

# TURN Extension for Third Party Authorization

draft-reddy-tram-turn-third-party-authz-00

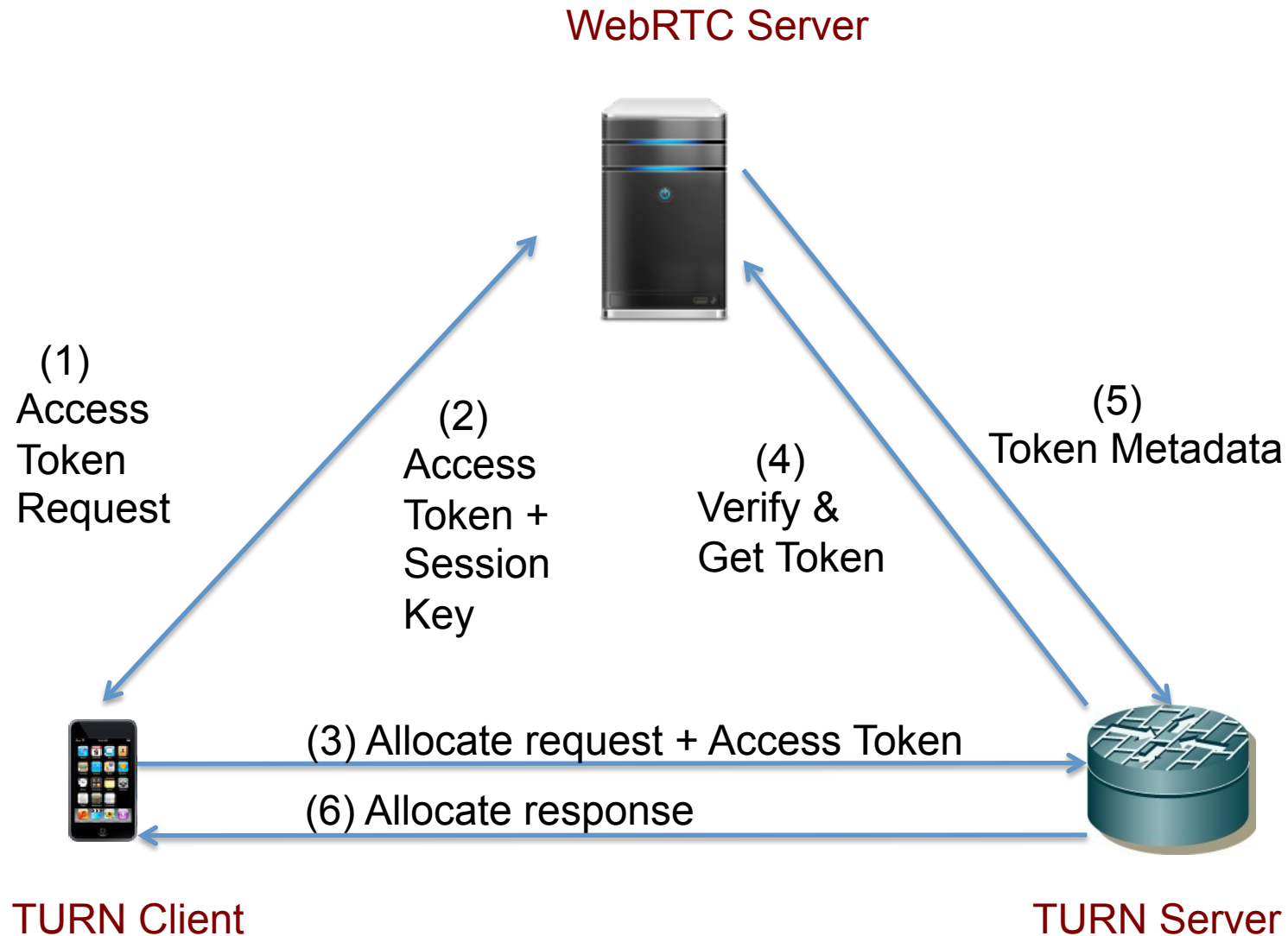
**March 2014 IETF 89 Meeting**

Authors : T.Reddy, P.Patil, J. Uberti, R.Ram

# *Problem with STUN Authentication*

Problems are discussed in draft-reddy-behave-turn-auth-04

# 3<sup>rd</sup> Party authorization for TURN using OAuth



# *3<sup>rd</sup> Party authorization for TURN using OAuth*

<b>OAuth</b>	<b>TURN</b>
Client	TURN Client
Resource Owner	Authorization Server (e.g.: WebRTC server)
Authorization server	Authorization Server
Resource Server	TURN Server

# *Advantages*

Client sends HTTP request to WebRTC server to get ephemeral token.

- No long-term credentials to keep secret; even if discovered, credential usefulness is limited
- Username contains no externally-identifying information and helps to provide privacy.
- Session Key is machine-generated, to prevent dictionary attacks

# *Handle Token verses Self-contained token*

## Handle Token

- Authorization server can revoke the token after the call is terminated.
- Requires communication between TURN server and Authorization server.
- Token is small.

## Self-Contained Token

- Large token which would carry session key, lifetime, timestamp etc.

# *Enhancements required to support the draft*

- TURN Protocol
- WebRTC

draft-reddy-tram-turn-third-party-authz-00

*Next steps ?*