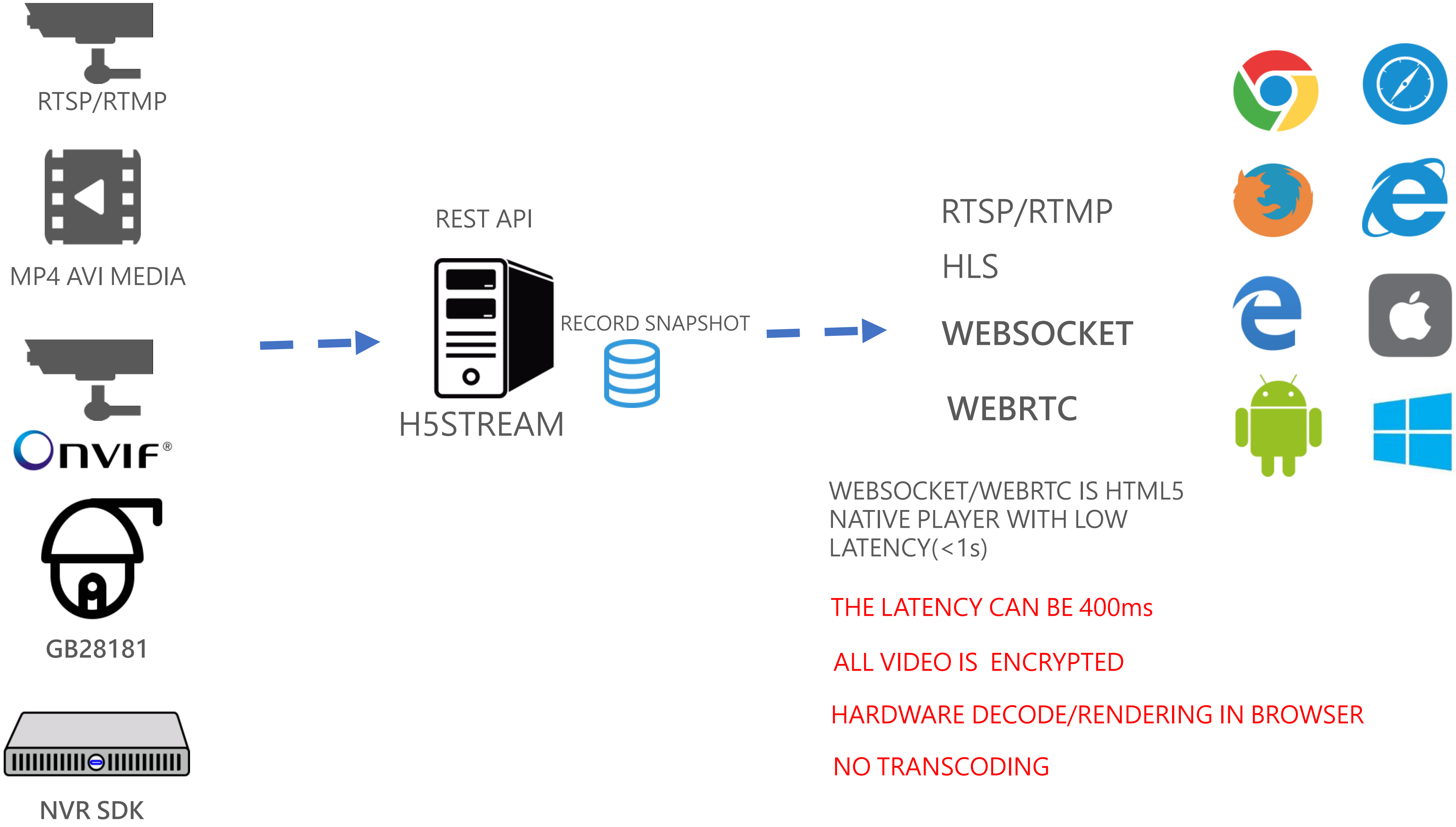
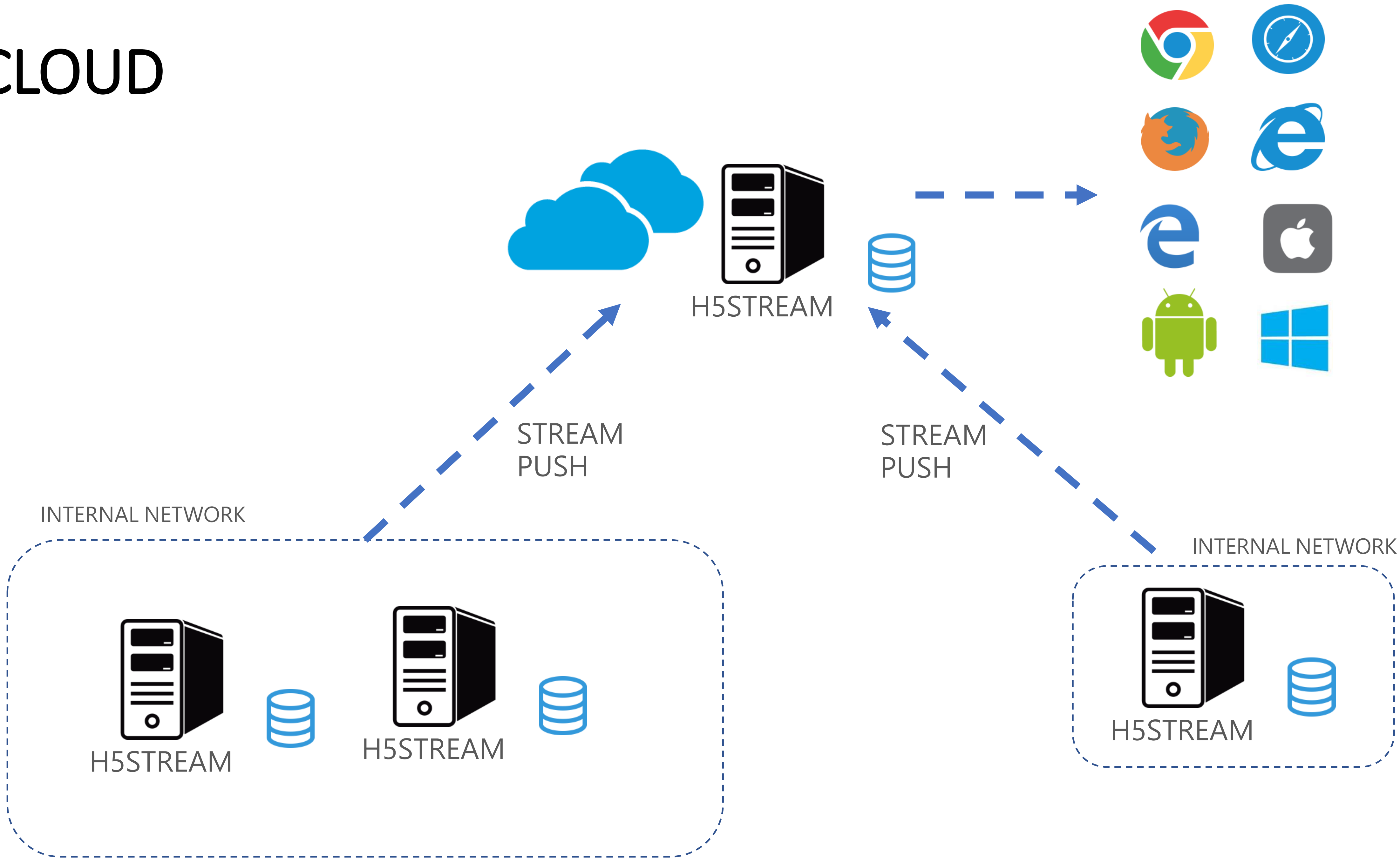
H5STREAM

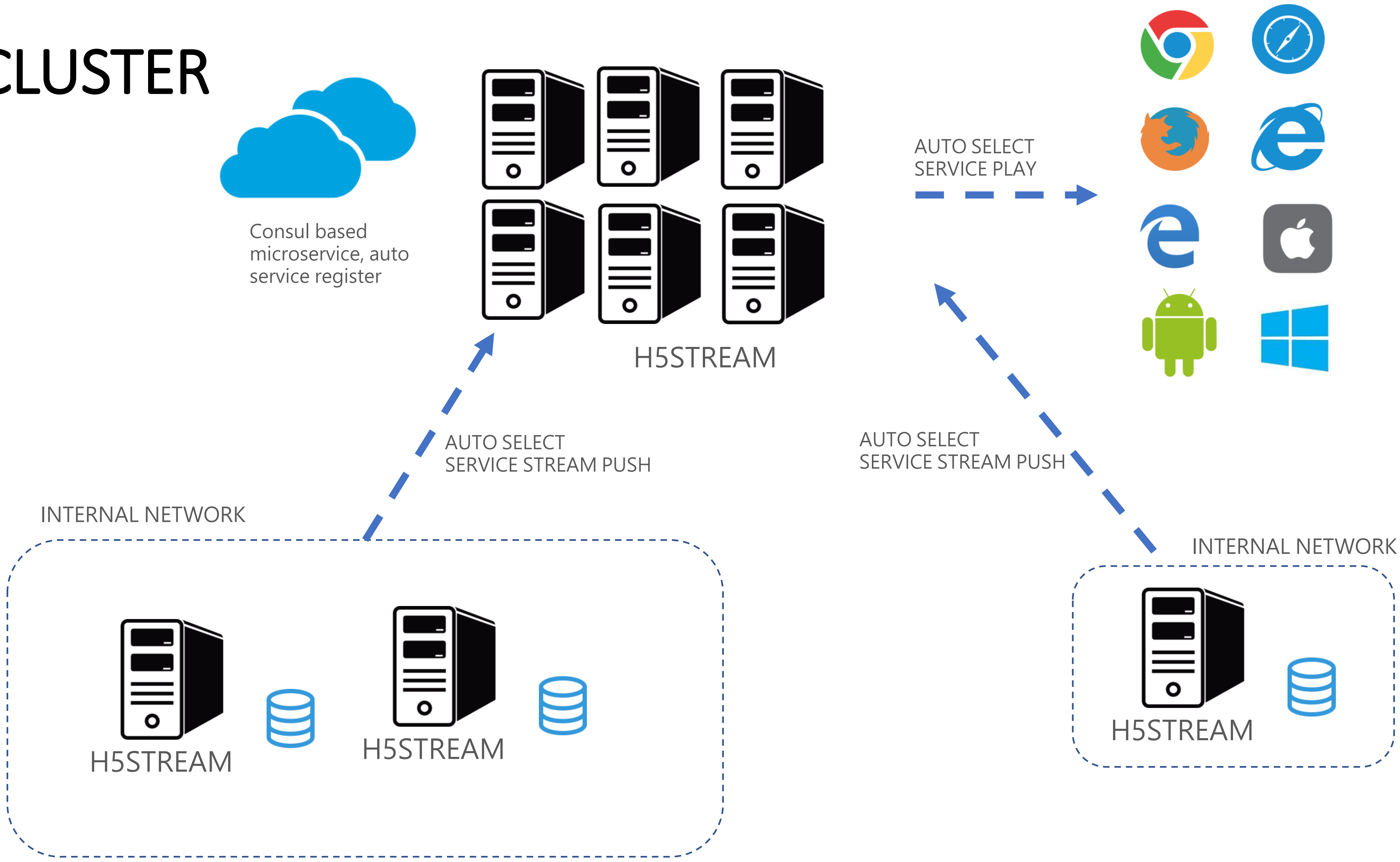
ON-PREMISES


RTSP/RTMP
MP4 AVI MEDIA
ONVIF
GB28181
NVR SDK
REST API
H5STREAM
RECORD SNAPSHOT
RTSP/RTMP
HLS
WEBSOCKET
WEBRTC
WEBSOCKET/WEBRTC IS HTML5 NATIVE PLAYER WITH LOW LATENCY(<1s)
THE LATENCY CAN BE 400ms
ALL VIDEO IS ENCRYPTED
HARDWARE DECODE/RENDERING IN BROWSER
NO TRANSCODING

CLOUD


H5STREAM
STREAM
PUSH
STREAM
PUSH
INTERNAL NETWORK
H5STREAM
H5STREAM
INTERNAL NETWORK
H5STREAM

CLUSTER


Consul based
microservice, auto
service register
H5STREAM
AUTO SELECT
SERVICE PLAY
AUTO SELECT
SERVICE STREAM PUSH
AUTO SELECT
SERVICE STREAM PUSH
INTERNAL NETWORK
H5STREAM
H5STREAM
INTERNAL NETWORK
H5STREAM

RESTFUL API

SYSTEM	SOURCE MANAGEMENT	ONVIF	RECORD
Login	GetSrc	OnvifSearch	Record
Logout	GetImage	OnvifProbe	Snapshot
Keepalive	AddSrcFile		Search
	AddSrcRTSP		
	AddSrcONVIF		
	DelSrc		
	Ptz		

JAVASCRIPT API

WEBSOCKET

H5sPlayerWS

```
/**
* Interface with h5s websocket player API
* @constructor
*/
function H5sPlayerWS(conf)

H5sPlayerWS.prototype.connect
H5sPlayerWS.prototype.disconnect
```

WEBRTC

H5sPlayerRTC

```
/**
* Interface with h5s WebRTC player API
* @constructor
*/
function H5sPlayerRTC(conf)

H5sPlayerRTC.prototype.connect
H5sPlayerRTC.prototype.disconnect
```

RTMP

VideoJS

www/rtmp.html

HLS

H5sPlayerHls

```
/**
* Interface with h5s websocket player API
* @constructor
*/
function H5sPlayerHls(conf)
H5sPlayerHls.prototype.connect
H5sPlayerHls.prototype.disconnect
```

```
/**
 @param
 var conf = {
         videoid:'h5sVideo1', //{string} - id of the video element tag
         videodom: h5svideodom1, //{object} - video dom. if there has videoid, just use the videoid
         protocol: window.location.protocol, // {string} - http: or https:
         host: window.location.host, //{string} - localhost:8080
         rootpath:window.location.pathname, // {string} - path of the app running
         token:'token1', // {string} - token of stream
         hlsver:'v1', //{string} -  v1 is for ts, v2 is for fmp4
         session:'c1782caf-b670-42d8-ba90-2244d0b0ee83' //{string} - session got from login};
*/
```

COMPATIBILITY

	Chrome	Firefox	IE11	Edge	Safari	WeChat
WIN7	WEBRTC WEBSOCKET	WEBRTC WEBSOCKET	RTMP	-	-	-
WIN 8/10	WEBRTC WEBSOCKET	WEBRTC WEBSOCKET	RTMP WEBSCOKET	WEBRTC	-	-
macOS	WEBRTC WEBSOCKET	WEBRTC WEBSOCKET	-	-	WEBRTC WEBSOCKET	-
iOS 11	HLS WEBRTC	HLS WEBRTC	-	-	HLS WEBRTC	HLS WEBRTC
iOS 8-10	HLS	HLS	-	-	HLS	HLS
Android	WEBSOCKET WEBRTC	WEBRTC WEBSOCKET	-	-	-	WEBSOCKET

CONFIGURATION FILE

conf/h5ss.conf	
HTTP	HTTP HTTPS server configuration
RTSP	RTSP server configuration, SSL is RTSP over TCP/TLS
RTMP	RTMP server configuration, SSL is RTMP over TCP/TLS
FLV	FLV server configuration, SSL is FLV over HTTPS
HLS	HLS version and parameter configuration
WEBRTC	WEBRTC configuration
SYSTEM	H5stream system configuration such as log and HTTP server thread
USER	User management configuration
SOURCE	Video source configuration, include File/RTSP/RTMP/ONVIF

PROTOCOL CLIENT

http://localhost:8080/ws.html?token=token1&autoplay=1
http://localhost:8080/rtc.html?token=token1&autoplay=1

http://localhost:8080/rtmp.html?token=token2
http://localhost:8080/hls.html?token=token2

Websocket	WebRTC	RTMP	HLS
ws.html	rtc.html	rtmp.html	hls.html

Chrome support this http://localhost:8080/rtc.html?token=token1&autoplay=1
but when change to websocket, chrome does't allow
Uncaught (in promise) DOMException: play() failed because the user didn't interact with the document first. https://goo.gl/xX8pDD

AUDIO ENABLE

h5stream from 5.4 version support AAC audio, has tested with HIKVISION camera.
After 6.0 G711/PCM will auto to decode and encode to AAC

1. Enable the audio from configuration, API also support enable when added.

```
"strPasswd": "admin12345",
"bPasswdEncryptComment": "Password Encrypted",
"bPasswdEncrypt": false,
"bEnableAudioComment": "Enable Audio",
"bEnableAudio": true,
"nConnectTypeComment": "H5_ONDEMAND/H5_ALWAYS/H5_AUTO",
"nConnectType": "H5_AUTO",
"nRTSPTypeComment": "RTSP Connect protocol H5_RTSP_TCP/H5_
"nRTSPType": "H5_RTSP_AUTO",
"strSrcIpAddressComment": "Ip Address for the device",
"strSrcIpAddress": "192.168.100.173",
```

2. Change the camera audio format to AAC or G711A G711U