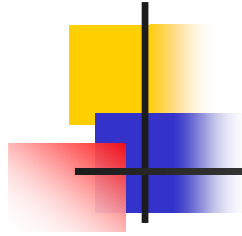


# Dynamic Streaming Protocol (DSP)

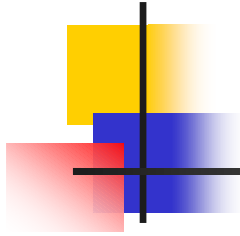


## What is Dynamic Streaming Protocol

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- An innovative video streaming protocol.
- Combines TCP streaming and UDP streaming over Web 3.0 peer-to-peer technology.
- Intelligently adapts to changing network conditions and server capacities.





# Key Features of Dynamic Streaming Protocol

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## ■ Adaptive Streaming

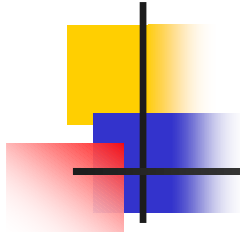
- Dynamically transitions between TCP streaming and UDP streaming in real time, ensuring seamless video delivery based on actual demands and network conditions.

## ■ Load Balancer Optimization

- Significantly reduces load balancer usage, optimizing content distribution and server efficiency, which translates to cost savings and enhanced performance.

## ■ Smooth Streaming Experience

- As connection numbers approach server capacity, DSP seamlessly switches to P2P mode, minimizing buffering, reducing latency, and delivering a smooth and reliable video streaming experience.



# Benefits of Using Dynamic Streaming Protocol

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## ■ Blockchain Integration

- Utilizes Web 3.0 blockchain technology to facilitate secure and transparent interactions between streaming participants.

## ■ Adaptive Streaming Algorithms

- Advanced algorithms monitor network conditions and user demands, dynamically selecting the optimal streaming mode.

## ■ P2P Technology

- Leverages P2P UDP streaming to efficiently distribute content, reducing server load and enhancing scalability.

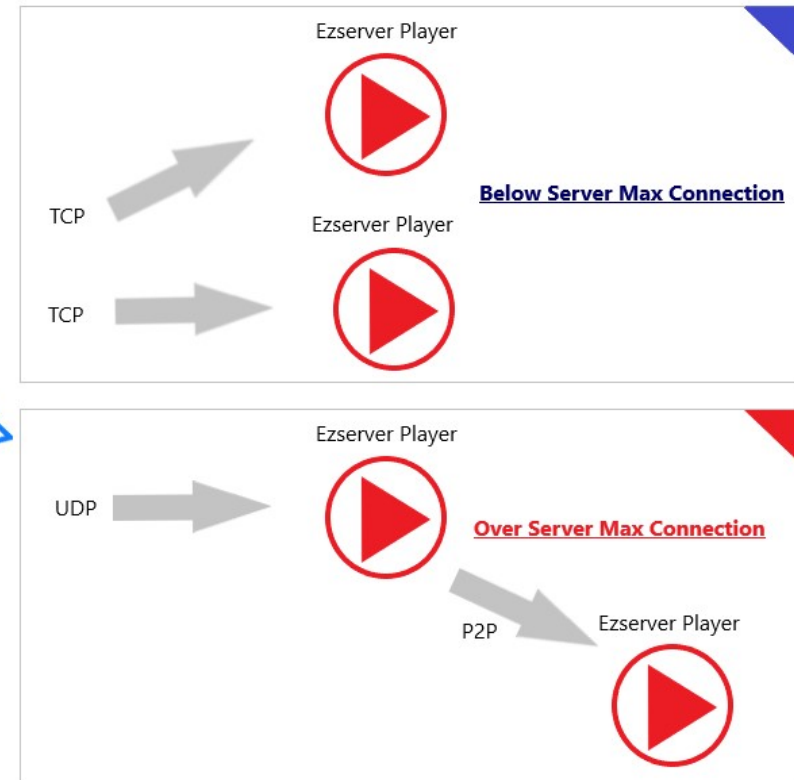
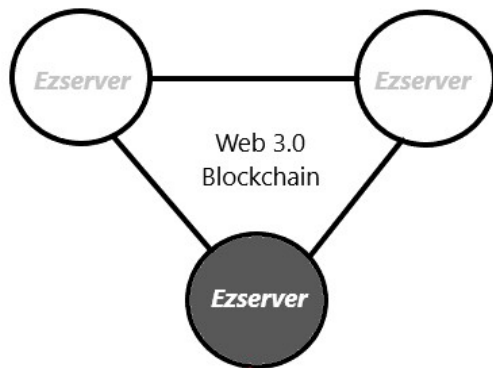
## ■ Load Balancer Management

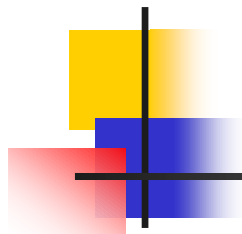
- Intelligently manages load balancer usage, optimizing server resources and preventing overloads.



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# DSP Architecture





## DSP Setting

### System Setting:

Max. Streaming No.

2000

Dynamic Streaming Rate

 0.00

( System switches to P2P mode up to **2000** connections. )

Without P2P

Dynamic Streaming Rate

 0.50

( System switches to P2P mode up to **1000** connections. )

With P2P at 1000 con.

Dynamic Streaming Rate

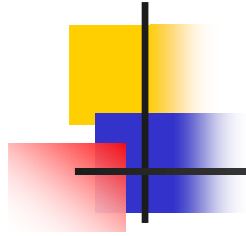
 1.00

( System switches to P2P mode up to **0** connections. )

Full P2P



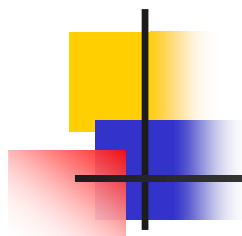
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## DSP Minimum Server Requirement

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<b>CPU</b>	<i>4v Core</i>
<b>RAM</b>	<i>8 GB</i>
<b>Storage</b>	<i>160 GB</i>
<b>Bandwidth</b>	<i>1 Gbps unmetered</i>

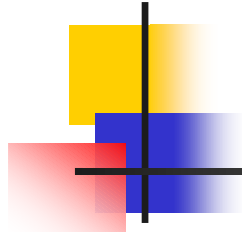


## DSP Minimum App Requirement

<b>Operating System</b>	<i>Android</i>
<b>CPU</b>	<i>Dual-Core(1.2xGHz)</i>
<b>RAM</b>	<i>1 GB</i>
<b>Storage</b>	<i>1 GB</i>
<b>Bandwidth</b>	<i>1 Gbps</i>
<b>Device</b>	<i>STB, Mobile Phone, Smarter TV</i>







## Conclusion

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- Dynamic Streaming Protocol represents a paradigm shift in video streaming, offering a cost-effective, efficient, and future-proof solution for content providers and viewers alike.
- With its unique blend of blockchain technology, adaptive streaming, and load balancing optimization, DSP is poised to transform the streaming landscape and deliver an exceptional experience to audiences around the world.