

APNICアップデート APNIC update

JANOG25
Niigata, Japan

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概要

Overview

- 2009年、APNICの取り組み
 - リソース証明
 - インターネットガバナンスとNROの活動
 - 2010年、APNICの活動の優先事項
 - IPv4アドレスの枯渇とIPv6への移行
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- APNIC's activities in 2009
 - Resource certification
 - Internet Governance and NRO activities
 - APNIC priorities and activities in 2010
 - IPv4 address exhaustion and IPv6 adoption

APNICの2009年の取り組み

APNIC's activities 2009

- R&D活動（ネットワークモニタリング、及び計測ルータビリティテスト）
- AP地域ネットワークエンジニアの教育支援
- IPv6移行支援
- 番号資源の申請と分配プロセスの簡素化
- R&D activities (e.g., Network monitoring and measuring, routability testing)
- Support network engineers education in the AP region
- Support of IPv6 adoption
- Streamline resource requests and allocation process

リソース認証

Resource certification

- 資源安全性へのサポート
 - 今日の環境によりフィットするメカニズム
 - MyAPNICでの会員向けRPKIサービスを2010年に改良・拡張
- 経路安全性へのサポート
 - IETFでの標準開発に追随
- Support resource security
 - Mechanism is better suited to today's environment
 - Refining and expanding RPKI services for members via MyAPNIC in 2010
- Support routing security
 - Following standards development in IETF

インターネットガバナンス Internet Governance

- インターネットガバナンスフォーラム (IGF)
 - WSIS チュニス 2005での合意に基づくフォーラム
 - 国連事務総長の招集によるフォーラム
 - インターネットの継続的、構造的堅牢、安全な発展を促進するため
 - マルチステークホルダーによって構成される非意思決定フォーラム
 - すべての参加者間でのオープンで包括的な協議
- Internet Governance Forum (IGF)
 - An outcome of the Tunis phase of the World Summit on the Information Society (WSIS) 2005
 - A forum convened by the United Nations Secretary-General
 - To foster the Internet's sustainability, robustness, security, stability and development
 - A multi-stakeholder non-decision making forum
 - Open and inclusive dialogue among all participants

インターネットガバナンス Internet Governance

- APNIC及びNROの関与
 - WSISおよびIGFプロセスを積極的にサポート
 - オペレーション及び技術的経験の見地から貢献
 - 例: 2009年IGFにて以下の話題について説明
 - IPv6の導入: 知っておくべきこと
 - インターネットアドレスの管理: グローバル及び地域的視点
- APNIC's and NRO involvement
 - Support WSIS and IGF processes actively
 - Contribute operational and technical experience
 - Shared topics in IGF 2009 such as:
 - Adopting IPv6: What You Need To Know
 - Managing Internet Addresses: Global and regional viewpoint

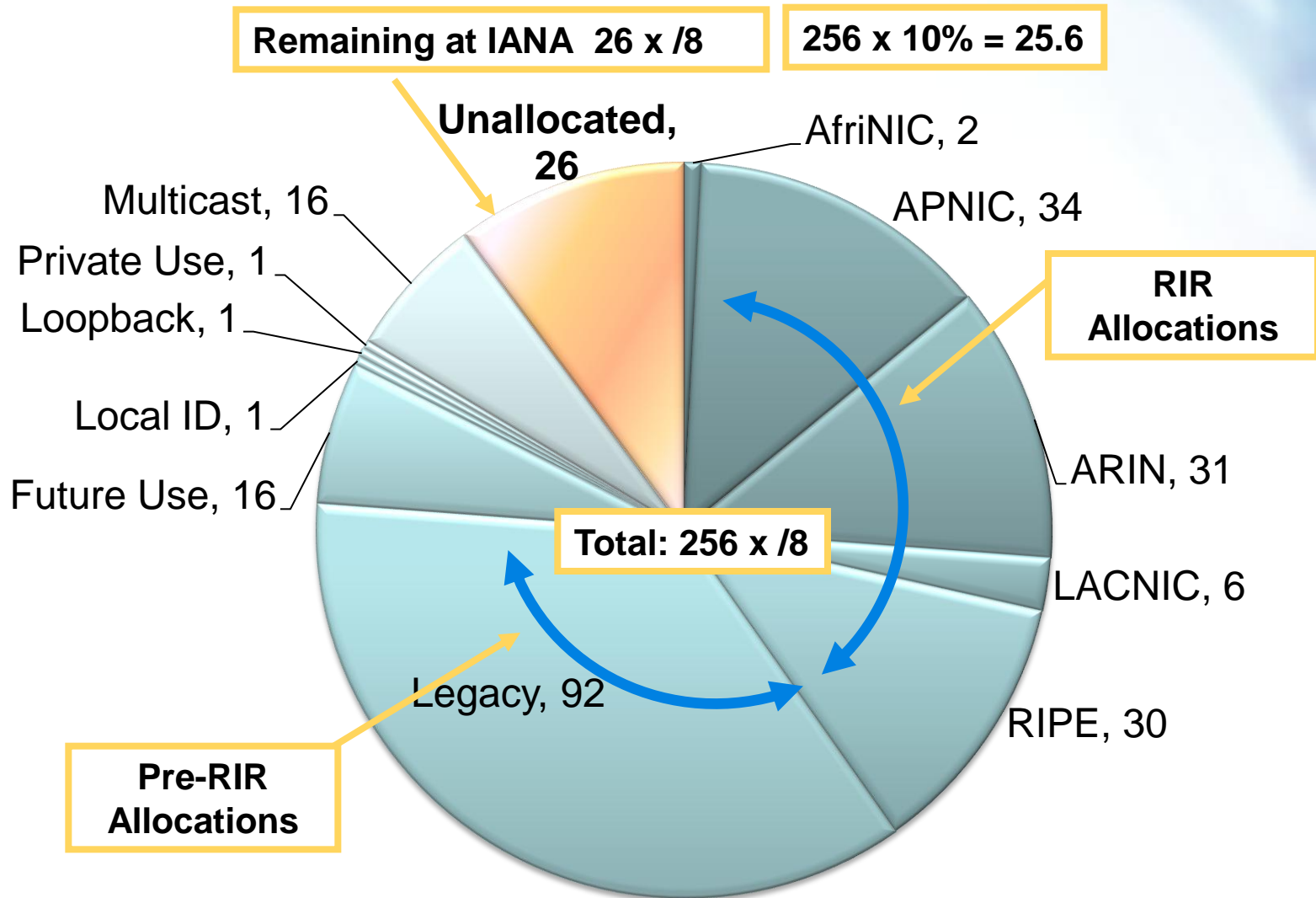
APNIC Activities in 2010

- **メンバーへの価値あるサービスの提供**
 - How: 資源サービス、ミーティング、トレーニング
 - 優先事項: IPv6サポート、DB登録情報の整合性
- **インターネットの発展をサポート**
 - How: 地域の基盤、教育、計測、R&D
 - 優先事項: IPv6移行促進、インターネットガバナンス
- **協力とコミュニケーション**
 - How: 地域リエゾン、NIRs、代表
 - 優先事項: 広報、NROとICANN、新しいNIRs
- **APNIC事務局サポート**
 - How: インフラストラクチャー、スタッフ
 - 優先事項: 継続的改善、オフィスビル取得、システム改良

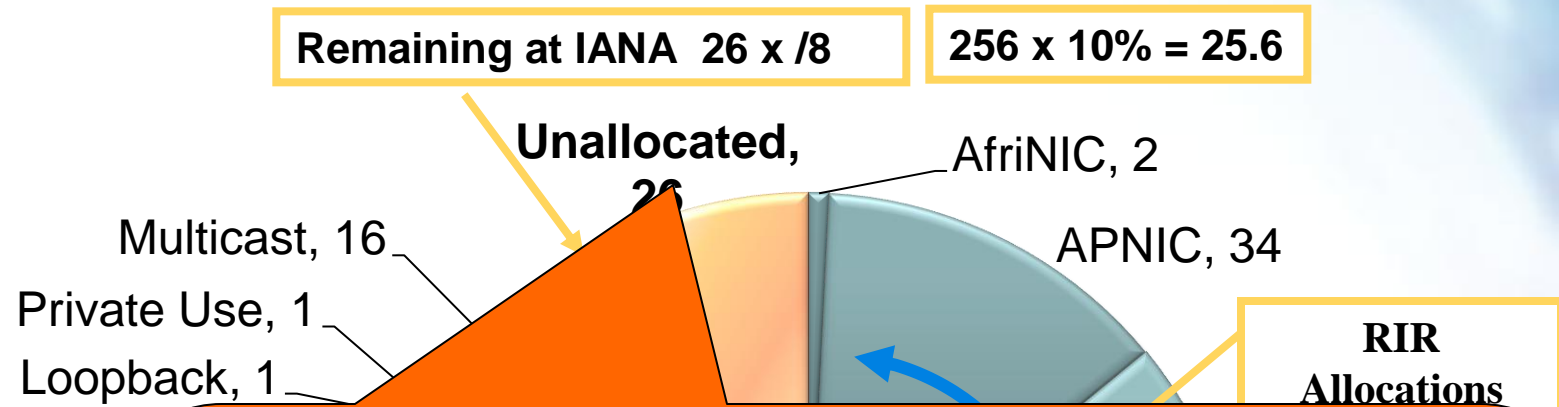
APNIC Activities in 2010

- Delivering Value
 - How: Resource services, meetings, training
 - Priorities: IPv6 support, registry integrity
- Supporting Internet Development
 - How: Regional infrastructure, education, measurement, R&D
 - Priorities: Increase IPv6 uptake, Internet governance
- Collaborating and Communicating
 - How: Regional liaison, NIRs, representation
 - Priorities: Public affairs, NRO and ICANN, new NIRs
- Corporate Support
 - How: Infrastructure, staff
 - Priorities: Continuous improvement, building acquisition, System enhancement

Global IPv4 address distribution



Global IPv4 address distribution

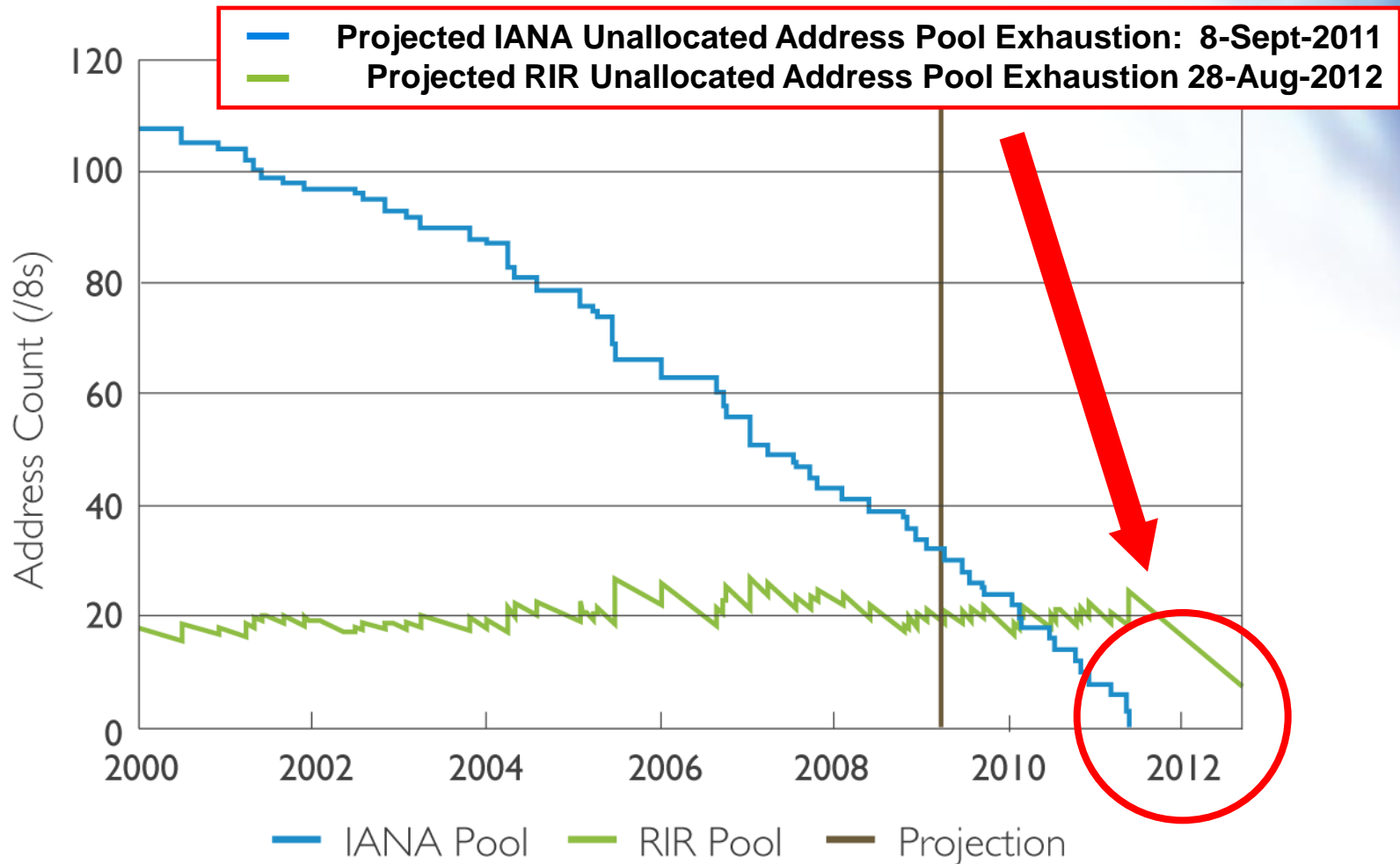


Now, 24:

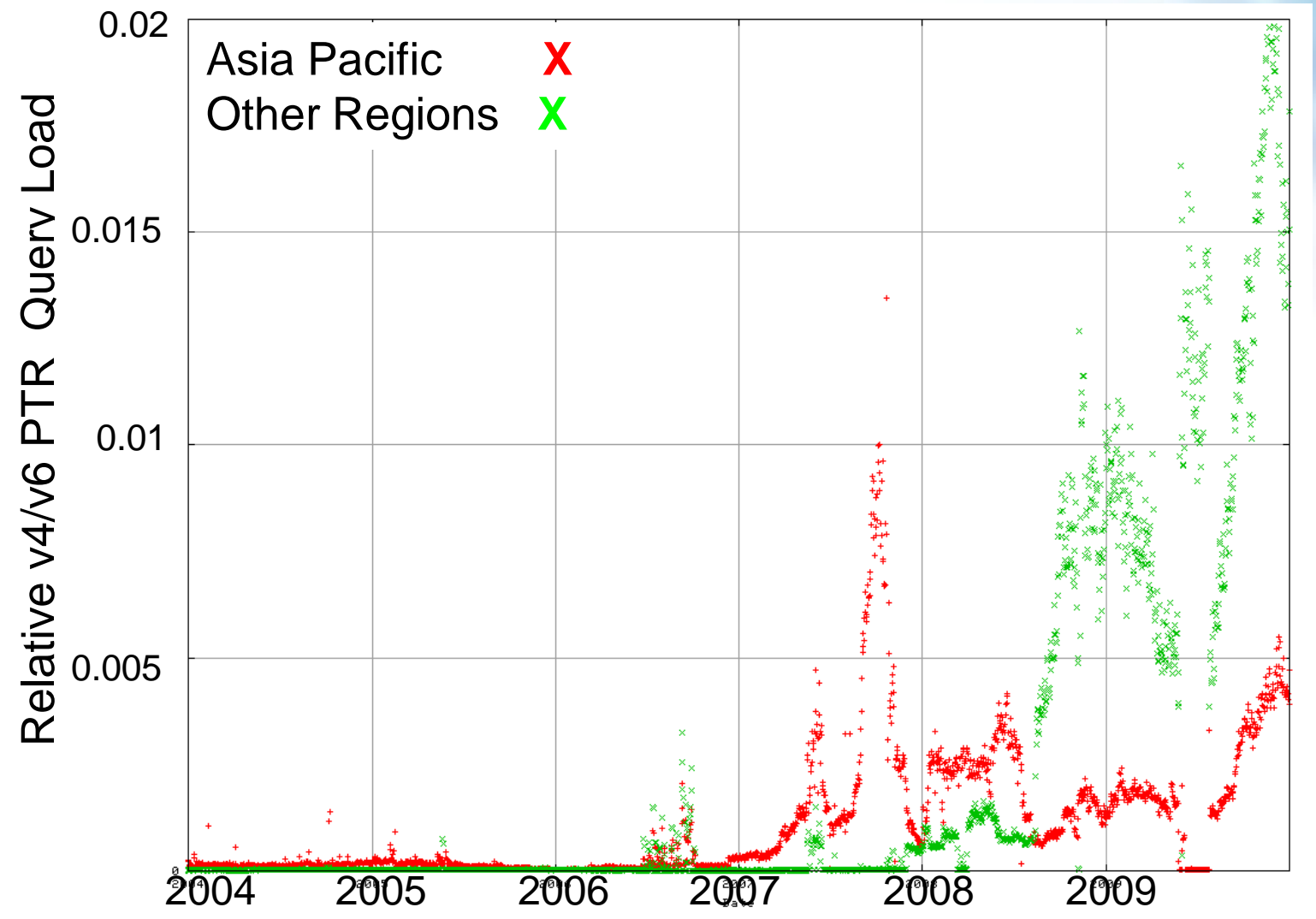
APNIC was allocated 001 /8 and 027 /8 on 19/01/2010.

IANA remaining IPv4 address is now below 10%.

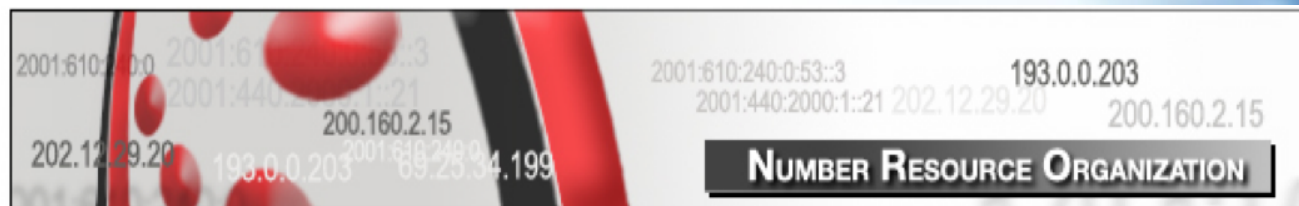
IPv4 consumption – Projection



DNS query data



NRO IANA 10% media campaign



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Less than 10% of IPv4 Addresses Remain Unallocated, says Number Resource Organization

Deploying IPv6 - the next generation of the Internet Protocol - is vital to the continued development of the Internet

AMSTERDAM – The Number Resource Organization (NRO), the official representative of the five Regional Internet Registries (RIRs) that oversee the allocation of all Internet number resources, announced today that less than 10 percent of available IPv4 addresses remain unallocated. This small pool of existing IP addresses marks a critical moment in IPv4 address exhaustion, ultimately impacting the future network operations of all businesses and organizations around the globe.

“This is a key milestone in the growth and development of the global Internet,” noted Axel Pawlik, Chairman of the NRO. “With less than 10 percent of the entire IPv4 address range still available for allocation to RIRs, it is vital that the Internet community take considered and determined action to ensure the global adoption of IPv6. The limited IPv4 addresses will not allow us enough resources to achieve the ambitions we all hold for global Internet access. The deployment of IPv6 is a key infrastructure development that will enable the network to support the billions of people and devices that will connect in the coming years,” added Pawlik.

<http://www.nro.net/media>

Thank you!

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Izumi san, thank you for interpreting
the presentation!