

HDF-Java Release Version Numbers

1 Version numbers

The HDF-Java release version numbers use three numbers, **major.minor.release**, e.g. HDF-Java 2.6.1.

All the three HDF-Java products, the wrapper, object package, and HDFView, have the same set of version numbers. There is no separate version numbers for any individual HDF-Java product.

HDF-Java supports both HDF4 and HDF5 libraries. There is no separate version numbers of HDF-Java products for HDF4 and HDF5. However, the version numbers of HDF4 and HDF5 libraries retain the same as the library releases. For example, HDF-Java 2.6.1 was built on HDF5 1.8.4 patch 1 and HDF 4.2.5.

1.1 Major number

The major number is the first integer in the version string. Changes in the major number typically indicate a significant change in the code base and/or end-user functionality.

If the major number is changed, an application built on older version of HDF-Java products needs extensive changes to make it work for the newer version of HDF-Java products. Major numbers do not change often.

1.2 Minor number

The minor number is the second integer in the version string. Changes in the minor number typically indicate an incremental change in the code base and/or end-user functionality.

If the minor number is changed, an application built on the previous version needs some or no change to make it work for the new version.

1.3 Release number

The release number is the third integer in the version string. Changes in the release number typically indicate a bug fix in the code base and/or end-user functionality. ***If the release number is 0, it is omitted from the version number*** (e.g., v2.6 has a release number of 0).

If only the release number is changed, an application built on the previous version requires no change to make it work on the new version.

2 Special release number or quantifier

HDF-Java version numbers sometimes have a string affixed to the end of the version number. Common strings include:

- bX: Letter “b” indicates a beta release. X is an integer indicating the number of the beta release. For example v2.4b2 indicates the 2rd beta release of version 2.4.

- pX: Letter “p” indicates a patch release. X is an integer indicating the number of the release. For example, v2.5p2 indicates the 2nd patch release of version 2.5.

A special release should not require any change to user’s applications. Pre-built binaries of a special release are only available for selected platforms.

3 HDF-Java release history

Release	Date	HDF4	HDF5	Java	Major changes
2.6.1	March, 2010	4.2.5	1.8.4 patch 1	1.6	Included bug fixes and minor improvements. The main reason for the release is to pack HDF5 1.8.4 patch 1, which included a major bug fix in the library.
2.6	February, 2010	4.2.5	1.8.4	1.6	Fixed many bugs. Fixed memory leak in hdf-java native. Added features to support region reference and track open objects in HDF5.
2.5p3	August, 2009	4.2r4	1.8.3	1.6	Fixed bugs, e.g. editing null strings. Added capability to show bit values in a byte/short integer.
2.5p2	May, 2009	4.2r4	1.8.3	1.6	Fixed bugs, e.g. copy/paste compound data. Added options to show data in decimal, hex, or binary.
2.5p1	April, 2009	4.2r4	1.8.3	1.6	Fixed bugs, e.g. incorrect image values and truncated values for double float points.
2.5	December, 2008	4.2r4	1.8.2	1.6	First release of HDF-Java that was built on HDF5 1.8 library . However, the release does not support any of the new functions introduced by HDF5 1.8.
2.4p1	January, 2008	4.2r2	1.6.6	1.5	Fixed minor bugs, e.g. wrong information for ARRAY datatype.
2.4	October, 2007	4.2r2	1.6.6	1.5	Added many new features and fixed many bugs since v2.3. Fixed some major memory leaks. Added test suite for HDF5 object package. Improved documentation.
2.4b1 to 2.4b7	October, 2006 to July, 2007	4.2r1	1.6.5	1.5	Fixed bugs and memory leak. Added auto-gain contrast image algorithm. Added more tests and minor features.
2.3	December, 2005	4.2r1	1.6.5	1.4	Fixed bugs. Added support for HDF-EOS modules and SRB modules.
2.2	February, 2005	4.2r1	1.6.4	1.4	Added new features and fixed bugs.
2.1	October, 2004	4.2r1	1.6.3	1.4	Major release that supports plug-in capabilities.

1.3	November, 2003	4.2r1	1.6.1	1.3	Added more advanced editing features and fixed bugs.
1.2	May, 2003	4.1r5	1.4.4	1.3	Basic editing features were added to HDFView.
1.1	August, 2002	4.1r5	1.4.1	1.2	First release of using common HDF-Java objects for both HDF4 and HDF5. Originally there were two separate tools for HDF5 (H4View) and HDF5 (H5View), which were built on different object models.