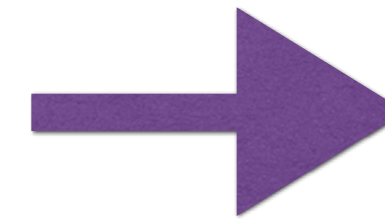


2002

Network Working Group
Request for Comments: 3261
Obsoletes: [2543](#)
Category: Standards Track

J. Rosenberg
dynamicsoft
H. Schulzrinne
Columbia U.
G. Camarillo
Ericsson
A. Johnston
WorldCom
J. Peterson
Neustar
R. Sparks
dynamicsoft
M. Handley
ICIR
E. Schooler
AT&T
June 2002



SIP: Session Initiation Protocol

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

And the protocol wars
began.

A different time.
More than 10 years ago.

We need to move forward,
make ***new*** mistakes.

2014

2014

Open Source in Business - from my point of view

EXECUTIVE SUMMARY

**KAMAILIO
SIP NETWORKS**

**LYNC CERTIFICATION
OF ASTERISK**

**IETF WORK
ON IPv6, DANE AND SIP**

**ASTERISK
IMPROVEMENTS**

ASTERISK IMPROVEMENTS

CAUSE CODE HANDLING

COMFORT NOICE/
SILENCE SUPPRESSION

REMOTE HOLD

RTCP CALL QUALITY RECORDS

DNS SRV DONE RIGHT

PRACK SUPPORT

DTMF DURATION

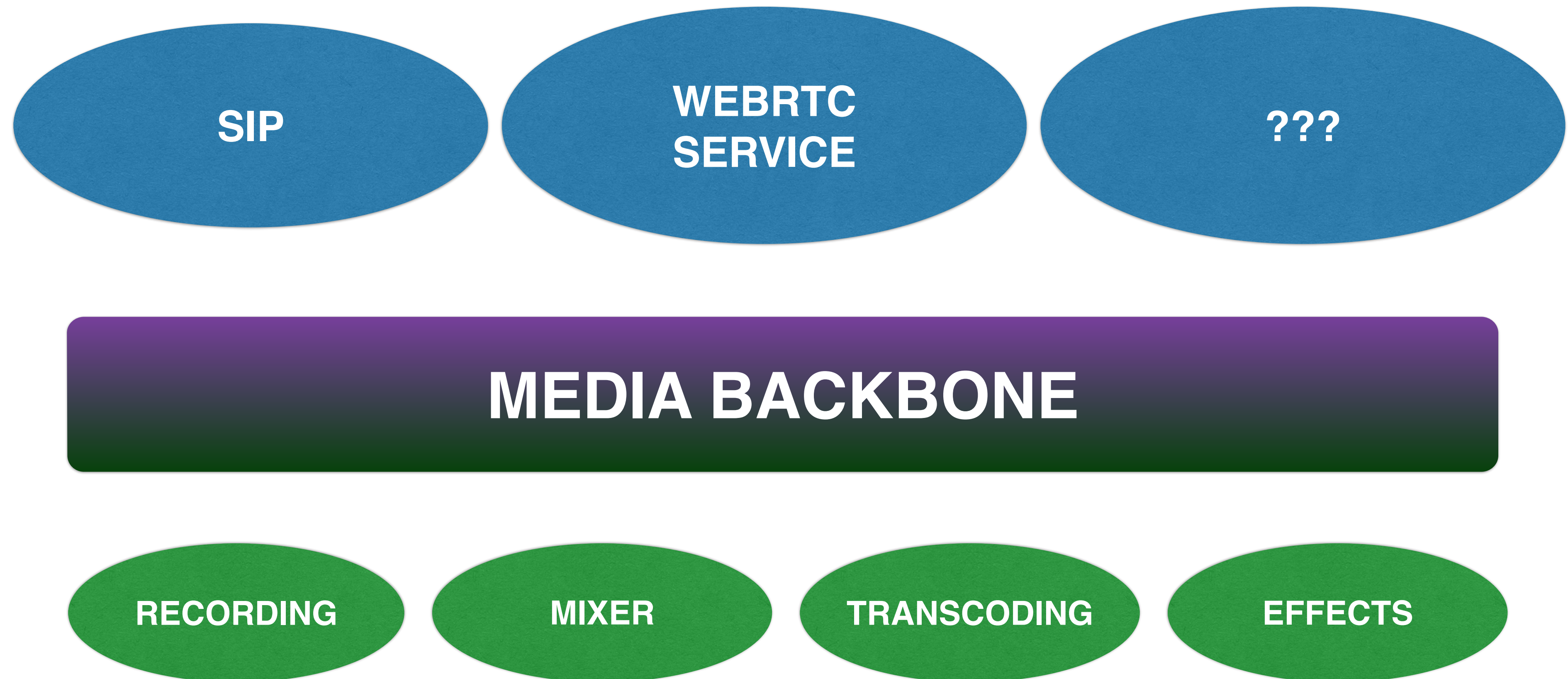
PACKET REORDERING

WHERE DOES WEBRTC FIT IN?

**I DON'T THINK WE ARE EVEN CLOSE
TO UNDERSTAND THAT.**

**BIG CHANGES TAKE
TEN YEARS**

Where we are going



This part is missing

MEDIA BACKBONE

RECORDING

MIXER

TRANSCODING

EFFECTS

What about NOW?



**INTERNET
COMMUNICATION**

Everything is IP.

OTT

Bypassing carriers over IP.

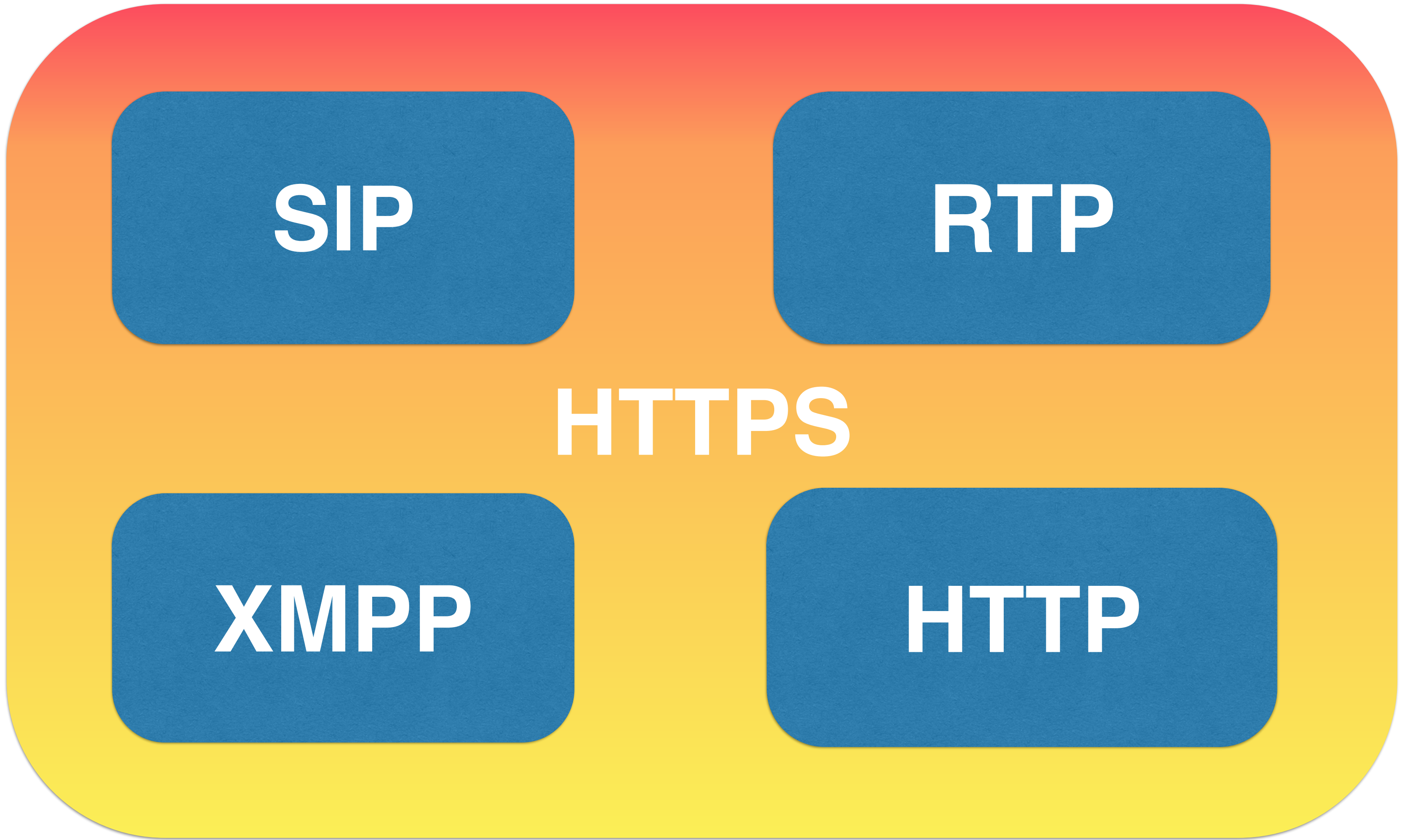
**BECOME
THE TELCO**

Push the telco down the stack.

OPEN SOURCE!

Get a quick start.

WINNERS



LOSERS.

YOU.

The user. The customer.

INTEROPERABILITY

**BRAND
NAMES**

**PRIVATE
PROTOCOLS**

**ISOLATED
ISLANDS**

**VENTURE
CAPITAL**

A BROKEN OLD NETWORK

IPV4

NAT

**CARRIER GRADE
NAT**

**NETWORKING
KNOWLEDGE**

**THE MOST IMPORTANT
PROBLEM...**



**LOSS OF
CUSTOMER TRUST.**

We can work on all of that.

LET'S FOCUS
ON **ONE** THING.

The Internet is under attack.
#moreCrypto

OPPURTUNISTIC SECURITY.

A BASE LAYER OF INTEGRITY. NOT FULL
SECURITY, BUT BETTER THAN NOTHING.

BUILD TRUST.

**SECURITY BY DEFAULT.
BUILD GOOD SHIT.**

LET'S GET EVERYONE ABOARD.



2015 is the year of realtime security.

TODO-LIST FOR 2015



WHAT THIS MEANS FOR **SIP** CALLS

USE TLS ALWAYS.
TEST IF IT IS OPEN AND USE IT.

INVITE WITH SRTP.
IF IT FAILS, OPTIONALLY FALL BACK.

WHEN BUYING SIP TRUNKS

REQUIRE TLS.

REQUIRE SRTP.

REQUIRE DNS.

THE GOOD, THE BAD AND THE UGLY

**SECURE CALLS: TLS AUTH
DTLS SRTP KEY EXCHANGE**

**WE CAN IMPROVE SECURITY FOR ALL CALLS,
REGARDLESS OF DEFAULT CONFIGURATION.**

***YOU DO NOT WANT TO LOOSE
THE TRUST OF YOUR
USERS AND CUSTOMERS.***

When do we start?

Now.

Here.

In Realtime.

Thank you.

#morecrypto

in SIP, XMPP, RTP, WEBRTC and other
realtime platforms.