

TCS IP Version 6 Services

IT Infrastructure services

In many organizations, convergence devices now connect to business networks over the Internet. This triggers an increased demand for IP addresses - a demand that the dwindling IPv4 address space can no longer meet. While new devices are auto enabled for IPv6, the acknowledged successor to IPv4, organizations are yet to move their infrastructure to the new protocol. This has introduced several challenges, including ensuring IPv4-only resources are also accessible by IPv6-only devices. Although organizations are adopting a dual protocol approach to communicate over IPv4 as well as IPv6 as an effective stop-gap measure, transitioning to IPv6 is inevitable from a network efficiency and security point of view.

Tata Consultancy Services (TCS) offers comprehensive services to help organizations effectively transition from IPv4 to IPv6. Our IPv6 services, comprising IP assessment, consultation, testing, and design, enable you to define and achieve your IP objectives. By transforming your technology infrastructure to leverage abundant IP address space, you gain significant competitive advantage.

Overview

Globally, enterprise mobility has severely affected IPv4 address space availability, creating challenges in supporting the rapid growth of IP-based devices and services. Because IPv6 is a relatively new technology, enterprises are implementing short-term techniques for accessing IPv4 resources over IPv6 protocol, resulting in security issues that impact IT resources. Further, for organizations, determining the business impact and quantifying the cost of not transitioning to IPv6 from a performance and security perspective is difficult. A rapidly evolving IPv6 technology stack and lack of knowledge and skills related to IPv6 assessment, planning, design, and deployment further hamper the transition from IPv4 to IPv6.

TCS offers end-to-end IPv6 services, designed with the objective of enabling enterprise infrastructure for IPv6 in a streamlined manner. Our services include:

- IT infrastructure and application assessment
- Review and recommendations for migration to IPv6
- Designing and planning for deployment
- Reproduction and testing of various scenarios in a lab environment
- Deployment of IPv6
- Monitoring and maintenance of IPv6 infrastructure

Whether it is a proactive initiative or a regulatory or compliance guideline, our offering delivers key value to your IPv6 adoption journey. With our services, you realize the benefits of more efficient

routing and packet processing as well as enhanced security that IPv6 promises to deliver.

Benefits

The TCS IPv6 offering is designed to enable you to seamlessly transition to IPv6. With our services, your organization benefits from:

- **Abundant IP address space and optimized infrastructure:** Support new technology and additional device connectivity, enable secure access to organizational infrastructure and develop a future ready strategy by embracing IPv6 with our services. Improve network efficiency and optimize infrastructure requirements by eliminating server side address allocation.
- **Accelerated, assured transition to IPv6:** Realize faster time to market and gain first mover advantage by leveraging mature frameworks and proven tools to accelerate your transition to IPv6. Reduce assurance costs and ensure the stability and efficiency of your IPv6 enabled organization infrastructure with our comprehensive testing services.
- **Greater organizational efficiency and improved productivity:** With any place, any time connectivity and inherent support for device centric access, improve end user productivity and satisfaction. Ensure interoperability and leverage mobile device capabilities with IPv6 supporting the embedded capabilities of network devices.



An overview of TCS IPv6 Services

The TCS Advantage

The IPv6 offering from TCS is an end-to-end offering that leverages our considerable domain knowledge and global experience in infrastructure-related consulting and services. It incorporates our best practices, templates and methodologies, and delivers significant cost and time benefits across the transition lifecycle.

Our services are supported by the TCS IPv6 Experience Center that offers the latest technological infrastructure of IPv6 networks and applications - for training, testing of various scenarios, proof of concept development, solution design, and validation. By facilitating the testing and validation of implementation plans before hand, our Experience Center ensures minimal disruption to business throughout the implementation cycle.

Backed by our deep domain knowledge and technological expertise, our services deliver a tested approach to planning and budgeting for the transition in line with business objectives and readiness.

Along with ensuring compliance with various regulatory IPv6 requirements, our services leverage TCS best practices, tools and techniques to reduce time-to-market. The maturity of our implementations in meeting the regulatory requirements further emphasizes our compliance focus.

Contact

To know more about TCS' IPv6 solution, contact itis.presales@tcs.com

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development. A part of the Tata Group, India's largest industrial conglomerate, TCS has a global footprint and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

For more information, visit us at www.tcs.com

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