

# Domain Registration Values

The domain registration lifecycle in the registry system follows a well-defined path with corresponding EPP and RDAP status values that accurately reflect the state of each domain at any given point. This document outlines the complete domain lifecycle and the status values that are applied throughout.

In this document, if a status is not clearly labeled as an EPP or RDAP status, it should be assumed the status is an EPP status, and the corresponding RDAP status also applies.

## Creation Phase

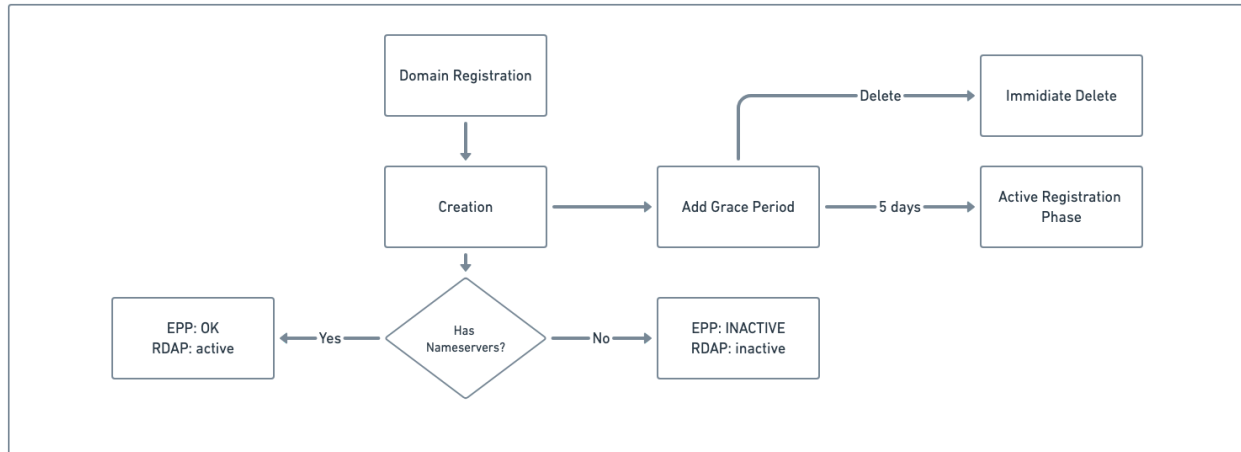
When a domain is first registered, it enters the **Creation Phase** with the following status values:

- **EPP Status Values:**
  - OK (if no other statuses apply)
  - INACTIVE (if no nameservers are provided)
- **RDAP Status Values:**
  - active (corresponding to EPP OK)
  - inactive (corresponding to EPP INACTIVE)

Additionally, the domain enters the **Add Grace Period**, typically lasting 5 days, during which:

- **EPP Grace Period:** addPeriod
- **RDAP Status:** add period

During this period, if the domain is deleted, the registration fee is refunded to the registrar.



## Active Registration Phase

After successful creation, the domain enters the **Active Registration Phase**. During this period, the domain may have various status values depending on its configuration and the restrictions placed upon it:

## Standard Status Values

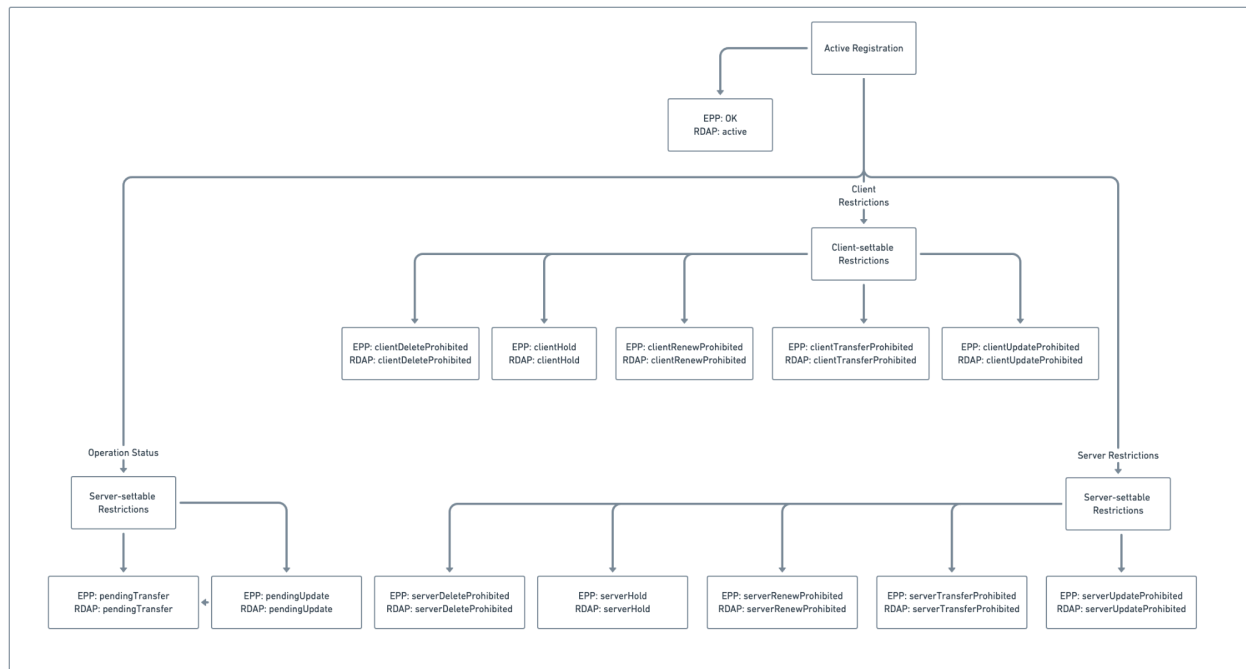
- **EPP Status:** OK (if no other statuses apply)
- **RDAP Status:** active

## Restriction Status Values

1. **Client-settable restrictions:**
  - EPP: clientDeleteProhibited / RDAP: client delete prohibited
  - EPP: clientHold / RDAP: client hold
  - EPP: clientRenewProhibited / RDAP: client renew prohibited
  - EPP: clientTransferProhibited / RDAP: client transfer prohibited
  - EPP: clientUpdateProhibited / RDAP: client update prohibited
2. **Server-settable restrictions:**
  - EPP: serverDeleteProhibited / RDAP: server delete prohibited
  - EPP: serverHold / RDAP: server hold
  - EPP: serverRenewProhibited / RDAP: server renew prohibited
  - EPP: serverTransferProhibited / RDAP: server transfer prohibited
  - EPP: serverUpdateProhibited / RDAP: server update prohibited

## Operation Status Values

- EPP: `pendingTransfer` / RDAP: `pending transfer` (during a transfer process)
- EPP: `pendingUpdate` / RDAP: `pending update` (when an update is being processed)



## Renewal Phase

Domains can be renewed either explicitly by the registrar or automatically at expiration:

### Explicit Renewal

When a domain is explicitly renewed, it enters the **Renew Grace Period**:

- **EPP Grace Period:** `renewPeriod`
- **RDAP Status:** `renew period`

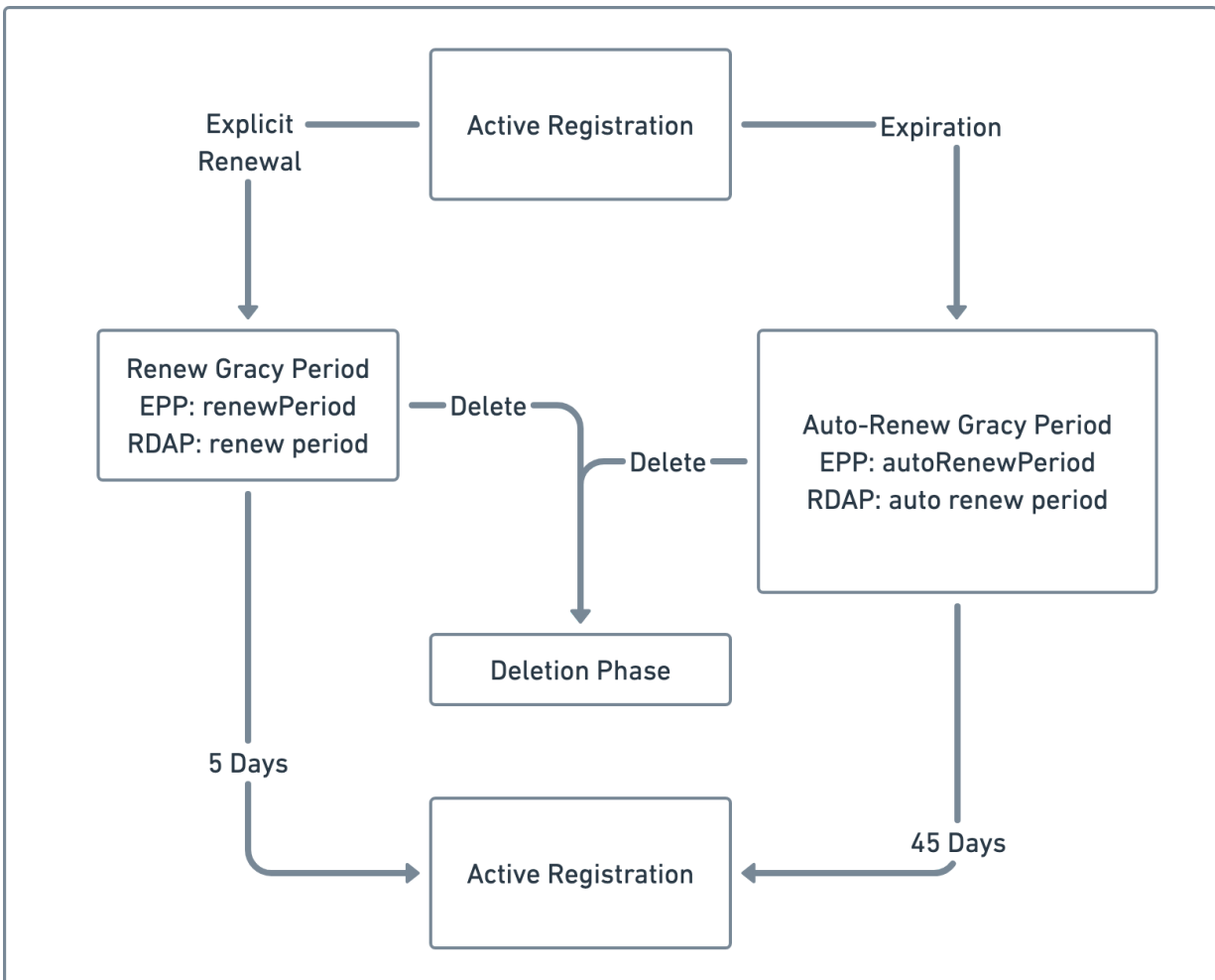
During this period (typically 5 days), if the domain is deleted, the renewal fee is refunded.

### Auto-Renewal

When a domain reaches its expiration date, it is automatically renewed and enters the **Auto-Renew Grace Period**:

- **EPP Grace Period:** `autoRenewPeriod`
- **RDAP Status:** `auto renew period`

This period typically lasts 45 days, during which the registrar can delete the domain without being charged for the auto-renewal.

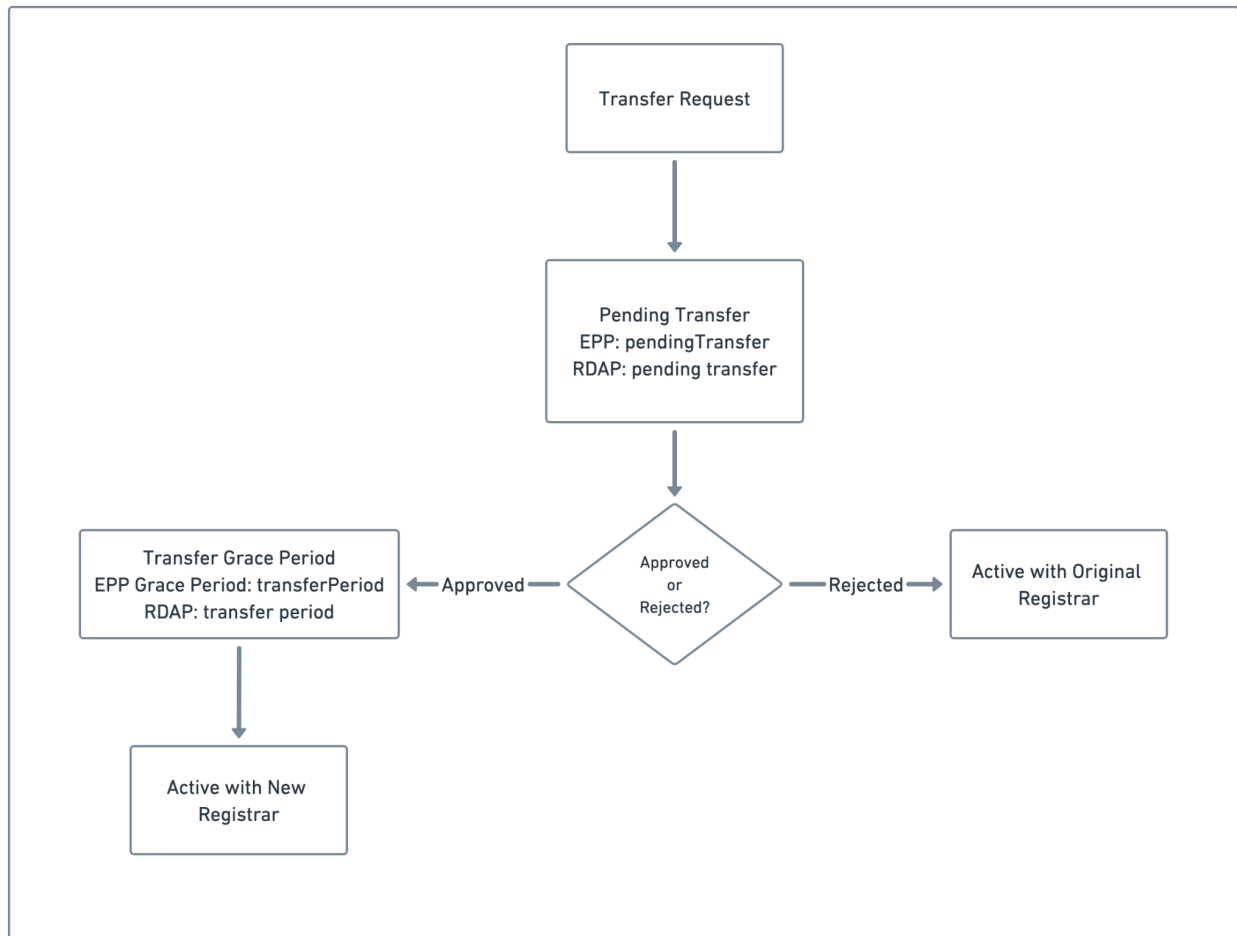


## Transfer Phase

When a domain is transferred between registrars, it goes through the following states:

1. **Pending Transfer:**
  - EPP: pendingTransfer
  - RDAP: pending transfer
2. **After transfer completion, it enters the Transfer Grace Period:**
  - EPP Grace Period: transferPeriod
  - RDAP: transfer period

This period typically lasts 5 days, during which the gaining registrar can delete the domain and receive a refund of the transfer fee.



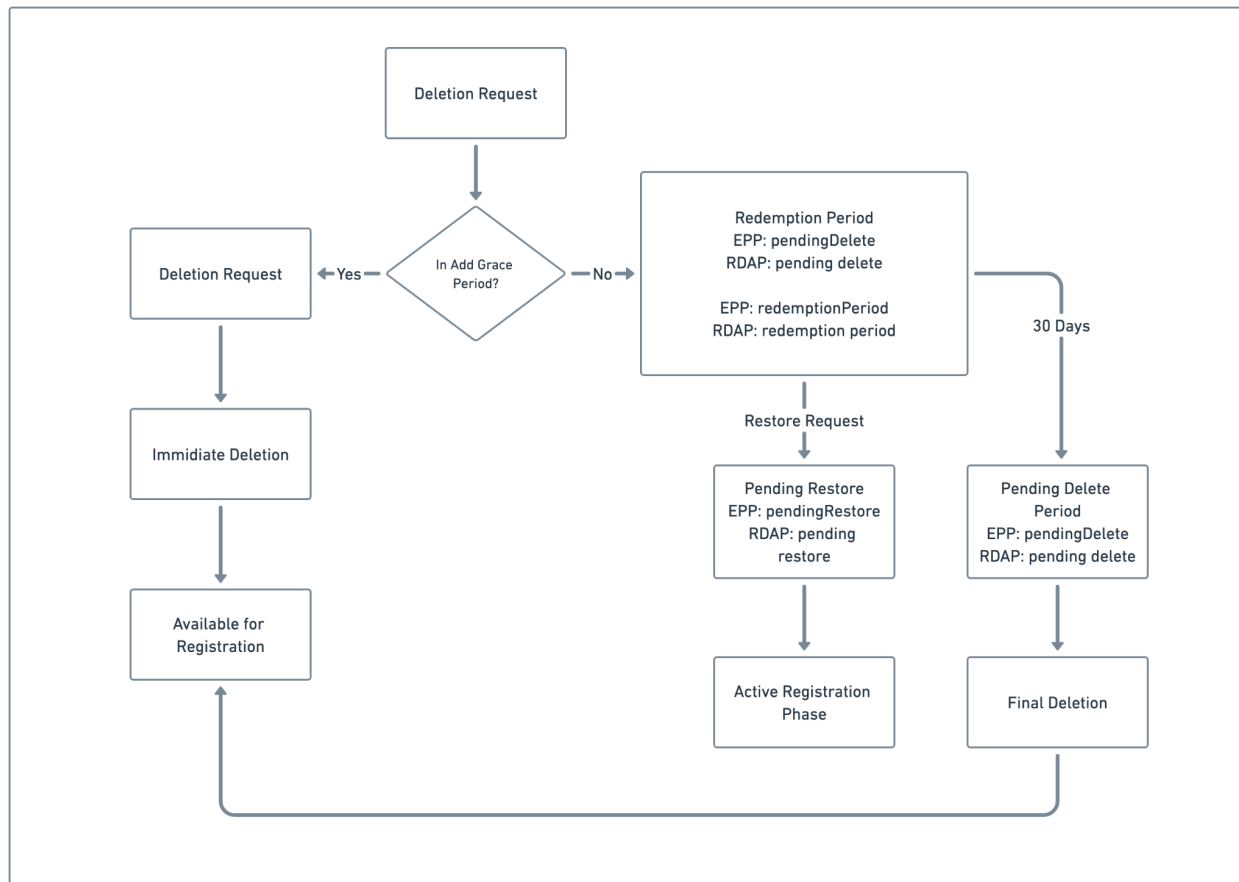
## Deletion Phase

The domain deletion process follows a carefully structured lifecycle:

1. **Immediate Deletion** (during Add Grace Period):
  - If a domain is deleted during the Add Grace Period, it is immediately removed from the registry with no further states.
2. **Redemption Period** (outside Add Grace Period):
  - When deleted outside the Add Grace Period, the domain enters the Redemption Grace Period:
    - EPP: `pendingDelete`
    - RDAP: `pending delete`
    - EPP Grace Period: `redemptionPeriod`
    - RDAP: `redemption period`
3. During this period (typically 30 days), the domain can be restored by the original registrar.
4. **Pending Delete Period:**
  - After the Redemption Period expires, the domain enters the Pending Delete Period:
    - EPP: `pendingDelete`

■ **RDAP:** pending delete

5. This period typically lasts 5 days, after which the domain is permanently deleted and becomes available for new registration.



## Domain Restoration

The domain restoration process provides a mechanism to recover domains that have been deleted outside the Add Grace Period:

## Redemption Period

When a domain enters the Redemption Period after deletion, it displays the following statuses:

- **EPP Status:** pendingDelete
- **RDAP Status:** pending delete
- **EPP Grace Period:** redemptionPeriod
- **RDAP Grace Period:** redemption period

During this 30-day period, the registrar can submit a restoration request for the domain.

## Pending Restore

Upon submission of a restoration request, the domain temporarily shows:

- **EPP Grace Period:** `pendingRestore`
- **RDAP Status:** `pending restore`

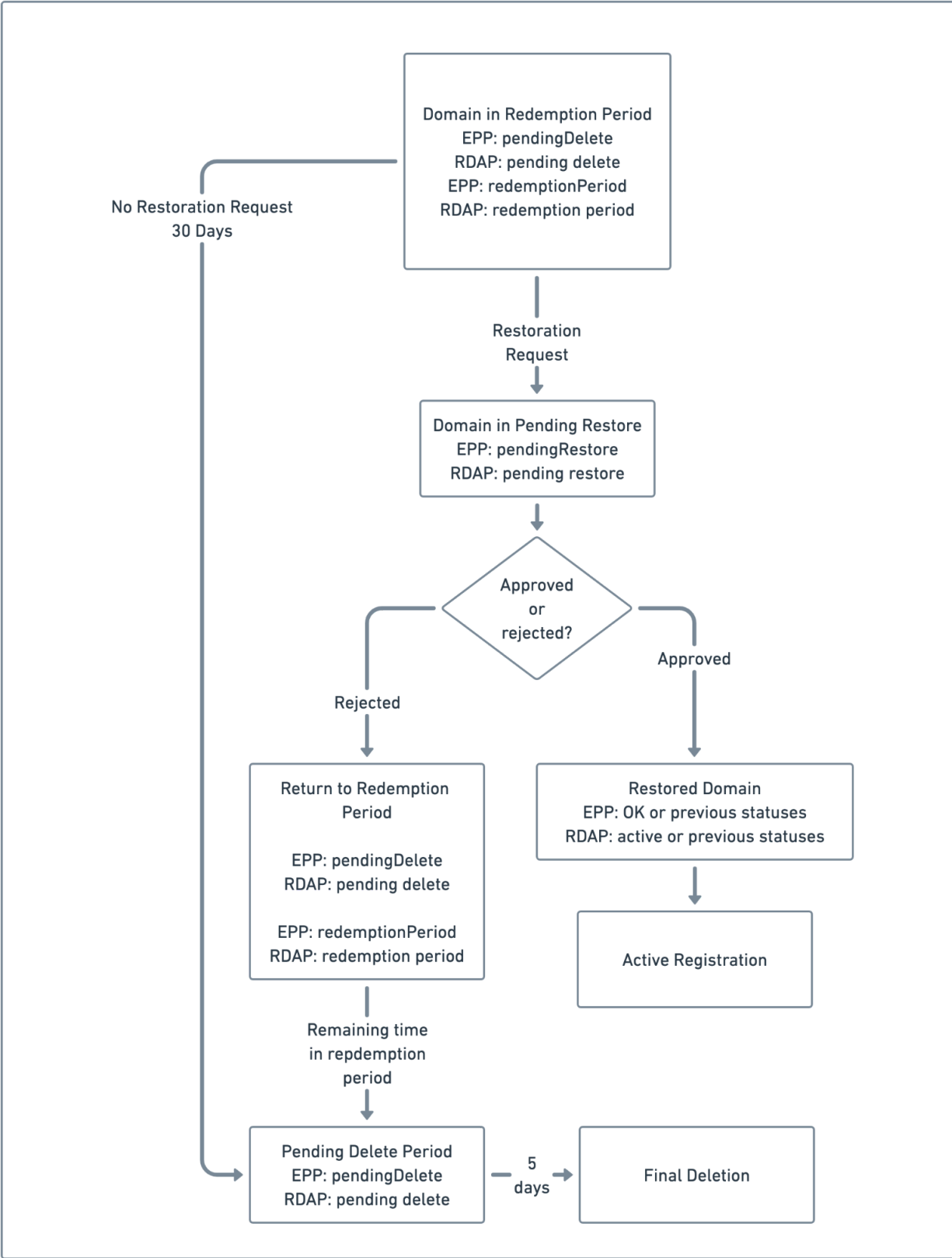
This status indicates that a restoration request is being processed but has not yet been completed.

## Restoration Outcomes

The restoration request can result in two outcomes:

1. **Successful Restoration:**
  - If approved, the domain returns to the Active Registration Phase with its previously applied status values.
  - Any client or server restrictions that were in place before deletion will be reinstated.
2. **Failed Restoration:**
  - If the restoration request is rejected or not completed, the domain returns to the Redemption Period status.
  - The domain will continue in the Redemption Period for any remaining time before transitioning to Pending Delete.

If no restoration request is submitted during the 30-day Redemption Period, the domain automatically proceeds to the Pending Delete Period, after which it is permanently deleted and becomes available for new registration.



## **Relationship Between EPP and RDAP Status Values**

The registry system maintains a direct mapping between EPP status values and their RDAP equivalents to ensure consistency across protocols. Each EPP status has a corresponding RDAP status that communicates the same domain state information, allowing registrars and registrants to understand domain status regardless of which protocol they use to access this information.

The registration lifecycle as implemented ensures compliance with ICANN policies and industry best practices while providing clear visibility into domain status through consistent EPP and RDAP status values.