32-bit AS number registry policy proposal

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32-bit AS number registry

- A policy proposal for APNIC to assist in the 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
- Triggered by the completion of the IETF 4-Byte AS Number proposal* to Proposed Standard and predictions of effective exhaustion of the 16-bit AS number pool
- Assumes that the IANA actions as specified in the IETF 4-Byte AS Number document will be completed by 1 January 2007

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

The AS 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 numbers*[1] upon specific request. *16-bit only AS numbers*[2] will be assigned by default

2. Commencing on 1 January 2009 the registry will assign *32-bit only AS numbers*[1] by default. *16-bit only AS numbers* will be assigned upon specific request[2]

3. Commencing on 1 January 2010 the registry will assign from the *extended AS number space*[3]

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:

1. Introduce any extensions to the private AS number space

2. Define any documentation-use AS numbers

3. Advocate the continuation of any per-registry 2-byte AS number 'legacy pool' beyond 1 January 2010

4. Create policies that extend beyond 1 January 2010

5. Require any RIR coordinated actions

6. Define a different AS number allocation practice for registry operations