

```

////////////////////////////////////
// TcAsyncBufferWritingModule.h
#pragma once

#include "TcIoInterfaces.h"
#include "TcAsyncBufferWritingDrvServices.h"
#include "TcAsyncBufferWritingDrvInterfaces.h"

#include "TcRtInterfaces.h" //to get systime
#include <string>
using namespace std;

#include "TcFileAccessInterfaces.h"
#include "TcFsmFileWriter.h"

#define ASYNCWRITE_ContiBUFFERSIZE 100
#define ASYNCWRITE_EventBUFFERSIZE 20
////////////////////////////////////
// CTcAsyncBufferWritingModule has two buffers for one mode,
// which are filled with current data alternately. The member m_pBufferFill
// points to the current fill buffer. If a buffer is completely filled, then
// the member m_pBufferWrite is set such that it points to the filled buffer.
// This data is written to a file using the TcFsmFileWriter.
class CTcAsyncBufferWritingModule
: public IComObject
, public ITcADI
///<AutoGeneratedContent id="InheritanceList">
, public ITcCyclic
///</AutoGeneratedContent>
{
public:
    DECLARE_IUNKNOWN()
    DECLARE_IPERSIST(CID_TcAsyncBufferWritingDrvCTcAsyncBufferWritingModule)
    DECLARE_ITCOMOBJECT_LOCKOP()
    DECLARE_OBDDATAAREA_MAP()
    DECLARE_ITCADI()

    CTcAsyncBufferWritingModule();

    virtual ~CTcAsyncBufferWritingModule();

///<AutoGeneratedContent id="InterfaceMembers">
    // ITcCyclic
    virtual HRESULT TCOMAPI CycleUpdate(ITcTask* ipTask, ITcUnknown* ipCaller, ULONG_PTR context);

///</AutoGeneratedContent>
    struct st_Buffer //structure of Buffer
    {
        double Timestamp;
        double setRoomT1;
        double setRoomT2;
        double setWaterT;
        double setOutT;
        double watertemp;
        double roomtemp1;
        double roomtemp2;
        double a;
        double b;
        double b2;
    };

protected:
    DECLARE_ITCOMOBJECT_SETSTATE();

    HRESULT AddModuleToCaller();
    VOID RemoveModuleFromCaller();

```

```

///

```