We added some logs in the firefoxsoure code (version: 42) and built it.

It’ s the modification below:

File :Rtp_sender_video.cc

Function: boolRTPSenderVideo::Send

Code:

```
boolRTPSenderVideo::Send(constRtpVideoCodecTypesvideoType,
constFrameTypeframeType,
constint8_tpayloadType,
constuint32_tcaptureTimeStamp,
int64_tcapture_time_ms,
constuint8_t*payloadData,
constuint32_tpayloadSize,
constRTPFragmentationHeader*fragmentation,
constRTPVideoTypeHeader*rtpTypeHdr){
uint16_trtp_header_length=_rtpSender.RTPHeaderLength();
int32_tpayload_bytes_to_send=payloadSize;
constuint8_t*data=payloadData;
size_tmax_payload_length=_rtpSender.MaxDataPayloadLength();

scoped_ptr<RtpPacketizer>packetizer(RtpPacketizer::Create(
videoType,max_payload_length,rtpTypeHdr,frameType));

// TODO(changbin): we currently don't support to configure the
codec to
// output multiple partitions for VP8. Should remove below check
after the
// issue is fixed.
constRTPFragmentationHeader*frag=
(videoType==kRtpVideoVp8||videoType==kRtpVideoVp9)?NULL:fragme
ntation;

packetizer->SetPayloadData(data,payload_bytes_to_send,frag);

boollast=false;
while(!last){
uint8_tdataBuffer[IP_PACKET_SIZE]={0};
size_tpayload_bytes_in_packet=0;
if(!packetizer->NextPacket(
&dataBuffer[rtp_header_length],&payload_bytes_in_packet,&last)
```

```
){
        LOG(LS_WARNING)<<"fail to get next package!";
returnfalse;
}

// Write RTP header.
// Set marker bit true if this is the last packet in frame.
_rtpSender.BuildRTPheader(
dataBuffer,payloadType,last,captureTimeStamp,capture_time_ms);
if(SendVideoPacket(dataBuffer,
payload_bytes_in_packet,
rtp_header_length,
captureTimeStamp,
capture_time_ms,
packetizer->GetStorageType(_retransmissionSettings),
packetizer->GetProtectionType()==kProtectedPacket)){
LOG(LS_WARNING)<<packetizer->ToString()
<<" failed to send packet number "
<<_rtpSender.SequenceNumber();
}
    LOG(LS_INFO)<<packetizer->ToString()<<" succeed to send
packet number: "<<_rtpSender.SequenceNumber()
        <<" timestamp: "<<_rtpSender.Timestamp()
        <<" SSRC: "<<_rtpSender.SSRC();
}

TRACE_EVENT_ASYNC_END1(
"webrtc","Video",capture_time_ms,"timestamp",_rtpSender.Timest
amp());
returntrue;
}
```

File:rtp_receiver_video.cc

Function:`int32_tRTPReceiverVideo::ParseRtpPacket`

Code :

```
int32_tRTPReceiverVideo::ParseRtpPacket(WebRtcRTPHeader*rtp_he
ader,
constPayloadUnion&specific_payload,
boolis_red,
constuint8_t*payload,
```

```
uint16_tpayload_length,
int64_ttimestamp_ms,
boolis_first_packet){
TRACE_EVENT2("webrtc_rtp",
"Video::ParseRtp",
"seqnum",
rtp_header->header.sequenceNumber,
"timestamp",
rtp_header->header.timestamp);
LOG(LS_INFO)<<"Video Receive: seqnum :
"<<rtp_header->header.sequenceNumber<<" timstamp:
"<<rtp_header->header.timestamp;
rtp_header->type.Video.codec=specific_payload.Video.videoCodec
Type;

constuint16_tpayload_data_length=
payload_length-rtp_header->header.paddingLength;

if(payload==NULL||payload_data_length==0){
returndata_callback_->OnReceivedPayloadData(NULL,0,rtp_header)
==0?0
:-1;
}

// We are not allowed to hold a critical section when calling below
functions.
scoped_ptr<RtpDepacketizer>depacketizer(
RtpDepacketizer::Create(rtp_header->type.Video.codec));
if(depacketizer.get()==NULL){
LOG(LS_ERROR)<<"Failed to create depacketizer.";
return-1;
}

rtp_header->type.Video.isFirstPacket=is_first_packet;
RtpDepacketizer::ParsedPayloadparsed_payload;
if(!depacketizer->Parse(&parsed_payload,payload,payload_data_l
ength))
return-1;

rtp_header->frameType=parsed_payload.frame_type;
rtp_header->type=parsed_payload.type;
returndata_callback_->OnReceivedPayloadData(parsed_payload.pay
load,
parsed_payload.payload_length,
```

```
rtp_header)==0
?0
:-1;
}
```

Result:

Send:

```
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48114
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48115
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48116
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48117
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48118
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48119
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48120
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48121
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48122
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48123
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48124
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48125
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48126
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48127
( 3:59:10:782 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48128
( 3:59:10:792 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48129
( 3:59:10:792 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48130
( 3:59:10:792 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48131
( 3:59:10:792 |    0)                    3344; (rtp_sender_video.cc:380): RtpPacketizerH264 succeed to send packet number 48132
```

```
2016-02-05 11:59:10.632354  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48114, Time=3173274756
2016-02-05 11:59:10.632711  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48115, Time=3173274756
2016-02-05 11:59:10.633065  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48116, Time=3173274756
2016-02-05 11:59:10.633421  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48117, Time=3173274756
2016-02-05 11:59:10.633774  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48118, Time=3173274756
2016-02-05 11:59:10.642367  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48122, Time=3173274756
2016-02-05 11:59:10.642726  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48123, Time=3173274756
2016-02-05 11:59:10.643087  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48124, Time=3173274756
2016-02-05 11:59:10.643499  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48125, Time=3173274756
2016-02-05 11:59:10.643857  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48126, Time=3173274756
2016-02-05 11:59:10.644211  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48127, Time=3173274756
2016-02-05 11:59:10.644565  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48128, Time=3173274756
2016-02-05 11:59:10.651795  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48132, Time=3173274756
2016-02-05 11:59:10.652240  192.168.127.22  172.172.172.56  RTP  1223 PT=DynamicRTP-Type-105, SSRC=0x12436857, Seq=48133, Time=3173274756
```

Receive:

```
1548311 2016-02-24 16:28:58.761908000 172.172.172.128  192.168.131.34  RTP   749 PT=DynamicRTP-Type-105, SSRC=0x147C7D1C, Seq=32991, Time=42317125
1548312 2016-02-24 16:28:58.764899000 172.172.172.128  192.168.131.34  RTP   748 PT=DynamicRTP-Type-105, SSRC=0x147C7D1C, Seq=32992, Time=42317125
1548313 2016-02-24 16:28:58.767854000 172.172.172.128  192.168.131.34  RTP   748 PT=DynamicRTP-Type-105, SSRC=0x147C7D1C, Seq=32993, Time=42317125
1548314 2016-02-24 16:28:58.770893000 172.172.172.128  192.168.131.34  RTP   663 PT=DynamicRTP-Type-105, SSRC=0x147C7D1C, Seq=32994, Time=42317125
1548315 2016-02-24 16:28:58.772898000 172.172.172.128  192.168.131.34  RTP   663 PT=DynamicRTP-Type-105, SSRC=0x147C7D1C, Seq=32995, Time=42317125
1548316 2016-02-24 16:28:58.776891000 172.172.172.128  192.168.131.34  RTP   663 PT=DynamicRTP-Type-105, SSRC=0x147C7D1C, Seq=32996, Time=42317125
1548317 2016-02-24 16:28:58.777920000 192.168.126.10   192.168.131.34  UDP   224 Source port: 25208  Destination port: 57329
1548318 2016-02-24 16:28:58.777922000 172.172.172.128  192.168.131.34  RTP   662 PT=DynamicRTP-Type-105, SSRC=0x147C7D1C, Seq=32997, Time=42317125
1548319 2016-02-24 16:28:58.780896000 172.172.172.128  192.168.131.34  RTP   711 PT=DynamicRTP-Type-105, SSRC=0x147C7D1C, Seq=32998, Time=42317125
1548320 2016-02-24 16:28:58.783892000 172.172.172.128  192.168.131.34  RTP   710 PT=DynamicRTP-Type-105, SSRC=0x147C7D1C, Seq=32999, Time=42317125
1548321 2016-02-24 16:28:58.786196000 172.172.172.128  192.168.131.34  RTP   710 PT=DynamicRTP-Type-105, SSRC=0x147C7D1C, Seq=33000, Time=42317125
1548322 2016-02-24 16:28:58.787315000 192.168.131.34   192.168.126.10  UDP   224 Source port: 57329  Destination port: 25208
1548323 2016-02-24 16:28:58.787658000 192.168.131.34   192.168.126.10  UDP   224 Source port: 57329  Destination port: 25208
1548324 2016-02-24 16:28:58.788015000 192.168.131.34   192.168.126.10  UDP   224 Source port: 57329  Destination port: 25208
1548325 2016-02-24 16:28:58.788345000 192.168.131.34   192.168.126.10  UDP   224 Source port: 57329  Destination port: 25208
1548326 2016-02-24 16:28:58.789888000 172.172.172.128  192.168.131.34  RTP   710 PT=DynamicRTP-Type-105, SSRC=0x147C7D1C, Seq=33001, Time=42317125, Mark
1548327 2016-02-24 16:28:58.795891000 192.168.126.113  192.168.131.34  TPKT   91 Continuation
```

```
result - 26173 hits
Line 55445:  ( 8:29: 2:578 |    1)   3080; (rtp_receiver_video.cc:70): Video Receive: seqnum : 32988 timstamp: 42317125
Line 55446:  ( 8:29: 2:579 |    1)   3080; (rtp_receiver_video.cc:70): Video Receive: seqnum : 32989 timstamp: 42317125
Line 55447:  ( 8:29: 2:580 |    1)   3080; (rtp_receiver_video.cc:70): Video Receive: seqnum : 32990 timstamp: 42317125
Line 55448:  ( 8:29: 2:580 |    0)   3080; (rtp_receiver_video.cc:70): Video Receive: seqnum : 32991 timstamp: 42317125
Line 55449:  ( 8:29: 2:581 |    1)   3080; (rtp_receiver_video.cc:70): Video Receive: seqnum : 32992 timstamp: 42317125
Line 55452:  ( 8:29: 2:582 |    0)   3080; (rtp_receiver_video.cc:70): Video Receive: seqnum : 32993 timstamp: 42317125
Line 55453:  ( 8:29: 2:583 |    1)   3080; (rtp_receiver_video.cc:70): Video Receive: seqnum : 32994 timstamp: 42317125
Line 55467:  ( 8:29: 2:584 |    0)   3080; (rtp_receiver_video.cc:70): Video Receive: seqnum : 33001 timstamp: 42317125
```