Abstract

This document describes the mapping of the Extensible Provisioning Protocol (EPP) statuses with the statuses registered for use in the Registration Data Access Protocol (RDAP). This document identifies gaps in the mapping, and registers RDAP statuses to fill the gaps to ensure that all of the EPP RFC statuses are supported in RDAP.

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This document maps the statuses defined in the Extensible Provisioning Protocol (EPP) RFCs to the list of statuses registered for use in the Registration Data Access Protocol (RDAP), in the RDAP JSON Values Registry [rdap-json-values].

The RDAP JSON Values Registry is described in section 10.2 of [RFC7483] and is available in the RDAP JSON Values Registry [rdap-json-values].

The EPP statuses used as the source of the mapping include section 2.3 of the EPP Domain Name Mapping [RFC5731], section 2.3 of the EPP Host Mapping [RFC5732], section 2.2 of the EPP Contact Mapping [RFC5733], and section 3.1 of EPP Grace Period Mapping [RFC3915].

Each EPP status MUST map to a single RDAP status to ensure that data in the Domain Name Registries (DNRs) that use EPP can be accurately presented in RDAP.

1.1. Conventions Used in This Document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119 [RFC2119].

2. EPP to RDAP Status Mapping

Below is an alphabetically sorted list of EPP statuses from the EPP RFCs ([RFC5731], [RFC5732], [RFC5733], and [RFC3915]) mapped to the RDAP statuses registered in the RDAP JSON Values Registry [rdap-json-values], with the format <EPP Status> ‘=’ <RDAP Status>, where a blank <RDAP Status> indicates a gap in the mapping.
addPeriod =
autoRenewPeriod =
clientDeleteProhibited =
clientHold =
clientRenewProhibited =
clientTransferProhibited =
clientUpdateProhibited =
inactive = inactive
linked =
ok = active
pendingCreate = pending create
pendingDelete = pending delete
pendingRenew = pending renew
pendingRestore =
pendingTransfer = pending transfer
pendingUpdate = pending update
renewPeriod =
serverDeleteProhibited =
serverRenewProhibited =
serverTransferProhibited =
serverUpdateProhibited =
serverHold =
transferPeriod =

The RDAP JSON Values Registry [rdap-json-values] does have a set of prohibited statuses including "renew prohibited", "update prohibited", "transfer prohibited", and "delete prohibited", but these statuses do not directly map to the EPP prohibited statuses. The EPP prohibited statuses reflect both what is prohibited ("renew", "update", "transfer", "delete") and who set ("client" or "server") and can clear the status. In the DNR, the client and server prohibited statuses are separate and RDAP MUST support the same separation.

Each of the EPP status values that don’t map directly to an RDAP status value is described below. Each EPP status value includes a proposed new RDAP status value and a description of the value. The RDAP status value is derived from the EPP status value by converting the EPP camel case representation to lower case with a space character inserted between word boundaries.

addPeriod = add period; For DNR that indicates if the object is deleted by the registrar during this period, the registry provides a credit to the registrar for the cost of the registration.

autoRenewPeriod = auto renew period; For DNR that indicates if the object is deleted by the registrar during this period, the
registry provides a credit to the registrar for the cost of the
auto renewal.

clientDeleteProhibited = client delete prohibited;  For DNR that
indicates the client requested that requests to delete the object
MUST be rejected.

clientHold = client hold;  For DNR that indicates the client
requested that the DNS delegation information MUST NOT be
published for the object.

clientRenewProhibited = client renew prohibited;  For DNR that
indicates the client requested that requests to renew the object
MUST be rejected.

clientTransferProhibited = client transfer prohibited;  For DNR that
indicates the client requested that requests to transfer the
object MUST be rejected.

clientUpdateProhibited = client update prohibited;  For DNR that
indicates the client requested that requests to update the object
(other than to remove this status) MUST be rejected.

linked = linked;  For DNR that indicates the object has at least one
active association with another object, such as a domain object.

pendingRestore = pending restore;  For DNR that indicates a object is
in the process of being restored after being in the
redemptionPeriod state.

redemptionPeriod = redemption period;  For DNR that indicates a
delete has been received, but the object has not yet been purged
because an opportunity exists to restore the object and abort the
deletion process.

renewPeriod = renew period;  For DNR that indicates if the object is
deleted by the registrar during this period, the registry
provides a credit to the registrar for the cost of the renewal.

serverDeleteProhibited = server delete prohibited;  For DNR that
indicates the server set the status so that requests to delete
the object MUST be rejected.

serverRenewProhibited = server renew prohibited;  For DNR that
indicates the server set the status so that requests to renew the
object MUST be rejected.

serverTransferProhibited = server transfer prohibited;  For DNR that
indicates the server set the status so that requests to transfer
the object MUST be rejected.

serverUpdateProhibited = server update prohibited;  For DNR that
indicates the server set the status so that requests to update
the object (other than to remove this status) MUST be rejected.

serverHold = server hold;  For DNR that indicates the server set the
status so that DNS delegation information MUST NOT be published
for the object.

transferPeriod = transfer period;  For DNR that indicates if the
domain name is deleted by the registrar during this period, the
registry provides a credit to the registrar for the cost of the transfer.
The resulting mapping after registering the new RDAP statuses is:

- addPeriod = add period
- autoRenewPeriod = auto renew period
- clientDeleteProhibited = client delete prohibited
- clientHold = client hold
- clientRenewProhibited = client renew prohibited
- clientTransferProhibited = client transfer prohibited
- clientUpdateProhibited = client update prohibited
- inactive = inactive
- linked = linked
- ok = active
- pendingCreate = pending create
- pendingDelete = pending delete
- pendingRenew = pending renew
- pendingRestore = pending restore
- pendingTransfer = pending transfer
- pendingUpdate = pending update
- redemptionPeriod = redemption period
- renewPeriod = renew period
- serverDeleteProhibited = server delete prohibited
- serverRenewProhibited = server renew prohibited
- serverTransferProhibited = server transfer prohibited
- serverUpdateProhibited = server update prohibited
- serverHold = server hold
- transferPeriod = transfer period

3. IANA Considerations

3.1. JSON Values Registry

The following values should be registered by the IANA in the RDAP JSON Values Registry described in [RFC7483]:

- Value: add period
  - Type: status
  - Description: For DNR that indicates if the object is deleted by the registrar during this period, the registry provides a credit to the registrar for the cost of the registration.
  - Registrant Name: VeriSign Inc.
  - Registrant Contact Information: epp-registry@verisign.com

- Value: auto renew period
Type: status

Description: For DNR that indicates if the object is deleted by the registrar during this period, the registry provides a credit to the registrar for the cost of the auto renewal.

Registrant Name: VeriSign Inc.
Registrant Contact Information: epp-registry@verisign.com
Value: client delete prohibited

Type: status

Description: For DNR that indicates the client requested that requests to delete the object MUST be rejected.

Registrant Name: VeriSign Inc.
Registrant Contact Information: epp-registry@verisign.com
Value: client hold

Type: status

Description: For DNR that indicates the client requested that the DNS delegation information MUST NOT be published for the object.

Registrant Name: VeriSign Inc.
Registrant Contact Information: epp-registry@verisign.com
Value: client renew prohibited

Type: status

Description: For DNR that indicates the client requested that requests to renew the object MUST be rejected.

Registrant Name: VeriSign Inc.
Registrant Contact Information: epp-registry@verisign.com
Value: client transfer prohibited

Type: status
Description: For DNR that indicates the client requested that requests to transfer the object MUST be rejected.

Registrant Name: VeriSign Inc.

Registrant Contact Information: epp-registry@verisign.com

Value: client update prohibited

Type: status

Description: For DNR that indicates the client requested that requests to update the object (other than to remove this status) MUST be rejected.

Registrant Name: VeriSign Inc.

Registrant Contact Information: epp-registry@verisign.com

Value: linked

Type: status

Description: For DNR that indicates the object has at least one active association with another object, such as a domain object.

Registrant Name: VeriSign Inc.

Registrant Contact Information: epp-registry@verisign.com

Value: pending restore

Type: status

Description: For DNR that indicates a object is in the process of being restored after being in the redemptionPeriod state.

Registrant Name: VeriSign Inc.

Registrant Contact Information: epp-registry@verisign.com

Value: redemption period

Type: status

Description: For DNR that indicates a delete has been received, but the object has not yet been purged because an opportunity exists to restore the object and abort the deletion process.
Registrant Name: VeriSign Inc.

Registrant Contact Information: epp-registry@verisign.com

Value: renew period

Type: status

Description: For DNR that indicates if the object is deleted by the registrar during this period, the registry provides a credit to the registrar for the cost of the renewal.

Registrant Name: VeriSign Inc.

Registrant Contact Information: epp-registry@verisign.com

Value: server delete prohibited

Type: status

Description: For DNR that indicates the server set the status so that requests to delete the object MUST be rejected.

Registrant Name: VeriSign Inc.

Registrant Contact Information: epp-registry@verisign.com

Value: server renew prohibited

Type: status

Description: For DNR that indicates the server set the status so that requests to renew the object MUST be rejected.

Registrant Name: VeriSign Inc.

Registrant Contact Information: epp-registry@verisign.com

Value: server transfer prohibited

Type: status

Description: For DNR that indicates the server set the status so that requests to transfer the object MUST be rejected.
Value: server update prohibited
Type: status
Description: For DNR that indicates the server set the status so that requests to update the object (other than to remove this status) MUST be rejected.
Registrant Name: VeriSign Inc.
Registrant Contact Information: epp-registry@verisign.com

Value: server hold
Type: status
Description: For DNR that indicates the server set the status so that DNS delegation information MUST NOT be published for the object.
Registrant Name: VeriSign Inc.
Registrant Contact Information: epp-registry@verisign.com

Value: transfer period
Type: status
Description: For DNR that indicates if the domain name is deleted by the registrar during this period, the registry provides a credit to the registrar for the cost of the transfer.
Registrant Name: VeriSign Inc.
Registrant Contact Information: epp-registry@verisign.com

4. Security Considerations

The mapping described in this document do not provide any security services beyond those described by RDAP [RFC7483].

5. Normative References


Appendix A. Change History

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