

Extensible Choice Parameter plugin

Plugin Information

View Extensible Choice Parameter [on the plugin site](#) for more information.

Older versions of this plugin may not be safe to use. Please review the following warnings before using an older version:

- [Arbitrary code execution vulnerability](#)

This plugin adds "Extensible Choice" as a build parameter. You can select how to retrieve choices, including the way to share choices among all jobs.

What's this?

This plugin provides a Extensible Choice parameter:

- When building, the value can be selected with a dropdown like a built-in Choice parameter.
- The choices can be provided in several ways:
 - Global Choice Parameter: defines choices in the Configure System page.
 - Choices can be shared by multiple jobs.
 - Updating the choices in the Configure System, every job can immediately refer the updated choices.
 - Textarea Choice Parameter: writes choices in a textarea, just like a built-in Choice parameter.
 - System Groovy Script Choice Parameter: runs a System Groovy script to determine the list of choices
 - File Choice Parameter: lists files in a directory.
- Checking Editable checkbox allows you to specify any value, even one not in the choices.
 - Edited values can be added to the choice used next time automatically by checking "Add Edited Value".
- You can add a new way to provide choices with Extension Points.

Disabling providers

Some choice providers may cause security issues in your system:

Choice Provider	Security Issue	Note
File Choice Parameter	Any users with project configuration privilege can list files in the OS with the privilege of the OS user Jenkins run with.	Users can do that also with "Execute shell" or "Execute Windows Batch" build step.

You can disable specific providers in system configuration page:

SSH Server

SSHD Port Fixed : Random Disable ?

Extensible Choice: Available Choice Providers

File Choice Parameter

Global Choice Parameter

Global Choice Parameter

Name ?

Choices
 ?

Allow Add Edited Value ?

System Groovy Choice Parameter

Textarea Choice Parameter

CVS [Check CVS version](#)

cvs executable ?

In the above screen, System Groovy Script Choice Parameter (unchecked one) is disabled.

Screenshots

- "Extensible Choice" is added as a type of build parameters.

This build is parameterized

Disable Build the project is re-enabled

Execute command the project is re-enabled

Advanced Properties

?

- Boolean Value
- Choice
- Extensible Choice**
- File Parameter
- List Subversion tags (and more)
- Password Parameter

- You can select the way to define choices of the parameter.

Extensible Choice

Name ?

Description ?

Choice Provider ?

- Global Choice Parameter
- File Choice Parameter
- Global Choice Parameter**
- System Groovy Choice Parameter
- Textarea Choice Parameter

Add Edited Value ?

When to Add ?

** A new way to provide choices can be added with Extension Points.

- Selecting "Textarea Choice Parameter", you can define choices like the built-in Choice parameter.

Choice Provider **Textarea Choice Parameter** ?

Choices

VALUE1
VALUE2
VALUE3

Editable ?

- "Global Choice Parameter" enables you to select a set of choices from the ones defined in System Configuration page.
 - Defining in System Configuration page:

Global Choice Parameter

Global Choice Parameter

Name GLOBAL_CHOICE1 ?

Choices GLOBAL_VALUE1
GLOBAL_VALUE2
GLOBAL_VALUE3 ?

Delete

Global Choice Parameter

Name GLOBAL_CHOICE2 ?

Choices PATH/TO/COMPILER1 ?

- Select which set of choices to use:

Choice Provider **Global Choice Parameter** ?

Name GLOBAL_CHOICE1 ?

GLOBAL_CHOICE1
GLOBAL_CHOICE2

Editable ?

Delete

- "System Groovy Choice Parameter" generate choices with a Groovy script:

Choice Provider **System Groovy Choice Parameter** ?

Groovy System Script (0..9).collect{String.format("value%02d", it)} ?

Default Choice <Top Most Value> ?

value00
value01
value02
value03
value04
value05
value06
value07
value08
value09

Editable ?

Add Parameter

Build (No new builds will be executed until the p
concurrent builds if necessary

- "File Choice Parameter" enables select a file in a specified directory:

Choice Provider: File Choice Parameter

Base Directory: .

File Name Pattern: **/config.xml

Exclude Pattern: **/2013-*/config.xml

Type: File

config.xml
 jobs\testTextarea\config.xml
 jobs\test\config.xml
 users\admin\config.xml

List Files Now

Editable

- You can specify its default value. This is useful with Global Choice Parameter to specify different default values in jobs:

Choice Provider: Global Choice Parameter

Name: GLOBAL_CHOICE1

Default Choice: <Top Most Value>

Add Edited Value

GLOBAL_VALUE1
 GLOBAL_VALUE2
 GLOBAL_VALUE3

Editable

- Checking "Editable" enables you to input a value not in choices at build time:

Project test1

This build requires parameters:

PARAM1 GLOBAL_VALUE4

GLOBAL_VALUE1
 GLOBAL_VALUE2
 GLOBAL_VALUE3

Build

** Textarea Choice Parameter and Global Choice Parameter provides "Add Edited Value", which automatically adds a value not in the choice list:

Choice Provider: Global Choice Parameter

Name: GLOBAL_CHOICE1

Default Choice: <Top Most Value>

Add Edited Value

When to Add: triggered

triggered
 completed
 completed stable
 completed stable or unstable

Editable

Extension point

A new way to provide choices can be added with extending `ChoiceListProvider`, overriding the following method:

```
abstract public List<String> getChoiceList()
```

Issues

Open Issues

To report a bug or request an enhancement to this plugin please create a ticket in JIRA (you need to login or to sign up for an account). Also have a look on [How to report an issue](#)

- [Bug report](#)
- [Request or propose an improvement of existing feature](#)
- [Request or propose a new feature](#)

Change Log

Version 1.6.0 (May 20, 2018)

- Add an option to switch the behavior of input value when the input is editable ([JENKINS-22316](#), [JENKINS-50315](#))
 - You can select "Display all choices" (the behavior same to Extensible Choice Paramter <= 1.4.2) or "Display only matching choices" (the behavior same to Extensible Choice Paramter 1.5.0).
 - "Display all choices" is the default behavior.

Version 1.5.0 (Mar 17, 2018)

- Filter options by input when the input is editable ([JENKINS-22316](#))
- Save as more simple configurations ([JENKINS-49210](#))

Version 1.4.2 (Jan 27, 2018)

- Compatible with Jenkins >= 2.102 ([JENKINS-49017](#))
 - See [JEP-200](#) for more details
- Fix typo ([PR #32](#))

Version 1.4.1 (Aug 27, 2017)

- FIXED: HTML in description is always escaped ([JENKINS-42903](#))
- Fix typo ([PR #29](#))

Version 1.4.0 (Apr 10, 2017)

- SECURITY FIX: [Jenkins Security Advisory 2017-04-10#Extensible Choice Parameter Plugin](#)
 - Groovy scripts run with [Script Security Plugin](#)
 - Existing scripts are configured to run in the script sandbox.
 - You might require approve some methods for the sandbox, or configure scripts run without the sandbox and approve scripts.
- Targets Jenkins >= 1.580.1.
- The pre-defined variable 'jenkins' is no longer provided.
 - You can get Jenkins instance with `jenkins.model.Jenkins.instance` instead. Require appropriate approving.

Version 1.3.4 (Jan 28, 2017)

- Use the top most value if the specified default parameter isn't contained in the choice list.
 - Note: Builds fail if you passed a value not contained in the choice list explicitly (e.g. via [Parameterized trigger plugin](#)).

Version 1.3.3 (Oct 22, 2016)

- FIXED: "Top Most Value" is replaced with an empty value when saved before the job configuration page is completed to be load ([JENKINS-37147](#))

Version 1.3.2 (Aug 23, 2015)

- Fixed `UnsupportedOperationException` when Empty Choice is configured for File Choice Parameter ([JENKINS-29934](#))
- Improved the help of Exclude Pattern of File Choice Parameter.

Version 1.3.1 (Jun 20, 2015)

- Fixed NPE with "List Files Now" in configuration pages ([JENKINS-28841](#), regression in 1.3.0)

Version 1.3.0 (May 05, 2015)

- Now you can disable specific providers in system configuration page ([JENKINS-27375](#)).
 - See [#Disabling providers](#) for details.
- Validates parameter names by checking they can be handled by Jenkins core ([JENKINS-22222](#)).
- Fixed "Error: No stapler-class is specified" when saving project configuration with Jenkins 1.610([JENKINS-28046](#)).
 - Dot letters are allowed for variable names with Jenkins > 1.526.
- Added an empty choice option to FilenameChoiceListProvider ([JENKINS-22318](#)).
- Also accepts `$class` introduced in Jenkins 1.588 ([JENKINS-25403](#)).

Version 1.2.2 (Dec 08, 2013)

- Added feature to use `project` in System Groovy Script. [JENKINS-17875](#)
- Added feature to reverse file lists.

Version 1.2.1 (Jun 22, 2013)

- Added documents for System Groovy Script Choice Parameter.
- Added "Run the Script Now" Button for System Groovy Script Choice Parameter.

Version 1.2.0 (May 03, 2013)

- Added new providers
 - System Groovy Script Choice Parameter: runs a System Groovy script to determine the list of choices
 - File Choice Parameter: lists files in a directory.
- Added checkbox "Add Edited Value" to Textarea Choice Parameter and Global Choice Parameter. By checking this, edited values used in builds are automatically added to choices.

Version 1.1.0 (Feb 06, 2013)

- Now you can select the default choice in each job.
- Fixed the misspell.

Version 1.0.0 (Jan 07, 2013)

- Initial release.