



Rocky Enterprise Linux 9.2 Manual Pages on command 'IO::Async::Protocol.3pm'

C:\>man IO::Async::Protocol.3pm

IO::Async::Protocol(3pm) User Contributed Perl Documentation IO::Async::Protocol(3pm)

NAME

"IO::Async::Protocol" - base class for transport-based protocols

DESCRIPTION

This subclass of IO::Async::Notifier provides storage for a IO::Async::Handle object, to act as a transport for some protocol. It contains an instance of the transport object, which it adds as a child notifier, allowing a level of independence from the actual transport being used. For example, a stream may actually be an IO::Async::SSLStream to allow the protocol to be used over SSL.

This class is not intended to be used directly, instead, see one of the subclasses

IO::Async::Protocol::Stream - base class for stream-based protocols

EVENTS

The following events are invoked, either using subclass methods or CODE references in parameters:

on_closed

Optional. Invoked when the transport handle becomes closed.

PARAMETERS

The following named parameters may be passed to "new" or "configure":

transport => IO::Async::Handle

The IO::Async::Handle to delegate communications to.

on_closed => CODE

CODE reference for the "on_closed" event.

When a new "transport" object is given, it will be configured by calling the "setup_transport" method, then added as a child notifier. If a different transport object was already configured, this will first be removed and deconfigured using the "teardown_transport".

METHODS

transport

```
$transport = $protocol->transport
```

Returns the stored transport object

connect

```
$protocol->connect( %args )
```

Sets up a connection to a peer, and configures the underlying "transport" for the Protocol.

Takes the following named arguments:

socktype => STRING or INT

Required. Identifies the socket type, and the type of continuation that will be used. If this value is "stream" or "SOCK_STREAM" then "on_stream" continuation will be used; otherwise "on_socket" will be used.

on_connected => CODE

Optional. If supplied, will be invoked once the connection has been established.

```
$on_connected->( $protocol )
```

transport => IO::Async::Handle

Optional. If this is provided, it will immediately be configured as the transport (by calling "configure"), and the "on_connected" callback will be invoked. This is provided as a convenient shortcut.

Other arguments will be passed to the underlying IO::Async::Loop "connect" call.

TRANSPORT DELEGATION

The following methods are delegated to the transport object

close

SUBCLASS METHODS

"IO::Async::Protocol" is a base class provided so that specific subclasses of it provide more specific behaviour. The base class provides a number of methods that subclasses may wish to override.

If a subclass implements any of these, be sure to invoke the superclass method at some point within the code.

setup_transport

```
$protocol->setup_transport( $transport )
```

Called by "configure" when a new "transport" object is given, this method should perform whatever setup is required to wire the new transport object into the protocol object; typically by setting up event handlers.

teardown_transport

```
$protocol->teardown_transport( $transport )
```

The reverse of "setup_transport"; called by "configure" when a previously set-up transport object is about to be replaced.

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