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 (vpncmd)

  ◦ 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

6.1 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