## WebRTC traffic encryption hardware acceleration

By default, Bouncy Castle library is used to encrypt WebRTC traffic

webrtc\_aes\_crypto\_provider=BC

However, if AES instructions are supported by server CPU, it's recommended to enable Java Cryptography Extension usage with the following parameter in flashphoner.properties file

webrtc\_aes\_crypto\_provider=JCE

and ennable AES support in JVM settings in wcs-core.properties file

- -server
- -XX:+UnlockDiagnosticVMOptions
- -XX:+UseAES
- -XX:+UseAESIntrinsics

In this case, encryption performance increases by 1,8-2 times due to hardware acceleration, that should decrease server CPU load average.

This command sholud be used to check if server CPU supports AES instructions

lscpu | grep -o aes

If the command prints

aes

it means AES instructions are supported