



Zero-Rating and Application Based Plans

Create value, increase revenue, and enhance customer experience with unlimited usage of popular applications



ZERO-RATING AND APPLICATION-BASED PLANS BENEFITS

- Complies with various net neutrality regulations, offer unlimited use of categories of applications versus individual applications
- Service provider-owned services should only be zero-rated if all other services in its class are also identically zero-rated
- Zero-rated traffic should not be prioritized in the network beyond reasonable network management
- Service providers should not be compensated by the content/application provider
- Offer three different packages: social networking, music, or video streaming, at various tiered prices based on bandwidth consumption

MARKET OVERVIEW

Applications, specifically social networking, continue to be a dominant internet phenomenon as consumers' daily reliance increases. Staying connected is so important that social networking and messaging applications are in the top 10 of the Global Internet Phenomena Report – for every region.

For service providers, the financial pressure to increase profitability and further monetize the network continues to build, even in the era where the average revenue per user (ARPU) continues to decline. To combat this need for additional revenue, some service providers offered unlimited plans to justify a higher price point, without adding further value to their offerings.

However, the challenges of unlimited plans have become evident. Firstly, ARPU is still declining for service providers when the only way to stay competitive in an unlimited market is to lower the price. Secondly, usage tends to increase drastically with uncapped plans, meaning the cost of expanding the network capacity also increases for the service provider. Finally, unlimited plans push all users into the same bucket without segmenting them, leaving no room for service creativity and personalization. Despite the fact that most consumers desire more data and the sense of being unlimited, service providers around the world are starting to move away from uncapped models.

By segmenting consumers through their usage behavior and the applications they deem as important, service providers can launch personalized plans with unlimited usage of those applications to add value and improve customer retention. This consumer mindset creates an ideal opportunity to create plans based on value and personalization, and not be reliant on price to achieve key business goals such as:

- Market differentiation
- Increased customer satisfaction and retention
- New and increased revenue streams

There is no need to wait for new technologies as this value-based service differentiation strategy can also be employed today by those service providers who are moving away from unlimited plans or who have a large, low-ARPU user base.

From a tactical perspective, zero-rating is one of the most powerful tools in the policy and charging belts of service providers. Zero-rated services are a game changer in a volume-based market, where it sits on top of the base quota of a plan to add more value for users.

Zero-Rating and Application Based Plans

Zero-Rating and Application-Based Plans offer service providers market differentiation while increasing the value offered to users

Zero-rating can be used in isolation or on top of the Usage-Based Services use case, with a base quota and several advanced options to bring more value to the end user and differentiate from competitors (see [Usage-Based Services use case](#) for more details).

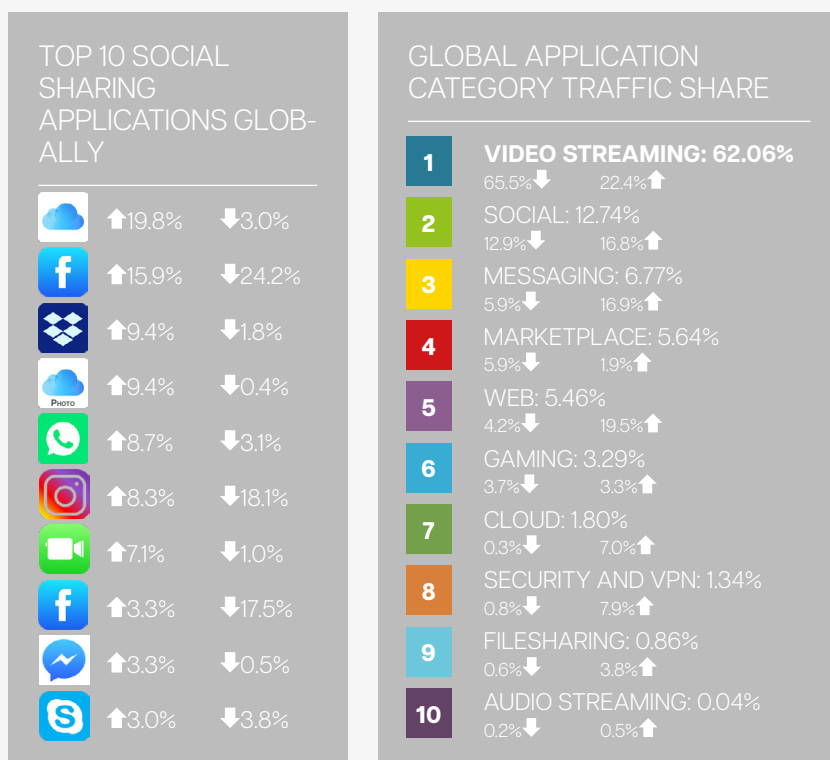
One of the most common and interesting uses of zero-rating is its role in delivering application-based plans. Typically, application-based plans have differentiated pricing for unlimited use of an application or a group of similar applications, and are usually a bolt-on or add-on to a base plan that has a separate bucket of quota.

Application-based plans can also be used to increase ARPU from low-end consumers, characterized by limited budget and data needs, as it gives them the ability to purchase plans that limit use to a specific application. Often, this initial plan acts as an introductory step to larger plans, because the cost and simplicity aren't barriers to initial data-based plans.

As shown in the Internet Phenomena Reports, the use of OTT-applications is still increasing year over year and, social sharing, video streaming, and gaming are on top of the list.

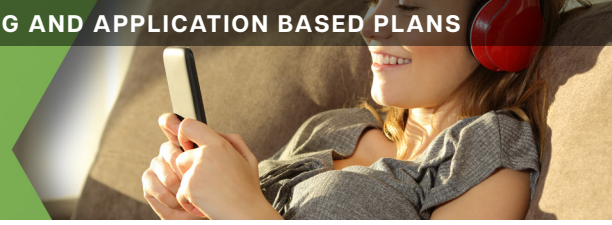
Figure 1

Both Social Media and Messaging are Social Sharing components. In the 2020 Mobile Internet Phenomena Report, they are at the top of the global traffic share – beaten only by video streaming



Social media has become incredibly important in everyday life and is therefore the most zero-rated application group in the world. Due to lower risk in terms of bandwidth and a high popularity by users worldwide, social media will continue to be a good starting point for service providers who desire to offer more value for users through application-based plans. In this digital-age, an unanticipated application can go viral overnight, creating a profitable opportunity to offer unlimited usage for service providers who can respond with agility and a fast time-to-market.

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Identify the best applications for zero-rating – high-value, low bandwidth

USE CASE OVERVIEW

Zero-Rating and Application-Based Plans leverages AppLogic Networks' industry leading capability to identify traffic. Specifically, AppLogic Networks offers an unparalleled level of accuracy and granularity when identifying applications or categories of applications; these are highly important factors for successful deployments of any policy requiring traffic identification.

From a signature perspective, AppLogic Networks boasts a large, frequently updated library with significantly more signatures than competing solutions. More importantly, the applications used for zero-rating are tracked closely by AppLogic Networks' ANI Classification Engine (ACE) to ensure accurate classification for billing purposes. The unique and leading traffic identification technique AppLogic Networks uses includes leveraging OTT providers' APIs to enhance the identification and minimize billing errors.

AppLogic Networks' Zero-Rating and Application-Based Plans Key Capabilities:

Prioritized Quality of Service

Where net neutrality allows, some service plans may offer to prioritize a specific type of application during times of congestion for a subscriber. With these plans, when a subscriber is given a "fair use" allowance during times of congestion, AppLogic Networks can prioritize that specific application type (video, social networking, etc.) to enhance quality of experience even during peak usage times.

Powerful Insights into Usage Patterns

AppLogic Networks' Analytics provides insightful and actionable data on user behavior and application usage to offer plans that balance demand with bandwidth. To ensure profitability, AppLogic Networks helps find the "sweet spot" of applications to zero-rate; those that are widely used, but aren't bandwidth intensive are considered a low risk for the service provider but still add value for the end user. In today's video-centric networks, some service providers launch service plans that contain zero-rated video streaming (even if the bandwidth requirements are higher). With AppLogic Networks' Video Streaming Management use case, service providers can manage bandwidth-hungry services while offering a high-demand service to their users.

Roaming Opportunities

On top of application-specific offerings, service providers can choose to zero-rate roaming traffic, either in association with a specific application category or all together. By monetizing the increase in international travel, service providers can avoid unsatisfied users and break into new segments with global businesses and international workers.

Figure 2

AppLogic Networks' Quota Manager can manage multiple quotas and the complexity of counting sponsored data traffic



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The ANI Classification Engine ensures accurate classification of the zero-rated traffic for billing purposes



Sponsored Opportunities

An alternative strategy to maintain profitability and a positive market position is through sponsored opportunities. AppLogic Networks' Quota Manager (**Figure 2**) manages concurrent quotas and the complexity of different billing entities inside the same network landscape. With the sponsored opportunities, accountability gets transferred to a third-party who pays for the data on behalf of the user.

With AppLogic Networks, third-party sponsors, especially advertisers and businesses, gain access to a new promotional channel and a large, well-defined audience that can be micro-segmented to fit campaign needs. While users benefit from free data and promotional offerings, service providers redeem the revenue from the third-party sponsor and enjoy beneficial co-branding opportunities.

Fast and Flexible Plan Creation

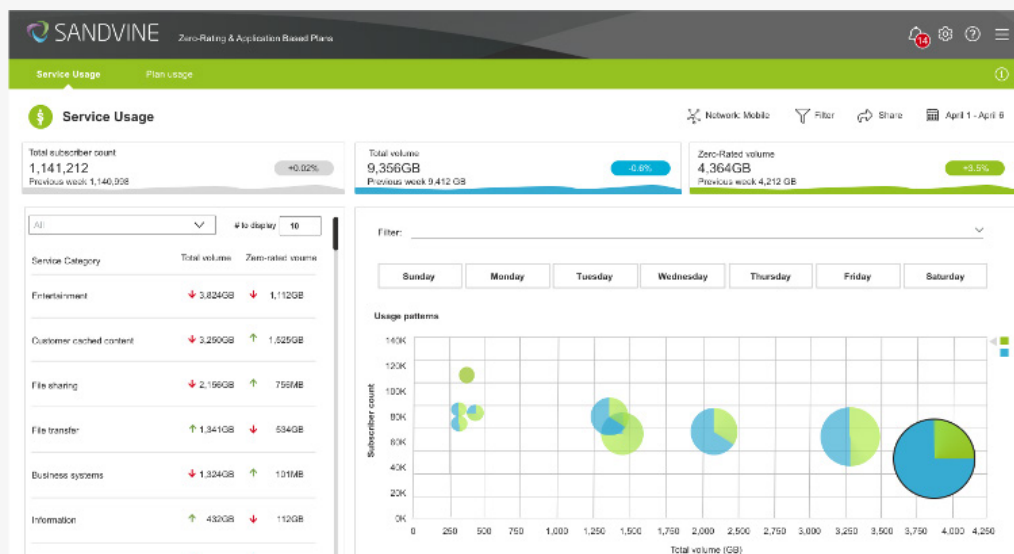
AppLogic Networks' policy and charging capabilities allow for fast plan creation, where new plans can be rolled out for prepaid or postpaid customers in as little as a few weeks, which can be critical as new applications can take off and have short-lived time in the market. When it comes to policy and charging, AppLogic Networks closes the loop by matching the same granularity of traffic identification with granularity of plans, without complexity or slow time to market. With the power of zero-rating, consumers get a personalized experience with the price-certainty they demand, and service providers therefore increase revenue and customer retention.

Visualization for Success

The starting block for any zero-rating activity is understanding and segmenting users based on their service and application usage. Once a service is launched, it is critical to track the adaptation and success rate as well as the impact on network resources. With AppLogic Networks' Active Network Intelligence Portal, a dashboard shows the usage trends through every day of the week, including peak hours and the network capacity used. Service providers can drill down to see the specific applications gaining the most traction and when, as well as what plans are most successful, what devices are being used, and how much data is consumed.

Figure 3

When implementing Zero-rating, keeping track of success-rate, such as service plan adoption and usage, is important to keep delivering high quality services.



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Zero-Rating and Application-Based plans provides service providers the visibility required to monetize the highly valuable phenomena areas through innovative service plans, and stay differentiated in a highly competitive market.

ABOUT APPLIC NETWORKS

AppLogic Networks' cloud-based App QoE portfolio helps customers deliver high quality, optimized experiences to consumers and enterprises. Customers use our solutions to analyze, optimize, and monetize application experiences using contextual machine learning-based insights and real-time actions. Market-leading classification of more than 95% of traffic across mobile and fixed networks by user, application, device, and location creates uniquely rich, real-time data that significantly enhances interactions between users and applications and drives revenues. For more information visit <https://www.applogicnetworks.com> or follow AppLogic Networks on X @AppLogic Networks.



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