



SoftEther VPN Manual

Welcome to SoftEther VPN Official Manual. This is the technical reference which describes most part of all functions of SoftEther VPN. You should read [Why SoftEther VPN?](#) before reading this manual.

- [0. Introduction](#)
 - [Welcome to SoftEther VPN](#)
 - [Before Reading the Manual](#)
- [1. SoftEther VPN Overview](#)
 - [1.1 What is SoftEther VPN?](#)
 - [1.2 SoftEther VPN Components](#)
 - [1.3 SoftEther VPN is Open Source](#)
 - [1.4 VPN Processing Principle and Communication Method](#)
 - [1.5 Strong Security Features](#)
 - [1.6 VPN Communication Details](#)
 - [1.7 Large Load VPN by Clustering](#)
 - [1.8 Multilanguage Support](#)
 - [1.9 VoIP / QoS Support Function](#)
- [2. SoftEther VPN Essential Architecture](#)
 - [2.1 VPN Communication Protocol](#)
 - [2.2 User Authentication](#)
 - [2.3 Server Authentication](#)
 - [2.4 VPN Server Manager](#)
 - [2.5 VPN Client Manager](#)
 - [2.6 VPN Command Line Management Utility \(vpncommand\)](#)
- [3. SoftEther VPN Server Manual](#)
 - [3.1 Operating System Requirements](#)
 - [3.2 Operating Modes](#)
 - [3.3 VPN Server Administration](#)
 - [3.4 Virtual Hub Functions](#)
 - [3.5 Virtual Hub Security Features](#)
 - [3.6 Local Bridges](#)
 - [3.7 Virtual NAT & Virtual DHCP Servers](#)
 - [3.8 Virtual Layer 3 Switches](#)
 - [3.9 Clustering](#)
 - [3.10 Logging Service](#)
- [4. SoftEther VPN Client Manual](#)
 - [4.1 Operating System Requirements](#)
 - [4.2 Using the VPN Client](#)
 - [4.3 Virtual Network Adapter](#)
 - [4.4 Making Connection to VPN Server](#)

- [4.5 Connect to VPN Server](#)
- [4.6 Using and Managing Smart Cards](#)
- [4.7 Enterprise-class Management of VPN Client](#)
- [4.8 Measuring Effective Throughput](#)
- [4.9 Other Functions](#)
- [5. SoftEther VPN Bridge Manual](#)
 - [5.1 Operating System Requirements](#)
 - [5.2 Operating Modes](#)
 - [5.3 Differences between VPN Server and VPN Bridge](#)
- [6. Command Line Management Utility Manual](#)
 - [6.1 Overview of vpncmd](#)
 - [6.2 General Usage of vpncmd](#)
 - [6.3 VPN Server / VPN Bridge Management Command Reference \(For Entire Server\)](#)
 - [6.4 VPN Server / VPN Bridge Management Command Reference \(For Virtual Hub\)](#)
 - [6.5 VPN Client Management Command Reference](#)
 - [6.6 VPN Tools Command Reference](#)
- [7. Installing SoftEther VPN Server](#)
 - [7.1 Before Install](#)
 - [7.2 Install on Windows and Initial Configurations](#)
 - [7.3 Install on Linux and Initial Configurations](#)
 - [7.4 Initial Configurations](#)
 - [7.5 Install on Other Unix Systems](#)
 - [7.6 Uninstall SoftEther VPN Server](#)
- [8. Installing SoftEther VPN Client](#)
 - [8.1 Before Install](#)
 - [8.2 Install on Windows and Initial Configurations](#)
 - [8.3 Uninstall SoftEther VPN Client](#)
- [9. Installing SoftEther VPN Bridge](#)
 - [9.1 Before Install](#)
 - [9.2 Install on Windows and Initial Configurations](#)
 - [9.3 Install on Linux and Initial Configurations](#)
 - [9.4 Initial Configurations](#)
 - [9.5 Uninstall SoftEther VPN Bridge](#)
- [10. Examples of Building VPN Networks](#)
 - [10.1 Types of VPNs](#)
 - [10.2 Common Concepts and Knowledge](#)
 - [10.3 Build a PC-to-PC VPN](#)
 - [10.4 Build a PC-to-LAN Remote Access VPN](#)
 - [10.5 Build a LAN-to-LAN VPN \(Using L2 Bridge\)](#)
 - [10.6 Build a LAN-to-LAN VPN \(Using L3 IP Routing\)](#)
 - [10.7 Mixture of LAN-to-LAN VPN and Remote Access VPN](#)
 - [10.8 Build a Large Scale Remote Access VPN Service](#)
 - [10.9 Build a Large Scale Virtual Hub Hosting Service](#)

- [10.10 Your Home PC as VPN Relay for Protect WiFi Using](#)
- [10.11 Exploit SecureNAT for Remote Access into Firewall without Any Permission](#)
- [11. Troubleshooting and Supplemental Guide](#)
 - [11.1 Troubleshooting](#)
 - [11.2 Useful Information](#)
 - [11.3 General Supplementary Information](#)
 - [11.4 Additional Security Information](#)
 - [11.5 Additional Information Regarding Communication Protocols](#)
 - [11.6 Additional Compatibility Information](#)