

FUNCTION_BLOCK DataLoggingContinue

VAR

```
bBufferFinish : BOOL;
bBufferFinish2 : BOOL;
bXMLFinish : BOOL;
write_to_Buffer : write_to_Buffer;
write_to_XML : write_to_XML_Continue;
write_to_XML2 : write_to_XML_Continue;
XMLFileName : T_MaxString;
XMLFileName2 : T_MaxString;
Buffer1 : ARRAY[1..100] OF Datensatz;
Buffer2 : ARRAY[1..100] OF Datensatz;
Buffer : ARRAY[1..100] OF Datensatz;
m: INT :=1;
StopRecordStart: BOOL := TRUE;
DownTrigDetect: F_TRIG;
Name: T_MaxString;
bExecute: BOOL := false;
bXMLFinish2: BOOL;
bExecute2: BOOL := false;
TimestampSYS: TIMESTRUCT;
timeinname: STRING;
```

END_VAR

```
//start the function to get the needed to be recorded values
write_to_Buffer(TimestampSYS=>TimestampSYS,m := m,startrecord :=
TRUE);
```

```
//write first 100 values in Buffer1, second 100 values in buffer2
IF m < 100 THEN
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    //RecordEndTime(EndFlag := TRUE); //when 100
    datensatz are written in buffer, record the end timestamp
```

```
    Buffer1[m] := write_to_Buffer.Datensatz;
```

```
ELSIF m = 100 THEN
```

```
    bBufferFinish :=TRUE;
```

```
    Buffer1[m] := write_to_Buffer.Datensatz;
```

```
    timeinname :=
```

```
    CONCAT(CONCAT(WORD_TO_STRING(TimestampSYS.wYear),'-'),CONCAT(CONC
AT(WORD_TO_STRING(TimestampSYS.wMonth),'-'),CONCAT(CONCAT(WORD_TO
_STRING(TimestampSYS.wDay),'-'),CONCAT(CONCAT(WORD_TO_STRING(Time
stampSYS.wHour),'-'),CONCAT(CONCAT(WORD_TO_STRING(TimestampSYS.wM
inute),'-'),CONCAT(CONCAT(WORD_TO_STRING(TimestampSYS.wSecond),'-
'),WORD_TO_STRING(TimestampSYS.wMilliseconds))))))));
```

```
ELSIF m < 200 THEN
```

```
    Buffer2[m-100] := write_to_Buffer.Datensatz;
```

```
ELSIF m = 200 THEN
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```
    Buffer2[m-100] := write_to_Buffer.Datensatz;
```

```
    bBufferFinish2 :=TRUE;
```

```
    m:=0;
```

```
    timeinname :=
```

```

CONCAT(CONCAT(WORD_TO_STRING(TimestampSYS.wYear),'-'),CONCAT(CONC
AT(WORD_TO_STRING(TimestampSYS.wMonth),'-'),CONCAT(CONCAT(WORD_TO
_STRING(TimestampSYS.wDay),'-'),CONCAT(CONCAT(WORD_TO_STRING(Time
stampSYS.wHour),'-'),CONCAT(CONCAT(WORD_TO_STRING(TimestampSYS.wM
inute),'-'),CONCAT(CONCAT(WORD_TO_STRING(TimestampSYS.wSecond),'-
'),WORD_TO_STRING(TimestampSYS.wMilliseconds))))));
END_IF
m :=m+1;

//give name to xml files
Name:=CONCAT(CONCAT('C:\temp_Yizhen\ ',timeinname),'TEST.xml');
XMLFileName := Name;
XMLFileName2 := Name;
//XMLFileName := 'C:\temp_Yizhen\Test.xml';

//write data from buffer to xml file
write_to_XML(WriteFinishFlag => bXMLFinish,sFilePath :=
XMLFileName,LogInput := Buffer1,bExecute := bExecute);
write_to_XML2(WriteFinishFlag => bXMLFinish2,sFilePath :=
XMLFileName2,LogInput := Buffer2,bExecute := bExecute2);

//reset write to xml function
IF bBufferFinish THEN
    bExecute := TRUE;
END_IF

IF bBufferFinish2 THEN
    bExecute2 := TRUE;
END_IF

IF bXMLFinish THEN
    bExecute := FALSE;
    bBufferFinish :=FALSE;
    bXMLFinish := FALSE;
END_IF

IF bXMLFinish2 THEN
    bExecute2 := FALSE;
    bBufferFinish2 :=FALSE;
    bXMLFinish2 := FALSE;
END_IF

```