4-Byte AS number registry Policy Proposal

[LACNIC Proposal 2006-04]

http://lacnic.net/documentos/lacnicix/LAC-2006-04-EN.pdf

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On behalf of Geoff Huston APNIC 25 May 2006





32-bit AS number registry

- A policy proposal for LACNIC to assist in the general transition to the use of 32 bit AS numbers
- Essential attributes of this policy:
 - Ease of transitional arrangements
 - Predictability of registry actions
 - Clear dates in terms of registry actions

Why Now and not Later?

- Triggered by the completion of the IETF 4-Byte AS Number proposal* to Proposed Standard publication and predictions of effective exhaustion of the 16-bit AS number pool**
- Proposes to provide a 3 year period of transition to support piecemeal testing and deployment of revised BGP versions that support 32-bit AS numbers

* draft-ietf-idr-as4bytes-12.txt

Assumptions

- The IANA actions as specified in the IETF 4-Byte AS Number document will be completed by 1 January 2007
- LACNIC will have ensured that its data systems are 32-bit 'clean' for the AS Number registry by 1 January 2007

The ASN Registry Proposal

Proposed AS assignment transition in 3 phases:

- 1. Commencing on 1 January 2007 the registry will process applications for 32-bit only AS numbers¹ upon specific request. 16-bit only AS numbers² will be assigned by default
- 2. Commencing on 1 January 2009 the registry will assign 32-bit only AS numbers¹ by default. 16-bit only AS numbers will be assigned upon specific request²
- 3. Commencing on 1 January 2010 the registry will assign from the extended AS number space³

^{1 –} AS numbers in the range 65,536 – 4,294,967,295

^{2 -} AS numbers in the range 0 - 65,535

^{3 –} AS numbers in the range 0 - 4,294,967,295

This proposal does NOT:

- Introduce any extensions to the private AS number space
- Define any documentation-use AS numbers 2.
- 3. Advocate the continuation of any 2-byte AS number 'legacy pool' beyond 1 January 2010
- Create policies that extend beyond 1 January 4. 2010
- Require LACNIC to undertake any RIR-5. coordinated actions
- Define a different AS number allocation practice 6. for registry operations



Thank You **Muchas Gracias** Muita Obrigada

Nurani Nimpuno on behalf of **Geoff Huston**

> draft-ietf-idr-as4bytes-12.txt www.potaroo.net/tools/asns

