

# rpm

## A binary RPM package type

### Table of contents

|                      |   |
|----------------------|---|
| 1 Overview.....      | 2 |
| 2 Design.....        | 2 |
| 3 Constraints.....   | 2 |
| 4 Attributes.....    | 3 |
| 5 Commands.....      | 4 |
| 6 Related Types..... | 4 |

## 1. Overview

**rpm:** *A binary RPM package type*

This package type's primary use is to be generated by the RpmBuilder type, although other rpm packages can be modeled in this manner as well. Packages are processed, handled, and installed using rpm, using sudo by default.

## 2. Design

### Super Type Package

|                    |  |
|--------------------|--|
| Role               | <b>Concrete.</b> (Objects can be created.) |
| Instance Names     | <b>Unique</b>                              |
| Notification       | <b>false</b>                               |
| Template Directory |  |
| Data View          | Children, proximity: <b>1</b>              |
| Logger Name        | rpm  |

## 3. Constraints

### 3.1. Allowed Child Dependencies

- PackageCommandExecutable
- PackageCommandScript
- [RpmCategory](#) 1
- [RpmCopyright](#) 1
- [RpmDbPath](#) 1
- RpmDefaultGroup1
- [RpmDefaultUser](#) 1
- [RpmDistribution](#) 1
- [RpmLicense](#) 1
- [RpmPackager](#) 1
- [RpmUrl](#) 1
- [RpmUseSudo](#) 1
- [RpmVendor](#) 1

1: These types have a *Singleton* constraint. Only one instance may be added as a resource.

### 3.2. Allowed Property Values

| Property         | Allowed Values   | Default  | Enforced |
|------------------|--|--|----------|
| package-filetype | <ul style="list-style-type: none"> <li>rpm</li> </ul>                              | <ul style="list-style-type: none"> <li>rpm</li> </ul>                              | true     |
| package-repo-url | <ul style="list-style-type: none"> <li><code>/\${context.module}</code></li> </ul> | <ul style="list-style-type: none"> <li><code>/\${context.module}</code></li> </ul> | false    |

## 4. Attributes

These are the default locations and settings in RHEL/CentOS. If you wish to use a different set of defaults for Vendor, URL, Copyright, etc., you may want to create a trivial subtype that only sets those defaults.

### 4.1. Defaults for Imported Attributes

| Name                       | Default   | Description  |
|----------------------------|---|--|
| package-create-script      | <code>\${modules.dir}/rpm/bin/create.xm</code>  | script to execute for create command                   |
| package-extract-script     | <code>\${modules.dir}/rpm/bin/extract.xm</code> | script to execute for extract command                  |
| package-isinstalled-script | <code>\${modules.dir}/rpm/bin/assertPac</code>  | script to execute for assertPackageIsInstalled command |
| package-remove-script      | <code>\${modules.dir}/rpm/bin/remove.xm</code>  | script to execute for remove command                   |
| package-verified-script    | <code>\${modules.dir}/rpm/bin/assertPac</code>  | script to execute for assertPackageIsVerified command  |
| rpmCategory                | none  |  |
| rpmCopyright               | none  |  |
| rpmDbPath                  | <code>/var/lib/rpm</code>                       |  |
| rpmDefaultGroup            | root  |  |
| rpmDefaultUser             | root  |  |
| rpmDistribution            | none  |  |

|             |      |
|-------------|------|
| rpmLicense  | none |
| rpmPackager | none |
| rpmUrl      | none |
| rpmUseSudo  | true |
| rpmVendor   | none |

## 5. Commands

View the available commands in the [User Reference](#).

## 6. Related Types

The following types are defined for use with rpm.

### 6.1. RpmCategory

#### 6.1.1. Overview

**RpmCategory:** *Group for categorizing the RPM package*

#### 6.1.2. Design

##### Super Type

[RpmSetting](#)

|                |  |
|----------------|--|
| Role           | <b>Concrete.</b> (Objects can be created.) |
| Instance Names | <b>Unique</b>                              |

#### 6.1.3. Attributes

##### 6.1.3.1. Exported Attributes

| Name        | Property     |
|-------------|--------------|
| rpmCategory | settingValue |

## 6.2. RpmCopyright

### 6.2.1. Overview

rpm

**RpmCopyright:** *RPM package copyright message*

### 6.2.2. Design

#### Super Type

[RpmSetting](#)

|                |  |
|----------------|--|
| Role           | <b>Concrete.</b> (Objects can be created.) |
| Instance Names | <b>Unique</b>                              |

### 6.2.3. Attributes

#### 6.2.3.1. Exported Attributes

| Name         | Property     |
|--------------|--------------|
| rpmCopyright | settingValue |

## 6.3. RpmDbPath

### 6.3.1. Overview

**RpmDbPath:** *Location of RPM database*

### 6.3.2. Design

#### Super Type

[RpmSetting](#)

|                |  |
|----------------|--|
| Role           | <b>Concrete.</b> (Objects can be created.) |
| Instance Names | <b>Unique</b>                              |

### 6.3.3. Attributes

#### 6.3.3.1. Exported Attributes

| Name      | Property     |
|-----------|--------------|
| rpmDbPath | settingValue |

## 6.4. RpmDefaultPath

### 6.4.1. Overview

**RpmDefaultPath:** *Default group to use for file attributes*

### 6.4.2. Design

#### Super Type

[RpmSetting](#)

|                |  |
|----------------|--|
| Role           | <b>Concrete.</b> (Objects can be created.) |
| Instance Names | <b>Unique</b>                              |

### 6.4.3. Attributes

#### 6.4.3.1. Exported Attributes

| Name            | Property     |
|-----------------|--------------|
| rpmDefaultGroup | settingValue |

## 6.5. RpmDefaultUser

### 6.5.1. Overview

**RpmDefaultUser:** *Default user to use for file attributes*

### 6.5.2. Design

#### Super Type

[RpmSetting](#)

|                |  |
|----------------|--|
| Role           | <b>Concrete.</b> (Objects can be created.) |
| Instance Names | <b>Unique</b>                              |

### 6.5.3. Attributes

#### 6.5.3.1. Exported Attributes

| Name           | Property     |
|----------------|--------------|
| rpmDefaultUser | settingValue |

## 6.6. RpmDistribution

### 6.6.1. Overview

**RpmDistribution:** *RPM package's Linux or product distribution*

### 6.6.2. Design

#### Super Type

[RpmSetting](#)

|                |  |
|----------------|--|
| Role           | <b>Concrete.</b> (Objects can be created.) |
| Instance Names | <b>Unique</b>                              |

### 6.6.3. Attributes

#### 6.6.3.1. Exported Attributes

| Name            | Property     |
|-----------------|--------------|
| rpmDefaultGroup | settingValue |

## 6.7. RpmLicense

### 6.7.1. Overview

**RpmLicense:** *Software license under which the package is released*

### 6.7.2. Design

#### Super Type

[RpmSetting](#)

|                |  |
|----------------|--|
| Role           | <b>Concrete.</b> (Objects can be created.) |
| Instance Names | <b>Unique</b>                              |

### 6.7.3. Attributes

#### 6.7.3.1. Exported Attributes

| Name       | Property     |
|------------|--------------|
| rpmLicense | settingValue |

## 6.8. RpmPackager

### 6.8.1. Overview

**RpmPackager:** *Name of the packager*

### 6.8.2. Design

#### Super Type

[RpmSetting](#)

|                |  |
|----------------|--|
| Role           | <b>Concrete.</b> (Objects can be created.) |
| Instance Names | <b>Unique</b>                              |

### 6.8.3. Attributes

#### 6.8.3.1. Exported Attributes

| Name        | Property     |
|-------------|--------------|
| rpmPackager | settingValue |

## 6.9. RpmSetting

### 6.9.1. Overview

**RpmSetting:** *An RPM package setting.*

These settings set the corresponding attributes in the rpm type.

### 6.9.2. Design

#### Super Type

Setting

|                |   |
|----------------|---|
| Role           | <b>Abstract.</b> (Objects cannot be created.) |
| Instance Names | <b>Unique</b>                                 |

### 6.9.3. Constraints

#### 6.9.3.1. Allowed Parent Dependencies

rpm

- [rpm](#)

## 6.10. RpmUrl

### 6.10.1. Overview

**RpmUrl:** *URL to RPM package home*

### 6.10.2. Design

**Super Type**  
[RpmSetting](#)

|                |  |
|----------------|--|
| Role           | <b>Concrete.</b> (Objects can be created.) |
| Instance Names | <b>Unique</b>                              |

### 6.10.3. Attributes

#### 6.10.3.1. Exported Attributes

| Name   | Property     |
|--------|--------------|
| rpmUrl | settingValue |

## 6.11. RpmUseSudo

### 6.11.1. Overview

**RpmUseSudo:** *Indicate whether sudo should be used to run rpm commands that need to update the system database*

### 6.11.2. Design

**Super Type**  
[RpmSetting](#)

|                |  |
|----------------|--|
| Role           | <b>Concrete.</b> (Objects can be created.) |
| Instance Names | <b>Unique</b>                              |

### 6.11.3. Attributes

#### 6.11.3.1. Exported Attributes

| Name       | Property     |
|------------|--------------|
| rpmUseSudo | settingValue |

## 6.12. RpmVendor

### 6.12.1. Overview

**RpmVendor:** *Name of RPM package vendor*

### 6.12.2. Design

**Super Type**  
[RpmSetting](#)

|                |  |
|----------------|--|
| Role           | <b>Concrete.</b> (Objects can be created.) |
| Instance Names | <b>Unique</b>                              |

### 6.12.3. Attributes

#### 6.12.3.1. Exported Attributes

| Name      | Property     |
|-----------|--------------|
| rpmVendor | settingValue |