

Application - Versions

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i **Summary:** this section provides an explanation of the **Versions** section for a given Application.

Introduction

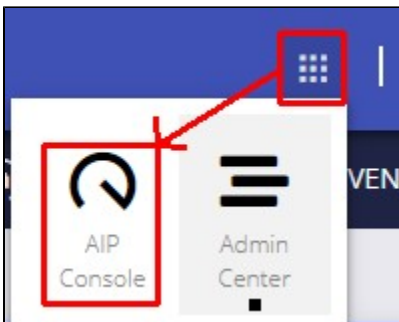
The **Versions** section provides a mechanism to **manage successive Versions** for the current Application. Among the options available are:

- Edit
- Mark as complete
- Accept
- Set as current version
- Reject
- Purge
- Delete

i A **Version** specifies the source code of an Application at a given moment in time. New Versions are created when the Application's source code changes and you want to measure these changes.

Access the option

Move to the **AIP Console** screen if you are not already there:



Locate the Application and **click it** to access the [Application - Overview](#) page:

FILTER BY Version Status (0) App domain (0) Search apps Add application

Delivering (1)
 Delivered (0)
 Accepted (0)
 Analysis: ongoing (0) done (0) failed (0)
 Snapshot: ongoing (0)
 done (0)
 Validated (0)

Application (1) ↑	Version	App Domain	Version Status	Last Action Status	Next Action
MEUDON Click	Version-2020-09-15T09-59-24		Delivering		+ Add version

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Click the **Versions** icon in the left panel to access the [378519882](#) page:

Details Inventory **Versions** Extensions

VERSION MANAGEMENT + ADD VERSION

Name	Status	Date	Based On				
Version-2019-09-18T16-45-55	Accepted	2019-09-18	-				
Version-2019-09-17T16-54-35	Delivered	2019-09-17	-				
Version-2019-09-12T14-52-17	Snapshot done	2019-09-12	-				

Version management screen

VERSION MANAGEMENT + ADD VERSION

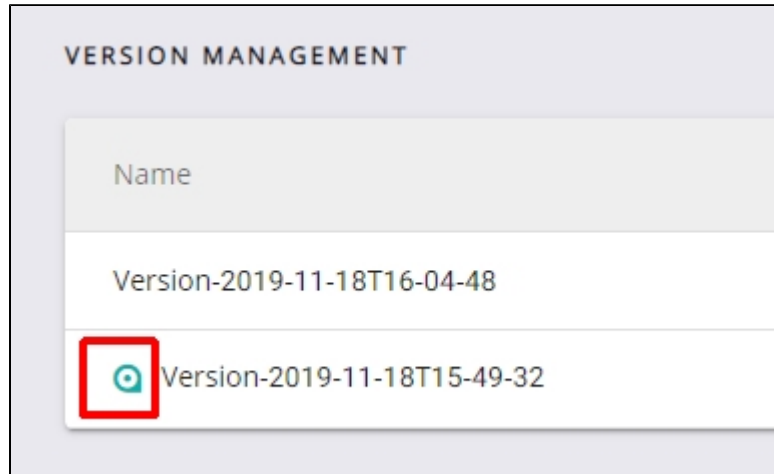
Name	Status	Date	Based On				
Version-2019-09-18T16-45-55	Accepted	2019-09-18	-				
Version-2019-09-17T16-54-35	Delivered	2019-09-17	-				
Version-2019-09-12T14-52-17	Snapshot done	2019-09-12	-				

+ ADD VERSION




Click to create a new version - i.e. if you have new source code to analyze.

Name

Name of the version. The default name will be set to: **Version-YYYY-MM-DDTHH-MM-SS** unless changed manually when creating the version. The version that will be used for analysis and snapshot actions (i.e. the "current version") is also flagged with a **green icon**:



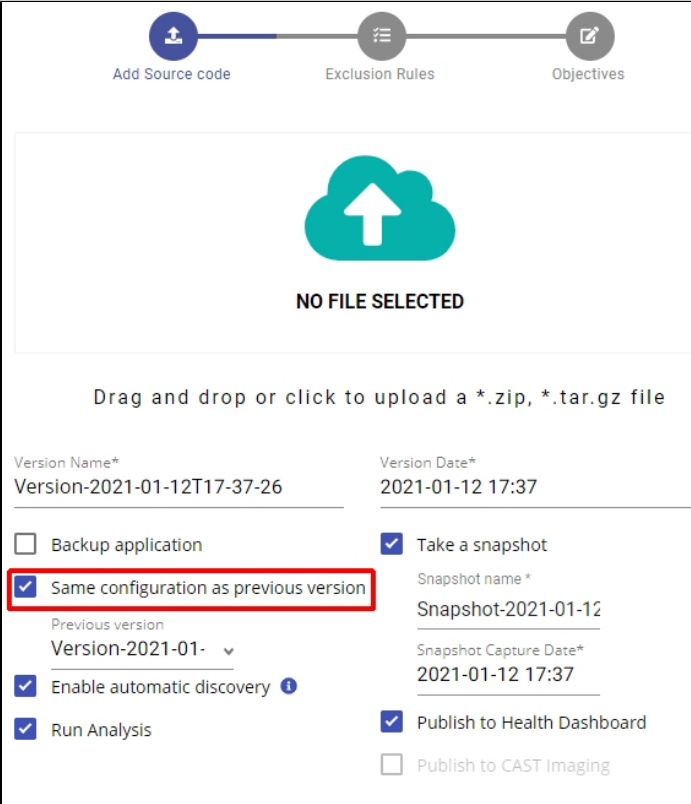
Clicking the version name will show the version details screen.

Status	Displays the current status of the Version:				
	Delivering	The version has been created and AIP Console is processing the uploaded source code ZIP file. When in this state, the version is "locked" and no other actions can be performed until the actions are complete.			
	Delivered	The source code ZIP file has been successfully uploaded and an initial scan has been performed to determine the content of the ZIP file. When a version is in this state the version needs to be validated (i.e. the source code in the ZIP file) and then either accepted or rejected it according to what has been delivered.			
	Not Delivered	The version has been rejected (Reject action has been selected). When a Version has been rejected this means that the delivery contains issues and cannot be analyzed in its current form. The only course of action is to delete the version and create a new one that does not contain the same issues.			
	Accepted	<p>The version has been accepted - this means that it is "ready for analysis" and one of the following actions has been run:</p> <ul style="list-style-type: none"> • The Accept action has been run to accept the version - however the version will not be used for any analysis and snapshot actions until the Set as current version action is run. • The Set as current version action (which also includes the Accept action) has been run to set the version as the "current version" that will be used for analysis and snapshot actions - in technical terms delivered source code is copied into a special "deployment" folder from where it will be analyzed. The version will also be flagged with a green icon to indicate it is the "current version": <div data-bbox="626 768 1398 1241" style="border: 1px solid gray; padding: 10px; margin: 10px 0;"> <p style="text-align: center; font-weight: bold;">VERSION MANAGEMENT</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #f0f0f0; padding: 5px;">Name</td> </tr> <tr> <td style="padding: 5px;">Version-2019-11-18T16-04-48</td> </tr> <tr> <td style="padding: 5px;"> <div style="display: inline-block; border: 2px solid red; padding: 2px;">  </div> Version-2019-11-18T15-49-32 </td> </tr> </table> </div>	Name	Version-2019-11-18T16-04-48	<div style="display: inline-block; border: 2px solid red; padding: 2px;">  </div> Version-2019-11-18T15-49-32
	Name				
	Version-2019-11-18T16-04-48				
	<div style="display: inline-block; border: 2px solid red; padding: 2px;">  </div> Version-2019-11-18T15-49-32				
	Analysis ongoing	An analysis or an analysis + snapshot are currently ongoing using this version. When in this state, the version is "locked" and no other actions can be performed until the actions are complete.			
	Analysis done	An analysis has been successfully completed using this version.			
Analysis failed	An analysis has been run using this version, but this ended in failure.				
Snapshot done	A snapshot (which includes an analysis) has been generated using this version.				
Purged	The Purge action has been run on the version - see below .				
Validated	The version has been marked as complete (i.e. all analyses/snapshots of this version are now done) and it is now in read-only mode .				
Date	Date the version was created.				

Based On

Indicates whether the version is based on the previous version - i.e. whether the option **Same configuration as previous version** was ticked when creating the version meaning that identical settings (options, extensions, modules, etc) were used for the current and previous versions:

Click to enlarge



Add Source code

Exclusion Rules

Objectives

NO FILE SELECTED

Drag and drop or click to upload a *.zip, *.tar.gz file

Version Name*

Version-2021-01-12T17-37-26

Version Date*

2021-01-12 17:37

Backup application

Take a snapshot

Same configuration as previous version

Snapshot name *

Snapshot-2021-01-12

Previous version

Version-2021-01- ▾

Snapshot Capture Date*

2021-01-12 17:37

Enable automatic discovery ⓘ

Run Analysis

Publish to Health Dashboard

Publish to CAST Imaging



Enables you to **edit** the version. This will take you back to the **Add version** wizard, where you can run through all options and make any changes you require:

Click to enlarge

Progress bar: Add Source code | Exclusion Rules | Objectives

UPLOAD:MEUDON/MAIN_SOURCES

Version Name*
Version-2021-01-12T15-42-14

Version Date*
2021-01-12 15:42

Backup application

Same configuration as previous version

Enable automatic discovery ⓘ

Run Analysis

Take a snapshot

Snapshot name*
Snapshot-2021-01-12

Snapshot Capture Date*
2021-01-12 17:51

Publish to Health Dashboard

Publish to CAST Imaging

CANCEL NEXT > FINISH






This option does **NOT perform a source code rescan** of either the **uploaded ZIP** or the source code stored in the **source folder location** (see [Administration Center - Settings - Source Folder Location](#)). Therefore changes to source code will not be detected. If you need to change the source code, you should consider performing a **rescan**, i.e. the following process:

- **adding a new version**
- choosing the **Same configuration as previous version** option
- updating the **ZIP file** or the code in the **source folder location**




Enables you to **mark the version as complete** - in other words all analyses/snapshots using this version are now fully completed and a new version is being used for analyses/snapshots. This action is only available when at least one snapshot has been run for the version and will make the version **read-only**. **The action cannot be reversed!**

⋮	Provides various menu options:			
Accept version	This action is available when the version has a Delivered status . It will mark the version as Accepted - this means that it is " ready for analysis ", however, this does not mark the version as the current version to be used in the next analysis/snapshot (the Set as current version version action does this).			
Set as current version version	<p>This action is available when the version has a Delivered or Accepted status. It performs the Accept and Set as current version actions in one go.</p> <p>In addition to the Accept action, the Set as current version action will set the version as the version that will be used for analysis and snapshot actions (i.e. it is now the "current version") - in technical terms delivered source code is copied into a special "deployment" folder from where it will be analyzed. The version will also be flagged with a green icon to indicate it is the "current version":</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="text-align: center; margin: 0;">VERSION MANAGEMENT</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #f0f0f0; padding: 5px;">Name</td> </tr> <tr> <td style="padding: 5px;">Version-2019-11-18T16-04-48</td> </tr> <tr> <td style="padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="border: 2px solid red; padding: 2px; margin-right: 5px;">  </div> Version-2019-11-18T15-49-32 </div> </td> </tr> </table> </div> <p>The status of the version will be Accepted following the completion of this action - in other words, if the Accept action has already been run, then there is no change in the status.</p>	Name	Version-2019-11-18T16-04-48	<div style="display: flex; align-items: center;"> <div style="border: 2px solid red; padding: 2px; margin-right: 5px;">  </div> Version-2019-11-18T15-49-32 </div>
Name				
Version-2019-11-18T16-04-48				
<div style="display: flex; align-items: center;"> <div style="border: 2px solid red; padding: 2px; margin-right: 5px;">  </div> Version-2019-11-18T15-49-32 </div>				
Reject version	This action is available when the version has any status . It will mark the version as Not Delivered . A version should be rejected when it contains errors, for example incomplete source code or erroneous exclusion settings that may cause incorrect analysis results. When rejected, the version can no longer be worked with (it will be in read-only mode) and the only other option available will be to delete it. The action cannot be reversed!			
Purge version	<p>This action is available when at least one snapshot has been run AND when the version is not the current version (i.e. the green icon is not visible). Purging a version will:</p> <ul style="list-style-type: none"> delete the delivered source code delete the associated configuration files <p>The aim of this option is to free up disk space on the target AIP Node. The version will be marked as Purged. When purged, the version can no longer be worked with (it will be in read-only mode) and the only other option available will be to delete it. The action cannot be reversed!</p>			
Delete version	<p>This action will fully delete the version - all source code and configuration files will be removed and the version will no longer be visible in AIP Console. The action cannot be reversed!</p> <p>Note that from v .1.22, it is possible to delete all versions, even if a version has been used as the basis for a new version (the "Same configuration as previous version" option was ticked when delivering a new version). Previously versions that were a basis for a new version could not be deleted.</p>			

Version details screen



Clicking a version in the **Version management screen**, or clicking the  icon will display the **Version details screen** - this screen provides information about the version, primarily enabling the version to be validated and then "accepted" or "set as current version":

Version Report

DOWNLOAD

Version Report

Click to enlarge

Version Report DOWNLOAD

ALERTS

Id ↓	Message
MissingProjectReference	[com.h2database][h2][[0.0.]]

Rows per page: 10 1 - 1 of 1

FILE EXTENSIONS

File Extension ↓	Added Files	Unchanged Files	Modified Files	Removed Files	Total Files	Total Size (Bytes)
*.bowerrc	0	1	0	0	1	36
*.cbl	0	5	0	0	5	11122
*.CBL	0	13	0	0	13	208411

The version report is generated when the source code ZIP file is uploaded during the creation of the version and its aim is to help you validate the version. You can **download** the results displayed in this section in XML format:

Version Report DOWNLOAD

ALERTS

Id ↓	Message
MissingProjectReference	[com.h2database][h2][[0.0.]]


- **folderPath**: The path of the source folder
- **generationDate**: The date the report was generated
- **totalDuration**: Time taken to generate the package
- **releaseInfo**: The version of Delivery Report
- **Application**: details about the Application
 - **applicationName**: The name provided for the Application
 - **applicationGuid**: ID assigned to the Application
 - **Version**: details about the Version
 - **versionName**: The name of the Version
 - **applicationGuid**: ID assigned to the Version
 - **FileLanguages**: details about the files that will be considered
 - **FileLanguage**: The files in the selected source path are identified according to their language and represented in chronological order with respect to language Id
 - **languageId**: The ID used to identify the language
 - **extensions**: The file extensions considered
 - **total**: Total number of files for the language
 - **added**: No. of files added in the current version compared with previous
 - **removed**: No. of files removed in the current version compared with previous
 - **modified**: No. of files modified in the current version compared with previous
 - **totalSize**: Total size of the files

- **addedSize**: Size of the added files compared with previous version
- **removedSize**: Size of the removed files compared with previous version
- **modifiedSize**: Size of the modified files compared with previous version
- **loc**: Lines of count of the projects
- **notInProjects**: The files not included in the project
- **Extension**: Information about the file extensions discovered.
 - **extensionId**: The file extensions discovered
 - **total**: Total number of files of the particular extension that have been discovered
 - **added**: No. of files added in the current version compared with previous
 - **removed**: No. of files removed in the current version compared with previous
 - **modified**: No. of files modified in the current version compared with previous
 - **totalSize**: Total size of the discovered files
 - **addedSize**: Size of the added discovered files compared with previous version
 - **removedSize**: Size of the removed discovered files compared with previous version
 - **modifiedSize**: Size of the modified discovered files compared with previous version
 - **loc**: Lines of count of the discovered files
 - **notInProjects**: The files that are not included in the project
- **Framework**: Information about the discovered frameworks
 - **frameworkId**: The frameworks used in the source code
 - **version**: Framework version.
- **Projects**: The projects identified in the current version
 - **Project**: Information about the project
 - **projectType**: The type of project discovered
 - **discovererName**: The name of the discoverer that identified the project
 - **total**: Total number of projects that have been discovered
 - **added**: No. of projects added in the current version compared with previous
 - **removed**: No. of projects removed in the current version compared with previous
 - **modified**: No. of projects modified in the current version compared with previous
- **Alerts**: Alerts generated in the current version
 - **Alert**: information about the alert
 - **id**: alert ID
 - **total**: total number of alerts of the particular ID
- **Log Messages**: Log messages generated in the current version
 - **id**: log message ID
 - **total**: total number of log messages of the particular ID
 - **parameter**: the name of the parameter
 - **id**: parameter ID
 - **value**: value of the particular parameter

There are two distinct sections:


Alerts

The Alerts section lists any alerts that occurred during the creation of the version and the upload of the source code ZIP - i.e the contents of the ZIP file are scanned and any issues are reported:

ALERTS	
Id ↓	Message
MissingProjectReference	 ¹⁰ [com.h2database][h2][[0.0,)]

Rows per page: 10 ▾ 1 - 1 of 1 ← →

Click the + icon to expand the alert message:

Id ↓	Message
MissingProjectReference	 <pre>[com.h2database][h2][[0.0,)] [io.jsonwebtoken][jwt][0.7.0] [io.springfox][springfox-swagger-ui][2.7.0] [io.springfox][springfox-swagger2][2.7.0] [mysql][mysql-connector-java][[0.0,)] [org.modelmapper][modelmapper][1.1.0] [org.springframework.boot][spring-boot-devtools][[0.0,)] [org.springframework.boot][spring-boot-starter-data-jpa][[0.0,)] [org.springframework.boot][spring-boot-starter-security][[0.0,)] [org.springframework.boot][spring-boot-starter-web][[0.0,)]</pre>

Alerts come in various different types (non-exhaustive list):

Undefined variable	A variable has been discovered in the source code in the source package. AIP Console cannot detect a value for this variable and therefore an alert has been created.
Missing project	A reference to a project, library file, folder or resource has been discovered in the source code package. AIP Console cannot detect this specific item anywhere in the source code package and therefore an alert has been created.
Missing library file	
Missing folder	
Missing resource	
<p>Please note that if you exclude a folder and subsequently AIP Console finds a reference to the excluded folder, then an Alert will be generated. If you absolutely need to exclude the folder and want to avoid an alert, you can exclude the folder contents only using a specific Regular Expression:</p> <p>For example, you have a subfolder entitled "unittests" that you must exclude, however, other code references this folder and as such an Alert will be generated during the source code scan when the version is created. Use forward slashes around the folder name in your Regular Expression to force AIP Console to ignore the contents of the folder but keep the folder itself:</p> <p>/unittests/</p>	

Handling alerts

Alerts generally indicate that the source code is incomplete, that there is a configuration issue or simply that there is something wrong in the source code. If these alerts are not dealt with and the Version is accepted, then there is a risk that the source code analysis will be erroneous or may not even complete. It is up to you to manage these alerts:

- some can be easily fixed by:
 - altering the source code package configuration (for example the root folder may be incorrect)
 - by including the missing items in the source code ZIP file
- some may be more difficult to fix and you may need to alter your original source code

File Extensions

FILE EXTENSIONS

File Extension ↓	Added Files	Unchanged Files	Modified Files	Removed Files	Total Files	Total Size (Bytes)
*.html	0	2	0	0	2	6121
*.java	0	21	0	0	21	20575
*.js	0	3	0	0	3	3025
*.jsp	0	5	0	0	5	11482


This section displays a list of files that have been discovered during the creation of the version when the source code ZIP file is scanned. These are the files that will included for analysis:

File extension	Displays the file extensions discovered by the AIP Console.
Added files	The number of files with the specific extension that are "new" in the current version in comparison to a previous version (this will always be 0 for new versions).
Unchanged files	These columns display the number of files with the specific extension that have either been modified or are unchanged in the current version in comparison to a previous version (this will always be 0 for new versions).
Modified files	AIP Console compares the sizes (not the checksum) of files in the current version with those in the previous version - a file is therefore only marked as Modified when its size has changed between the two versions. In some rare cases when a file has actually changed in the current version, but its size is identical to the size in the previous version, it will be marked as Unchanged.
Removed files	The number of files with the specific extension that are no longer present in the current version in comparison to a previous version.
Total files	Displays the total number of files with the specific extension that have been discovered in the current version.
Total size (bytes)	The total size (in bytes) of all the files with the specific extension that have been discovered, in the current version.

Technical information about version delivery failures

Sometimes a source code delivery fails (or is cancelled manually). When this occurs, and depending on the reason for the failure, the version itself may be deleted. Below is a list of events that may cause a version delivery and information explaining whether the version is deleted or not:

Event	Version deleted	Version retained
If anything fails in the "Prepare new version" step or the delivery is stopped manually	✓	✗
If anything fails in the "Create/attach package" steps or the delivery is stopped manually	✗	✓
If anything fails in the "Delivering version" step or the delivery is stopped manually	✗	✓
Delivery strategy configuration	✓ (if the condition is satisfied)	✗

 When a version is deleted, logs are also deleted.