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Category	Symbian C++	Subcategory	Local connectivity, USB

Keywords (APIs, classes, methods, functions):

Overview

Serial communication over USB on S60 3rd Edition devices

Description

The RComm API can be used to transfer data over USB serial connection. On S60 3rd Edition, loading of physical (PDD) and logical (LDD) device drivers is not required. Only the CSY module ECACM should be loaded.

The port name available for USB communication is usually "ACM::1". Some devices may support multiple ACM ports. The first port (ACM::0) is reserved for fax/modem process, but ACM::1 and onwards can be used in other applications.

A simplified example for initializing the serial port:

```

_LIT(CSYMOD, "ECACM");
_LIT(KACMPort1, "ACM::1");
// RComm is a client to the RCommServ Comms server
// Start this service before any connections are made.
TInt ret = StartC32();
if ( ret != KErrNone && ret != KErrAlreadyExists )
{
    User::Leave ( ret );
}
// Connect to CommServer
RCommServ server;
User::LeaveIfError( server.Connect() );
// Load CSY Module
User::LeaveIfError( server.LoadCommModule( CSYMOD ) );
TBuf16<KMaxPortName> portName;
portName.Copy( KACMPort1 );
// Open the comm. port
RComm commPort;

```

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```
User::LeaveIfError( commPort.Open( server, portName, ECommShared ) );
// Verify capabilities of the port and configure it
TCommCaps portCaps;
commPort.Caps( portCaps );
if (((portCaps().iRate & KCapsBps115200) == 0) |
    ((portCaps().iDataBits & KCapsData8) == 0) |
    ((portCaps().iStopBits & KCapsStop1) == 0) |
    ((portCaps().iParity & KCapsParityNone) == 0))
{
    User::Leave( KErrNotSupported );
}
TCommConfig portCfg;
commPort.Config( portCfg );
portCfg().iRate = EBps115200;
portCfg().iParity = EParityNone;
portCfg().iDataBits = EData8;
portCfg().iStopBits = EStop1;
portCfg().iHandshake = 0;
User::LeaveIfError( commPort.SetConfig( portCfg ) );
```

After this you can read from and write to the port. An application listening to the port should be running on the host (PC).