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ExpressPlay™ Multi-DRM Service:
Deployment Models

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Introduction

Intertrust's ExpressPlay™ Multi-DRM Service is the world's most robust and complete multi-DRM cloud offer, supporting Apple FairPlay Streaming, Adobe Access/Primetime, Google Widevine Modular, Microsoft PlayReady, and Marlin DRM. Our multi-DRM service is trusted by today's leading studios and OTT streaming operators to provide scalable DRM capabilities for mission critical content protection.

The multi-DRM cloud service helps to reduce the complexity of back-end systems and minimize the challenges of a diverse device landscape, including smart TVs, set-top-boxes, mobile devices, and more. The ExpressPlay DRM platform is designed from the ground up to support the most compelling use cases for online and offline distribution of protected content whether MPEG-DASH, HLS, or the emerging CMAF standard.

The ExpressPlay Multi-DRM Service scales effortlessly to over 25 million concurrent viewers as proven in India's largest OTT sports streaming platform, and it is used by China's largest OTT operator with more than 100 million subscribers.

Deployment Models

The ExpressPlay Multi-DRM Service is offered as two deployment models:

ExpressPlay Multi-DRM Cloud Service
A SaaS offering running in an Intertrust-managed instance of Amazon Web Services (AWS)

ExpressPlay Managed Private Cloud Service
The ExpressPlay components are divided between the Intertrust-managed AWS account and an operator-designated (AWS) account

ExpressPlay multi-DRM cloud service (SaaS)

Intertrust recommends that its customers use the ExpressPlay Multi-DRM Cloud Service (a SaaS offering), to leverage Intertrust's major investment in operations and support, designed for the exacting needs of large service providers and video streaming companies.

All components of this SaaS offering are deployed in the Amazon Web Services (AWS) cloud, hosted and managed by Intertrust. They are designed to be seamlessly scalable, fault tolerant and highly available. This service uses AWS Elastic Load balancing and Elastic Autoscaling and it scales up and down as the transaction load changes. Intertrust follows Amazon's recommended best practices to protect mission-critical information from accidental or deliberate theft, leakage, integrity compromise, or deletion.

The ExpressPlay multi-DRM service is currently deployed in five AWS Regions: US East (N. Virginia), US West (N. California), Europe (Ireland), Asia Pacific (Tokyo), and Asia Pacific (Singapore). All regions are identical and fully-functional, and highly redundant, with automated fail-over processes in place. Should the need arise, the service can be deployed in additional AWS regions in a matter of hours.

By using this service, customers enjoy the benefits of regular and automatic software and OS updates managed by a highly trained professional team operating the service 24x7x365 on a global basis.
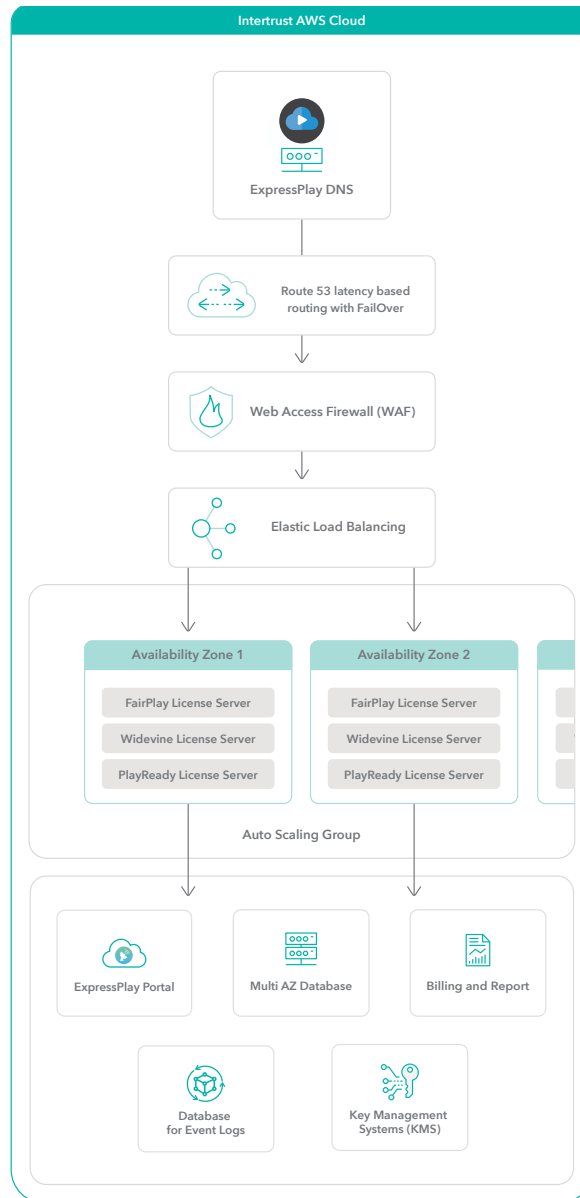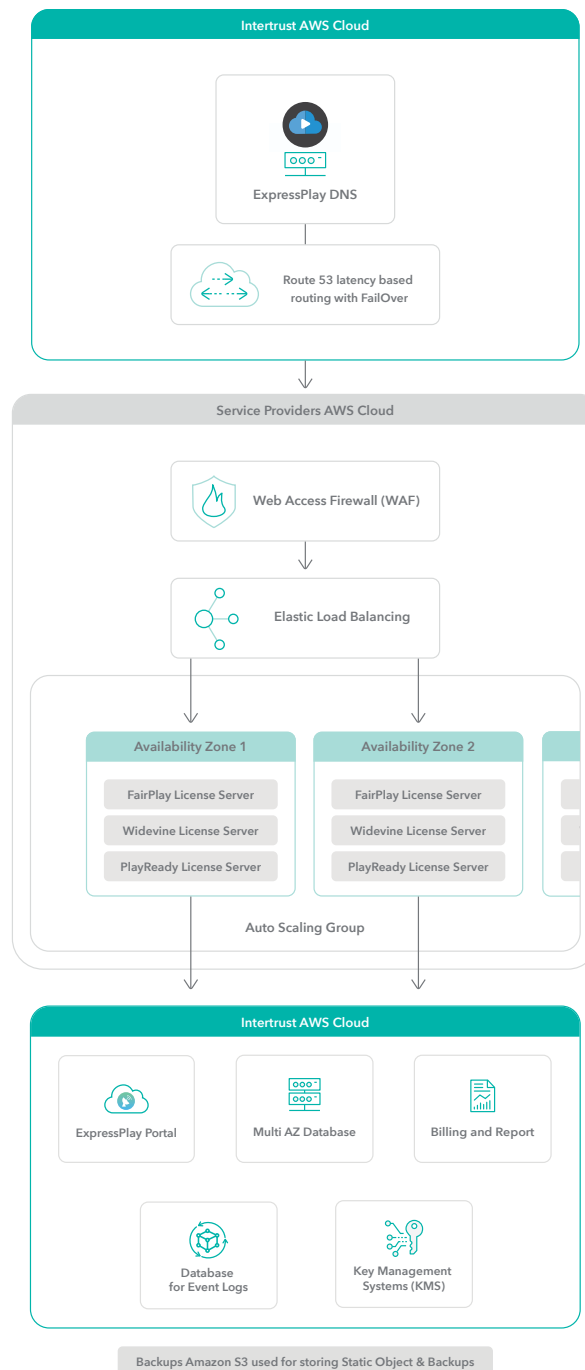
ExpressPlay managed private cloud service

Intertrust offers an alternative deployment model to service providers who prefer to leverage their own AWS environments. In this ExpressPlay Managed Private Cloud Service model, the ExpressPlay DRM License Service is deployed in the service provider's own AWS instance and billing account, and connects to the ExpressPlay DRM portal, hosted in the Intertrust cloud. This model is fully operated and managed by the Intertrust ExpressPlay DRM team.

The following requirements and characteristics apply to this deployment model:

- An AWS account that is separate from the service provider's other cloud processes is required. It may be a sub-account of the service provider's Master AWS account for billing purposes.

- The ExpressPlay support team requires Admin access to the separate AWS account to install and manage the ExpressPlay License Services.

- Access to servers and databases that are configured with ExpressPlay secret information will be limited to the ExpressPlay team only.

- The service provider can access the AWS console for monitoring purposes, and the ExpressPlay team can provide the ability to scale the service up/down and enable the service provider to manage the traffic.

ExpressPlay managed private cloud service vs. ExpressPlay multi-DRM cloud service

This section offers a detailed comparison between ExpressPlay Managed Private Cloud Service, which is deployed in the service providers' AWS environment, versus the ExpressPlay Multi-DRM Service (SaaS).

Features/Service Type	ExpressPlay Managed Private Cloud Service	ExpressPlay Multi-DRM Cloud Service (SaaS)
Uptime Guarantee	Depends on AWS SLA with the service provider	99.99%
Support Hours	24x7x365	24x7x365
Deployment	Installation and set-up is managed by the ExpressPlay team	Service is operational today
New Features and Upgrades	New features and upgrades require prior coordination with service providers and are performed by the ExpressPlay team	New features and upgrades are transparent to the customer and performed by the ExpressPlay team
Support Package Requirement	Mandatory Premium Support Package	Choice of Standard or Premium Support Package
Scale-Up / Down	Either managed by service provider or by the ExpressPlay team	The ExpressPlay team manages the service scale-up/down

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