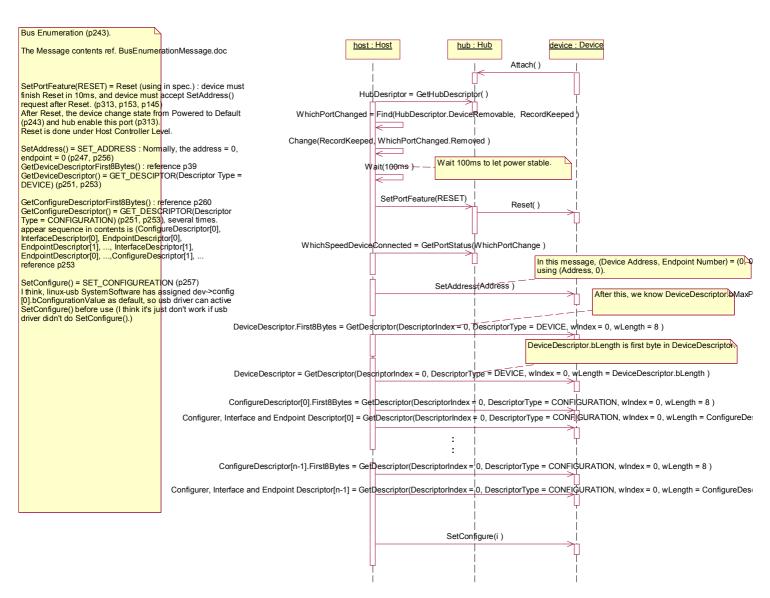
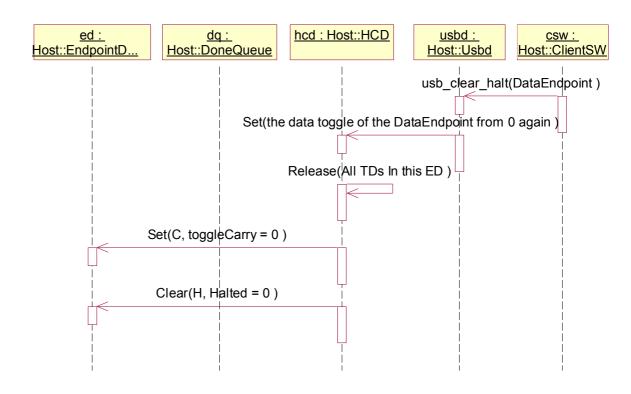


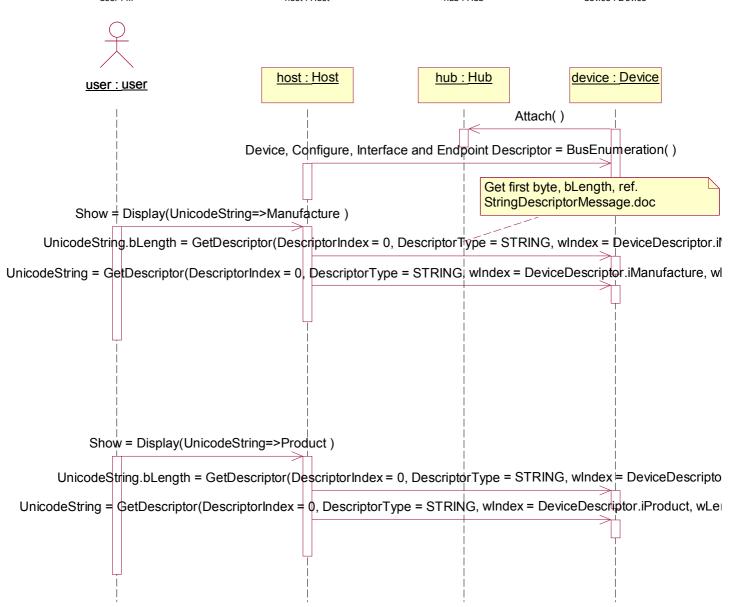
host : Host hub : Hub device : Device

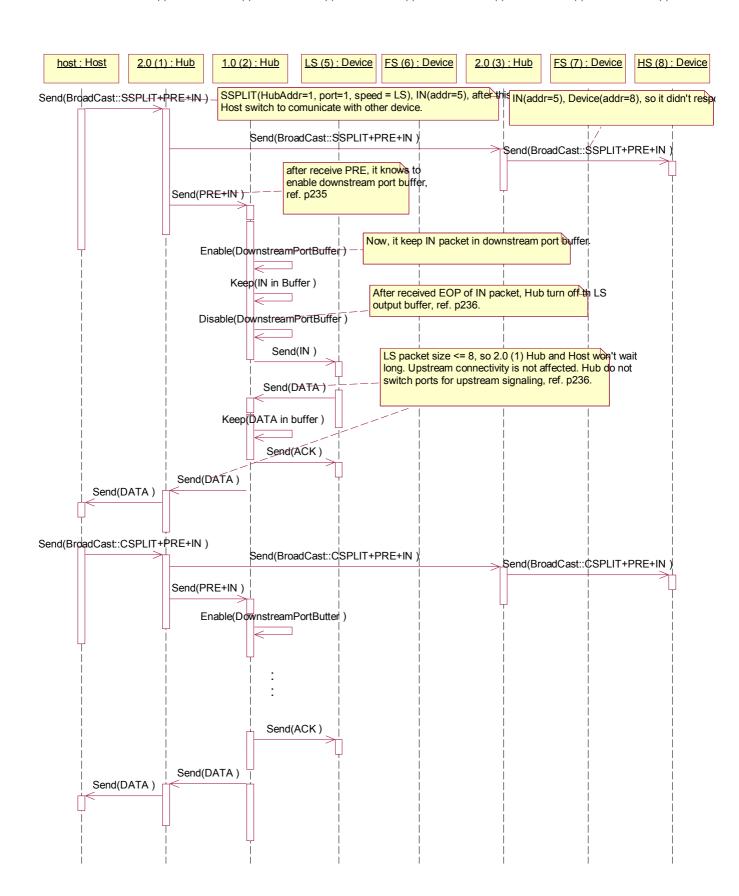




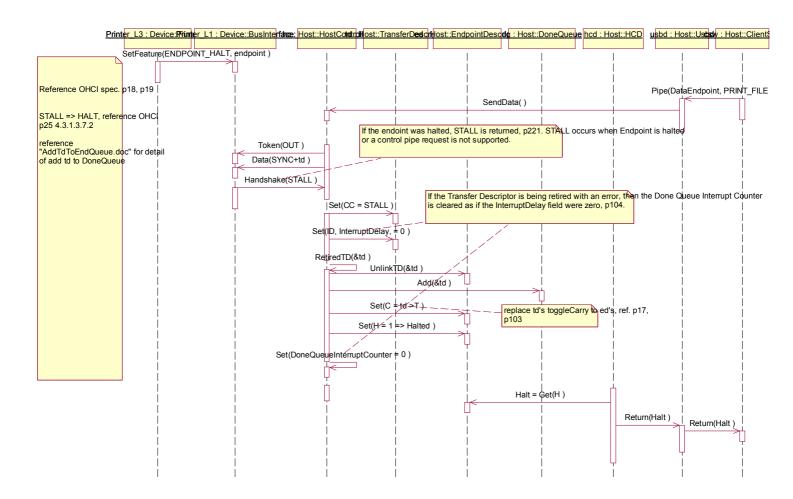


user:... host: Host hub: Hub device: Device



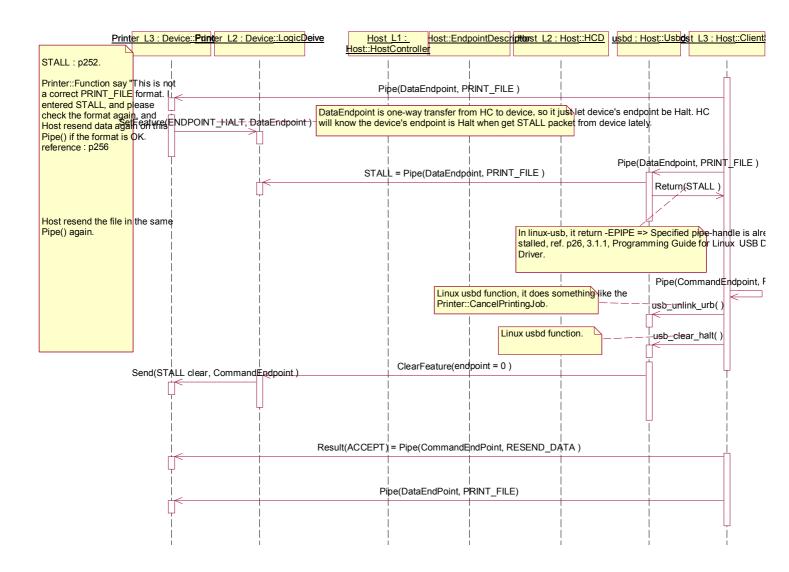


File: F:\tgi0976-01\backup_on_rw\rw1\abocom_work\usb_mdl\usb.mdl 下午 01:46:25 2008年7月19日 Sequence Diagram: Hub::AdjustSpeed / Example_AdjustSpeed Page 6

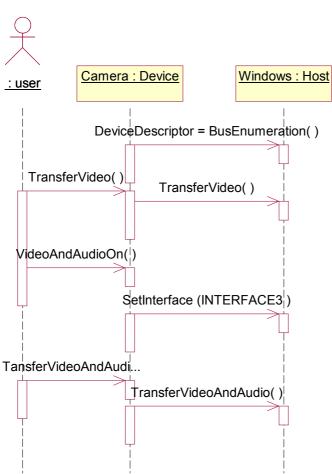


hc : Host::HostController td : Host::TransferDescriptor ed : Host::EndpointDescriptor





Host L1: Host::HostCont... ed: Host::EndpointDescri...



INTERFACE1 : Camera activated, endpoint 1.

INTERFACE2 : Microphone activated,

endpoint 2

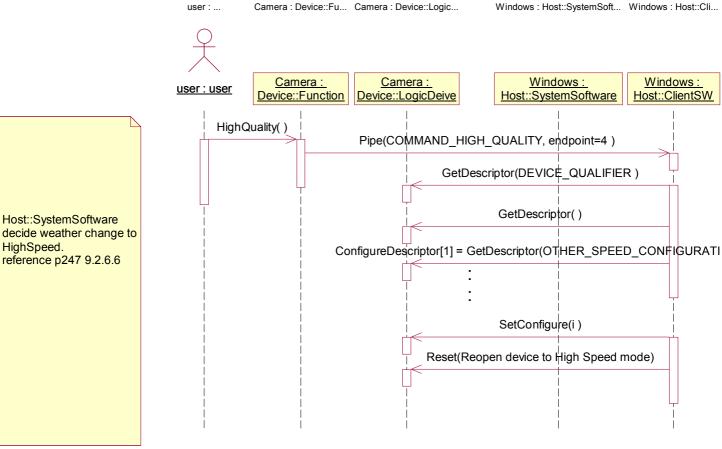
INTERFACE3 : Camera and microphone activated, endpoint 1 and

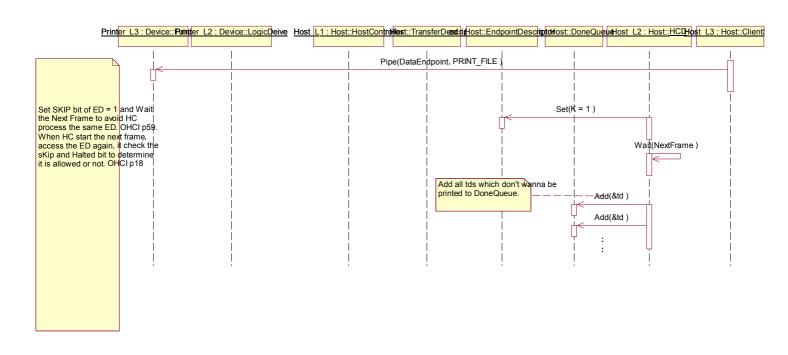
2

At beginning, TransferImage() using default interface, INTERFACE1. INTERFACE1 has 1 endpoint to pipe Video Data.

INTERFACE3 has 2 endpoints, one for Video Data, the other for Audio Data.

Camera: Device::Fu... Camera: Device::Logic... Windows: Host::SystemSoft... Windows: Host::Cli...





Device::BusInterface

SetFeature()
ClearFeature()
Token()
Data()
Handshake()

Device::LogicDeive
Pipe()

SetInterface()
GetDescriptor()

SetConfigure()
SetFeature()

ClearFeature()
Reset()

^ousb_settoggle() ousb_endpoint_runnin...

Feature()

Device::Function

HighQuality()

VideoAndAudioOn()

TransferVideo()

TransferVideoÄndAudi...

Pipe() Send()

Host::ClientSW

SaveVideo()
SaveVideoAndAudi...
Pipe()
Return()

Host::SystemSoftware

Pipe()
SetInterface()
GetDescriptor()
GetStatus()

Host::Usbd

GetHubDescriptc... Find() Pipe() usb_clear_halt() usb_unlink_urb()

Host::HCD

GetStatus()
GetInterface()
GetDescriptc...
SetFeature()
Wait()
Set()
Clear()
Release()

Host::TransferDescriptor

Set()

Clear() Get() Host::EndpointDescriptor

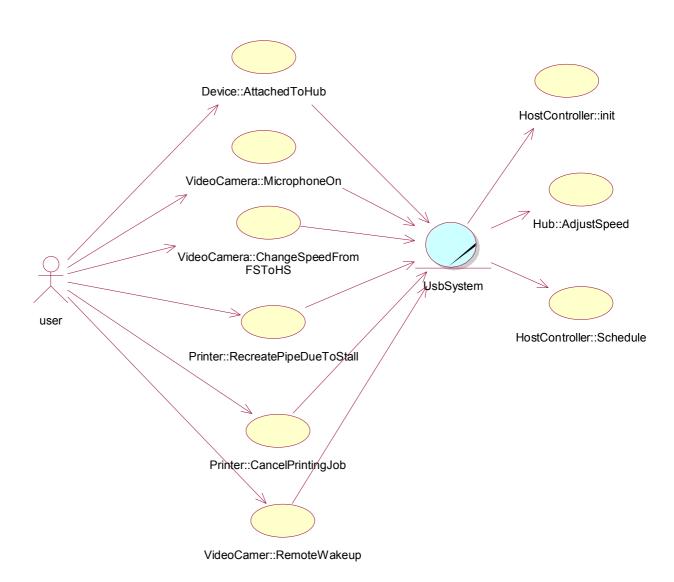
Set()
Clear()
Get()
UnlinkTD()

Host::DoneQueue

Host::HostController

- SetFeature()
- ClearFeature()
- RetiredTD()
- Data()
- Handshake()
- SendData()
- Set()
- Attach()
- GetRegister()
- SetRegister()

HC::Clock



Host Wait() BusEnumeration() TransferVideo() TransferVideoAndAudic... SetInterface() Find() Send() Change() Display()

Hub
Attach() GetHubDescriptor() GetPortStatus() SetPortFeature() SetAddress() GetDeviceDescriptor() GetConfigureDescriptor() SetConfigure() Send() Enable() Disable() Keep()

