## Merge Concurrency TS atomic pointers into C++20 working draft

Document Number: **P0673 R0**Date: 2017-06-16

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Audience: WG21

#### **Abstract**

This paper proposes merging section 4 of Concurrency TS1 [N4577] into the C++20 working draft.

# 1 Wording changes

### 1.1 Add new [atomic.smartptr] subclause

Create a new subclause in [atomic] with the following structure and contents:

32.x Atomic smart pointers [atomic.smartptr]

32.x.1 General [atomic.smartptr.general]

[[ same contents as N4577 section 4.1 ]]

32.x.2 Class template atomic\_shared\_ptr [atomic.shared\_ptr]

[[ same contents as N4577 section 4.3, except remove "namespace experimental {" and "} // namespace experimental" ]]

32.x.3 Class template atomic\_weak\_ptr [atomic.weak\_ptr]

[[ same contents as N4577 section 4.4, except remove "namespace experimental {" and "} // namespace experimental" ]]

# 1.2 Update synopsis [atomics.syn]

Update the synopsis subclause [atomics.syn], by adding the contents of N4577 4.2 with the following changes:

- remove "experimental/" from the heading
- remove "namespace experimental {" and "} // namespace experimental"
- before the line "} // namespace std" insert the line "using namespace concurrency\_v1;"