



# Fusion Embedded™ Telnet

Fusion Embedded Telnet is the generic telnet server that supports an application through the use of macros and API functions. The server is applicable to any program that takes advantage of terminal-oriented or processed-to-process communications.

Examples include a menu system that supports remote configuration of the device, a data collection process, or a distributed computational process. The Fusion Embedded Telnet Server integrates with your server application through use of macros that provide hooks into the generic server code. These macros provide a mechanism for notifying the application when telnet events occur.

## Fusion Embedded Telnet Server Features

- Communicate with, control, and/or configure a remote device via the Internet
- Gather data or statistics from you device
- Simple pre-configured API
- Seamless integration with the Fusion protocol suite
- New secure SSL based communications
- Simplest way to talk with your device
- Complete set of example applications

The following is a brief summary of these macros:

### TELNET\_OPEN\_SESSION

Signals the server application when the new telnet connection (session) has been established.

### TELNET\_DATA\_AVAILABLE

Informs the application that data has been received and queued for specific session.

### TELNET\_CLOSE\_SESSION

Lets the server application know that a session is being closed.

### TELNET\_SHUTDOWN\_SERVER

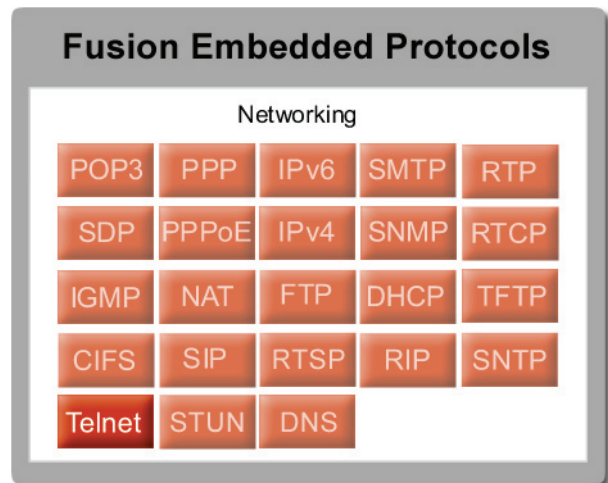
Signals the application that the telnet server execution is being terminated. If your application does not require one or more of the services, simply ignore it. Since they are pre-defined as null they do not have to be defined in your application. Fusion Telnet Server includes a demonstration application that can assist you in program development and testing.

## Telnet Features

- Custom built code, optimized for embedded systems
- Completely portable (processor and compiler independent)
- Operating system independent
- Completely ROMable
- Supports Supress Go Ahead
- Accommodates LineMode option
- Handles binary transmissions
- Configurable number of sessions
- DSP and microprocessor support (16-bit, 32-bit, and 64-bit)
- Demonstration program included

## API Function Overview

All it takes to implement telnet server capability into your product is this one simple API call `fnsTelnetServer()`.



## RFC Compliance

- RFC 854
- RFC 855
- RFC 856
- RFC 856
- RFC 857
- RFC 858
- RFC 859
- RFC 860
- RFC 861
- RFC 1184