Update Critical Infrastructure to Include PKI

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Introduction

- Public Key Infrastructure is critical for online security (SSL).
- Online Certificate Status Protocol (OSCP) and Certificate Revocation List (CRL), RFC-2560 and RFC-3280 respectively.
- Validate X.509 SSL Certificates.

Current problem

- Current policy doesn't define PKI as critical infrastructure.
- Resources managed through existing allocations

Other RIRs

- Same position in other RIRs
- Proposal will be submitted in due course.

Proposal

 Amend APNIC-124 / Policies for IPv4 address space management in the Asia Pacific region:

– Point 3.5 to include Public Key Infrastructure

 Amend APNIC-089 / IPv6 address allocation and assignment policy

– Point 5.9.3 to include Public Key Infrastructure

Benefits/disadvantages

- Benefits:
 - Public Key Infrastructure providers will have a block of defined address space for PKI.
 - Access to allocations
- Disadvantages:
 - Increased address allocation
 - More member and resource allocations requests
 - More workload on APNIC

Summary

- Include PKI as Critical Infrastructure

 Critical for Internet Security
- Protocol Information:

X.509 Internet Public Key Infrastructure Online Certificate Status Protocol – OSCP http://tools.ietf.org/html/rfc2560

Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile <u>http://tools.ietf.org/html/rfc3280</u>