



MEDIA COVERAGE REPORT


Press Meet in New Delhi

On

“Atmanirbhar Secured Internet Access”

on 2nd February 2021

**SUBMITTED BY
CORPORATE PUBLIC RELATIONS
ITI LIMITED**

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IPv6: India aims to become Atmanirbhar in secured Internet access

India ranked No. 1 in IPv6 worldwide with nearly 60% adoption, followed by Belgium (58%). Thanks to Reliance Jio's greenfield network that holds 91.8% of the IPv6 subscriber base, capturing second position to T-Mobile (92.3%), according to Akamai



NEW DELHI: India is aiming to become Atmanirbhar (self-reliant) in Internet connectivity and mulling to set up the IPv6 or Internet Protocol version VI-based root server locally to safeguard critical digital infrastructure, ending the foreign dominance.

"India is the largest subscriber of IPv6 contributing to more than 50% of the total base worldwide. The IPv6 initiative aims to boost a trusted and fully-secure digital infrastructure," Rakesh Mohan Agarwal, chairman, ITI Limited told ET Telecom.

India ranked No. 1 in IPv6 worldwide with nearly 60% adoption, followed by Belgium (58%). Thanks to Reliance Jio's greenfield network that holds 91.8% of the IPv6 subscriber base, capturing second position to T-Mobile (92.3%), according to Akamai. Back in 2009, India had first come up with the IPv6 roadmap, and the task was given to the state-run Telecom Engineering Centre (TEC) under Agarwal, who conducted more than 50 workshops nationally to bring awareness.

Further, in 2012, another roadmap was unveiled by the Department of Telecommunications (DoT), and had chalked out the strategy with collaboration with a Japanese laboratory. But the situation has so far not progressed much.

Billionaire Mukesh Ambani-owned Reliance Jio, a native IPv6 operator that forayed into commercial telecom services in 2016, has led to a rapid rise in the country's IPv6 user base from mere 1% to 15% five years ago, to nearly 92% today.

"ITI will extend full support in taking things to the next level for the betterment of the country's digital infrastructure. The initiative to connect devices with IPv6 will safeguard Digital India program and place the country at an advantageous position," Agarwal said.

Prime Minister Narendra Modi's prestigious Digital India umbrella program, launched in 2015, aims to facilitate 100% mobile telephony, digital delivery of citizen-centric services, and a high-speed broadband for 1.3 billion Indians.

In the third phase of the ambitious IPv6 roadmap, the private industry should come forward and play a role in safeguarding the connected infrastructure indigenously, to achieve the Atmanirbhar connected Bharat or a connected self-reliant India, the top official said.

If India becomes successful in establishing a root server locally, it could provide multifold benefits since IPv6 can assign nearly 340 trillion IP addresses and corresponding devices in comparison to 4.3 billion IPv4 addresses.

The latest version would also boost billions of connected devices anticipated in the Internet of Things (IoT) era following the launch of fifth generation (5G) commercial services.

Out of 13 root servers presently, the US alone hosts 10 of them, two are located in the EU, and one in Japan. Both Russia and China have though moved ahead to set up their own servers in a bid to end Western dominance.

Industry veteran and Bharat IPv6 Forum chairman Satya N Gupta said that a homegrown root server would be essential for security and data protection purposes as well as to overcome ever-growing cyber threats.

"We have indigenous capacity. Such an initiative is either taken by the state-run company or a local private entity, and the industry can contribute in making it operational," he said, adding that such an initiative can be replicated and developed for neighboring countries as well.


Gupta said that the ambitious initiative would also safeguard the Work-from-Home (WFH) or remote-work culture since it can allocate a single Virtual Private Network (VPN) address to every individual home, and can be fully secured.

India's capability to create a root server would require extensive research and development (R&D) activities particularly in the software domain, and if it gets an administrative nod, it would be independent with IPv6 functionality.

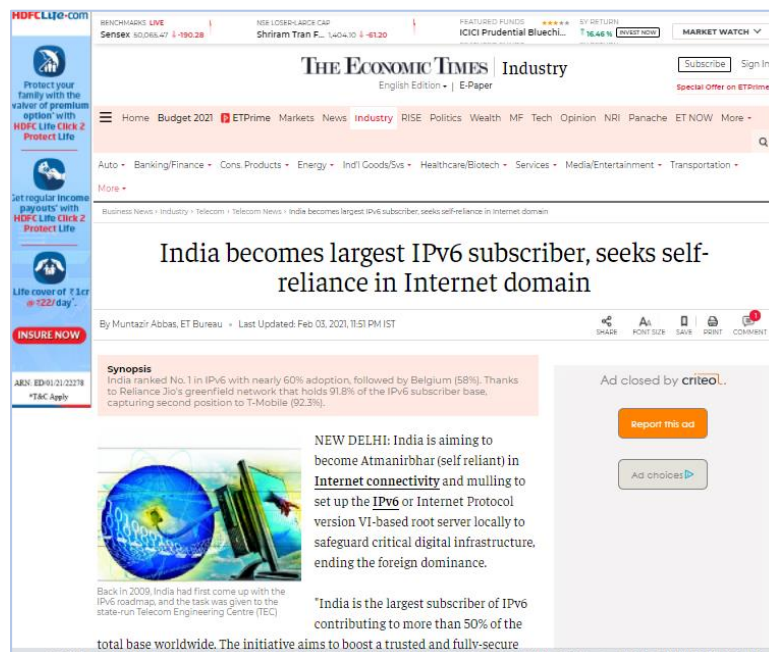
With digital connectivity becoming pervasive and the Internet as a key resource for socio-economic development, the root server would play a pivotal role in the safety and stability of the Internet at the top of the Domain Name System or DNS.

The prestigious program, if approved, may be undertaken by the National Internet Exchange of India (NIXI). Some of the present and former government officials and veterans such as Anil Jain, chief executive of NIXI, Dr. Govind, former NIXI chief, RK Bahuguna, former chairman, RailTel and Praveen Misra senior scientist at the Education and Research Network (ERNET) have come forward to collaborate in the national initiative.

The recently-launched forum is also planning to bring a whitepaper on IPv6 by July this year, to further advise the policymakers on next steps to achieve self-reliance in the Internet domain.

	Publication: The Economic Times
	Date: 03.02.2021
	Link: https://economictimes.indiatimes.com/industry/telecom/telecom-news/india-becomes-largest-ipv6-subscriber-seeks-self-reliance-in-internet-domain/articleshow/80675448.cms?from=mdr

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The screenshot shows the Economic Times website interface. At the top, there are market indices like Sensex and Nifty. The main header features the newspaper's name and the 'Industry' section. The article title is prominently displayed in the center: 'India becomes largest IPv6 subscriber, seeks self-reliance in Internet domain'. Below the title, there is a synopsis and a main text block with an image of a globe and a computer monitor. The article is attributed to Muntazir Abbas and dated February 03, 2021.

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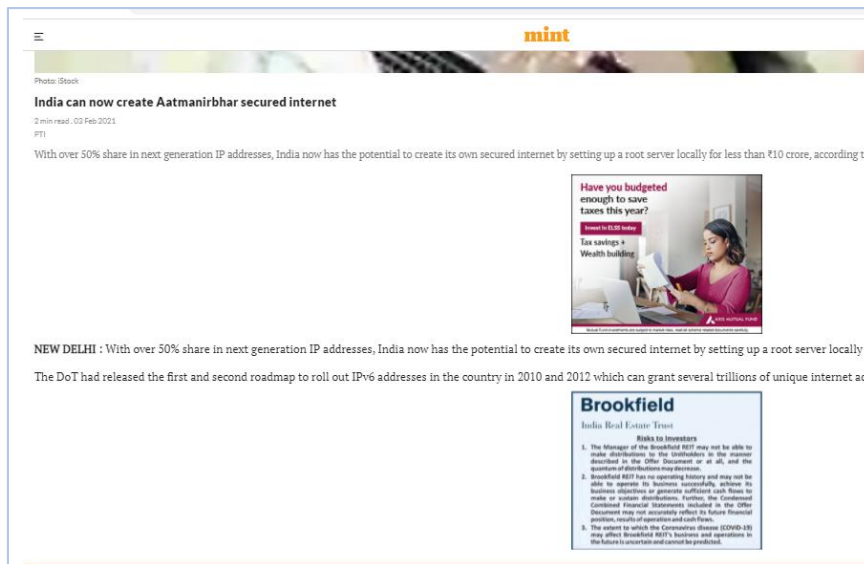
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	Publication: Mint
	Date: 03.02.2021
	Link: https://www.livemint.com/technology/tech-news/india-can-now-create-aatmanirbhar-secured-internet/amp-11612363709493.html

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"The work on IPv6 started in 2006. India was last to implement IPv6 roadmap. It now has over 50 per cent market share in IPv6 address and leads the world in terms of subscribers," ITI Chairman and Managing Director RM Agarwal told PTI.

He was responsible for driving the implementation of IPv6 adoption in the country under his portfolio as Deputy Director General, Network Technology at the Department of Telecom (DoT).

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"There are only about 3 billion IPv4 addresses which are already exhausted whereas under IPv6 there are several trillions of IP addresses. Reliance Jio contributed in taking India to the leadership position. Each of Reliance Jio customers are connected through IPv6 address. We can now have our Aatmanirbhar secure internet. India can now set up its own root server with less than ₹10 crore," IPv6 Forum chairman Satya N Gupta said.


He said IPv6 Forum is working to implement and expand IPv6 in India to develop the platform indigenously by using trusted devices. At present, there are 13 root servers which play a vital role in working on the internet globally. 11 root servers are located in the US and 1 each in Europe and Japan.

"The Internet will stop working if any of the root servers are switched off. With an indigenous root server, India can continue to communicate within its own jurisdiction. Government, industry and other stakeholders can jointly manage it. We want technocrats in India to develop IPv6 servers," Gupta said.

He said industry alone can develop the server which will also enhance cyber security in the country. "The National Internet Exchange of India (Nixi) already has expertise in IPv6. The company can develop native technologies on IPv6 and export them as well. Theoretically, every country will have its own root server," Gupta said.

Agarwal said that ITI will conduct workshops for expansion of IPv6 technology in the country and also support other Asian countries.

"We were supported by other countries when we were in the first phase. Now it is our job to help others. IPv6 is pivotal for Digital India. To support 5G and related technologies like machine-to-machine, internet of things etc we need IPv6," Agarwal said.

	Publication: Business Standard
	Date: 03.02.2021
	Link: https://www.business-standard.com/article/economy-policy/india-has-potential-to-create-aatmanirbhar-secured-internet-says-iti-forum-121020301772_1.html

[India has potential to create Aatmanirbhar secured internet, says ITI forum](https://www.business-standard.com/article/economy-policy/india-has-potential-to-create-aatmanirbhar-secured-internet-says-iti-forum-121020301772_1.html)



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	Publication: Financial Express
	Date: 03.02.2021
	Link: https://www.financialexpress.com/industry/technology/india-can-create-its-own-aatmanirbhar-secured-internet-by-setting-up-root-server-locally-for-under-rs-10-cr/2187299/

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The screenshot shows a news article on the Financial Express website. The headline is "'India can create its own Aatmanirbhar secured internet by setting up root server locally for under Rs 10 cr'". The article text states: "The DoT had released the first and second roadmap to roll out IPv6 addresses in the country in 2010 and 2012 which can grant several trillions of unique internet addresses unlike the old regime of IPv4 which has limit of 3 billion IP addresses." Below the text is a photo of a person's hands typing on a laptop keyboard. A quote from ITI Chairman and Managing Director RM Agarwal is visible: "ITI Chairman and Managing Director RM Agarwal said industry alone can develop the server which will also enhance cyber security in the country. (File image)".

With over 50 per cent share in next generation IP addresses, India now has the potential to create its own secured internet by setting up a root server locally for less than Rs 10 crore, according to state-run ITI and industry platform IPv6 Forum.

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“The work on IPv6 started in 2006. India was last to implement IPv6 roadmap. It now has over 50 per cent market share in IPv6 address and leads the world in terms of subscribers,” ITI Chairman and Managing Director RM Agarwal told PTI.

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He said IPv6 Forum is working to implement and expand IPv6 in India to develop the platform indigenously by using trusted devices. At present there are 13 root servers which play a vital role in working on the internet globally. 11 root servers are located in the US and 1 each in Europe and Japan.


“The Internet will stop working if any of the root servers are switched off. With an indigenous root server, India can continue to communicate within its own jurisdiction. Government, industry and other stakeholders can jointly manage it. We want technocrats in India to develop IPv6 servers,” Gupta said.

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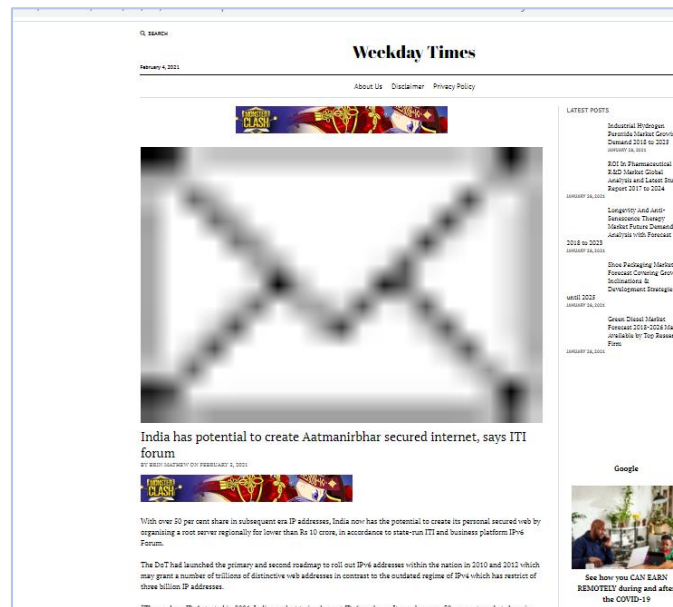
“The National Internet Exchange of India (Nixi) already has expertise in IPv6. The company can develop native technologies on IPv6 and export them as well. Theoretically, every country will have its own root server,” Gupta said.

Agarwal said that ITI will conduct workshops for expansion of IPv6 technology in the country and also support other Asian countries.

“We were supported by other countries when we were in the first phase. Now it is our job to help others. IPv6 is pivotal for Digital India. To support 5G and related technologies like machine-to-machine, internet of things etc we need IPv6,” Agarwal said.

	Publication: Weekday Times
	Date: 03.02.2021
	Link: https://weekdaytimes.com/business/2021/02/03/india-has-potential-to-create-aatmanirbhar-secured-internet-says-iti-forum

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With over 50 per cent share in subsequent era IP addresses, India now has the potential to create its personal secured web by organising a root server regionally for lower than Rs 10 crore, in accordance to state-run ITI and business platform IPv6 Forum.

The DoT had launched the primary and second roadmap to roll out IPv6 addresses within the nation in 2010 and 2012 which may grant a number of trillions of distinctive web addresses in contrast to the outdated regime of IPv4 which has restrict of three billion IP addresses.

“The work on IPv6 started in 2006. India was last to implement IPv6 roadmap. It now has over 50 per cent market share in IPv6 address and leads the world in terms of subscribers,” ITI Chairman and Managing Director RM Agarwal advised PTI.

He was chargeable for driving implementation of IPv6 adoption within the nation underneath his portfolio as Deputy Director General, Network Technology on the Department of Telecom (DoT).

Internet works by connecting web protocol (IP) addresses of internet sites, subscribers and so on. Earlier IPv4 model of IP addresses was in work that are restricted in numbers and never sufficient to cater to the rising demand of information providers.

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position. Each of Reliance Jio customers are connected through IPv6 address. We can now have our Aatmanirbhar secure internet. India can now set up its own root server with less than Rs 10 crore,” IPv6 Forum chairman Satya N Gupta mentioned.

He mentioned IPv6 Forum is working to implement and broaden IPv6 in India to develop the platform indigenously through the use of trusted units. At current there are 13 root servers which play a significant position in working on the web globally. 11 root servers are situated within the US and 1 every in Europe and Japan.

“The Internet will stop working if any of the root servers are switched off. With an indigenous root server, India can continue to communicate within its own jurisdiction. Government, industry and other stakeholders can jointly manage it. We want technocrats in India to develop IPv6 servers,” Gupta mentioned.

He mentioned business alone can develop the server which can even improve cyber safety within the nation.

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Agarwal mentioned that ITI will conduct workshops for growth of IPv6 know-how within the nation and in addition assist different Asian international locations.

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Publication: Yahoo Finance
Date: 03.02.2021
Link: https://in.finance.yahoo.com/news/india-now-create-aatmanirbhar-secured-144442129.html

[India can now create Aatmanirbhar secured internet](https://in.finance.yahoo.com/news/india-now-create-aatmanirbhar-secured-144442129.html)

The screenshot shows a news article on the Yahoo Finance website. The article title is "India can now create Aatmanirbhar secured internet". The text discusses India's potential to create its own secured internet by setting up a root server locally for less than Rs 10 crore, according to state-run ITI and industry platform IPv6 Forum. It mentions that the DoT had released the first and second roadmap to roll out IPv6 addresses in the country in 2010 and 2012, which can grant several trillions of unique internet addresses unlike the old regime of IPv4 which has a limit of 3 billion IP addresses. The article also states that the work on IPv6 started in 2006, and India was last to implement the IPv6 roadmap. It now has over 50 per cent market share in IPv6 address and leads the world in terms of subscribers, according to ITI Chairman and Managing Director RM Agarwal. He was responsible for driving implementation of IPv6 adoption in the country under his portfolio as Deputy Director General, Network Technology at the Department of Telecom (DoT). The article explains that internet works by connecting internet protocol (IP) addresses of websites, subscribers etc. Earlier IPv4 version of IP addresses was in work which are limited in numbers and not enough to cater to the growing demand of data services. There are only about 3 billion IPv4 addresses which are already exhausted whereas under IPv6 there are several trillions of IP addresses. Reliance Jio contributed in taking India to the leadership position. Each of Reliance Jio customers are connected through IPv6 address. We can now have our Aatmanirbhar secure internet. India can now set up its own root server.

On the right side of the article, there is an advertisement for LIC's SIP (Systematic Investment Plan) with the headline "Ek SIIP - Do Fayede" and "Saving bhi : Suraksha bhi". Below the advertisement, there is a "TRENDING" section with two items: "1. Natural or unnatural - When to ask for help with period problems." and "2. India vs England: Former captain David".

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Publication: Deccan Herald
Date: 03.02.2021
Link: https://www.deccanherald.com/business/technology/india-can-now-create-aatmanirbhar-secured-internet-947156.html

[India can now create Aatmanirbhar secured internet](https://www.deccanherald.com/business/technology/india-can-now-create-aatmanirbhar-secured-internet-947156.html)



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	Publication: Magzter Digital Newsstand
	Date: 03.02.2021
	Link: https://www.magzter.com/news/395/2631/022021/e15sm

[India has potential to create Aatmanirbhar secured internet, says ITI forum](#)

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Business Standard | 15 hours ago




Illustration: Ajay Mohanty

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The DoT had released the first and second roadmap to roll out IPv6 addresses in the country in 2010 and 2012 which can grant several trillions of unique internet addresses unlike the old regime of IPv4 which has limit of 3 billion IP addresses.

"The work on IPv6 started in 2006. India was last to implement IPv6 roadmap. It now has over 50 per cent market share in IPv6 address and leads the world in terms of subscribers," ITI Chairman and Managing Director RM Agarwal told PTI.

He was responsible for driving implementation of IPv6 adoption in the country under his portfolio as Deputy Director General, Network Technology at the Department of Telecom (DoT).

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Aatmanirbhar secure internet. India can now set up its own root server with less than Rs 10 crore," IPv6 Forum chairman Satya N Gupta said.


He said IPv6 Forum is working to implement and expand IPv6 in India to develop the platform indigenously by using trusted devices. At present there are 13 root servers which play a vital role in working on the internet globally. 11 root servers are located in the US and 1 each in Europe and Japan.

"The Internet will stop working if any of the root servers are switched off. With an indigenous root server, India can continue to communicate within its own jurisdiction. Government, industry and other stakeholders can jointly manage it. We want technocrats in India to develop IPv6 servers," Gupta said.

He said industry alone can develop the server which will also enhance cyber security in the country. "The National Internet Exchange of India (Nixi) already has expertise in IPv6. The company can develop native technologies on IPv6 and export them as well. Theoretically, every country will have its own root server," Gupta said.

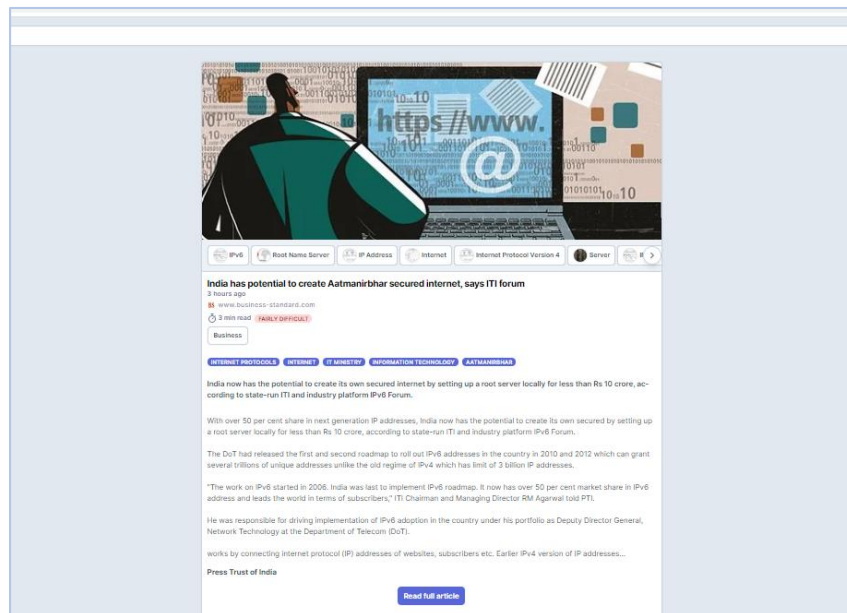
Agarwal said that ITI will conduct workshops for expansion of IPv6 technology in the country and also support other Asian countries.

"We were supported by other countries when we were in the first phase. Now it is our job to help others. IPv6 is pivotal for Digital India. To support 5G and related technologies like machine-to-machine, internet of things etc we need IPv6," Agarwal said.

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[India can now create Aatmanirbhar secured web](https://thenewsofthepeople.com/india-can-now-create-aatmanirbhar-secured-web/)




NEW DELHI :With over 50% share in subsequent technology IP addresses, India now has the potential to create its personal secured web by organising a root server regionally for lower than ₹10 crore, in response to state-run ITI and trade platform IPv6 Discussion board.

The DoT had launched the primary and second roadmap to roll out IPv6 addresses within the nation in 2010 and 2012 which may grant a number of trillions of distinctive web addresses not like the previous regime of IPv4 which has restrict of three billion IP addresses.

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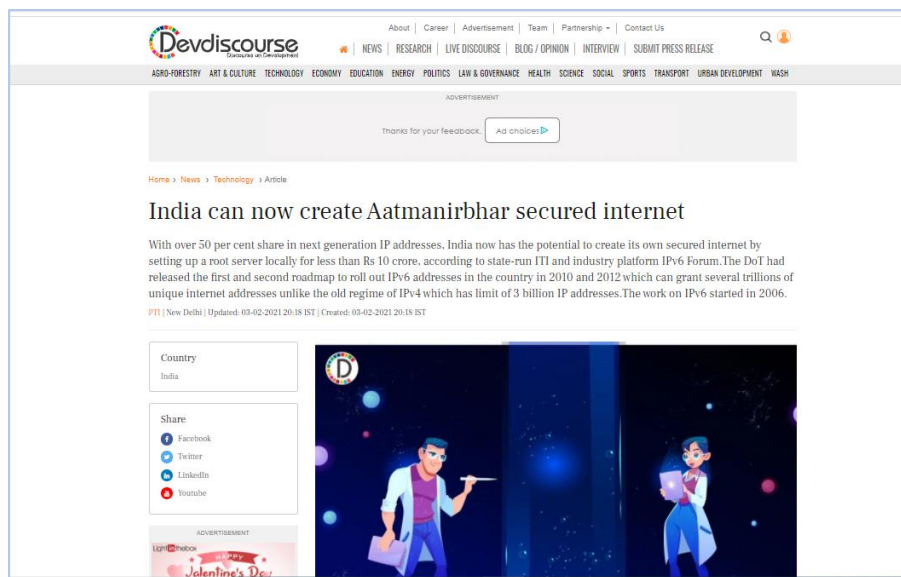
He was answerable for driving the implementation of IPv6 adoption within the nation below his portfolio as Deputy Director Normal, Community Expertise on the Division of Telecom (DoT).

Web works by connecting web protocol (IP) addresses of internet sites, subscribers and many others. Earlier IPv4 model of IP addresses was in work that are restricted in numbers and never sufficient to cater to the rising demand of knowledge companies.

	Publication: Devdiscourse
	Date: 03.02.2021
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With over 50 per cent share in next generation IP addresses, India now has the potential to create its own secured internet by setting up a root server locally for less than Rs 10 crore, according to state-run ITI and industry platform IPv6 Forum. The DoT had released the first and second roadmap to roll out IPv6 addresses in the country in 2010 and 2012 which can grant several trillions of unique internet addresses unlike the old regime of IPv4 which has limit of 3 billion IP addresses. The work on IPv6 started in 2006.



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"The Internet will stop working if any of the root servers are switched off. With an indigenous root server, India can continue to communicate within its own jurisdiction. Government, industry and other stakeholders can jointly manage it. We want technocrats in India to develop IPv6 servers," Gupta said.

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Agarwal said that ITI will conduct workshops for expansion of IPv6 technology in the country and also support other Asian countries.

"We were supported by other countries when we were in the first phase. Now it is our job to help others. IPv6 is pivotal for Digital India. To support 5G and related technologies like machine-to-machine, internet of things etc we need IPv6," Agarwal said.

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[‘India can create its own Aatmanirbhar secured internet by setting up root server locally for under Rs 10 cr’](https://arunachaltimes.in/index.php/2021/02/04/india-can-create-its-own-aatmanirbhar-secured-internet-by-setting-up-root-server-locally-for-under-rs-10-cr/)



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