In Toronto (July 2017), the removal of the vacuous `<ciso646>` header was discussed during the review of P0619R1 (Reviewing Deprecated Facilities of C++17 for C++20). Howard Hinnant pointed out that although the header is specified to have no effect, it is nonetheless used to determine the library version from the boilerplate front and back matter. This particular header is presumably chosen for this purpose because it is very short and therefore fast to load.

A better solution is to standardize a C++ header for this exact purpose. This header will contain only the implementation-defined boilerplate comments which specify various properties of the library such as version and copyright notice. This header will also provide a place to put other implementation-defined library meta-information which an environment or human reader might find useful. In Albuquerque (November 2017), Jonathan Wakely pointed out that this would be the ideal place to define the feature test macros.

**Proposed Wording**

20.5.1.2 Headers [headers]

¶2 – Add to: Table 16 — C++ library headers

<version>

20.5.1.3 Freestanding implementations [compliance]

¶2 – Add to: Table 19 — C++ headers for freestanding implementations

21.3 Implementation properties `<cfloat>` `<limits>` `<climits>` `<version>`

21.1 General [support.general]

¶2 – Add to: Table 32 — Language support library summary,

21.3 Implementation properties

<version>
21.3.1 General [support.limits.general]

New paragraph:
2. The header <version> supplies implementation-dependent information about the C++ standard library (e.g., version number and release date).

C.5.4 Clause 20: library introduction [diff.cpp17.library]

20.5.1.2
Change: New headers.
Rationale: New functionality.
Effect on original feature: The following C++ headers are new: <compare>, <syncstream>, and <version>. Valid C++ 2017 code that #includes headers with these names may be invalid in this International Standard.