Registry systems security

.RS security measures

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New registry software

Introduced July 2016

- Two ways of access
  - Web application (responsive design)
  - Extended EPP (minor changes)
- Reliable HA system
- Modular design solution (easy to maintain)
- Plenty of new features
Security by design

Static code testing
Aggressive stress and penetration tests
Automated testing tools (Web and EPP)

System Security
- Application and Data security
- Access control (Edge security)
- Reliability (HA - 100% uptime so far)
Data security

Three-tier data processing

- Requests processing (Web and EPP)
- Registry logic
- Data processing/DB access

*All network communication is encrypted.*
Application security

Secured by multiple firewall instances. No direct access from the Internet.

**Web**
- IP filtering
- SSL/TLS

**EPP**
- IP filtering
- PSK SSL/TLS
Access control

Known system users
- IP filtering
- SSL/TLS (PSK for EPP access)
- Two factor authentication (Web)
Are we really secure?

What about Registrar systems?
- SSL/TLS communication (some)
- 2F authentication (none)
- Firewall (some)
- Strong password requirements (some)
- Separate appliance for customer portal and Registry operations (some)
Additional protection

- Registry Lock
- Client (Registrar) Lock
  (Only some registrars have implemented this correctly.)

- Secure Mode
  Any critical operation requires confirmation from a registrant or an admin contact.
Questions?

Thank you!

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