

# Data Escrow for Privacy/Proxy Service Providers (PPSPs)



Francisco Arias

P/P IRT Meeting  
17 October 2017

# Design Principles

---

- ⦿ Data Escrow of P/P data to allow recovering the underlying registrant/contact information in case of disaster
- ⦿ Re-use the Registrar data escrow specification as much as possible
- ⦿ Leverage RRI tool (where possible) to allow P/P providers and ICANN organization learn the status of escrow deposits
- ⦿ Support option for registrar and affiliated P/P provider to do escrow in one joint deposit, where affiliated P/P provider might offer P/P services for other registrars

# No Changes for Registrars

---

- ⦿ What changes for a Registrar doing data escrow on its own?
  - R. Nothing.

# PPSP Data Escrow Format

# Frequency of PPSP Deposits

---

- ⦿ Weekly Full deposit on Sundays
- ⦿ Daily, either Full or Differential deposit the other six days of the week

# High Level Format Specifications

---

- ⦿ Data in CSV files in UTF-8 encoding with two headers:
  - Deposit summary header
  - Fields header
- ⦿ Support only for normalized deposits, i.e., using object handles (i.e., domain name contact handles in one file, contact details in another file)
- ⦿ Aggregated CSV files in tarball, compressed and encrypted with PGP
- ⦿ Optionally split for size limitations
- ⦿ The encrypted file (or the parts) to be digitally signed

# Domain Name Data to be Escrowed

---

pp\_domains.csv file:

- Repository Object Identifier (ROID),
- Domain Name,
- Registrar IANA ID,
- Registrant Handle,
- Admin Handle,
- Technical Contact Handle,
- Billing Contact Handle

# Contact Data to be Escrowed

---

pp\_contact\_handles.csv file:

- Contact Handle,
- Name,
- Organization Name (optional),
- One street field, and optionally two more,
- City,
- State or Province (optional),
- Country Code,
- Postal Code (optional),
- Email,
- Phone, and optionally phone extension,
- Optionally, fax and fax extension



# Joint Registrar and PPSP Deposit

# What Else Goes Into the Joint Deposit

---

- ⦿ Only normalized deposits, i.e., using object handles, which adds three more files:
  - Domains
  - Contacts
  - Name Servers
- ⦿ Only the escrow information of one Registrar MAY be added to the deposit tarball file
- ⦿ Registrar data escrow deposit type MUST be the same type as the Provider data escrow deposit

# Domain Name Data to be Escrowed

---

<IANA\_ID>\_RDE\_<YYYY-MM-DD>\_domains.csv file:

- Repository Object Identifier (ROID),
- Domain Name,
- Expiration Date
- Registrant Handle,
- Admin Handle,
- Technical Contact Handle,
- Billing Contact Handle

# Contact Data to be Escrowed

---

<IANA\_ID>\_RDE\_<YYYY-MM-DD>\_contacts.csv file:

- Contact Handle,
- Name,
- Organization Name (optional),
- One street field, and optionally two more,
- City,
- State or Province (optional),
- Country Code,
- Postal Code (optional),
- Email,
- Phone, and optionally phone extension,
- Optionally, fax and fax extension

# Name Server Data to be Escrowed

---

<IANA\_ID>\_RDE\_<YYYY-MM-DD>\_nameserver.csv file:

- Domain Name Repository Object Identifier (ROID),
- Name Server Name (fully qualified domain name)

# Use of RRI

# P/P Provider Deposits on its Own

---

1. P/P provider sends escrow deposit to Escrow Agent
2. DEA validates the deposit, and if problems are found, DEA works with the P/P provider on fixing the issues
3. The P/P provider notifies ICANN using the RRI that the escrow deposit was sent to the DEA
4. The DEA notifies ICANN using the RRI that a deposit was received, validation results, and object counts
5. P/P provider has visibility through the RRI about the delivery of notifications from DEA and its escrow compliance status

# P/P Provider and Registrar Joint Deposit

---

1. P/P provider/registrar sends escrow deposit to Escrow Agent
2. DEA validates the deposit, and if problems are found, DEA works with the P/P provider/registrar on fixing the issues
3. The P/P provider/registrar notifies ICANN using the RRI that the escrow deposit was sent to the DEA
4. The DEA notifies ICANN using the RRI that a deposit was received, validation results, and object counts
5. P/P provider/registrar has visibility through the RRI about the delivery of notifications from DEA and its escrow compliance status



# Registrar Deposits on its Own

---

1. Registrar sends escrow deposit to Escrow Agent
2. DEA validates the deposit, and if problems are found, DEA works with the registrar on fixing the issues
3. The registrar **optionally** notifies ICANN using the RRI that the escrow deposit was sent to the DEA
4. The DEA notifies ICANN using the RRI that a deposit was received, validation results, and object counts
5. If notified ICANN in step 3, registrar will have visibility through the RRI about the delivery of notifications from DEA and its escrow compliance status

# Engage with ICANN



## Thank You and Questions

Visit us at [icann.org](http://icann.org)

Email: [globalSupport@icann.org](mailto:globalSupport@icann.org)



[@icann](https://twitter.com/icann)



[facebook.com/icannorg](https://facebook.com/icannorg)



[youtube.com/icannnews](https://youtube.com/icannnews)



[flickr.com/icann](https://flickr.com/icann)



[linkedin/company/icann](https://linkedin/company/icann)



[slideshare/icannpresentations](https://slideshare/icannpresentations)



[soundcloud/icann](https://soundcloud/icann)