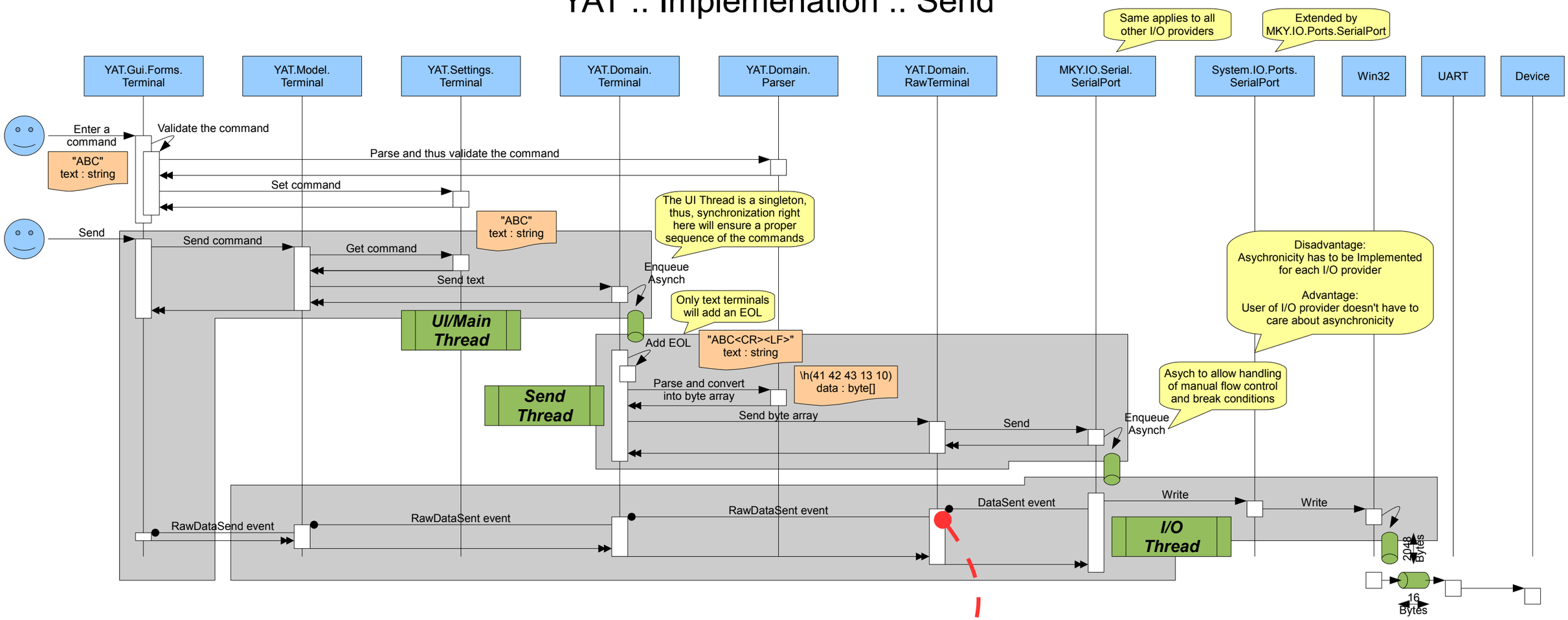
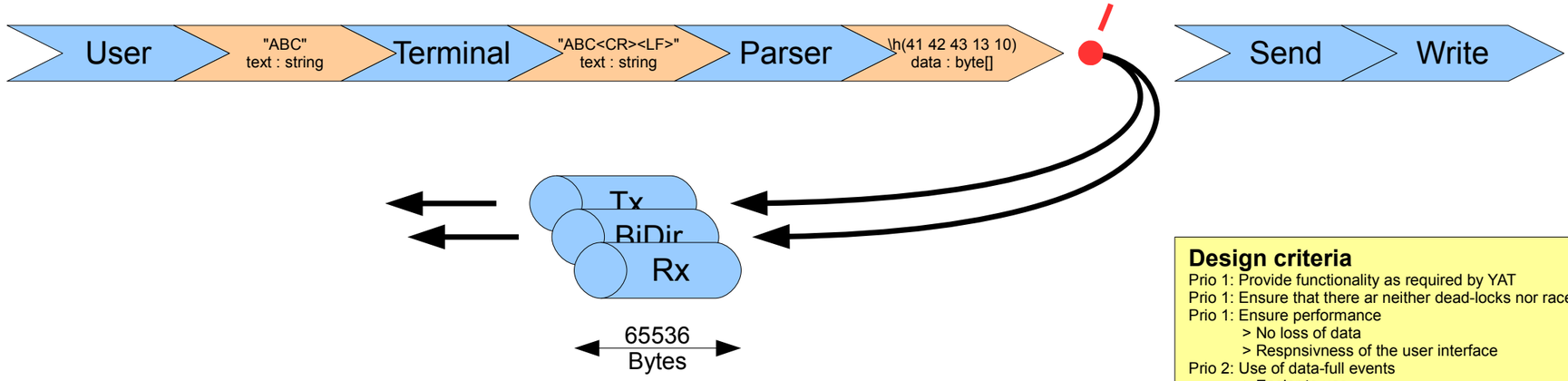
YAT :: Implemenation :: Send

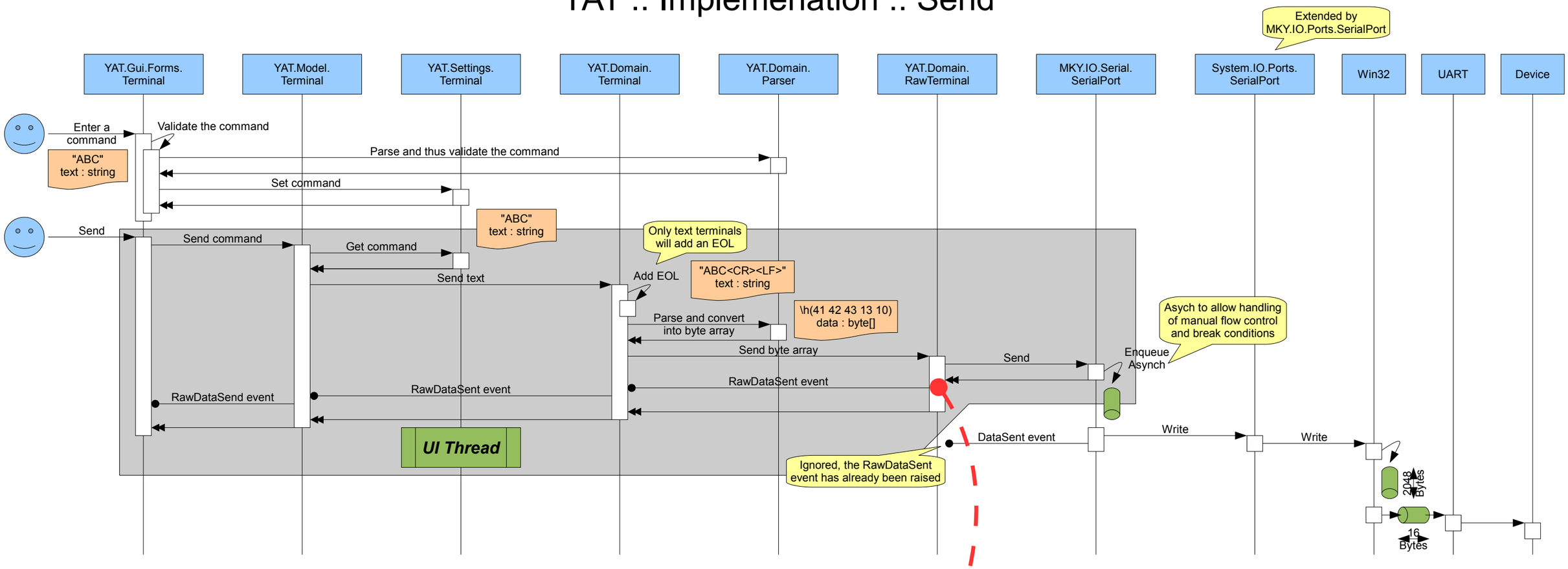


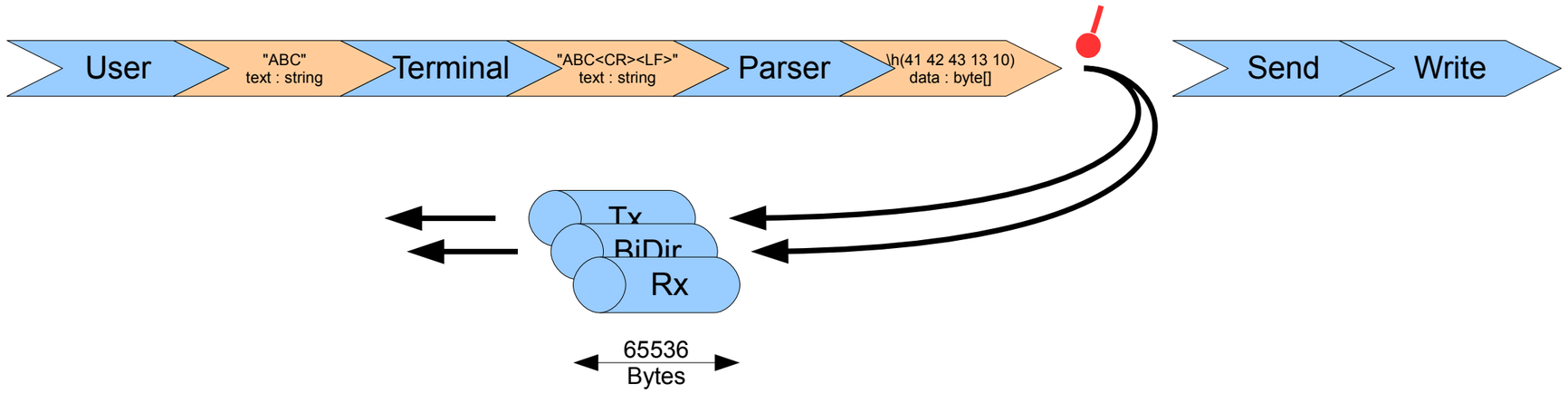


Design criteria

Prio 1: Provide functionality as required by YAT
Prio 1: Ensure that there ar neither dead-locks nor race-conditions
Prio 1: Ensure performance
> No loss of data
> Respnsivness of the user interface
Prio 2: Use of data-full events
> Easier to use
> Ensures that there can be multiple recipients per event
Prio 3: Ensure highest performance possible
> Use a separate threads can improve performance on multi-core systems

YAT :: Implemenation :: Send





YAT :: Implemenation :: Send

YAT.Gui.Forms. Terminal
YAT.Model. Terminal
YAT.Settings. Terminal
YAT.Domain. Terminal
YAT.Domain. Parser
YAT.Domain. RawTerminal
MKY.IO.Serial. SerialPort
System.IO.Ports. SerialPort
Extended by MKY.IO.Ports.SerialPort
Win32
UART
Device

Enter a command
"ABC" text : string
Validate the command
Parse and thus validate the command
Set command
Send
Send command
Get command
"ABC" text : string
Send text
Only text terminals have to add EOL
Add EOL
"ABC<CR><LF>" text : string
Parse and convert into byte array
\h(41 42 43 13 10) data : byte[]
Send byte array
Send
Enqueue Asynch
Asych to allow handling of manual flow control and break conditions
Write
Write
2048 Bytes
16 Bytes
UI Thr
Integrate YAT.vsd into this document

User
"ABC" text : string
Terminal
"ABC<CR><LF>" text : string
Parser
\h(41 42 43 13 10) data : byte[]
Send
Write

Tx
BiDir
Rx
65536 Bytes

Terminal
DisplayRepositories
DisplayElements

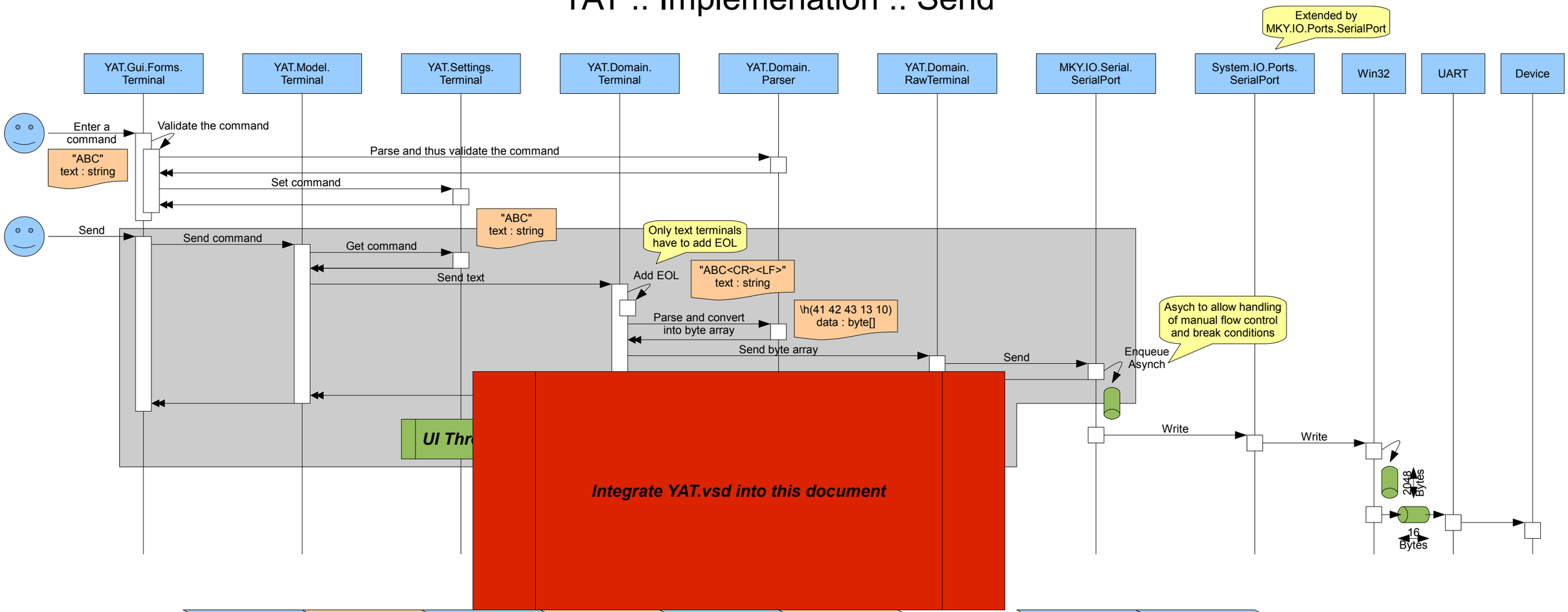
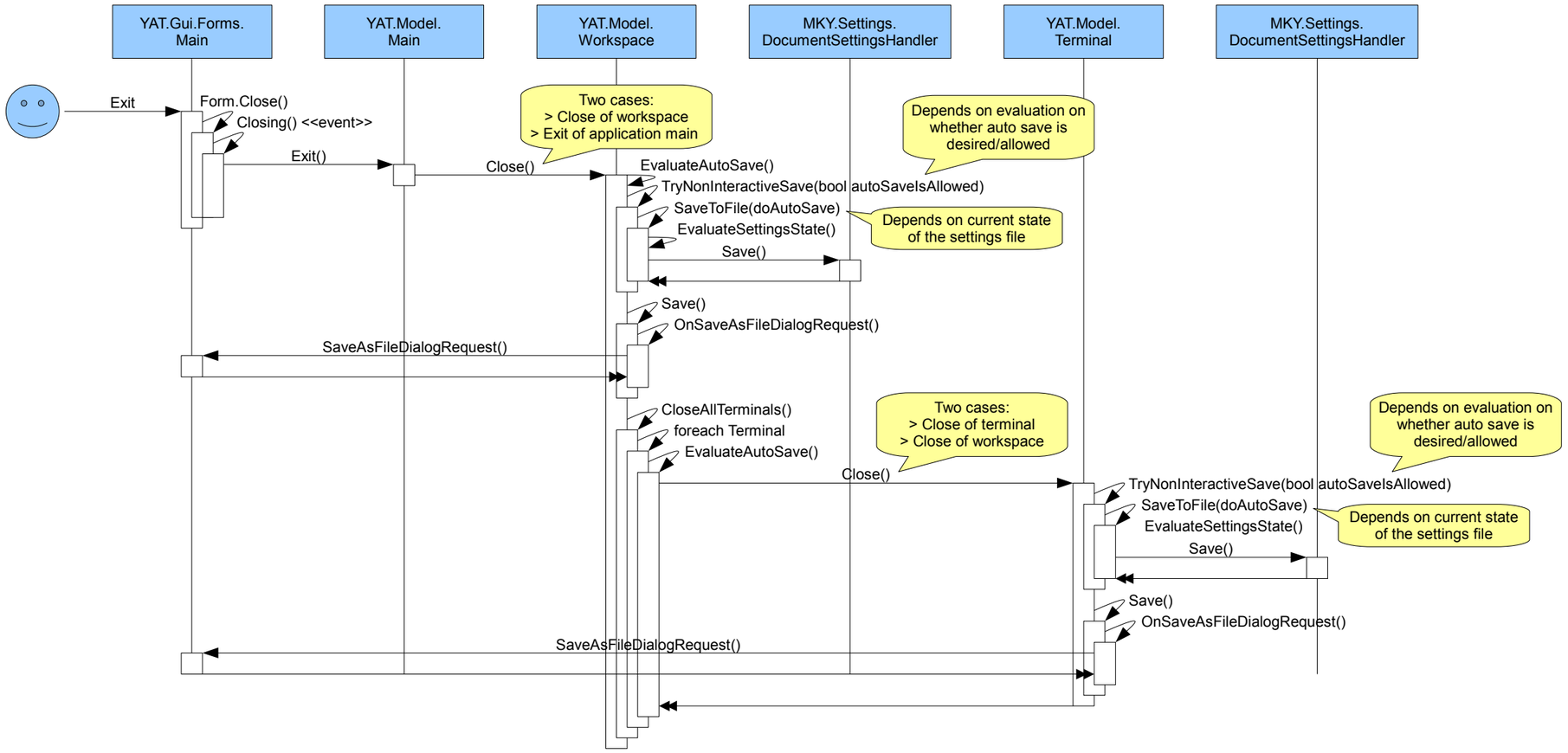
direction : SerialDirect.
origin : <byte[], string>
text : string
dataCount : int
isData : bool
isEol : bool

1000 Lines

RawTerminal
RawRepositories
RawElements

data : byte[]
direction : SerialDirect.
timeStamp : DateTime

YAT :: Implemenation :: Send



YAT :: Implemenation :: Exit