New Features in the RIPE Database Status Update

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Outline

- Deprecation of CRYPT-PW

- Other developments

  - DNS provisioning system

  - IRT object

  - 32-bit ASN

  - New org type - OTHER

- Operations and Support

  - Statistics

CRYPT-PW: Background

- Part of long standing effort to make DB more secure
  - Phasing out MAIL-FROM and NONE
  - Currently CRYPT-PW is the weakest form of authentication
  - CRYPT-PW is considered vulnerable

- DB-WG Decided to deprecate CRYPT-PW
  - At RIPE 53, October 2006
  - **mntner** and **irt** objects
  - 3581/325 objects (10%) using CRYPT-PW

- Planning
  - Phase 1 Notification
  - Phase 2 Reject new CRYPT-PW
 - Phase 3 Remove CRYPT-PW from the DB

CRYPT-PW: Planning

- Phase 1 Notification

  - A project webpage with information and FAQ

  - General announcement to the community

  - Mails to object owners

- Phase 2 Reject new CRYPT-PW

  - Transitional phase

  - Addition of a CRYPT-PW is rejected

  - Still possible to use the password to authorise changes

  - Warning in the acknowledgement

- Phase 3 Remove CRYPT-PW from the DB

  - CRYPT-PW is removed from syntax and from objects

  - Replaced with "remarks"

  - For object with only CRYPT-PW an MD5-PW will be generated

CRYPT-PW: Implementation

- Allow users to change CRYPT-PW to MD5-PW
  - Don't even need to change the password

- Aimed at casual user
  - Little knowledge of the DB
  - Easy to use and understand web form
  - Announcements to users with instructions (+clickable links)

- After the project is over it is still possible to change for 3 years
  - All passwords are stored in a separate database
  - We will maintain the web form for 3 years
  - After that the normal "lost password" procedure applies

- Low impact on users and ripe-dbm
  - About 10 tickets
  - 86% of used the web form

CRYPT-PW: Status (to be updated)
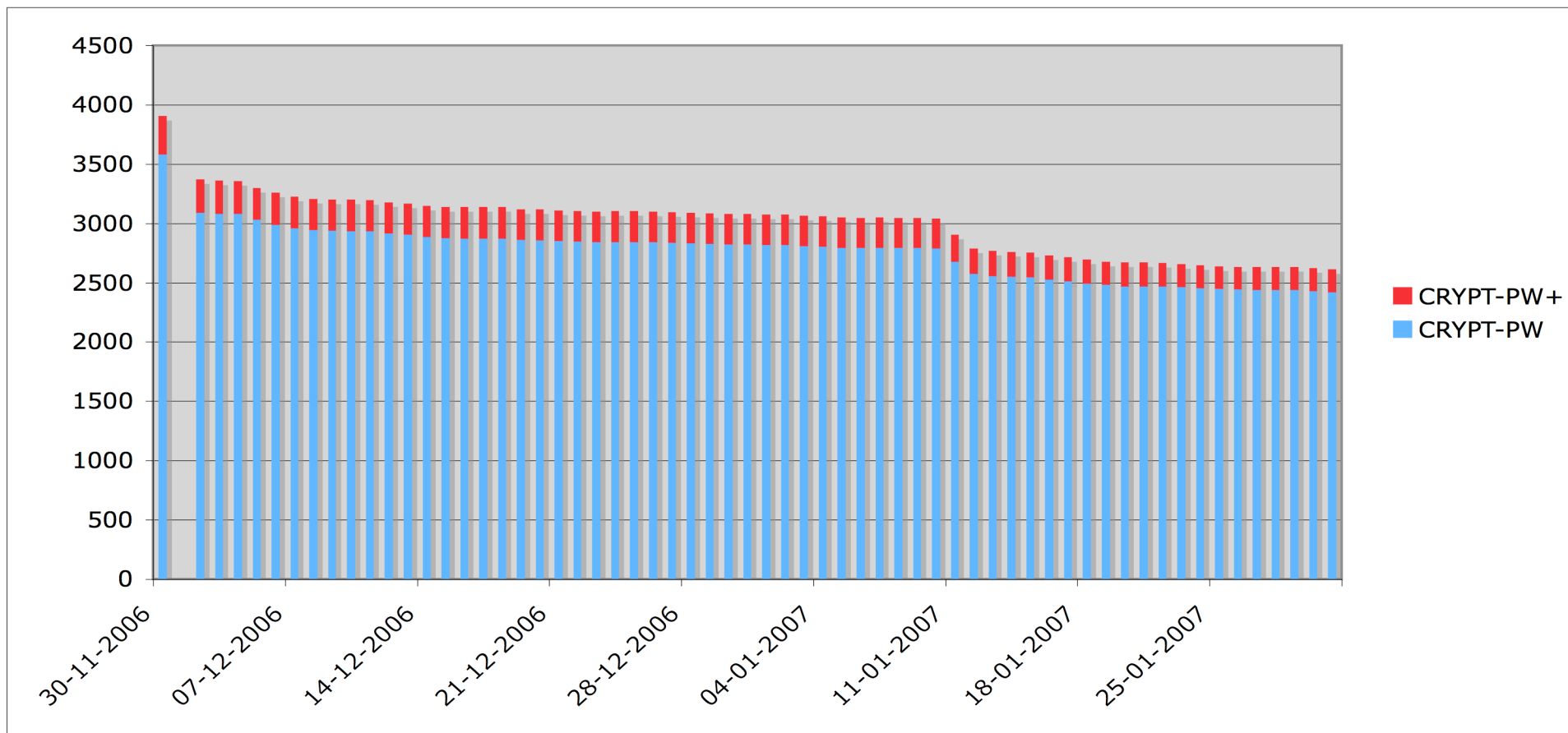
Phase 1 Notification

Phase 2 Rejection

Other developments

- DNS Provisioning system

- IRT object

- 32-bit ASN support

- New org type - OTHER

DNS provisioning system

- Requirement to support glue records in the provisioning system

  - Automation and delegation checks for ENUM delegations

  - Consistent interface for DNS management

- "**nserver:**" attribute changes

  - Clearer and shorter syntax

  - IPv6 glue support

  - Only ~150 inconsistent objects

- Web Delegation Checker

  - Fully supports new "nserver" syntax

Query behaviour for the IRT object

- ● Objectives

  - - To increase the availability of the irt information to users.

  - - To promote the use of the irt object.

  - - To make it easier for third party tool writers to find the correct contacts.

- ● New query behaviour

  - - -c IP query: the **inetnum** and the closest **irt** covering this address space

  - - This is a default behaviour for the web interface

  - - Next step is to make –c default for IP queries

ASN32 support

- To support new ASN assignment policy

  - All changes are put into production on January 2, 2007.

- Changes in RPSL syntax

  - ASx   AS3333

  - ASz.y   AS1.0

- Affected objects

  - 10 objects

  - 41 attributes

  - More info in draft-uijterwaal-rpsl-4byteas-ext-01.txt

Operations and Support

- Business as usual

  - Hitting 73 q/s, 25 q/s on average, no significant changes

  - More detailed information at
    http://www.ripe.net/projects/dbconstat/stats.html

- Documentation

  - Getting Started has been published

  - Update reference manual and FAQ are under revision

The DB team

- A new dedicated department
  - Jos Boumans
  - Agoston Horvath
  - Katie Petrusha
  - Denis Walker

- New manager
  - Jos Boumans
  - Started 1 February

Questions?