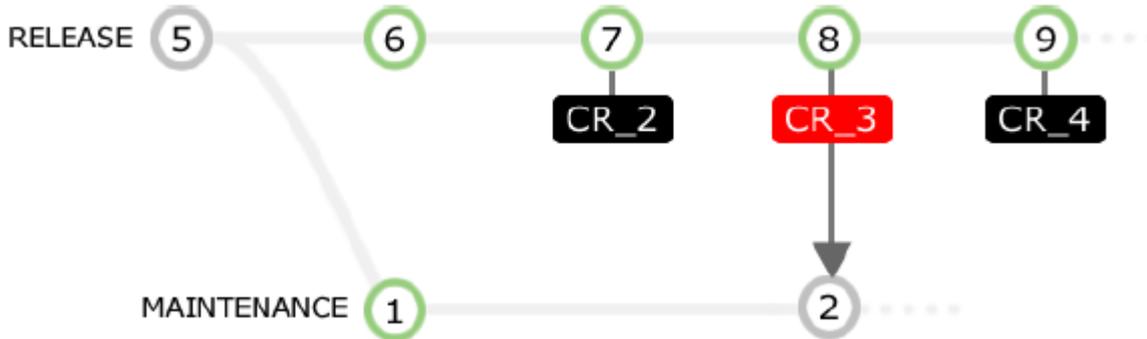


Dimensions 14.2: Cherry Picked Merge Getting Started Guide

Cherry Picking within the context of a merge is a new feature in 14.2 that allows the user to control what historical change information is used to determine the merged result.

The following diagram describes a typical parallel development scenario, deliveries have been made against the release stream, however the merge only requires the changes scoped by a particular request to be merged back into the maintenance stream, in this case request CR_3 which refers to changeset 8.



Cherry-picked merges are best understood by way of a worked example, which covers the following steps:

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Step 1: Create and populate the release stream

Create a new empty directory and place a text file called hello1.txt into it

```
md c:\work\streams\rel1
```

```
echo version1 > c:\work\streams\rel1\hello1.txt
```

Select Stream | New | Stream

General
Give your new stream a name, description and version branch name.

Create a new stream in product:
QLARIUS

Stream name:
REL1

Unique branch name (used to tag versions created in this stream):
rel1 e.g. rel1_1, rel2_0

Description:
Release 1 stream

Create a personal stream

When stream created
 Open using work area: c:\work\streams\rel1
 Add the new stream to my favorites

Next > Cancel Help

Select Based on nothing and click on **Finish**.

New Stream

Additional Details
Confirm if your new stream will be an empty stream or based on an existing stream or baseline and if CM rules are to be enabled.

Based on
 Nothing (empty stream)
 Based on stream
MAINT1 Select...
 Copy build configuration
 Based on baseline

Change management rules
 Valid request must be specified when delivering changes

< Back Next > Finish Cancel Help

Select Stream | Deliver into Stream, click on **Next**

Deliver to Stream
This wizard will walk you through the steps needed to deliver changes in your work area to the repository.

Deliver to: QLARIUS:SH1

Include the following types of changes:
 Additions Deletions Modifications Moves/Renames

Filter using wildcards (optional)
Specify criteria here: e.g. *.cpp|*.h|build\c*.c|build_**.txt|*

Include local files:

Exclude local files: *|Debug|Release|bin|obj|pch|user|.ncb|.suo|.cmcc|.opensdf|.sdf|.aps|.class|.jar|.war|.e

>>> Show additional options

About... < Back Next > Cancel Help

Add a comment *First Delivery* and click on **Next** and then click on **Deliver**.

Deliver - [C:\work\streams\rel1]

Please review the list of changes below and take appropriate action.

Work Area Filename	Change Type	Resolution	Repository Filename
C:\work\streams\rel1\hello1.txt	Addition	Accept	

Deliver: Work area: C:\work\ Selected: 1 Differences: 1 Locked: 0 Conflicts: 0 Unresolved: 0

Default options **Apply to all relevant changes (unless overridden)**

Comment: First delivery

Relate to request(s): <None>

Design part for new files: <Use default>

Permissions after Deliver: Keep unchanged

Expand substitution variables: No

Buttons: Defaults, Options, Properties

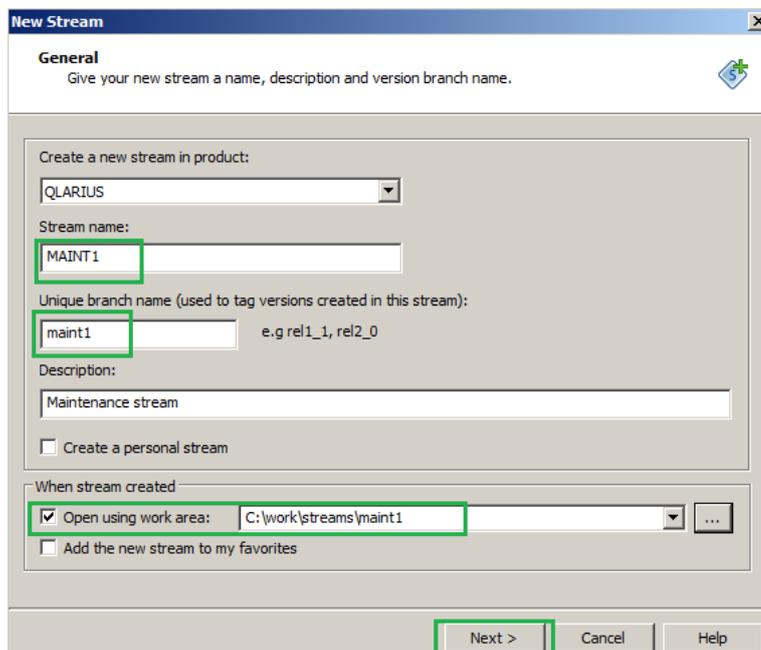
Bottom buttons: < Back, Deliver, Cancel, Help

Step 2: Create Maintenance stream based on the Release stream

Select **Stream** | **New** | **Stream**

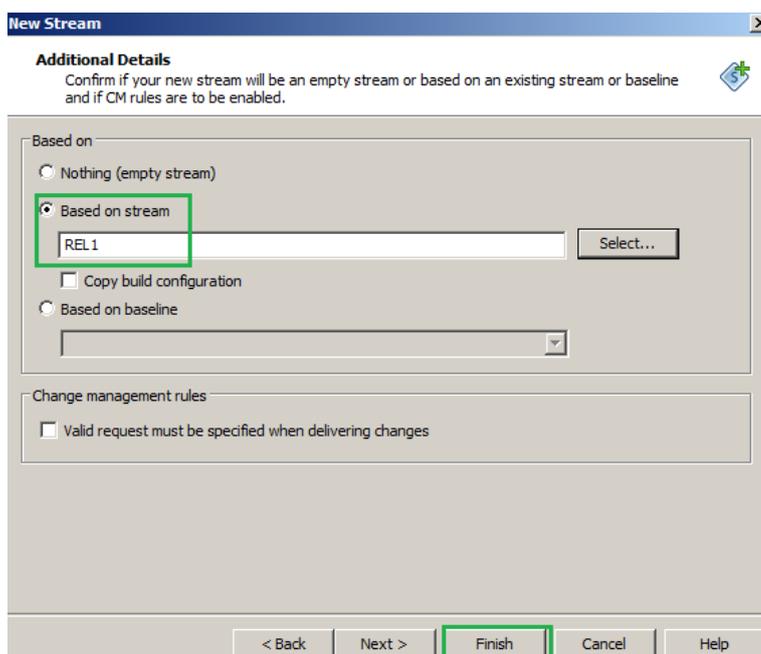
Name: **MAINT1** branch name: **maint1**

Specify a work area such as `c:\work\streams\maint1` and click on **Next** and confirm the creation of the new directory.



The screenshot shows the 'New Stream' dialog box with the 'General' tab selected. The 'Create a new stream in product:' dropdown is set to 'QLARIUS'. The 'Stream name:' field contains 'MAINT1'. The 'Unique branch name (used to tag versions created in this stream):' field contains 'maint1'. The 'Description:' field contains 'Maintenance stream'. The 'When stream created' section has 'Open using work area:' checked, with the work area set to 'C:\work\streams\maint1'. The 'Next >' button is highlighted.

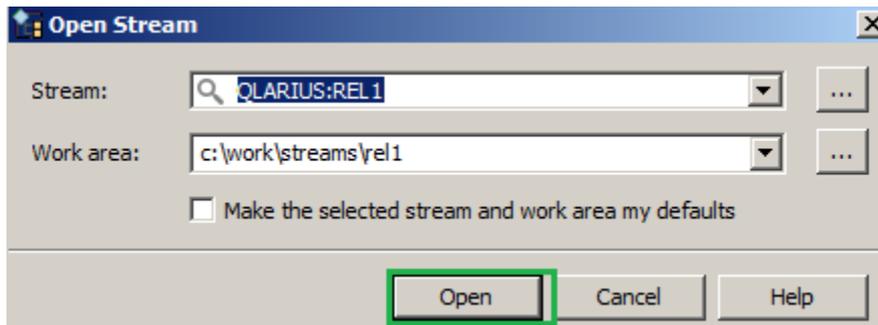
Ensure based on stream is defined as the Release stream created in step 1



The screenshot shows the 'New Stream' dialog box with the 'Additional Details' tab selected. The 'Based on' section has 'Based on stream' selected, with 'REL1' entered in the text box. The 'Change management rules' section has 'Valid request must be specified when delivering changes' unchecked. The 'Finish' button is highlighted.

Step 3: Return to the Release stream

Select **Stream | Open Stream** and select the Release stream **REL1** and click on **OK**.



Step 4: Create the first request

Select **File | New | Request**

Specify the type **CR** and Title: **version 2**

Click on **Edit Detailed Description** and specify a description such as *version 2 description*

Then click on the **Attribute** tab

The screenshot shows the 'New Request' dialog box with the following fields and values:

- Product: QLARIUS
- Type: CR
- To be addressed in Stream: QLARIUS.REL1
- Title: version 2
- Prime Details: Based on request: (empty), Relationship: Dependent
- Description file: C:\Users\ADMINI~1\AppData\Local\Temp\2\pt3a83.H1
- Buttons: Edit detailed description, Save as draft, Lock ownership

Specify the Severity and then click on **Create**

The screenshot shows the 'New Request' dialog box with the following fields and values:

- Role Section: \$ORIGINATOR
- Attributes table:

Attributes	Values
Severity/Priority	Medium
Estimated dev. effort (hours)	
Estimated completed date	
Raised By	
Contact details	Add
Defer Reason	

Buttons: Create, Cancel, Help

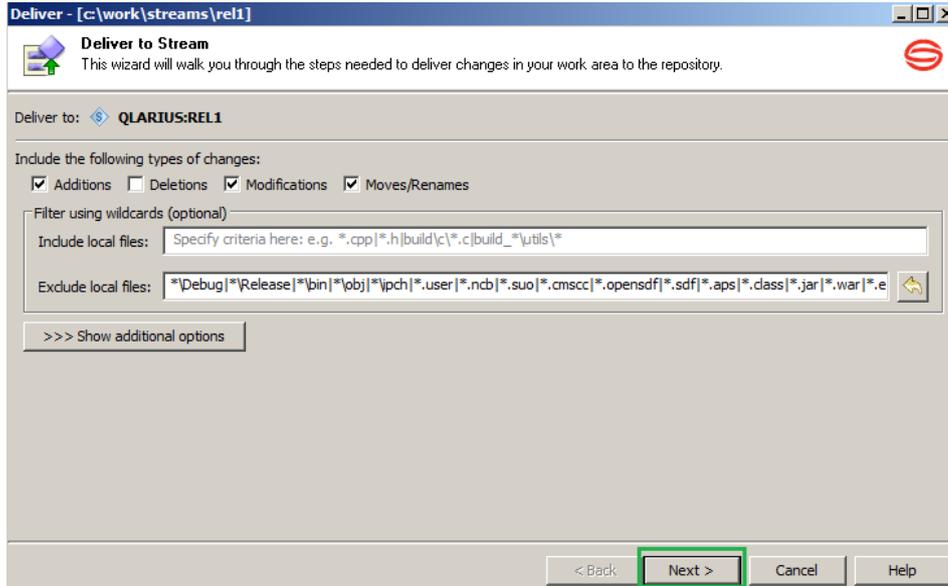
Click on **OK** to dismiss the confirmation dialog.

Step 5: Modify and deliver the version 2 changes with the first request

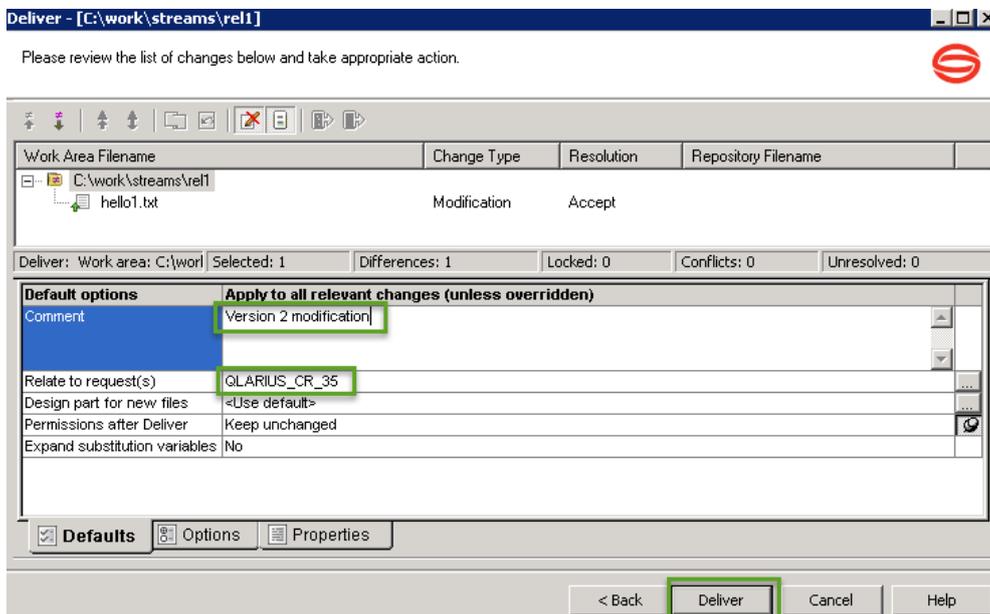
Run the following command to create the second version of hello1.txt, by adding an additional line.

```
echo version2 >> c:\work\streams\rel1\hello1.txt
```

In Desktop Client select **Stream | Deliver into stream** and click on **Next**.



Specify a comment, relate the request created in [Step 4](#) then click on **Deliver**.



Step 6: Create the second request

Select File | New | Request

Specify the type **CR** and Title: **version 3**

Click on **Edit Detailed Description** and specify a description such as *version 3 description*

Then click on the **Attribute** tab

The screenshot shows the 'New Request' dialog box with the 'Attributes' tab selected. The 'Product' is set to 'QLARIUS' and the 'Type' is set to 'CR'. The 'To be addressed in Stream' field contains 'QLARIUS:REL 1'. The 'Title' field contains 'version 3'. The 'Prime Details' section has 'Based on request' checked and 'Relationship' set to 'Dependent'. The 'Description file' field contains a file path, and the 'Edit detailed description' button is highlighted. At the bottom, there are 'Keep open', 'Create', 'Cancel', and 'Help' buttons.

Specify the **Severity** and then click on **Create**

The screenshot shows the 'New Request' dialog box with the 'Attributes' tab selected. The 'Role Section' dropdown is set to '\$ORIGINATOR'. Below it is a table with 'Attributes' and 'Values' columns. The 'Severity/Priority' attribute is set to 'Medium'. The 'Create' button is highlighted. At the bottom, there are 'Keep open', 'Create', 'Cancel', and 'Help' buttons.

Attributes	Values
Severity/Priority	Medium
Estimated dev. effort (hours)	
Estimated completed date	
Raised By	
Contact details	Add
Defer Reason	

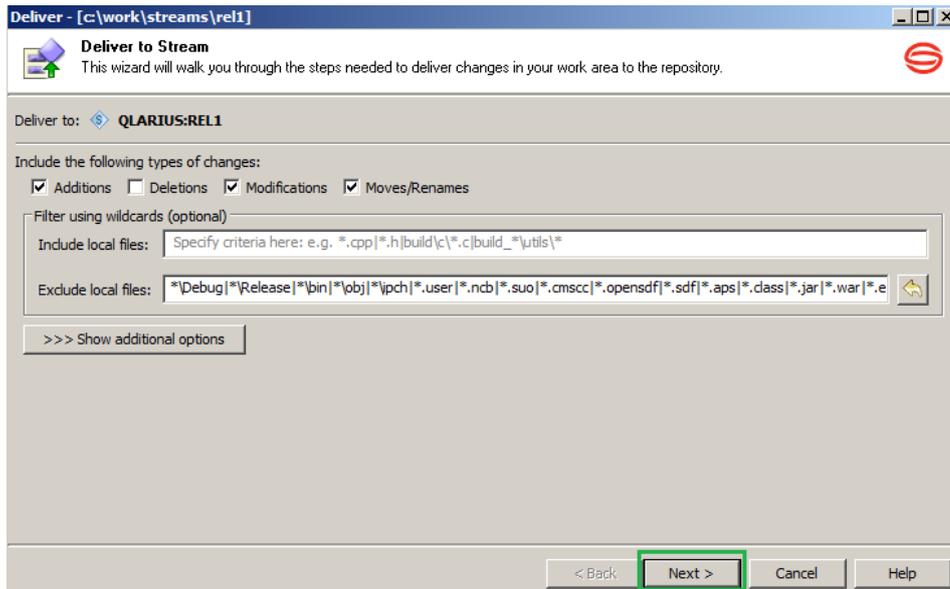
Click on **OK** to dismiss the confirmation dialog.

Step 7: Modify and deliver the version 3 changes with the request

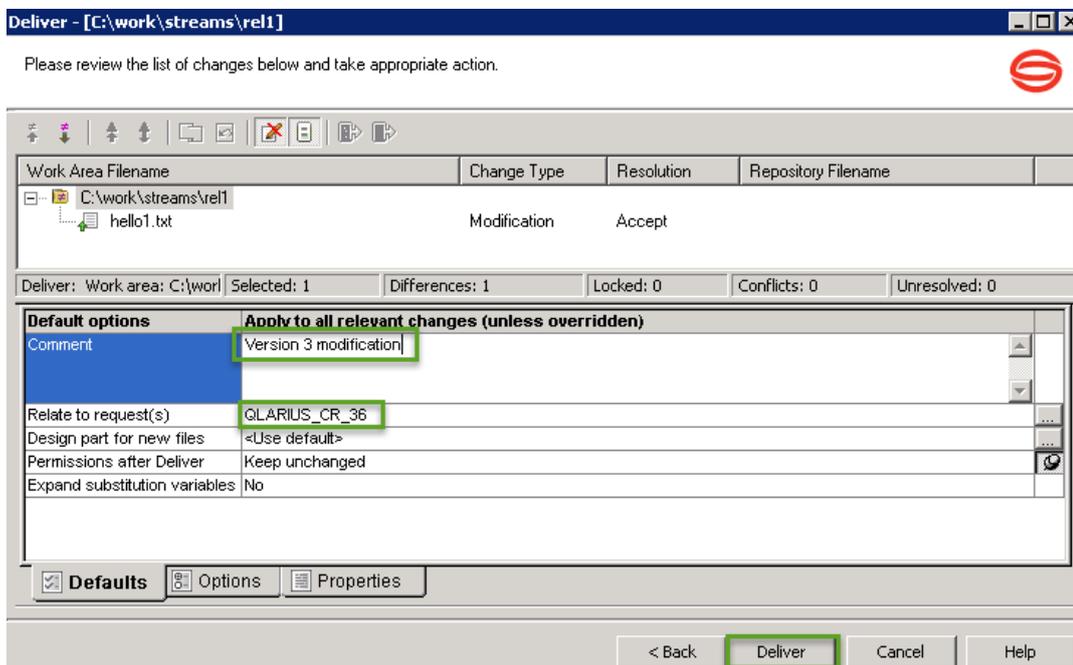
Run the following command to create the third version of hello1.txt, by adding a third line to the file

```
echo version3 >> c:\work\streams\rel1\hello1.txt
```

In Desktop Client select **Stream | Deliver into stream** and click on **Next**.



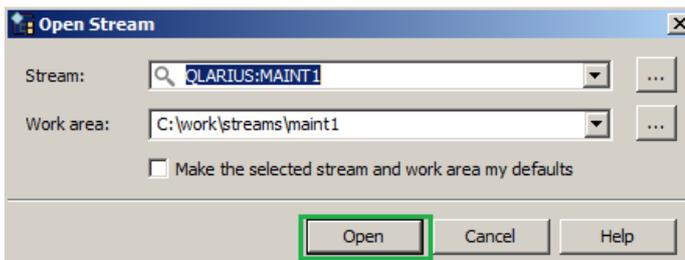
Specify a comment, relate the request created in [Step 6](#) then click on **Deliver**.



Step 8 Merge using the second request

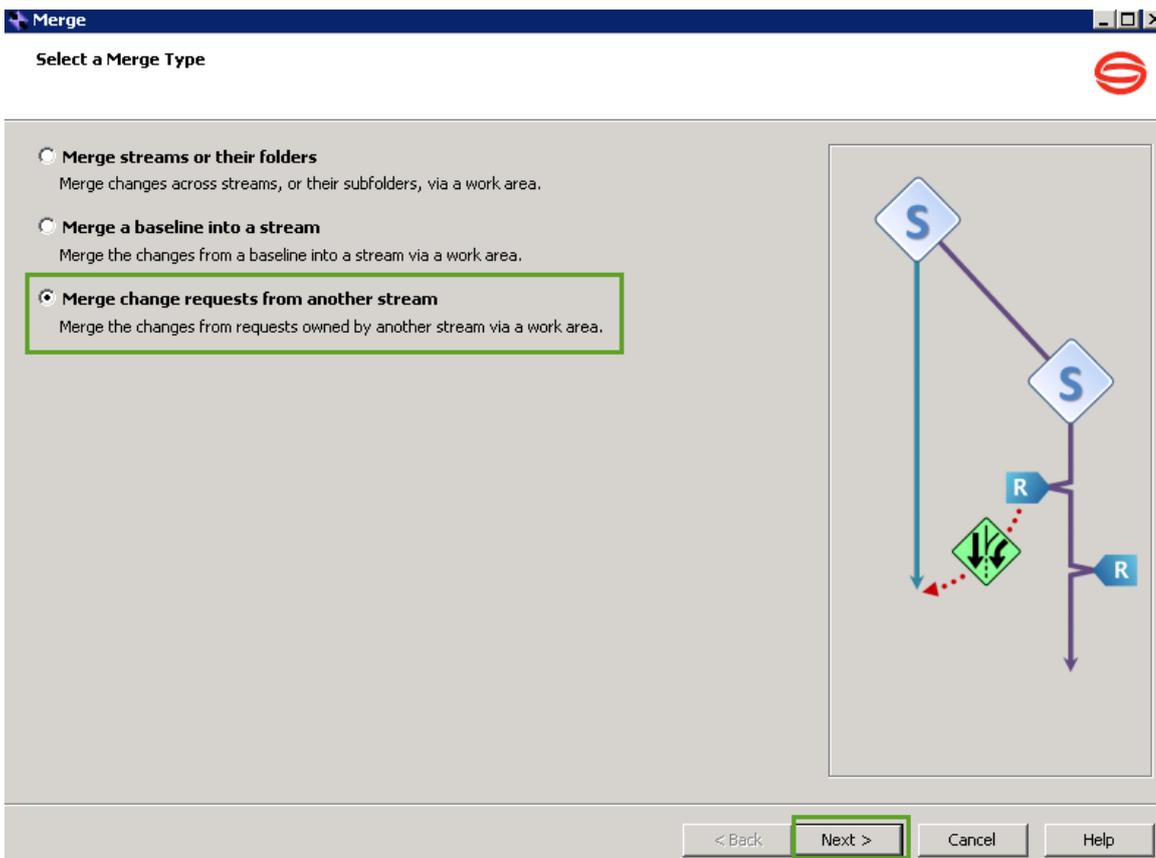
We are now going to merge only the changes associated with the second request.

Open the maintenance stream



Select Stream | Merge

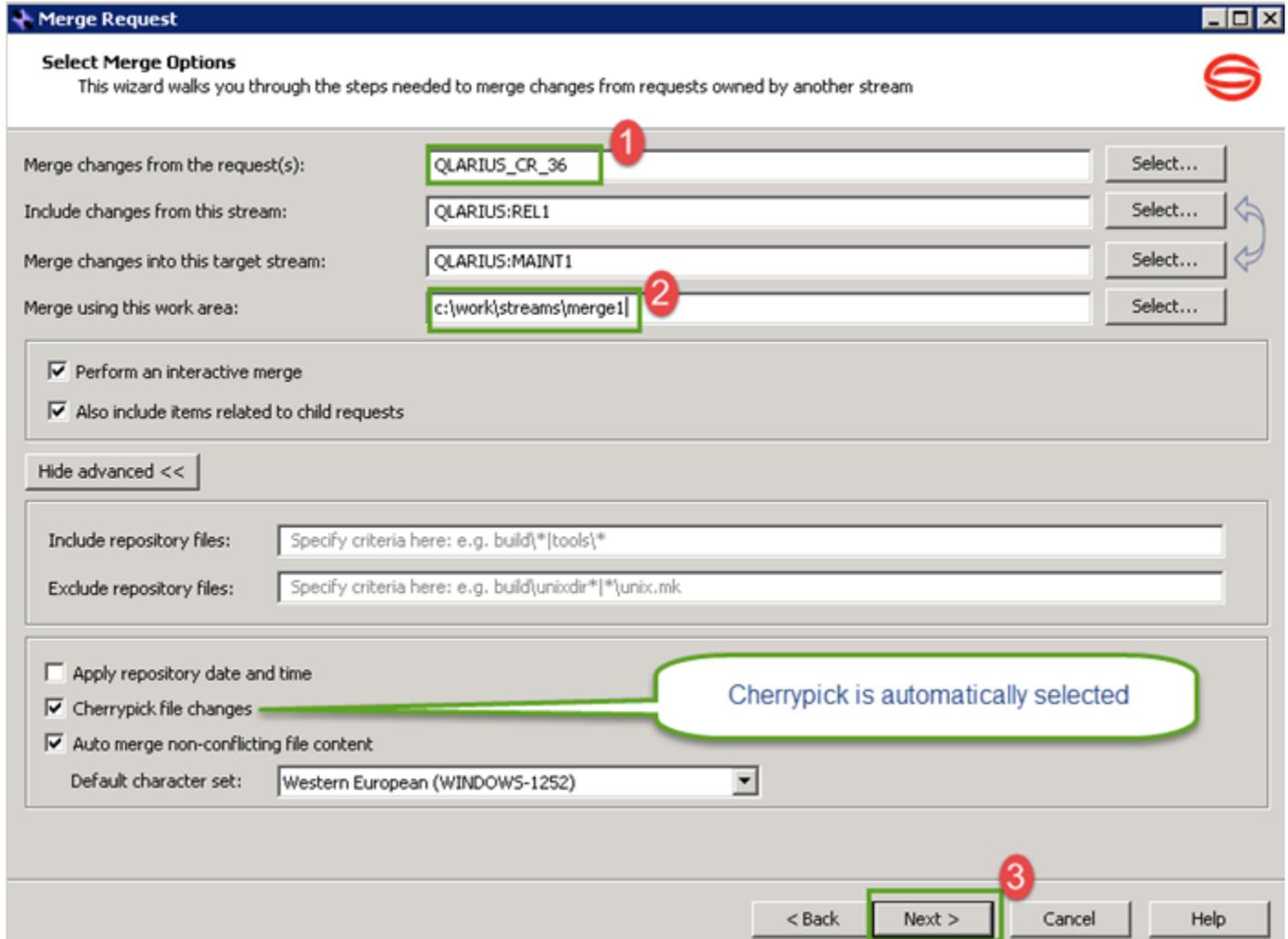
Select the **Merge change request from another stream** radio button and click on **Next**



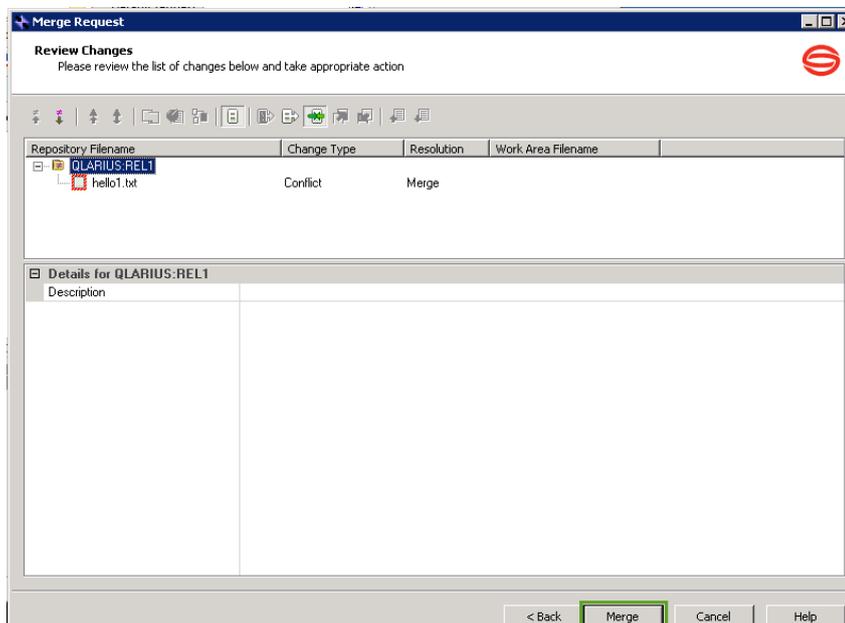
Specify the Version 3 request that was created in [step 6](#)

Define a new work area: `c:\work\streams\merge1` and click on **Next**.

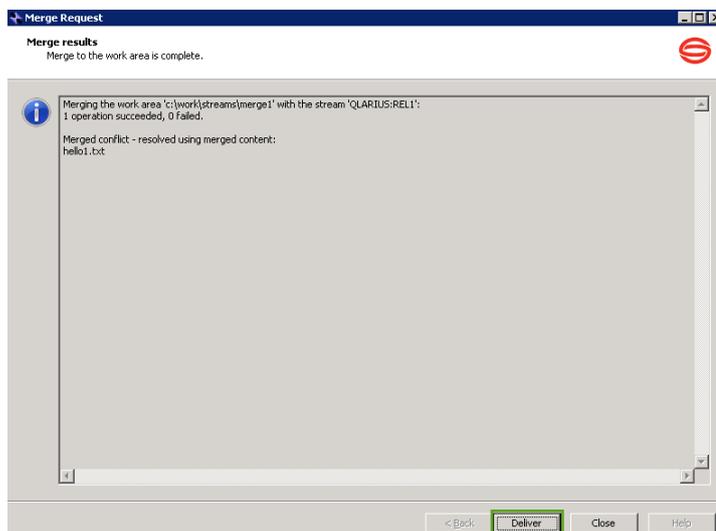
Note: the *Cherrypick* option is selected by default.



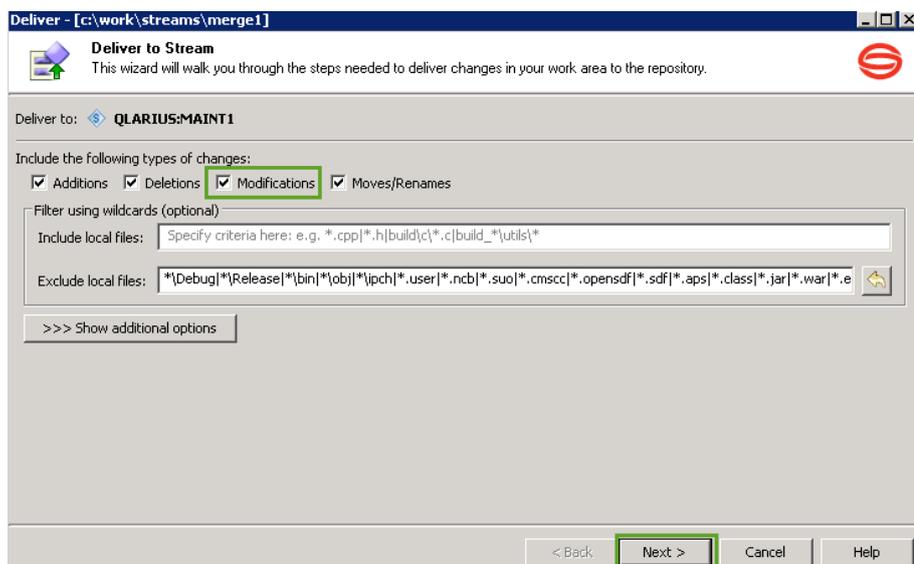
The next dialog confirms a conflict, click on **Merge** to continue.



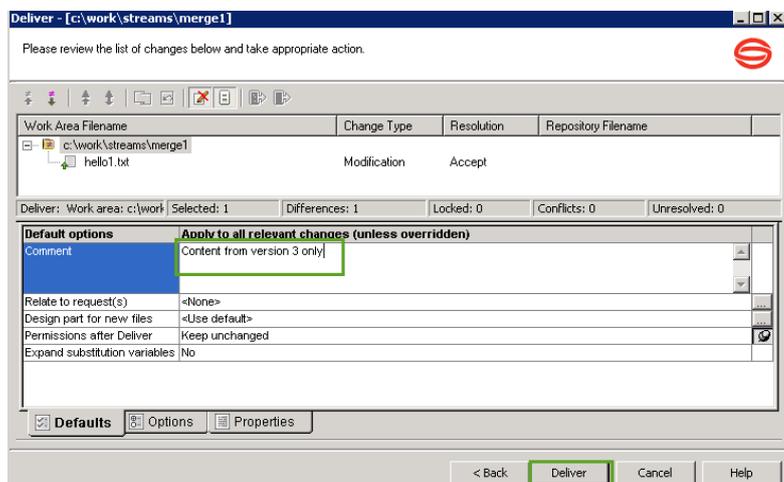
On the next screen specify **Deliver**



Ensure **Modifications** is highlighted then click on **Next**



Supply a comment and click on **Deliver**.



Step 9 Review the results

Refresh the desktop client view and the maint#1 revision for hell1.txt should now appear.

Right click on the maint#1 revision and select **Browse** and the following content should appear

```
File Edit Format View Help
version1
version3
|
```

The merge has only derived content from the request specified, the changes defined in version 2 and the related request have not been applied.

Note: If the Cherry pick option had not been selected then the revision from the Release stream would have been added to the merge stream, and the browse revision would have contained the following

```
File Edit Format View Help
version1
version2
version3
|
```

End of Document