

# Connection Check functionality.



This functionality available only with TightVNC Server v2.8.59 +

## Motivation

Suggest, you have connected remote device and the screen has not changed for a significant period of time.

There are two possible reasons for this behavior:

1. There are no actual changes on the remote screen. So, everything is OK.
2. The physical connection was lost. And this is a FAILURE.

Prior to version 2020.3 there was no ability to distinguish one reason from another. In fact, the SDK would have raised the Error event after disconnection, however, it might occur after an undefined period of time that may be unacceptable in some cases.

The Connection Check functionality provides a reliable ability to control the state of the connection.

## Solution

There are two new options added to the API of both UI Controls and Core component:

- `ConnectionCheckInterval` in ms. (default is 0)
- `AllowedPingTimeout` in ms. (default is 100)

And one Event:

- `PingTimeoutExpired`

If **ConnectionCheckInterval** value set in more than 0, then, if there is no update from the Server in that interval, the control sends a special Ping message to the Server and waits for a reply. The Server, according, to the

protocol, must reply to the Ping message immediately. If there are no responses from the Server in the **AllowedPingTimeout** period, then the control raises the **PingTimeoutExpired** event. Users may attach an event handler to this event and handle the connection loss according to their requirements.

If the ConnectionCheckInterval is less or equal to 0, then the Connection Check functionality is switched off.