

Choosing the right streaming method

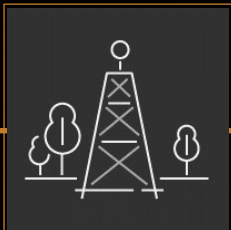
	Streams	WebRTC
Cloud media storage Analysis with AI/ML services	Yes	No
Bidirectional streaming	No	Yes
Typical latency for live playback	3-5 seconds	Less than 1 second
Number of simultaneous playback sessions	Up to about 100 sessions	Up to 10 sessions
SDK for camera devices	Producer SDK	WebRTC SDK

WebRTC technology overview

WebRTC

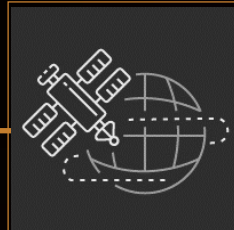
WebRTC is not “just” a media streaming protocol. It is an open standard for real-time communication with technology specifications for:

Signaling



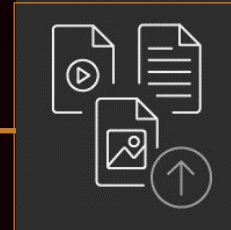
Exchange connection
metadata

Connectivity



Establish peer-to-peer
connectivity

Media delivery



Low-latency
exchange media and
arbitrary data

Encryption



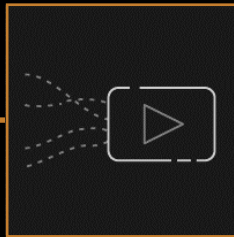
End-to-end
encryption

Kinesis Video Streams with WebRTC

WebRTC

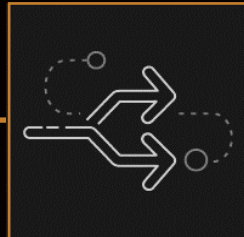
Stream live media with ultra-low latency and enable two-way interactivity for millions of camera devices

Low-latency live media streaming



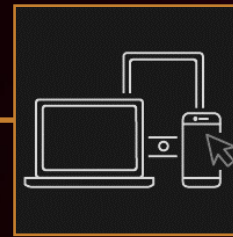
Peer-to-peer audio and video live streaming with sub-1 second latency for playback

Real-time, two-way interactivity



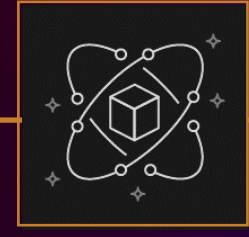
Exchange audio, video, and data between devices, mobile, and web apps for real-time, two-way interactivity

Standards compliant



Compliant with web and mobile platforms for easy plugin free playback

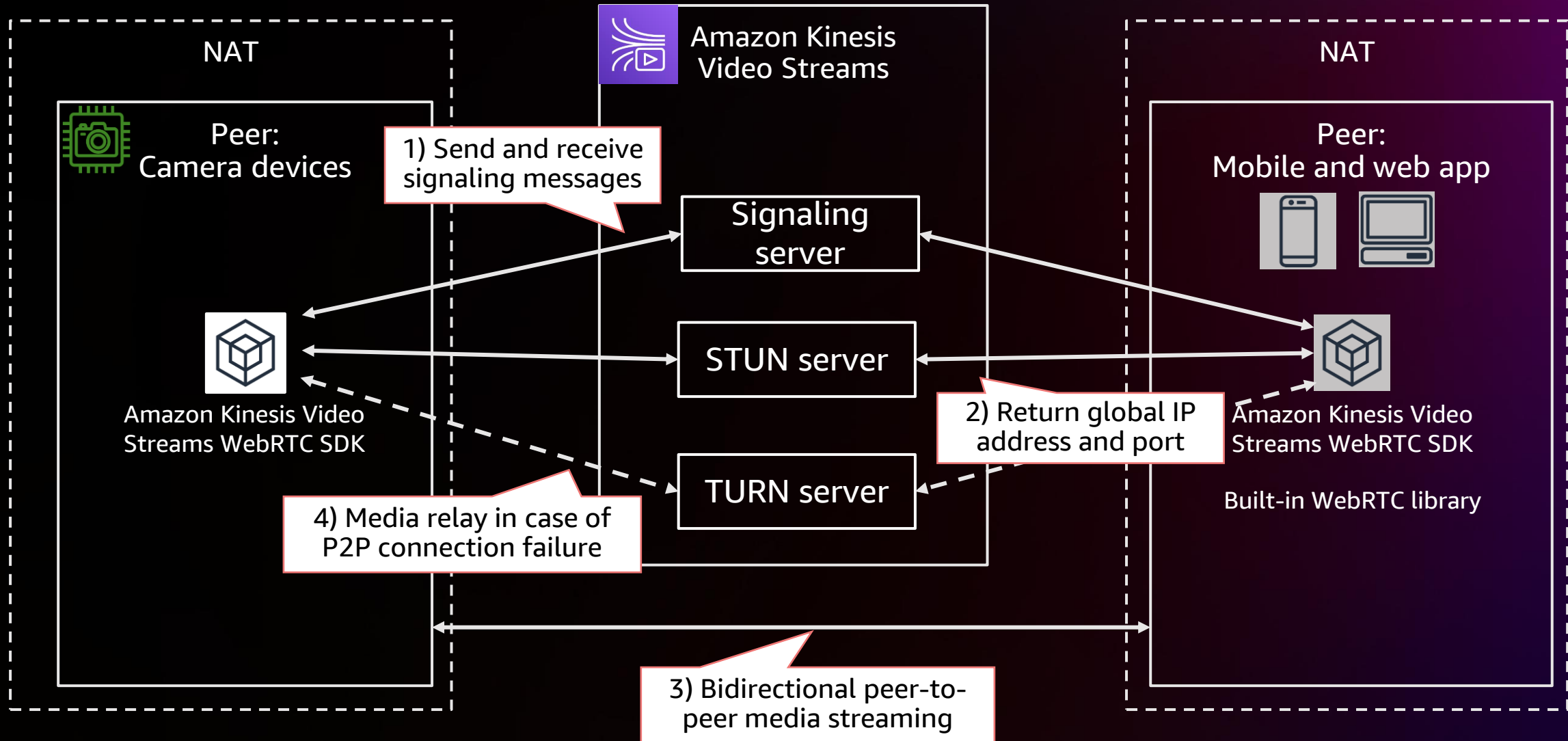
Fully managed



Fully managed WebRTC signaling, TURN, and STUN services with easy to use SDKs

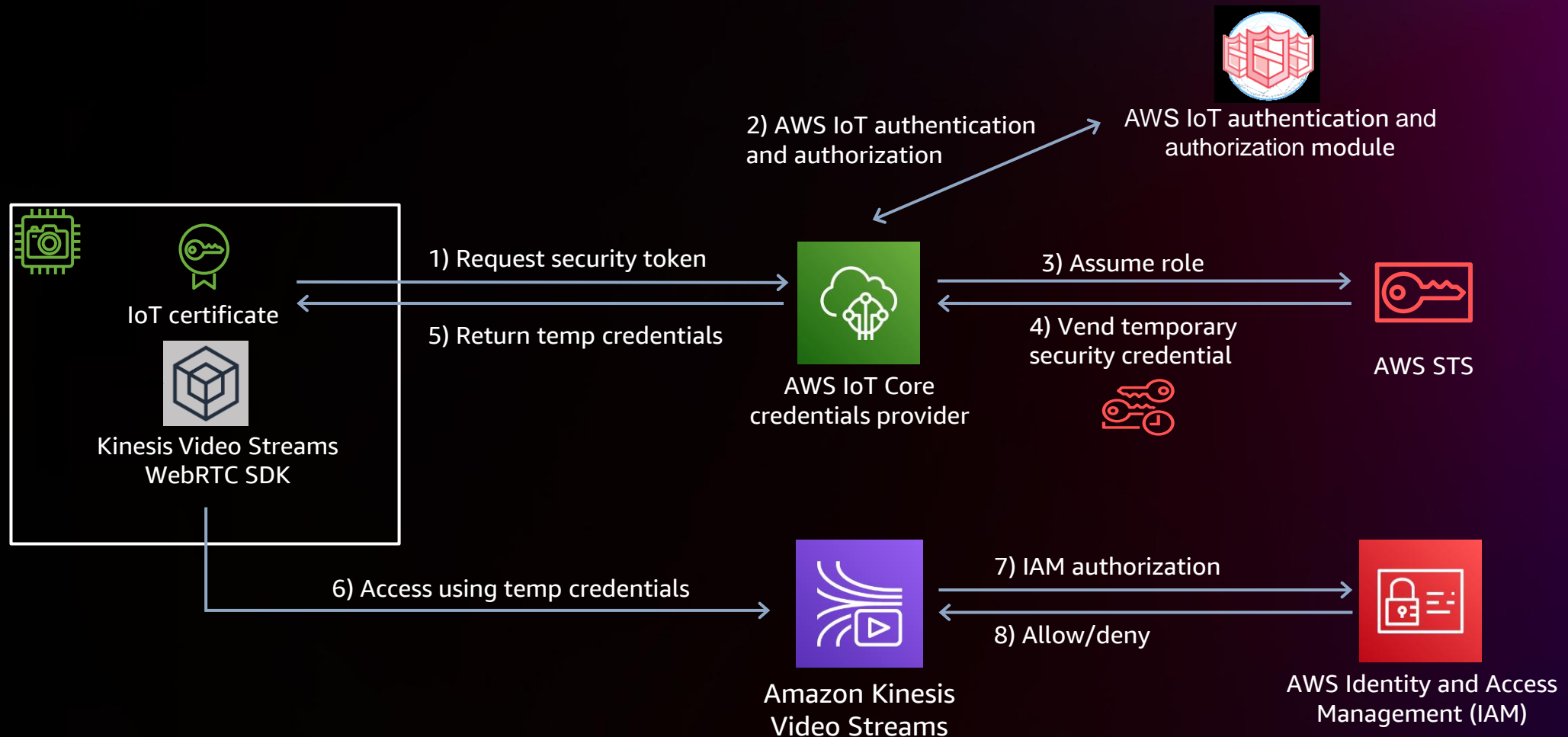
WebRTC connection flow

WebRTC



How to authenticate camera devices

WebRTC

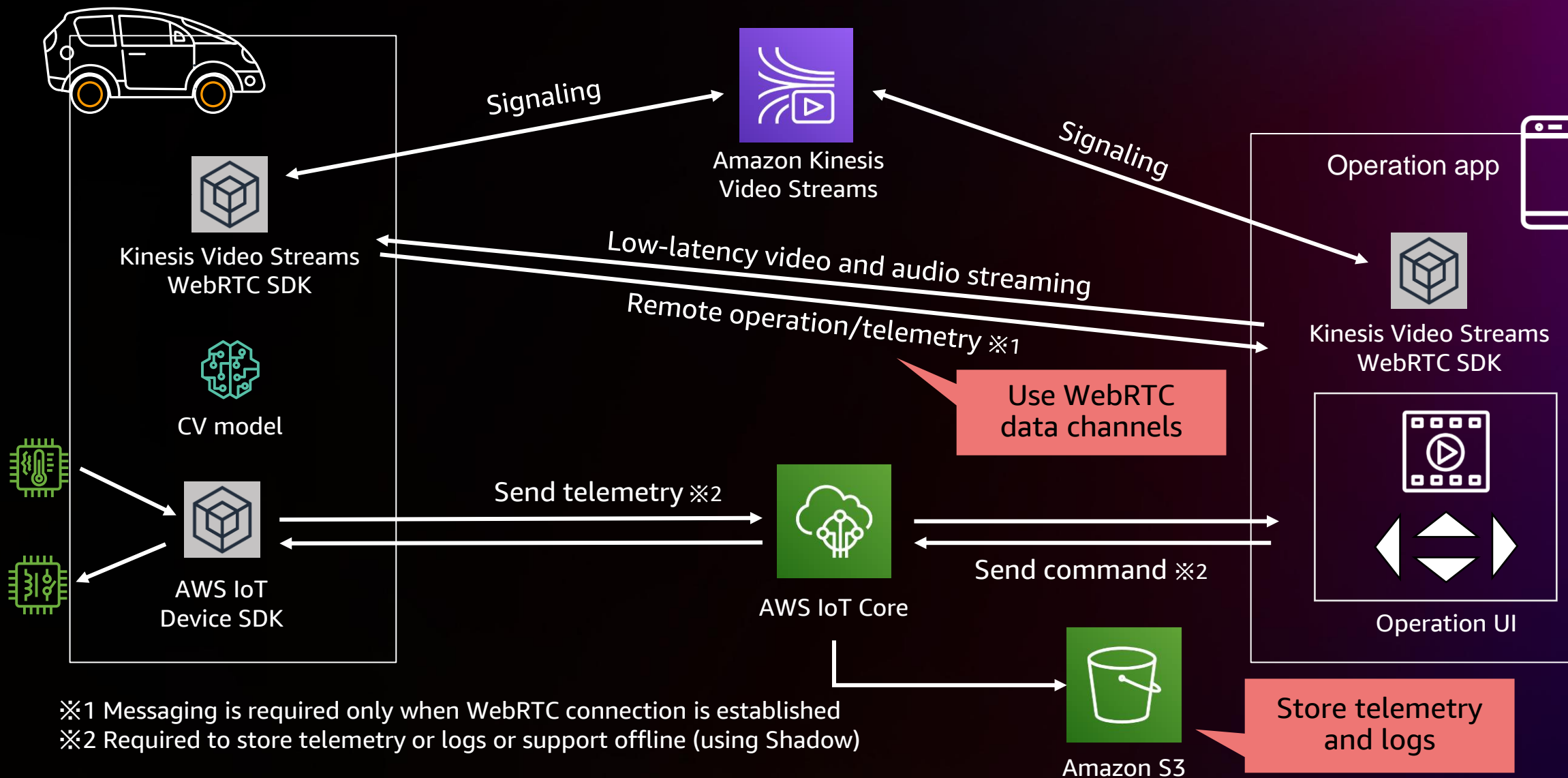


<https://docs.aws.amazon.com/iot/latest/developerguide/authorizing-direct-aws.html>

Key use cases and architectures

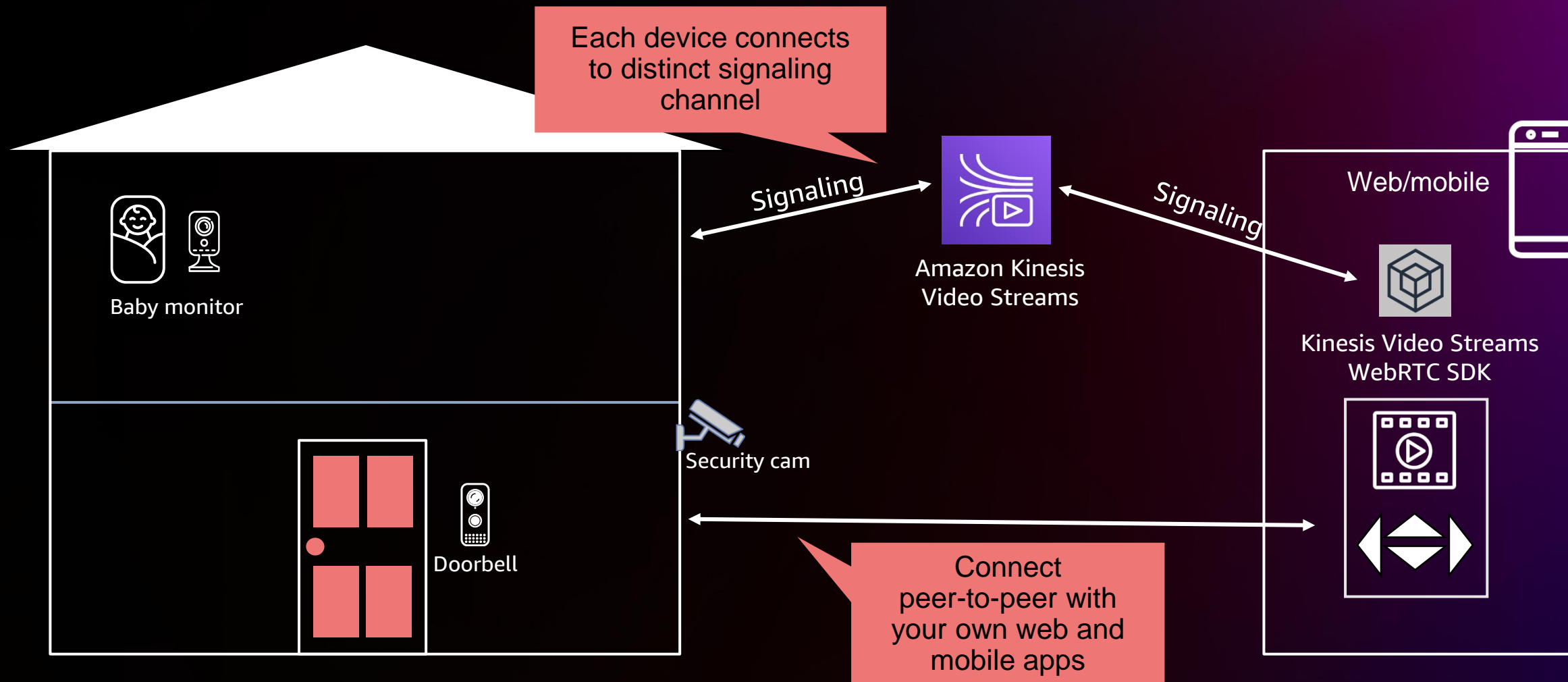
Automotive and robotics

WebRTC



Smart home

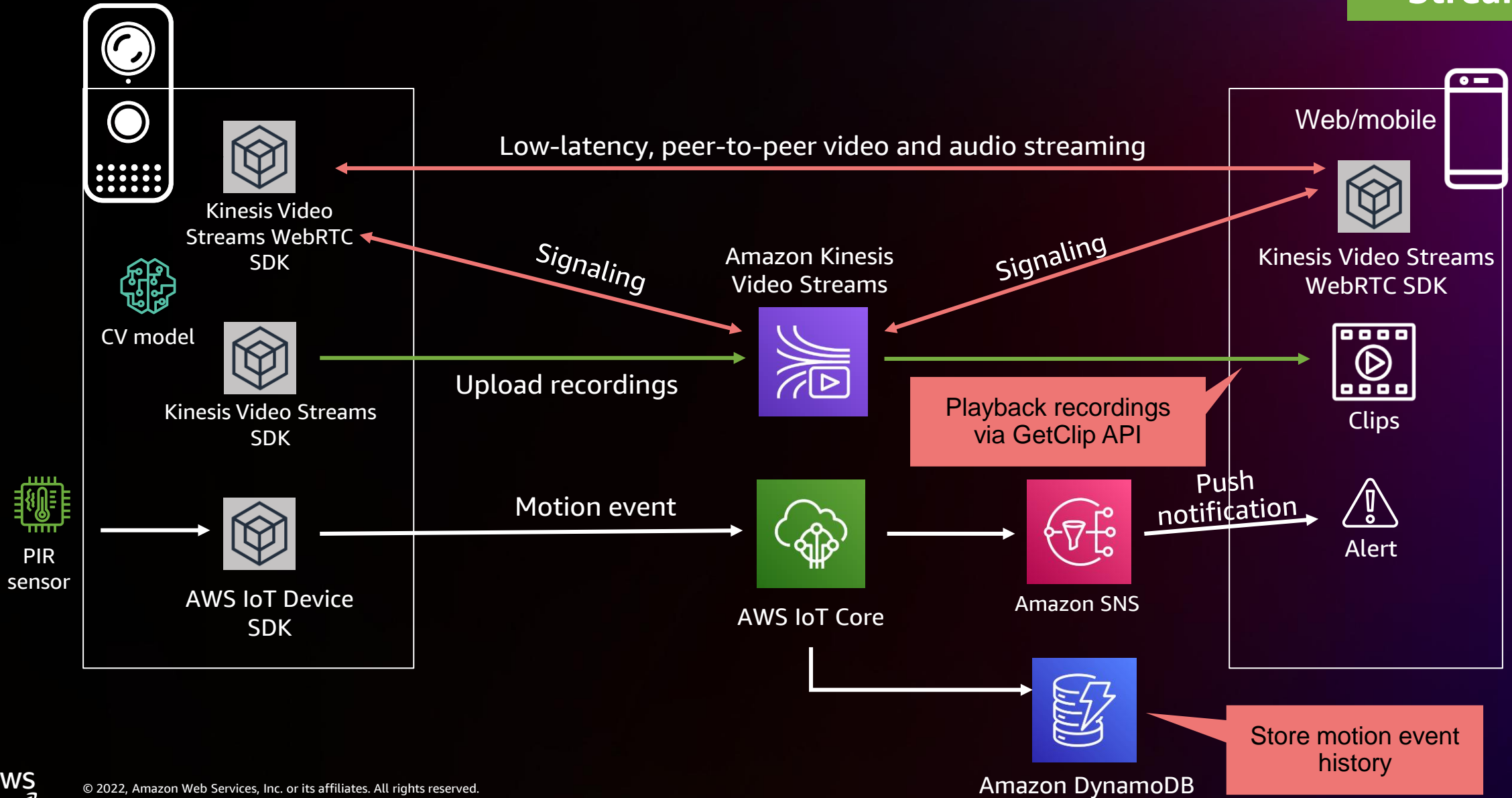
WebRTC



Smart home

WebRTC

Streams



Connect to Echo Show

WebRTC

