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RUSTSEC-2020-0112

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ButtplugFutureStateShared allows data race to (!Send|!Sync) objects

Reported	December 18, 2020																
Issued	January 20, 2021 (last modified: October 19, 2021)																
Package	buttplug (crates.io)																
Type	Vulnerability																
Categories	memory-corruption thread-safety																
Aliases	CVE-2020-36218																
Details	https://github.com/buttplugio/buttplug-rs/issues/225																
CVSS Score	5.9 MEDIUM																
CVSS Details	<table><tr><td>Attack vector</td><td>Network</td></tr><tr><td>Attack complexity</td><td>High</td></tr><tr><td>Privileges required</td><td>None</td></tr><tr><td>User interaction</td><td>None</td></tr><tr><td>Scope</td><td>Unchanged</td></tr><tr><td>Confidentiality</td><td>None</td></tr><tr><td>Integrity</td><td>None</td></tr><tr><td>Availability</td><td>High</td></tr></table>	Attack vector	Network	Attack complexity	High	Privileges required	None	User interaction	None	Scope	Unchanged	Confidentiality	None	Integrity	None	Availability	High
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Availability	High																
CVSS Vector	CVSS:3.1/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H																
Patched	>=1.0.4																

Description

`ButtplugFutureStateShared<T>` implements `Send` & `Sync` regardless of `T`.

If `T: !Send` for `ButtplugFutureStateShared<T>`, it is possible to move non-Send types across thread boundaries (e.g. `T = Rc<T>`) and lead to undefined behavior. If `T: !Sync` for `ButtplugFutureStateShared<T>`, it is possible to cause data race to `T` (e.g. `T = Arc<Cell<_>>`) and lead to undefined behavior.

The flaw was corrected in version 1.0.4 by removing manual implementations of `Send` / `Sync` for `ButtplugFutureStateShared<T>` to let rustc generate auto trait implementations with correct trait bounds on `T`.