Registry Product improvements: .UK Standardisation

General EPP restrictions and behaviours

Introduction

There are a number of general restrictions made of .UK EPP such as the inability to perform domain:info commands on other registrars' domains which are non-compliant with standard EPP. Some of those restrictions relate to the gaming of the former drop process and the secretive nature of the drop time – which we can now remove. Other restrictions just relate to historic decisions and the gradual evolution of the .UK platform.

Proposed approach to core EPP

We currently restrict the EPP response for the domain Info command to only operate for the sponsoring registrar. This forces non-sponsoring registrars to protocol shift to determine certain public details of domains rather than simply using EPP. We are proposing to review our approach.

1. We intend to increase the granularity of the timestamps in EPP and the wider registry to contain fractions of a second on all object types. (i.e., 2023-01-04T14:11:32.238Z)
2. RFC 5731: Domain objects

    a. EPP Domain Info command (and equivalent view in Web Domain Manager)

    We propose updating the EPP Domain Info command to include the following data in EPP query responses to the domain info command. Our general principle is if it is trivially determinable publicly then any registrar should be able to access the same info in EPP.

Domain Object		Proposed Details included in the EPP response to a domain:info command.	
EPP Field	Description of field	Sponsoring Registrar	Non-sponsoring registrar
domain:name	The registered domain.	Yes	Yes
domain:roid	The unique repository object identifier for the domain object.	Yes	Yes
domain:registrant	The contact object ID that defines the registrant of the domain.	Yes	No; unless a correct auth code is supplied for the domain.
domain:status	Lock settings and pending delete status.	Yes	Yes
domain:ns	Any nameservers linked to a domain.	Yes	Yes

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domain:host	Any sub-ordinate host objects for the domain stored in the registry.	Yes	No; unless a correct auth code supplied.
domain:crID	The EPP login ID for that created the domain. (essentially the TAG that created it).	Yes	Yes
domain:clID	The EPP login ID that controls the domain. (Essentially the TAG).	Yes	Yes
domain:upID	The EPP login ID that last updated the domain. (essentially the TAG that updated it).	Yes	Yes
domain:crDate	The create date of the domain.	Yes	Yes
domain:upDate	The update date of the domain.	Yes	Yes
domain:exDate	The expiry date of the domain.	Yes	Yes
domain:trDate	The last transfer (of registrar) date of the domain.	Yes	Yes
domain:authinfo	A unique auth code for the domain.	No	No
rgp:rgpstatus	The RFC3915 Registry Grace Period status.	Yes	Yes
domain-ext:auto-bill	The number of days before every expiry that the registrar wishes to automatically trigger a renewal.	Covered in other parts of our proposals.*	
domain-ext:next-bill	The number of days before the next expiry that the registrar wants to trigger a renewal.	Covered in other parts of our proposals.*	
domain-ext:renew-not-required	Field can contain Y/N	Covered in other parts of our proposals.*	
domain-ext:reseller	A field that contains a resellers reference to link the reseller data for a domain.	We propose modernising our reseller implementation; summary below.	
domain-ext:notes	Registrar free text notes.	We propose removing this field. See below.	

- Nominet do not currently allow for the collection and/or publication of Admin, Technical or Billing contacts for .UK domains and therefore those contact fields are not listed above. Nominet have no direct use for this data and will not mandate the collection of these data points; we would like feedback on whether our service should make it possible for registrants to choose to publish this data in regard to their domain.

Question: Would there be any benefit in allowing registrars on behalf of registrants to optionally submit Admin, Technical and Billing contacts on domain objects if they are also supported by the optional RDAP publication?

- Resellers - we have an unusual anomaly from historical implementation decisions with our EPP such that commands related to the setup of resellers cannot be used on the same EPP session as domain management; while the EPP extension to link the reseller to the domain can be used in the domain management EPP session.
    - We propose overhauling and replacing our current reseller implementation with the RFC8543 Organisation mapping combined with RFC8544 Organisation extension.
    - We intend at a later date we will extend the RFC8543/RFC8544 usage to also allow the maintenance of registrar data not just reseller data.
- Notes field data is not currently utilised by Nominet, nor is it shown publicly and it is only utilised by a few registrars, we propose removing this field.

3. RFC5732 Host object

    a. In .UK EPP host objects are limited to having at most 1 IPv4 and 1 IPv6 address, we propose amending this to bring it into line with the RFC allowing a host object to have multiple IPv4 and/or IPv6 addresses.

    b. EPP Host Info

        i. We propose updating the EPP Host Info command to include the following data in EPP query responses to the host info command. Our general principle is if it is trivially determinable publicly then any registrar should be able to access the same info in EPP.

Host Object		Proposed Details included in the EPP response to a host:info command.	
EPP Field	Description of field	Sponsoring Registrar	Non-sponsoring registrar
host:name	The current host name.	Yes	Yes
host:roid	The unique repository object identifier for the host object.	Yes	Yes
host:status	Lock settings and link status.	Yes	Yes
host:addr	Any IP address glue records.	Yes	Yes
host:crID	The EPP login ID for that created the host. (essentially the TAG that created it).	Yes	Yes
host:clID	The EPP login ID that controls the host. (essentially the TAG).	Yes	Yes
host:upID	The EPP login ID that last updated the host. (essentially the TAG that updated it).	Yes	Yes
host:crDate	The create date of the host.	Yes	Yes
host:upDate	The update date of the host.	Yes	Yes
host:trDate	The last transfer (of registrar) date of the host.	Yes	Yes

4. RFC5733 Contact object
   a. EPP Contact info
      i. We propose updating the EPP Contact Info command to include the following data in EPP query responses to the contact info command. Our general principle is if it is trivially determinable publicly then any registrar should be able to access the same info in EPP.

Contact Object		Proposed Details included in the EPP response to a contact:info command.	
EPP Field	Description of field	Sponsoring Registrar	Non-sponsoring registrar
contact:id	The contact ID.	Yes	Yes
contact:roid	The unique repository object identifier for the contact object.	Yes	Yes
contact:status	Lock settings and link status.	Yes	Yes

contact:postalinfo	Contains a range of fields:
	• contact:name
	• contact:org
	• contact:addr
	   ○ contact:street
	   ○ contact:city
	   ○ contact:sp
	   ○ contact:pc
	   ○ contact:cc
		Yes	No; unless either a valid auth code is provided for the contact object or an individual field has contact:disclose set to disclose.

contact:voice	The telephone number of the contact.	Yes	No; unless either a valid auth code is provided for the contact object or the individual field is set to disclose.
contact:fax	The fax number of the contact.	Yes	No; unless either a valid auth code is provided for the contact object or the individual field is set to disclose.
contact:email	The email address of the contact.	Yes	No; unless either a valid auth code is provided for the contact object or the individual field is set to disclose.
contact:crID	The EPP login ID for that created the contact. (essentially the TAG that created it).	Yes	Yes

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contact:clID	The EPP login ID that controls the host. (essentially the TAG).	Yes	Yes
contact:upID	The EPP login ID that last updated the contact. (essentially the TAG that updated it).	Yes	Yes
contact:crDate	The create date of the contact.	Yes	Yes
contact:upDate	The update date of the contact.	Yes	Yes
contact:trDate	The last transfer (of registrar) date of the contact.	Yes	Yes
contact:authinfo	A unique auth code for the contact.	No	No
contact:disclose	Contains the status of disclose or not for each of: • contact:name • contact:org • contact:addr • contact:voice • contact:fax • contact:email	Yes	Yes

- We intend that if contact:org does not exist; Nominet will cease automatically duplicating the data from contact:name leaving the rest of the data as is.
- We intend to enable the usage of either INT or LOC postal addresses in UK in line with EPP standards.
- We intend that our default settings of not publishing contact data will remain the default in line with our response to GDPR. We already allow an optional opt-in of publishing some data but that does not currently include, for example, the option to publish phone or email addresses – we propose to support optional opt in on all EPP contact disclosure fields.
- It should be noted that we have not yet taken a view in regard to the former historical automaton fields available on a contact; as we need to dig further into what it means as a registry and registrar to know your customer (KYC):
  - Trading name
  - Organisation type
  - Organisation number

Inter-registrar Transfers

The inter-registrar transfer process will be reviewed in a separate document.