

APPRAISAL OF JIO

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Abstract: Telecom sector is one of the fastest growing regions in India. Therefore, many stock-holder like to invest in telecommunications companies. This sector is facing major incidents in the current decade of 2G spectrum auction and scam, 3G and 4G spectrum allocation. On September 1, 2016, a big business concern, Reliance Industries Limited. Launched the new Reliance Jio Network services of its subsidiary with attractive offers for both voice calls and 4G internet mobile services. This threatens more mobile service providers who want to maintain their market share. The study analyzed the impact of the incident on India's telecommunications sector using the system of a standard event.

Keywords- LTE, LYF, TRAI, MSO

1. INTRODUCTION

Jio is an Indian mobile network operator. Owned by Reliance Industries and New Mumbai, the headquarters of Maharashtra, it supports a national LTE (Long Term Evolution) network in 22 telecommunications circles. Jio does not offer 2G or 3G services and conversely uses voice over Long Term Evolution to support voice service to his network.

In today's fast-paced world, the wireless methodology has changed our spirit in multiple forms. For a long time, we required a wired computer on a port to connect. Even the wired phone also makes old things. Today, we use our mobile phones for banking, to see the obtainable of tickets in a movie theater and many others. Wireless connection is a remote relocation of information in the absence of using the appropriate electrical conductors or "wires". In addition, wireless networking assigns to any type of networking that does not contain cables. It also helps to reduce cable costs for networking, to provide mobility. And then the 4th Generation comes with new development. Mobile networks have grown significantly over the last three decades. The cellular concept was introduced with the 1st Generation network. Today, 4th Generation is preparing for a storm in the technology markets and the railways have decided to seize this opportunity.

So the addiction comes with this brand new idea of "RELIANCE JIO". Reliance firmly accepts that India has the ability to lead the world in modernization through its efficiency. In the end, Reliance was thinking of building a digital transformation in India. Jio is able to offer a unique combination of telecommunication, high-speed data, digital business, media, and payment services. Jio Transit will provide 4th Generation services at the Pan-India level using LTE methodology. Step Telecom of Reliance Industries Ltd., established in 2007, is located in Mumbai, India.

2. HISTORY

In June 2010, Reliance Industries acquired 96% of the capital of Infotel Broadband Services Limited (IBSL) for 4,800 crores. Although there is no list yet, IBSL was the only broadband company in India's 22 zones at the 4th Generation auction launched earlier this year. Later, Infotel Broadband Services Ltd, a real-time telecommunications operator, was named Reliance Jio Infocomm Limited (RJIL) in January 2013.

At that time, India lacked much connectivity and was the most critical digital resource. The data was not just statistics, but it was too much to the detriment of the non-settlement of the majority of Indians. Said Mukesh Ambani.

In June 2015, Jio declared that it would launch its services across the country by the end of 2015. However, four months later, in October, the company's spokesperson sent a news release. that the launch had been postponed to the first quarter of the 2016-17 financial year.

Later in July, a public interest petition filed with the Supreme Court disputed the litigation of the Centre for Public Interaction, filed by a non-governmental organization, challenging the granting by the Indian government through Prashant Bhushan, a Pan-India license. PIL was also charged with allowing Jio to provide its 4G data service with a voice service with an additional payment of ₹165.8 million.

However, the Department of Telecom (DoT) has however canceled all CAG claims. In its statement, the telecommunications department said that the 3G and BWA spectrum rules did not prevent BWA from providing voice telephony to the winners. As a result, PIL was fired and the charges were dismissed.

Ambani said that when the United States established the 1st Generation mobile network, Europe reached 2G and China jumped with 3G, Jio created the world's largest data network entirely dedicated to 4G LTE technology.

He said it would make India a 4th Generation leader in 2019. "It took 25 years for the telecom industry to build the Pan-India 2G network, and Jio only took three years to build the network. 4G LTE, which is very large and very advanced. 5G technology is ready even today. "Jio has raised the voice free for life and has also provided high-quality data at the cheapest price in the world - at a tenth in the United States, he said. And start the business More than 100 million subscribers were acquired in just 170 days.

Jio has changed everything by creating abundant, inexpensive data that is accessible in every region of the country. "Reliance Industries launched Jio in September 2016. And today, Jio has become the biggest game changer in India."

3. BETA LAUNCH

On December 27, 2015, 4G facilities will be initiated internally for Jio's associates, staff and families. Bollywood actress Shahrukh Khan, brand ambassador of Jio, initiated the program at Reliance Corporate Park in Navi Mumbai with musician AR Rahman with celebrities such as Ranbir Kapoor and Javed Jaffrey and filmmaker Rajkumar Hirani. Nearly 35,000 workers of Reliance Industrial Enterprises were seen, some of whom were closely related to nearly 1,000 sites, including Dallas in the United States.

4. COMMERCIAL LAUNCH

The enterprise began trading economically on September 5, 2016. In the first month, Jio announced that it had purchased 16 million customers. It is the fastest growing worldwide of all mobile network operators. Jio crossed the \$ 50 million mark in 83 days after its launch, which then crossed 100 million customers on February 22, 2017. It had 227 million subscribers until July 2018.

5. VISION

5.1 Inexpensive Gadgets

Jio has worked with every major gadget producer in the world to assure the opportunity of 4G LTE smartphones at all price levels, from extreme superior models on hand, for second and entry-level models

5.2 Digital Cash

Jio imagines a new India that will use digital cash rather than paper money, a safer and more appropriate way of doing business. Jio Money will play an important role in providing a platform for Jio's digital cash and digital payments activities, affordable and secure digital payments.

5.3 Jio Drive

Micro and compact marketing may soon have access to personalized booth technology, which once again was a firm foothold for large companies, giving them new hope to compete for a global look.

5.4 Digital Education

By adopting remote areas, teachers and students should be able to adapt, mobilize knowledge and training techniques for the new age, and in this way, the level of education should be completely distinct on another plan.

5.5 Digital Healthcare

Expert medical advice will be accessible everywhere, at any time - able to prevent their practice with doctors, and our country offering an aspect of life to millions of people.

5.6 Digital Entertainment and social connectivity

Jio Chat is capable communication application that combines chat, voice, video call, conference, file sharing, photo sharing, and more. Jio Play allows users to sell HDTVs anytime, on any device, in hundreds of channels, categories, and languages. Jio Beats is a leading digital music delivery service that gives an immediate approach to millions of songs and playlists. Jio Mags and Jio News use magazines and have an approach to the most popular news collections published by leading publishing houses in various languages.

6. PRODUCTS AND SERVICES

6.1 LYF smartphones

Fig 1. An image of LYF WATER 2 with IPS display.



phone

Source: <https://en.wikipedia.org/wiki/Jio>

On June 2015, Jio reached an agreement with the national handset manufacturer, Intex, to supply 4G handsets capable of voice over LTE (VoLTE). Although, in October 2015, Jio introduced its own brand of mobile phones, named LYF.

On January 25, 2016, the company released its LYF smartphone series with Water 1, in which three other handset models were introduced by Reliance Retail's, namely Water 2, Earth 1. and Flame 1.

6.2 Jio Apps

In May 2016, Jio introduced a bundle of multimedia applications on Google Play as part of its upcoming 4G services. Although the applications are available for download for everyone, a user will need a Jio SIM card to use them. In addition, most applications are in the beta phase, including the best applications.

- JioChat - instant messaging app
- JioCinema - online HD video library
- JioCloud - cloud-based backup tool
- JioMags - e-reader for magazines
- JioMoney Wallet - online payments/wallet app
- JioSaavn (earlier, JioMusic) - for online and offline music streaming in English and Indian languages
- JioSecurity - security app
- Jio4GVoice (earlier, JioJoin) - VoLTE phone simulator
- MyJio - manage Jio account and digital services associated with it

6.3 JioPhone

Fig 2. An image of Jio Phone



Source: <https://en.wikipedia.org/wiki/Jio>

6.3.1 Jio Phone

On July 21, 2017, Jio launched its first inexpensive 4G versatile phone, managed by KaiOS, named JioPhone. The cost declared is ₹0, with a deposit of 1500 rupees that the user can return back after returning to JioPhone in Jio Store after 3 years. This phone was introduced for beta users on August 15, 2017, and pre-booking for everyday users on August 24, 2017.

6.3.2 JioPhone 2

A second model with a QWERTY keyboard, as well as Facebook, WhatsApp, and YouTube applications were introduced in July 2018 for ₹2,999.

6.4 4G BROADBAND

The company introduced its 4G broadband services in September 2016 all over India. It is expected to be released in December 2015 as some reports indicate the company was seeking for the latest government permit. Jio Fourth Generation (4G) provides data and voice services, such as instant messaging and peripheral services, such as streaming movies and music streaming.

The company has a network of greater than 2,50,000 km of fiber optic cable in the country, which it will share with local cable companies to establish broadband connections for its broadband services. In addition to his multi-service operator (MSO) license, Jio will also serve as a distributor of television channels and offer on-demand television service on his network.

6.5 JioFi

Jio has also launched Wi-Fi routers by the name JioFi.

7. CONTROVERSIES

Issue with incumbents

In September 2016, the Telecom Regulatory Authority of India (TRAI) invited Jio to discuss the issue of mutual relationships between operators of the country's existing telecom operators such as Bharti Airtel, Vodafone, and Idea Cellular. As a result, Jio complained to TRAI and the Department of Telecom (DoT) that they did not accept their commercial agreements to use their network resources for their operators. The company added that the operators were trying to challenge their admission into the telecommunications spectrum. Although, the telecommunications department rejected the request and ordered a trial to help settle the dispute peacefully. In addition, the Cellular Operators Association of India (COAI) asked TRAI to include all operators in the discussion instead of three.

The current operators had already contacted the Prime Minister's Office of the country last time to reiterate their status, claiming that they were "not obliged" in any way or in any situation that would prompt Jio's demands to establish points of contact. Because they do not have a network or financial resources that close the next huge classes. Potentially unmanaged voice traffic. "Mukesh Ambani, the owner of Jio, said: "All operators have said publicly last week that they will provide it (interconnect and MNP). We are waiting for all these big companies to have their own vision to protect them. I do not think they will violate the law. "Commenting on the portability of the number, he said:" This number is the user's number. None of the operators can create a problem if they want to change the operator. "However, on September 12, 2016, Idea Cellular authorized Jio to use its interconnected access points.

8. ISSUES FACED BY JIO

8.1 Voice call failures

Reliance Jio is thrust with existing operators on coordination points. Jio has blamed Airtel, Vodafone and Idea Cellular of providing insufficient interconnection points, which resulted in the loss of call. Jio found data for September 22 that the volume of 12 million calls to its subscribers would not have failed. Of the 6.13 million call attempts made on the Airtel network on September 22, 4.8 million or 78.4% of calls failed. The failures on the Vodafone network increased by 84.1%, while the 3.95 million calls went from 4.69 million. 3.33 crore calls were received in the call received by Idea.

Bharti Airtel makes a return to Reliance Jio on the issue of network connectivity and because of its "readiness", due to insufficient investigative efforts and the acquisition of many subscribers at the pre-launch stage itself.

8.2 Decreased internet speed

With the addition of Jio network subscribers, the speed of geographic data services has dropped significantly since September 5th. Now Internet speed: 6 to 10 MB from 50 Mbps during the launch stage.

On paper, the distinction is very large, but in the case of average consumption, 8Mbps Speed can also work perfectly. However, the geographical connection is often lived to the detriment of the user experience. The user has complained about the different speeds despite any change in the location.

8.3 Buggy Jio apps

Reliance Jio Applications has not a manifest compatible achievement, but the scheme of free content fits well to the Indian audience.

The Jio TV application is often kept under accident and has a long start-up time, which is also the case for most applications published by Jio. According to our experience, Jio4GVoice is one of the most glazed Jio applications. The application frequently unsuccessful to load and when it does, the experience is very slow.

8.4 Lack of VOLTE support in older phones

Those who do not have telephones that support VOLTE automation should not make voice calls without using the Jio4GVoice application. As noted above, it appears to be a buggy, a weakness making obsolete the free voice communication feature fair for new users. In addition to VOLTE support, most Indian smartphone customers are still connected to 3G phones. Jio Sims will not bring them any benefit.

8.5 Battery consumption

Reliance Jio started its Internet services on the 4G band. There is no distinction between 2G or 3G service rates and 4G connections, with new subscribers being switched to Jio. The only restriction with 4G services is that they take batteries and phone tolls, forcing the subscriber to charge again and again. With the choice of 2G or 3G, the user cannot switch to a slow connection to save battery power. The combination of Jio 4G services with Reliance Telecom 3G and 2G facilities can resolve this issue in the near future.

Conclusion

Reliance Jio has converted into a strong cast in India and delivering consumer comfort is one of their most important goals. It offers unlimited free call and data services and offers text messages because people are usually dependent on broad network coverage and good 4G services in their daily lives.

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