

IPv6 Readiness Assessment and Transition Services

Preparing your IT environment for the
mandatory transition



Business challenges

Recent announcements from the Regional Internet Registry (RIRs) and Internet Assigned Numbers Authority (IANA) have warned that due to the limitations of IPv4 (Internet Protocol Version 4), it will not be as readily available as they have been in the past. When the IPv4 address pool eventually exhausts, the impact will be similar to the effects associated with the Y2K situation.

Hence, it will be mandatory for organisations and users to transit to IPv6 (Internet Protocol Version 6), a newer version with totally different configurations and capabilities, to overcome the IPv4 issues as soon as possible.

However, with no proper assessment and transition plans in place, organisations are at risk of the implications that comes with such a drastic conversion.

IPv6 Readiness Assessment and Transition Services

Our service offerings

In order to successfully attain the new IPv6 status, organisations need to be operationally and cost ready.

Here at BT Frontline, we have the capabilities and expertise to help you achieve your IPv6 readiness. Our suite of services includes assessing your current IT environment and business needs to recommend and implement a most suitable transition plan with minimal disruptions to your business and your organisation.

- IPv6 Risk Analysis
BT Frontline will identify the risks and costs that are associated with IPv6 transition, such as:
 - Business risks
 - Budget consideration
 - Infrastructure changes/upgrades (such as hardware and software, applications and operational support systems)
 - Operational costs (once the deployment has started)
 - Time consideration
 - Service provider and vendor support
 - Technical risks
 - Hardware and software configuration
 - Lack of IPv6 knowledge and experience
 - Security risks
 - Reliability risks
 - Interoperability risks
- IP Aware Assets Inventory
BT Frontline will perform an inventory assessment for your organisation's current IT infrastructure, including:
 - Address allocation needs for both present and future networks (e.g. IP, DSL, wireless, VoIP, CPE)
 - Network Services (e.g. DNS, DHCP, AAA, NTP, etc.)
 - Network Management (e.g. MIBS, SNMP, NetFlow, MRTG, etc.)
 - Applications (e.g. VoIP applications, databases, etc.)
- IPv6 Transition Design
We will develop an IPv6 design based on the assessment of your IT environment and business structure.

Following is a list of areas that BT Frontline will consider when developing its IPv6 design. The list highlights some of the major areas to be considered but not limited to:
 - IPv6 Addressing Plan
 - IPv6 Routing
 - Transition Mechanisms
 - Network Services
 - Network Security
 - Network Management
- IPv6 Implementation
BT Frontline will develop a suitable plan to implement the IPv6 transition for your organisation, including:
 - Develop a list of phases for IPv6 transition
 - Establish an IPv6 testing environment
 - Conduct field trials
 - Prioritise IPv6 deployment
 - Support (Transition and Operation)

- IPv6 Management
 - Provide a comprehensive IPv4/v6 management tool to manage your IP environment
 - Provide IPv6 managed services
- Training Programmes

In order to initiate and maintain IPv6 readiness, we can offer training programs based on your organisation's needs and requirements.

 - Awareness Training
 - Architectural Training
 - Operational Training

Key highlights

- Infrastructure assessment to determine the compatibility of the network and infrastructure equipment for IPv6 transition services
- Well thought out transition design to minimise disruptions and downtime
- A most suitable IPv6 transition plan for your organisation based on careful analysis, assessments and reports
- Comprehensive IPv6 management tool and managed services
- Excellent support services to manage your transitional and operational issues
- Customised training programmes to suit your business needs and requirements in order to maintain IPv6 readiness.



Activities and deliverables

- Service introduction kick-off meeting to establish goals and milestones
- Service introduction workshop, taking into consideration your organisation policy, regulatory compliance, business and cultural impacts
- Identify, validate, and confirm the presence of network devices and software applications on your network
- Confirm the capabilities and readiness of the identified devices in order to determine the appropriate IPv6 design
- Develop the IPv6 readiness and recommendations report
- Conduct an on-site design workshop to gather data and initiate the IPv6 network design development process
- Develop the network staging, implementation and ready-for-use plan
- Provide implementation, setup document and acceptance test plan
- Provide training on transition design, implementation and support

For more information, please contact our sales hotline at **(65) 6490 4884** or email sales.frontline@bt.com

BT Frontline Pte Ltd
750 Chai Chee Road
#02-01/02/03 The Oasis
Technopark@Chai Chee
Singapore 469000
Tel (65) 6773 7227
Fax (65) 6779 4455
www.btf frontline.com.sg

© 2011 BT Frontline Pte Ltd. No part of this document may be reproduced in any form without the express consent of BT Frontline Pte Ltd. All other brands and products names are trademarks or registered trademarks of their respective holders. Information in this publication is subject to change without notice.

