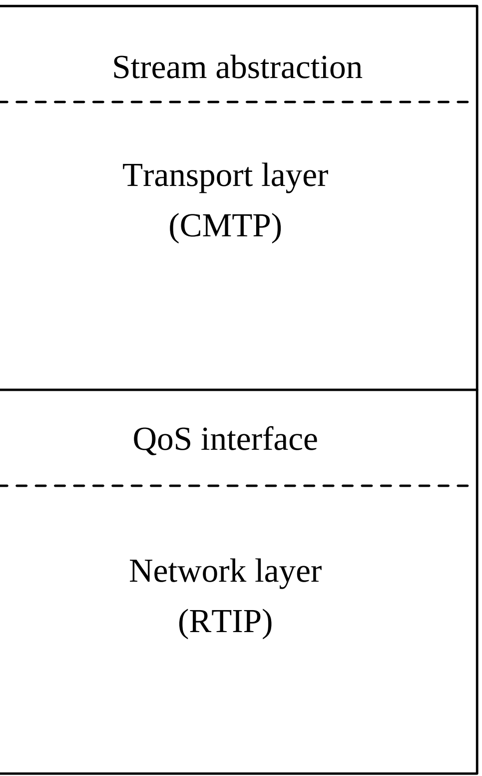
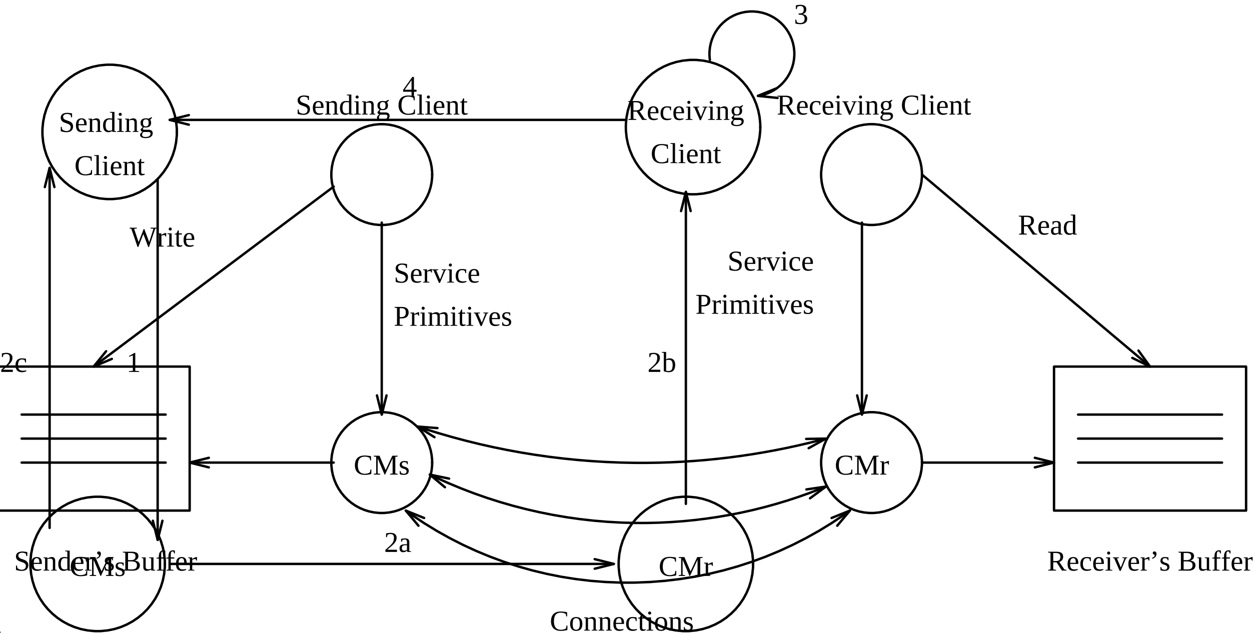
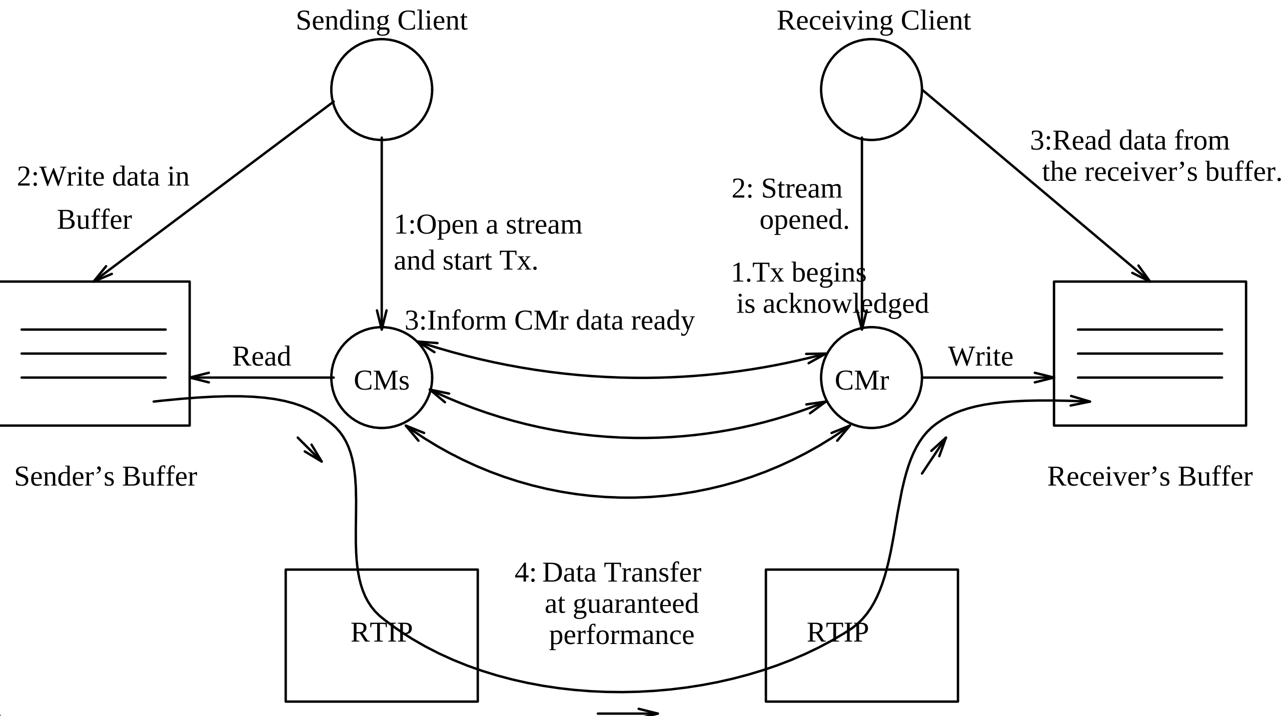
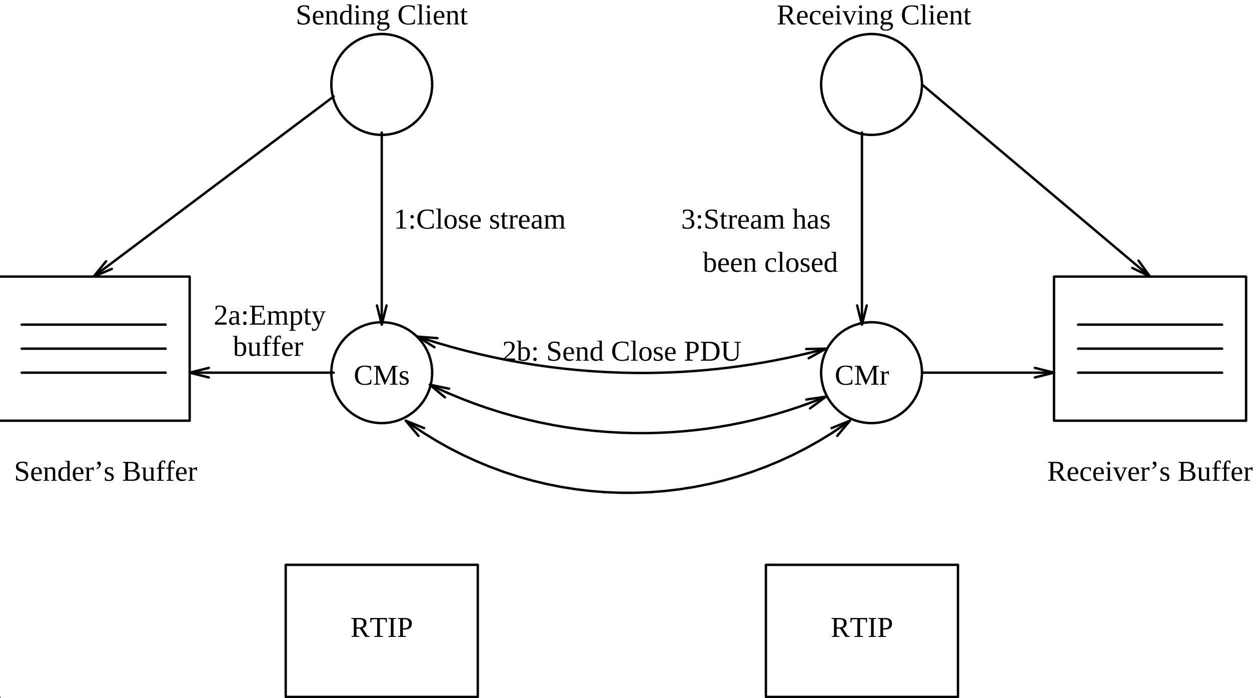
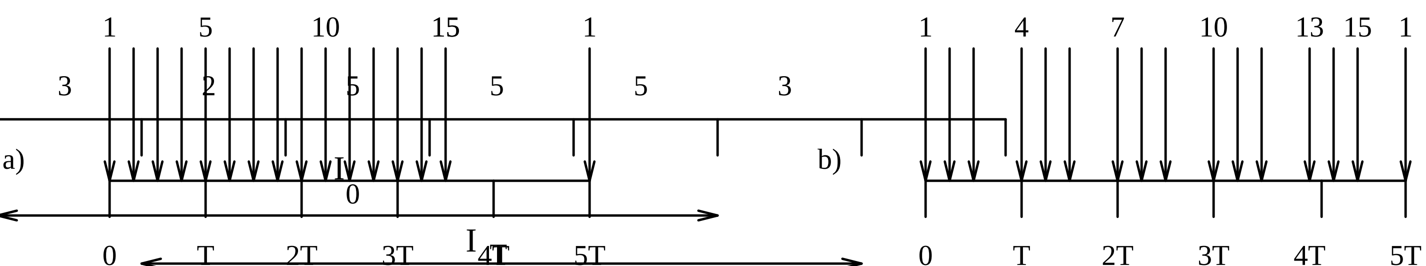

Stream abstraction
Transport layer
(CMTP)
QoS interface
Network layer
(RTIP)

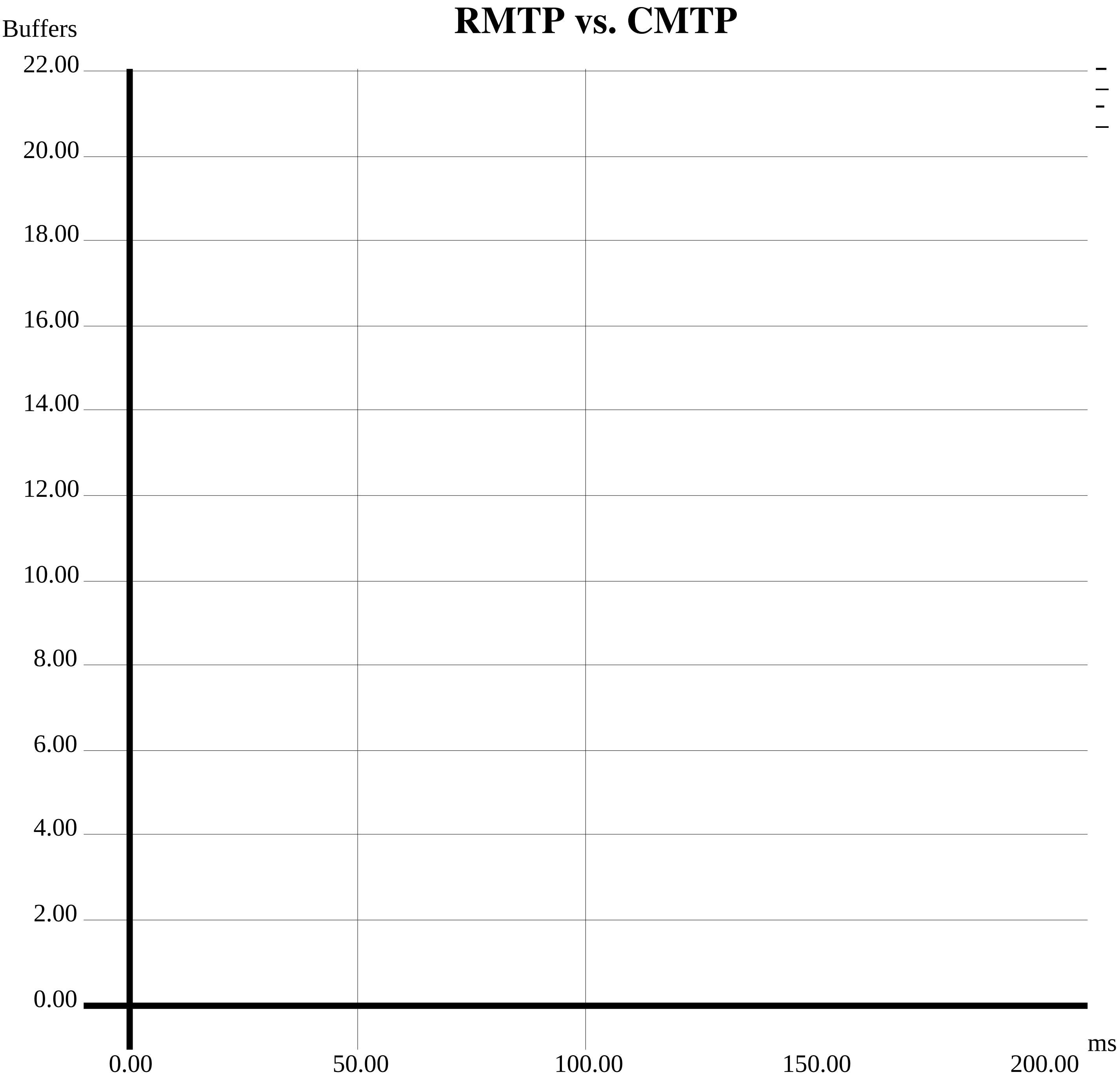

3
4
Sending Client
Sending
Client
Receiving
Client
Receiving Client
Write
Read
Service
Primitives
Service
Primitives
2c
1
2b
CMs
CMr
2a
Sender's Buffer
CMs
CMr
Receiver's Buffer
Connections


Sending Client
Receiving Client
2:Write data in Buffer
1:Open a stream and start Tx.
2: Stream opened.
3:Read data from the receiver's buffer.
1.Tx begins is acknowledged
3:Inform CMr data ready
Read
CMs
CMr
Write
Sender's Buffer
Receiver's Buffer
4: Data Transfer at guaranteed performance
RTIP
RTIP


Sending Client
Receiving Client
1:Close stream
3:Stream has been closed
2a:Empty buffer
2b: Send Close PDU
CMs
CMr
Sender’s Buffer
Receiver’s Buffer
RTIP
RTIP



1
5
10
15
1
3
2
5
5
5
3
a)
I
0
0
T
2T
3T
4T
5T
I
T
1
4
7
10
13
15
1
b)
0
T
2T
3T
4T
5T


RMTP vs. CMTP
Buffers
22.00
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0.00
50.00
100.00
150.00
200.00
ms