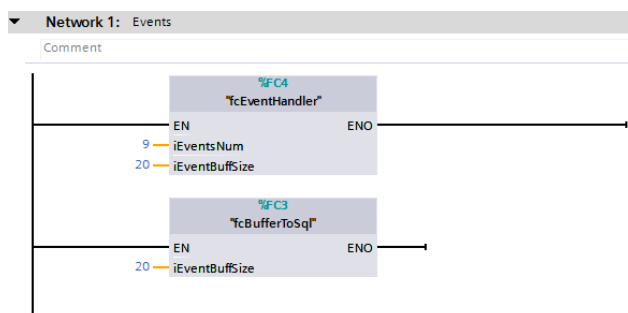


PDSql EventHandler Example 1500

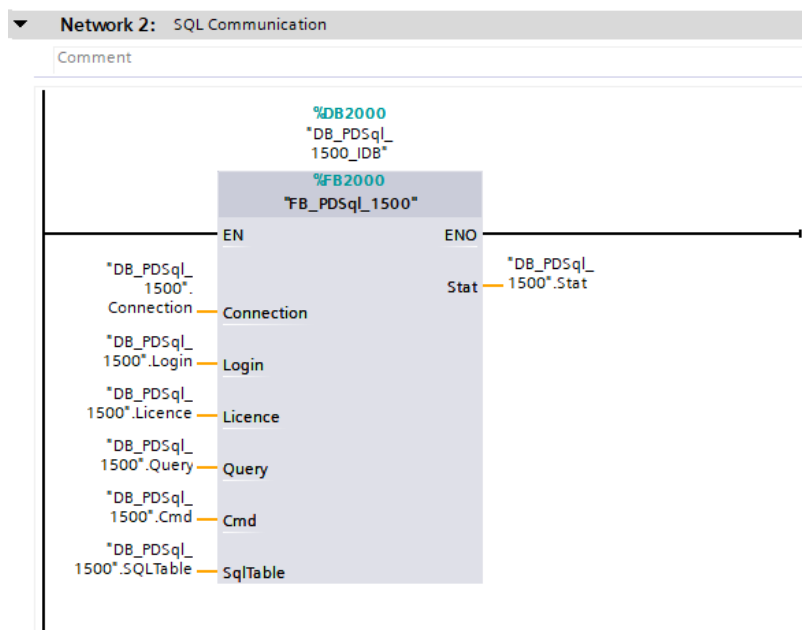
Program data blocks

Main [OB1]

Network 1



Network 2



fcBufferToSql [FC3]

Writes a **record** from the **circular buffer** and deletes it from the buffer after it has been successfully saved to the **SQL database**.

IN: iEventBuffSize Array size of circular buffer defined in **DB_EventBuffer**

fcDTLString [FC19]

Converts a **DTL** data type into a string.

fcEventHandler [FC4]

Detects events and then **triggers** them to be stored in the **buffer**.

IN: iEventNum Array size of events defined in **DB_EventHandler**

IN: iEventBuffSize Array size of circular buffer defined in **DB_EventBuffer**

fcEventToBuffer [FC1]

Writes the event to the buffer.

fcPrepInsertEventToSql [FC2]

Prepares a **SQL comand** string to write an event.

fcRemovePlus[FC18]

Removes the **plus** sign from the string.

FB_PDSql_1500 [FB2000]

DB_PDSql_1500 [DB2010]

DB_PDSql_1500_IDB [DB2000]

PDSql Library, see PDSql Library user guide for details



PDSql_Library_User_Guide_V1.3.8.pdf

DB_EventBuffer [DB1]

Circular buffer for the events.

DB_EventHandler [DB2]

Definition and triggering of all events.

Event definition and triggering

.Trigger

Data type: **BOOL**

Writing an event to the SQL database is triggered by changing "**Trigger**" input from **FALSE** to **TRUE** (rising edge) for the given event.

Trigger variable location for EVENT #1:

`DB_EventHandler.Event[1].Trigger`

.Type

Data type: **String[10]**

The type of event that will be written to the database

Type location for EVENT #1:

`DB_EventHandler.Event[1].sType`

.Description

Data type: **String[80]**

Description of the event that will be written to the database

Description location for EVENT #1:

`DB_EventHandler.Event[1].sDescription`

SQL Database table

EventHistory

Table where all the events will be stored

SQL Statement to create EventHistory table

```
CREATE TABLE [dbo].[EventHistory](
    [Datetime] [datetime] NOT NULL,
    [EventType] [varchar](10) NULL,
    [EventDescription] [varchar](80) NULL,
    [id] [int] IDENTITY(1,1) NOT NULL
) ON [PRIMARY]
```