

SCA Developer's Guide

## **APPENDIX C**

### **Header Files for XYZ Waveform Physical Layer**

Generated by Rational Rose for use by OIS OrbExpress.

To enhance readability, some Rose-specific comments have been removed, and spacing has been changed.

```

//## begin module%3C4D8B4700E7.cm preserve=no
//      %X% %Q% %Z% %W%
//## end module%3C4D8B4700E7.cm

#ifndef xyz_phys_partitioned_h
#define xyz_phys_partitioned_h 1

// XYZ Client
#include "XYZ.h"

// CF Server
#include "POA_CF.h"

// XYZ Server
#include "POA_XYZ.h"

// LogService Client
#include "LogService.h"

class XYZ_Physical_Communicate
{
public:
    //## Constructors (generated)
    XYZ_Physical_Communicate();
    XYZ_Physical_Communicate(const XYZ_Physical_Communicate &right);

    //## Destructor (generated)
    ~XYZ_Physical_Communicate();

    //## Assignment Operation (generated)
    XYZ_Physical_Communicate & operator=(const XYZ_Physical_Communicate &right);

    //## Equality Operations (generated)
    int operator==(const XYZ_Physical_Communicate &right) const;
    int operator!=(const XYZ_Physical_Communicate &right) const;

    //## Other Operations (specified)
    static int performAction (long parml, char *parm2);

protected:

private:
};

class XYZ_Physical_Packets :
    public POA_CF::Port,
    public POA_XYZ::POA_XYZ_Physical_RT::UserProvider_Physical_XYZ
{

```

```

public:

//## Constructors (generated)

XYZ_Physical_Packets();

XYZ_Physical_Packets(const XYZ_Physical_Packets &right);

//## Destructor (generated)

~XYZ_Physical_Packets();

//## Other Operations (specified)

void pushPacket (const XYZ::PhysicalRT::NullControlPhys& control,
                 const CORBA_Sequence< CORBA::Octet >& payload,
                 CORBA::Environment& _env);

void signalDetected (CORBA::Boolean signalPresent,
                     CORBA::Environment& _env);

void connectPort (CORBA::Object* connection,
                  const CORBA::Char* connectionId,
                  CORBA::Environment& _env);

void disconnectPort (const CORBA::Char* connectionId,
                     CORBA::Environment& _env);

protected:

private:

// Data Members for Associations

XYZ::XYZ_Physical_RT::UserProvider_Physical_XYZ_var userVar;

LogService::Log_var logVar;

};

class XYZ_Physical_Control : public POA_CF::Port,
                            public POA_CF::Resource,
                            public Control_XYZ_Phys
{
public:

//## Constructors (generated)

XYZ_Physical_Control();

XYZ_Physical_Control(const XYZ_Physical_Control &right);

//## Destructor (generated)

~XYZ_Physical_Control();

```

```

//## Other Operations (specified)

void configure (const CF::Properties& configProperties,
                CORBA::Environment& _env);

void connectPort (CORBA::Object* connection,
                  const CORBA::Char* connectionId,
                  CORBA::Environment& _env);

void disconnectPort (const CORBA::Char* connectionId,
                     CORBA::Environment& _env);

CORBA::Object* getPort (const CORBA::Char* name,
                       CORBA::Environment& _env);

void initialize (CORBA::Environment& _env);

void query (CF::Properties& configProperties,
            CORBA::Environment& _env);

void releaseObject (CORBA::Environment& _env);

void runTest (CORBA::ULong testid,
              CF::Properties& testValues,
              CORBA::Environment& _env);

void setMode (XYZ::PhysicalNRT::ModeType newMode,
              CORBA::Environment& _env);

CORBA::Boolean inhibitTransmit (CORBA::Boolean Inhibit,
                               CORBA::Environment& _env);

protected:

private:
    // Data Members for Class Attributes

    long agcSquelch;

    long noiseSquelch;

    long frequency;

    long txnSpeed;

    long powerLevel;

    // Data Members for Associations

    XYZ_Physical_Packets *packPtr;

    LogService::Log_var logVar;

};

#endif

```