**Newsletter #180**

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# Release of HDF5-1.10.8

We are very pleased to announce the release of HDF5-1.10.8, which can now be obtained from the [HDF5 Download](https://www.hdfgroup.org/downloads/hdf5/) page.

Information about this release can be found at

[Software Changes from Release to Release](https://portal.hdfgroup.org/display/HDF5/Software+Changes+from+Release+to+Release+for+HDF5-1.12)

HDF5-1.10.8 is a minor release with several new features and changes:

* The following [vulnerability issues](https://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=HDF5) were addressed:
  + [CVE-2020-10810](https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-10810)
  + [CVE-2018-14460](https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2018-14460)
  + [CVE-2018-11206](https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2018-11206)
  + [CVE-2018-14033](https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2018-14033) (same as [CVE-2020-10811](https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-10811))
* HDF5 now requires Visual Studio 2015 or greater, so old work-around code and definitions have been removed. See RELEASE.txt for specifics.
* New wrappers for the following H5S functions were added to the Java Library

H5Sselect\_copy, H5Sselect\_shape\_same, H5Sselect\_adjust, H5Sselect\_intersect\_block, H5Sselect\_project\_intersection, H5Scombine\_hyperslab, H5Smodify\_select, H5Scombine\_select

* New platforms tested include Linux 4 and Linux 5 versions on x86\_64, macOS M1, BigSur, and VS 2019 with clang 12.0.0.
* Other changes in CMake:
  + C++ library is no longer built by default, HDF5\_BUILD\_CPP\_LIB now defaults to OFF
  + Shell script tests are now run in test/ by default
  + CMake messages were reclassified, to allow new modes and --log-level option
* New options in this release:
  + To control certain compiler warnings diagnostics

Autotools: --enable-diags

CMake: HDF5\_ENABLE\_BUILD\_DIAGS

* + To consider certain compiler warnings as errors

Autotools: --enable-warnings-as-errors

CMake: HDF5\_ENABLE\_WARNINGS\_AS\_ERRORS

* + To control the build of High-Level tools with default ON/enabled.

Autotools: --enable-hltools

CMake: HDF5\_BUILD\_HL\_TOOLS

This release contains other changes that are not listed here. Please be sure to read the [Release Notes](https://portal.hdfgroup.org/display/support/HDF5%201.10.8#releasenotes) for a comprehensive list of new features and changes.

Changes that affect maintainers of HDF5-dependent applications are listed on the [HDF5 Software Changes from Release to Release](https://portal.hdfgroup.org/display/HDF5/Software+Changes+from+Release+to+Release+for+HDF5-1.10) page.