the supported values please see: Color.FromName Method (String)
Default value: DarkOrange

Produmex.Message.BackColor
Determines the background color of the information messages. For the supported values please see: Color.FromName Method (String)
Default value: WhiteSmoke

Produmex.Screen.Menu.BackColor
Determines the menu background color. For the supported values please see: Color.FromName Method (String)
Default value: LightSteelBlue

Produmex.DI_API.Language
Defines the DI API language.
Supported values: language codes (You can find the language codes in the OLNG table).
Default value: EN

Produmex.Barcode.UseAltModeForBarcode
Defines whether Produmex reads scanned barcode digits as they were keyed in ALT mode or not. Set this option to true if the ALT mode is enabled on the scanning device.
Default value: false

Produmex.Barcode.ParseCode128AsGS1
If set to 'True', every Code 128 barcode will be parsed as a GS1-128 barcode.
Default value: false

Produmex.Grid.NavigationByPage
Defines the grid navigation type.
If set to True, the list/grid will navigate by page.
If set to False, the list/grid will navigate by element.

Produmex.Screen.IEnterItemQuantityCombinedScreen.MaxNumberOfButtons

Specifies the maximum number of the component buttons on the 'Enter the quantity disassembled' screen in the Disassembly-weight flow. If there are more components than the value set, component buttons will be displayed on multiple screens. Left and right buttons will be added for navigation.

Supported values: n*n, n*(n+1), n*(n+2) where n=positive integer
Default value: 49 (7*7)

SearchForOnlyPicklistNumberOnSelectPicklistScreens
When set to 'True', it forces the client to search only for picklist numbers.

Default value: False

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <configSections>
    <section name="log4net" type="System.Configuration.IgnoreSectionHandler" />
  </configSections>
  <!--
  *** Transaction options configuration  ***
  * Adding the following keys to the appSettings section in the App.config file will configure the transaction options
    <appSettings>
      <add key="TransactionIsolation" value="ReadCommitted" />    // A value of System.Transactions.IsolationLevel (Serializable/Reac
      <add key="TransactionTimeout" value="00:10:00" />           // Time-out in hh:mm:ss format
    </appSettings>
  * Also you can set the maximum timeout in these files:
    C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\CONFIG\machine.config
    C:\WINDOWS\Microsoft.NET\Framework64\v2.0.50727\CONFIG\machine.config
    C:\WINDOWS\Microsoft.NET\Framework\v4.0.30319\CONFIG\machine.config
    C:\WINDOWS\Microsoft.NET\Framework64\v4.0.30319\CONFIG\machine.config
    By default this timeout is 10 minutes. If you want to override this timeout you have to add the following to the machine.config i
    the configuration section:
        <system.transactions>
          <machineSettings maxTimeout="00:59:00" />
        </system.transactions>
  -->
  <appSettings>
    <add key="TransactionIsolation" value="ReadCommitted" />
    <add key="TransactionTimeout" value="00:10:00" />
    <add key="CommandTimeout" value="30" />
    <add key="Produmex.ScriptAssembliesPath" value="C:\Produmex\ScriptAssemblies\" />
    <add key="Produmex.TempSAPReportPath" value="C:\Produmex\Reports\TempSAPReports\" />
    <add key="Produmex.Error.BackColor" value="DarkOrange" />
    <add key="Produmex.Message.BackColor" value="WhiteSmoke" />
    <add key="Produmex.Screen.Menu.BackColor" value="LightSteelBlue" />
    <add key="Produmex.DI_API.Language" value="EN" />
    <add key="CmdLine.RECEP" value="/f- /s- /w:240 /h:320 /a:Produmex.Foundation.SlimScreen.WinGui.PocketSize /i:TC_RECEP" />
    <add key="CmdLine.PROD" value="/f- /s- /w:1024 /h:768 /a:Produmex.Foundation.SlimScreen.WinGui.TouchScreen /i:TC_PROD" />
    <add key="Produmex.Barcode.UseAltModeForBarcode" value="false" />
    <add key="Produmex.Barcode.ParseCode128AsGS1" value="false" />
    <add key="Produmex.Grid.NavigationByPage" value="true" />
    <add key="LogDocumentAsXML" value="true" />
    <add key="SearchForOnlyPicklistNumberOnSelectPicklistScreens" value="true" />
    <add key="Produmex.Screen.IEnterItemQuantityCombinedScreen.MaxNumberOfButtons" value="49" />
```

Log File configuration
The path of the log file is configured in the config file in the line below:

<file value="c:\ProgramData\Boyum IT\WMS\Produmex.Sbo.Logex.Execute.FatClient.exe.${USERDOMAIN}.${USERNAME}.${SESSIONNAME}.log" />

All the log files to all of the components of WMS are saved into one common directory from version 2023.06.00 (users are notified at update)

The new location to the log files is:

%ProgramData%\Boyum IT\WMS

For older versions, the path of the log file is:

c:\Produmex\Log\

MemoryCleanerFrequencyInSeconds
The Memory Cleaner execution frequency in seconds.

- If the value is positive, it will be used as the frequency in seconds.
- If the value is 0, the default frequency will be used.
- If the value is negative, the Memory Cleaner will be disabled.

Default value: 10

4. ScaleComm Service

The configuration file for the ScaleComm service is located in the installation folder of the ScaleComm service, for example: *C:\Program Files\Produmex\ProdumexScaneComm*
The file name is *Produmex.Sbo.Logex.ScaleComm.Service.exe.config*

TransactionIsolation
Defines the isolation level. For more information please see: IsolationLevelEnumeration
Default value: ReadCommitted

TransactionTimeout
Sets the wait time before terminating the attempt to commit the transaction. The value is in *hour:minute:second* format.
Default value: 00:10:00

Mode
Specifies the communication mode of the ScaleComm Service. Possible values:

- SBO: Obsolete communication mode. Scales will be identified based on the InstanceID.
- WSBO: New communication mode. Scales will be identified based on the ScalesCodes. In order to use Produmex Weigh, the mode must be WSBO.

Default value = WSBO

Instance ID
The instance ID of the scale defined in the Scale definition (PMX_SCLD) table. Please note: The Instance ID will only be taken into account if the Mode is ‘SBO’.
Default value = Instance 1

ScalesCodes
The scale code defined in the Produmex Organizational Structure. To add multiple scales, separate the scale codes by comma.

Skip Polling
Specifies whether to automatically fill the Scale weight result UDT with the measured weight.

- If set to ’False’ the Scale weight result UDT will be automatically filled with the weight.
- If set to ’True’ the Scale weight result UDT will not be filled automatically.

Default value = False

Please note: When using the SBO mode, the Scale weight result UDT will not be filled regardless of this setting.
The values saved in the Scale weight result UDT are not used in the standard Produmex WMS processes. However these values can be used to easily integrate the Produmex WMS scale integration to other systems. (You can find an integration example with PDC here.)

Polling Interval
Defines the polling frequency. The value is in milliseconds.
Default value = 1500

All the log files to all of the components of WMS are saved into one common directory from version 2023.06.00 (users are notified at update)

The new location to the log files is:

%ProgramData%\Boyum IT\WMS

5. Notification Listener Tool

The configuration file for the Notification Listener tool is located in the installation folder of the Notification Listener, for example: // C:\Program Files\Produmex\Produmex SB1 Notification Listener (SboConnectionString)//
The file name is *Produmex.Foundation.SboNotification.ServiceHost.exe.config*



TransactionIsolation
Defines the isolation level. For more information please see: IsolationLevelEnumeration
Default value: ReadCommitted

TransactionTimeout
Sets the wait time before terminating the attempt to commit the transaction. The value is in *hour:minute:second* format.
Default value: 00:10:00

FrequencyMiliseconds
Defines the run frequency of the Notification Listener tool. The value is in milliseconds.
Default value: 5000

All the log files to all of the components of WMS are saved into one common directory from version 2023.06.00 (users are notified at update)

The new location to the log files is:

%ProgramData%\Boyum IT\WMS

6. How to configure logging into database in the config file

This document describes how to set additional logging into a database/schema by modifying the configuration file.

It is possible to insert the logs into an UDT in the given database or into a manually created table in a separate database.

6.1. Logging into an UDT

6.1.1. Create UDT

First create the user defined table in SAP Business One.

In this example we added a *PMX_LOG* user table.

Then add the following fields to the user table:

field name	field type	field structure	length
Date	Date/Time	Date	-
Thread	Alphanumeric	Text	-
Level	Alphanumeric	Regular	50
Logger	Alphanumeric	Text	-
Message	Alphanumeric	Text	-
Exception	Alphanumeric	Text	-
DomainName	Alphanumeric	Regular	50
UserName	Alphanumeric	Regular	50
SessionName	Alphanumeric	Regular	50

6.1.2. Modify config file

Download an example for the fat client config file from here:

- MSSQL: Produmex.Sbo.Logex.Execute.FatClient.exe_WITH SQL Log_1.config
- HANA: Produmex.Sbo.Logex.Execute.FatClient.exe_WITH HANA Log_1.config

6.1.2.1. Trigger Ado Net Appender

In order to trigger the Ado Net Appender, add the following to the root tag:

```
<appender-ref ref="AdoNetAppender" />
```

Produmex.Sbo.Logex.Execute.FatClient.exe_WITH SQL Log.config

```
154         </appender>
155         <root>
156             <appender-ref ref="RollingLogFileAppender" />
157             <appender-ref ref="AdoNetAppender" />
158         </root>
159     </log4net>
```

If there is no logging level defined in the root tag, then the logging level is the minimum logging level set for the AdoNetAppender.

Produmex.Sbo.Logex.Execute.FatClient.exe_WITH SQL Log.config

```
78      <appender name="AdoNetAppender" type="log4net.Appender.AdoNetAppender">
79          <filter type="log4net.Filter.LevelRangeFilter">
80              <levelMin value="DEBUG" />
81              <levelMax value="FATAL" />
82          </filter>
```

If there is a logging level defined in the root tag, then that logging level is used regardless of the minimum logging level set for the AdoNetAppender.

6.1.2.2. Edit appender tag

Then insert the following before the <root> tag:

MSSQL

```
<appender name="AdoNetAppender" type="log4net.Appender.AdoNetAppender">
    <filter type="log4net.Filter.LevelRangeFilter">
        <levelMin value="DEBUG" />
        <levelMax value="FATAL" />
    </filter>
    <bufferSize value="100" />
    <connectionType value="System.Data.SqlClient.SqlConnection, System.Data,
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" />
    <connectionString value="data source=server;initial
catalog=database;integrated security=false; persist security info=True;User
ID=user;Password=password" />
    <commandText value="NSERT INTO &quot;@PMX_LOG&quot;
(&quot;Code&quot;,&quot;Name&quot;,&quot;U_Date&quot;,&quot;U_Thread&quot;,&
quot;U_Level&quot;,&quot;U_Logger&quot;,&quot;U_Message&quot;,&quot;U_Except
ion&quot;,&quot;U_DomainName&quot;,&quot;U_UserName&quot;,&quot;U_SessionNam
e&quot;) SELECT  NEWID(), NEWID(), @log_date, @thread, @log_level, @logger,
@message, @exception,@DomainName,@UserName,@SessionName" />
    <parameter>
        <parameterName value="@log_date" />
        <dbType value="DateTime" />
        <layout type="log4net.Layout.RawTimeStampLayout" />
```

```
    </parameter>
    <parameter>
        <parameterName value="@thread" />
        <dbType value="String" />
        <size value="4000" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%thread" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@log_level" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%level" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@logger" />
        <dbType value="String" />
        <size value="4000" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%logger" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@message" />
        <dbType value="String" />
        <size value="64000" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%message" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@exception" />
        <dbType value="String" />
        <size value="64000" />
        <layout type="log4net.Layout.ExceptionLayout" />
    </parameter>
    <parameter>
        <parameterName value="@DomainName" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="${USERDOMAIN}" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@UserName" />
        <dbType value="String" />
        <size value="50" />
```

```
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="${USERNAME}" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@SessionName" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="${SESSIONNAME}" />
        </layout>
    </parameter>
</appender>
```

HANA

```
<appender name="AdoNetAppender" type="log4net.Appender.AdoNetAppender">
<bufferSize value="100" />
<connectionType value="System.Data.Odbc.OdbcConnection, System.Data,
Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" />
<connectionString value="Driver=driver;SERVERNODE=server address:port
number;CURRENTSCHEMA=schema;UID=user;PWD=password;" />
<commandText value="INSERT INTO &amp;quot;@PMX_LOG&amp;quot; SELECT SYSUUID,
SYSUUID, ?, ?, ?, ?, ?, ?, ?, ?, ? FROM DUMMY" />
    <parameter>
        <parameterName value="@log_date" />
        <dbType value="DateTime" />
        <layout type="log4net.Layout.RawTimeStampLayout" />
    </parameter>
    <parameter>
        <parameterName value="@thread" />
        <dbType value="String" />
        <size value="4000" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%thread" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@log_level" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%level" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@logger" />
        <dbType value="String" />
        <size value="4000" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%logger" />
```

```
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@message" />
        <dbType value="String" />
        <size value="64000" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%message" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@exception" />
        <dbType value="String" />
        <size value="64000" />
        <layout type="log4net.Layout.ExceptionLayout" />
    </parameter>
    <parameter>
        <parameterName value="@DomainName" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="${USERDOMAIN}" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@UserName" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="${USERNAME}" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@SessionName" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="${SESSIONNAME}" />
        </layout>
    </parameter>
</appender>
```

6.1.2.3. Adjust the log4net connection string

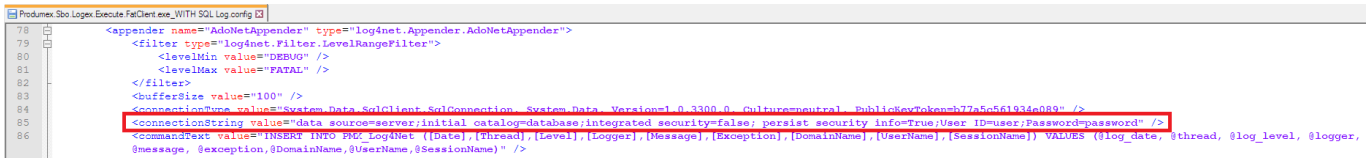
Adjust the dummy connection string in the log4net part to point to your database/schema.

SQL

```
<connectionString value="data source=server;initial
catalog=database;integrated security=false; persist security info=True;User
```

```
ID=user;Password=password" />
```

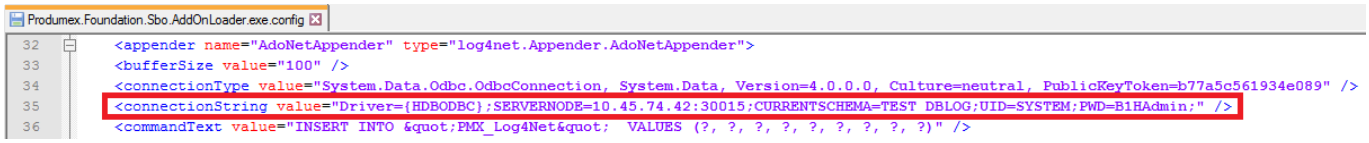
The DATA SOURCE is the server name.
The INITIAL CATALOG is the database where the logging table has been created.
The USER ID is the database user and the PASSWORD is the password of the user.



HANA

```
<connectionString value="Driver=driver;SERVERNODE=server address:port
number;CURRENTSCHEMA=schema;UID=user;PWD=password;" />
```

The DRIVER is {HDBODBC32} on 32 bit environments and {HDBODBC} on 64 bit environments.
The SERVERNODE is the server address and the port number, for example 10.45.74.42:30015.
The CURRENTSCHEMA is the schema where the logging table has been created.
The UID is the database user ID and the PWD is the password of the user.



6.2. Logging into a separate database

6.2.1. Create the log table

First create a new database/schema for the log table. Then run the following query on the database/schema:

MSSQL

```
CREATE TABLE [dbo].[PMX_log] (
[Id] [int] IDENTITY (1, 1) NOT NULL,
[Date] [datetime] NOT NULL,
[Thread] [varchar] (4000) NOT NULL,
[Level] [varchar] (50) NOT NULL,
[Logger] [varchar] (4000) NOT NULL,
[Message] [varchar] (64000) NOT NULL,
[Exception] [varchar] (64000) NULL,
[DomainName] [varchar] (50) NULL,
[UserName] [varchar] (50) NULL,
[SessionName] [varchar] (50) NULL)
```

Where the *PMX_log* is the name of the table where the log entries will be inserted.

HANA

```
CREATE TABLE "schema"."PMX_log " (
    "Date" datetime NOT NULL,
    "Thread" varchar (4000) NOT NULL,
    "Level" varchar (50) NOT NULL,
    "Logger" varchar (4000) NOT NULL,
    "Message" varchar (64000) NOT NULL,
    "Exception" varchar (64000) NULL,
    "DomainName" varchar (50) NULL,
    "UserName" varchar (50) NULL,
    "SessionName" varchar (50) NULL
)
```

Where the *schema* is the new schema and the *PMX_log* is the name of the table where the log entries will be inserted.

6.2.2. Modify config file

Download an example for the fat client config file from here:

- MSSQL: Produmex.Sbo.Logex.Execute.FatClient.exe_WITH SQL Log_2.config
- HANA: Produmex.Sbo.Logex.Execute.FatClient.exe_WITH HANA Log_2.config

6.2.2.1. Edit appender tag

Insert the following before the <root> tag:

```
<appender name="AdoNetAppender" type="log4net.Appender.AdoNetAppender">
    <filter type="log4net.Filter.LevelRangeFilter">
        <levelMin value="DEBUG" />
        <levelMax value="FATAL" />
    </filter>
    <bufferSize value="100" />
    <connectionType value="System.Data.SqlClient.SqlConnection, System.Data,
Version=1.0.3300.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" />
    <connectionString value="data source=server;initial
catalog=extra_database;integrated security=false; persist security
info=True;User ID=user;Password=password" />
    <commandText value="INSERT INTO &quot;PMX_Log&quot;
(&quot;Date&quot;,&quot;Thread&quot;,&quot;Level&quot;,&quot;Logger&quot;,&q
uot;Message&quot;,&quot;Exception&quot;,&quot;DomainName&quot;,&quot;UserNam
e&quot;,&quot;SessionName&quot;) VALUES (@log_date, @thread, @log_level,
@logger, @message, @exception,@DomainName,@UserName,@SessionName)" />
    <parameter>
        <parameterName value="@log_date" />
        <dbType value="DateTime" />
        <layout type="log4net.Layout.RawTimeStampLayout" />
```

```
    </parameter>
    <parameter>
        <parameterName value="@thread" />
        <dbType value="String" />
        <size value="4000" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%thread" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@log_level" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%level" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@logger" />
        <dbType value="String" />
        <size value="4000" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%logger" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@message" />
        <dbType value="String" />
        <size value="64000" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%message" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@exception" />
        <dbType value="String" />
        <size value="64000" />
        <layout type="log4net.Layout.ExceptionLayout" />
    </parameter>
    <parameter>
        <parameterName value="@DomainName" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="${USERDOMAIN}" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@UserName" />
        <dbType value="String" />
        <size value="50" />
```

```
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="${USERNAME}" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@SessionName" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="${SESSIONNAME}" />
        </layout>
    </parameter>
</appender>
```

HANA

```
<appender name="AdoNetAppender" type="log4net.Appender.AdoNetAppender">
<bufferSize value="100" />
<connectionType value="System.Data.Odbc.OdbcConnection, System.Data,
Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" />
<connectionString value="Driver=driver;SERVERNODE=server address:port
number;CURRENTSCHEMA=extra_schema;UID=user;PWD=password;" />
<commandText value="INSERT INTO &quot;PMX_Log&quot;  VALUES (?, ?, ?, ?, ?,
?, ?, ?, ?)" />
    <parameter>
        <parameterName value="@log_date" />
        <dbType value="DateTime" />
        <layout type="log4net.Layout.RawTimeStampLayout" />
    </parameter>
    <parameter>
        <parameterName value="@thread" />
        <dbType value="String" />
        <size value="4000" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%thread" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@log_level" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%level" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@logger" />
        <dbType value="String" />
        <size value="4000" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%logger" />
```

```
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@message" />
        <dbType value="String" />
        <size value="64000" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="%message" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@exception" />
        <dbType value="String" />
        <size value="64000" />
        <layout type="log4net.Layout.ExceptionLayout" />
    </parameter>
    <parameter>
        <parameterName value="@DomainName" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="${USERDOMAIN}" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@UserName" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="${USERNAME}" />
        </layout>
    </parameter>
    <parameter>
        <parameterName value="@SessionName" />
        <dbType value="String" />
        <size value="50" />
        <layout type="log4net.Layout.PatternLayout">
            <conversionPattern value="${SESSIONNAME}" />
        </layout>
    </parameter>
</appender>
```

6.2.2.2. Trigger Ado Net Appender

Please see: *10.6.1.2.1. Trigger Ado Net Appender*

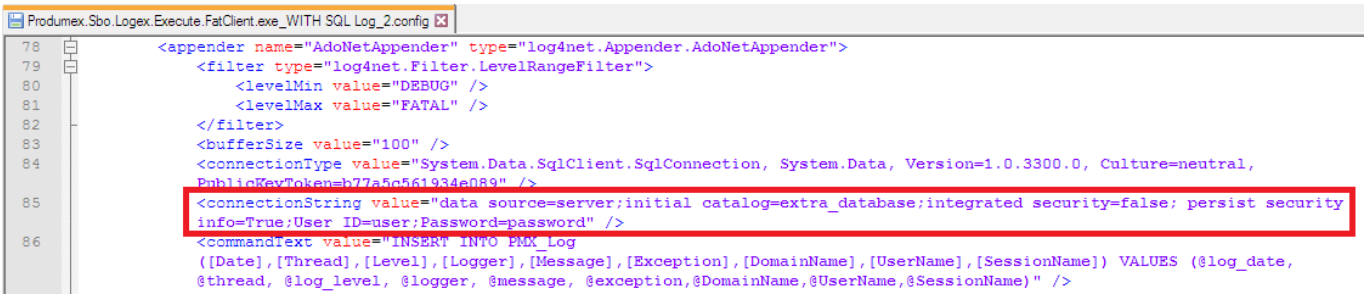
6.2.2.3. Adjust the log4net connection string

Adjust the dummy connection string in the log4net part to point to the extra database/schema where the created log table is located.

SQL

```
 <connectionString value="data source=server;initial
catalog=extra_database;integrated security=false; persist security
info=True;User ID=user;Password=password" />
```

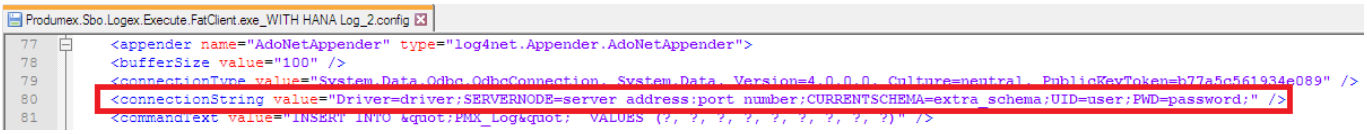
The DATA SOURCE is the server name.
The INITIAL CATALOG is the new database where the log table is located.
The USER ID is the database user and the PASSWORD is the password of the user.



HANA

```
 <connectionString value="Driver=driver;SERVERNODE=server address:port
number;CURRENTSCHEMA=extra_schema;UID=user;PWD=password;" />
```

The DRIVER is {HDBODBC32} on 32 bit environments and {HDBODBC} on 64 bit environments.
The SERVERNODE is the server address and the port number, for example 10.45.74.42:30015.
The CURRENTSCHEMA is the new schema where the log table is located.
The UID is the databse user ID and the PWD is the password of the user.



All the log files to all of the components of WMS are saved into one common directory from version 2023.06.00 (users are notified at update)

The new location to the log files is:

%ProgramData%\Boyum IT\WMS

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Last update: **2023/10/09 10:03**