

Use metadata to increment composite major, minor, patch content version on an approval decision requiring a parameter

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Overview

Different events can be used to increment a composite version number using the `{increment-metadata}` macro.

You can add a condition to a trigger to increment one element of a composite version.

In this approval workflow the approver in the **Review** state chooses the element of the composite version update being approved.

- the composite version number is set as a metadata value of **1.0.0** for `@current-version@` on the page creation
- a workflow parameter `@Update type@` is created with a choice of three values, one for each composite version element
- the content review **approve** decision requires the setting of the `@Update type@` workflow parameter value prior to the **approved** transition
- the [required parameter](#) value is one of **Major**, **Minor** or **Patch**

Created by admin, last modified just a moment ago ● Review

Owner	admin
Version	1.0.0
Latest update	on by

Please review the content

Add comment

⚠️ Approve... ✖️ Reject

Additional information required before continuing

Next: ● Approved ○ Pending ○ Rejected

Final: ● Approved ○ Pending ○ Rejected

- the choice of **Major**, **Minor** or **Patch** parameter value acts as a condition for one of three triggers to update the appropriate metadata version component of `@current-version@` using the `{increment-metadata}` macro.

Use of triggers

The workflow uses the following trigger actions

- a `pagecreated` event trigger initializes a version value using `{set-metadata}` macro on the creation of the page
- three `pageapproved` event triggers increment the component version value using the `{increment-metadata}` macro. Each trigger updates a different element of the composite metadata version number
- a `statechanged` event trigger clears any existing value for the `@Update type@` workflow parameter on a transition to the **Review** state

Each of the three `pageapproved` event triggers listen for the approval decision for the **Approved** content review in the **Review** state. But each trigger has a condition based on the type of version update set by the approver.

- the condition is the value of the workflow parameter `@Update-type@=Major` or `Minor` or `Patch`

Metadata values are also updated in each of these three triggers for the following

- `@last-approver@`
- `@last-date@`
- `@current-type@`

These are displayed on the content using the `@pageheader@` macro.

You may need to refresh the page content to view changes in the displayed metadata values.

Workflow parameter value trigger condition

Major, **Minor** and **Patch** are workflow parameter values set as a list option choice for the workflow parameter @Update type@.

The screenshot shows the 'Edit parameter' configuration interface. At the top, there is a title 'Edit parameter' with a help icon. Below it, the text reads 'Edit a value reference from the Workflow Increment a Metadata Version conditional'. A back arrow is on the left. The form has two main sections: 'Name' and 'Type'. The 'Name' field contains 'Update type'. The 'Type' dropdown is set to 'options'. Below this is the 'Options' section, which is a list box containing 'Major', 'Minor', and 'Patch', each with a close button. Below the list box is a 'Value' dropdown set to 'Parameter value'. Underneath the dropdown is a note: 'Enter a value or value reference. Find out more about how parameters work here.' Below that is a 'Description' text area containing the text: 'Please, select the update type: Major (x.0.0), Minor (0.x.0), Patch (0.0.x)'. At the bottom right, there are three buttons: 'Apply', 'Delete', and 'Cancel'.

In the workflow popup, the reviewer is required to set this parameter value for the **approve** decision to take place.

The screenshot shows a 'Review' popup window. The title is 'Please review the content'. There is a text input field labeled 'Add comment'. Below the input field are two buttons: 'Approve...' with a warning icon and 'Reject' with a close icon. A dark blue banner with white text reads 'Additional information required before continuing'. At the bottom, there are two status indicators: 'Next: Approved' and 'Final: Approved', each with a green circle icon.

The approver chooses one of **Major**, **Minor** or **Patch** values from the parameter value option.

Approve



Update type *

- Major
- Minor
- Patch

Approve

Cancel

Once confirmed the approved transition occurs.

Composite major-minor-patch version workflow

```

{workflow:name=Increment a Metadata Version conditional|label=versiontest}
  {description}
  A simple approval workflow with use of increment-metadata macro to set the version of
  of approved contentand increment the version on the approval transition.
  {description}
  {pageheader}
    |Owner|@creator@|
    |Version|@current-version@|
    |Latest update|@current-type@ on @last-date@ by @last-approver@|
  {pageheader}
  {workflowparameter:Update type|description=Please, select the update type: Major (x.0.0), Minor (0.x.0),
  Patch (0.0.x)|type=list|options=Major,Minor,Patch|edit=true}
  {workflowparameter}
  {state:Review|approved=Approved|rejected=Rejected|taskable=true}
    {approval:Please review the content}
  {state}
  {state:Rejected|submit=Review|taskable=true|colour=#FF5630}
  {state}
  {state:Approved|final=true|updated=Review|hideselection=true|requiredparams=Update type}
  {state}
  {trigger:pagecreated}
    {set-metadata:current-version}1.0.0{set-metadata}
  {trigger}
  {trigger:statechanged|state=Review}
    {set-metadata:Update type}{set-metadata}
  {trigger}
  {trigger:pageapproved|approval=Please review the content|@Update type@=Major}
    {increment-metadata:current-version|increment=1.0.0}
    {set-metadata:current-type}Major update{set-metadata}
    {set-metadata:last-date}@date@{set-metadata}
    {set-metadata:last-approver}@user@{set-metadata}
  {trigger}
  {trigger:pageapproved|approval=Please review the content|@Update type@=Minor}
    {increment-metadata:current-version|increment=0.1.0}
    {set-metadata:current-type}Minor update{set-metadata}
    {set-metadata:last-date}@date@{set-metadata}
    {set-metadata:last-approver}@user@{set-metadata}
  {trigger}
  {trigger:pageapproved|approval=Please review the content|@Update type@=Patch}
    {increment-metadata:current-version|increment=0.0.1}
    {set-metadata:current-type}Patching update{set-metadata}
    {set-metadata:last-date}@date@{set-metadata}
    {set-metadata:last-approver}@user@{set-metadata}
  {trigger}
{workflow}

```

Here's how each trigger action works

Trigger Event	Action macro	Notes

pagecreated	<code>{set-metadata}</code>	<ul style="list-style-type: none"> sets the metadata <code>current-version</code> and initializes the value to 1.0.0 on the creation of the page metadata displayed on the page using <code>{pageheader}</code> macro only occurs if the workflow is applied in space mode 	<table border="1"> <tr> <td>Owner</td> <td>admin</td> </tr> <tr> <td>Version</td> <td>1.0.0</td> </tr> <tr> <td>Latest update</td> <td>on by</td> </tr> </table>	Owner	admin	Version	1.0.0	Latest update	on by
Owner	admin								
Version	1.0.0								
Latest update	on by								
pageapproved ...@Update-type@=Major	<code>{increment-metadata}</code> <code>{set-metadata}</code>	<ul style="list-style-type: none"> increments the composite <code>current-version</code> major value by 1 each time the content is approved, the approver sets the required parameter value to Major and transitions to Approved minor and patch value are reset to zero three separate <code>set-metadata</code> action macros update values for each of the following metadata <ul style="list-style-type: none"> <code>@last-approver@</code> <code>@last-date@</code> <code>@current-type@</code> 	<div data-bbox="613 573 730 604">Approve</div> <div data-bbox="1421 573 1445 604">✕</div> <p data-bbox="613 663 730 688">Update type *</p> <div data-bbox="613 695 1468 751"> <p data-bbox="625 709 678 735">Major</p> <p data-bbox="1425 709 1445 735">▼</p> </div> <p data-bbox="613 762 1211 787">Please, select the update type: Major (x.0.0), Minor (0.x.0), Patch (0.0.x)</p> <div data-bbox="1227 825 1344 873"> <p data-bbox="1243 835 1328 861">Approve</p> </div> <p data-bbox="1373 835 1442 861">Cancel</p> <p data-bbox="613 926 1276 951">Created by admin, last modified 15 minutes ago ● Approved</p> <table border="1" data-bbox="618 1014 1369 1220"> <tr> <td>Owner</td> <td>admin</td> </tr> <tr> <td>Version</td> <td>2.0.0</td> </tr> <tr> <td>Latest update</td> <td>Major update on Sep 30, 2020 by admin</td> </tr> </table>	Owner	admin	Version	2.0.0	Latest update	Major update on Sep 30, 2020 by admin
Owner	admin								
Version	2.0.0								
Latest update	Major update on Sep 30, 2020 by admin								

<pre>pageapproved ... @Update-type@=Minor</pre>	<pre>{increment-metadata} {set-metadata}</pre>	<ul style="list-style-type: none"> • increments the composite current-version minor value by 1 each time the content is approved, the approver sets the required parameter value to Minor and transitions to Approved • patch value is reset to zero • three separate set-metadata action macros update values for each of the following metadata <ul style="list-style-type: none"> • @last-approver@ • @last-date@ • @current-type@ 	<div style="border: 1px solid #ccc; padding: 10px;"> <h3 style="text-align: left;">Approve ✕</h3> <p>Update type*</p> <div style="border: 1px solid #007bff; padding: 2px; display: inline-block; margin-bottom: 5px;">Minor</div> <p style="font-size: 0.8em; margin-top: 5px;">Please, select the update type: Major (x.0.0), Minor (0.x.0), Patch (0.0.x)</p> <div style="text-align: right; margin-top: 10px;"> Approve Cancel </div> <p style="margin-top: 20px;">Created by admin, last modified 15 minutes ago ● <u>Approved</u></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="padding: 5px;">Owner</td> <td style="padding: 5px;">admin</td> </tr> <tr> <td style="padding: 5px;">Version</td> <td style="padding: 5px;">1.1.0</td> </tr> <tr> <td style="padding: 5px;">Latest update</td> <td style="padding: 5px;">Minor update on Sep 30, 2020 by admin</td> </tr> </table> </div>	Owner	admin	Version	1.1.0	Latest update	Minor update on Sep 30, 2020 by admin
Owner	admin								
Version	1.1.0								
Latest update	Minor update on Sep 30, 2020 by admin								
<pre>pageapproved ... @Update-type@=Patch</pre>	<pre>{increment-metadata} {set-metadata}</pre>	<ul style="list-style-type: none"> • increments the composite current-version patch value by 1 each time the content is approved, the approver sets the required parameter value to Patch and transitions to Approved • three separate set-metadata action macros update values for each of the following metadata <ul style="list-style-type: none"> • @last-approver@ • @last-date@ • @current-type@ 	<div style="border: 1px solid #ccc; padding: 10px;"> <h3 style="text-align: left;">Approve ✕</h3> <p>Update type*</p> <div style="border: 1px solid #007bff; padding: 2px; display: inline-block; margin-bottom: 5px;">Patch</div> <p style="font-size: 0.8em; margin-top: 5px;">Please, select the update type: Major (x.0.0), Minor (0.x.0), Patch (0.0.x)</p> <div style="text-align: right; margin-top: 10px;"> Approve Cancel </div> <p style="margin-top: 20px;">Created by admin, last modified less than a minute ago ● <u>Approved</u></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="padding: 5px;">Owner</td> <td style="padding: 5px;">admin</td> </tr> <tr> <td style="padding: 5px;">Version</td> <td style="padding: 5px;">1.0.1</td> </tr> <tr> <td style="padding: 5px;">Latest update</td> <td style="padding: 5px;">Patching update on Sep 30, 2020 by admin</td> </tr> </table> </div>	Owner	admin	Version	1.0.1	Latest update	Patching update on Sep 30, 2020 by admin
Owner	admin								
Version	1.0.1								
Latest update	Patching update on Sep 30, 2020 by admin								
<pre>statechanged ... state=Review</pre>	<pre>{set-metadata}</pre>	<ul style="list-style-type: none"> • clears the value of the workflow parameter @Update type@ on transition to the Review state • {set-metadata : @Update type@} action macro with empty body clears any value for the workflow parameter 							

Only the **approved** transition to the **Approved** state will update the metadata version in this example.

