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# Preface

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## Purpose of This Document

The *TALnet Configuration Guide* describes how to configure the TALnet software to optimize performance. This document includes basic planning information, a sample configuration file, required and recommended configuration tasks, and monitoring tasks.

## Intended Audience

This document is primarily intended for system administrators who are familiar with internetworking terminology and concepts.

## Document Organization

This document contains the following chapters:

- Chapter 1, “TALnet Product Overview”—Provides a general description of the TALnet operating system software, and briefly describes how to configure the TALnet software.
- Chapter 2, “Planning Your Router Configuration”—Provides background information necessary for planning your software configuration and provides a checklist of parameters you need to provide during the configuration.
- Chapter 3, “Configuring the TALnet Software”—Describes how to access and modify the default configuration file, and describes the primary tasks you should perform.
- Chapter 4, “Monitoring and Maintaining Your Network”—Lists TALnet monitoring commands and describes the ping and traceroute facilities, Received Signal Strength (RSS) analysis, and link quality monitoring. It also explains our Simple Network Management Protocol (SNMP) support.
- Appendix A, “TALnet Command Reference”—Provides a detailed description of all the commands available with the TALnet software.
- Appendix B, “TAL Proprietary Management Information Base (MIB)” —Describes the TAL proprietary MIB.

- Appendix C, “Using Xvi”—Describes how to use the **xvi** text editor, which is the default editor that ships with TALnet software.
- Appendix D, “Glossary”—Defines common radio and internetworking terminology.

## Conventions

The following conventions highlight important information:

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**Note** Indicates helpful hints or references to other material.

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**Caution** Warns you of situations that could result in equipment damage or loss of data if you do not heed the instructions.



**Warning** Warns you of situations that could endanger your personal health if you do not heed the instructions.

Command descriptions use the following conventions:

- **Boldface** type indicates commands and keywords that you enter literally as shown.
- *Italic* type indicates arguments for which you supply text.
- Square brackets ([]) indicate optional elements.
- Braces ({} ) indicate a required choice.
- Braces within square brackets ( [{} ] ) indicate a choice within an optional element.
- Vertical bars (|) separate alternative, mutually exclusive, elements.

Interactive examples use the following conventions:

- *Screen* type indicates information the system displays.
- **Boldface screen** type indicates information you enter.
- *Italic screen* type indicates information for which you supply text.
- Angle brackets (<>) surround characters that do not appear on your screen, such as passwords.
- Square brackets ([]) surround default responses to system prompts.

## Related Information

This document refers to the following Requests For Comments (RFCs), which are the set of documents that describe ideas, techniques, observations, and proposed and accepted standards for the Transmission Control Protocol/Internet Protocol (TCP/IP) protocol suite:

- RFC 826, “Ethernet Address Resolution Protocol: Or converting network protocol addresses to 48-bit Ethernet address for transmission on Ethernet hardware”

- RFC 1058, “Routing Information Protocol”
- RFC 1155, “Structure and Identification of Management Information for TCP/IP-based Internets”
- RFC 1166, “Internet Numbers”
- RFC 1212, “Concise MIB Definitions”
- RFC 1213, “Management Information Base for Network Management of TCP/IP-based internets: MIB-II”
- RFC 1354, “IP Forwarding Table MIB”
- RFC 1443, “Textual Conventions for Version 2 of the Simple Network Management Protocol (SNMPv2)”
- RFC 1573, “Evolution of the Interfaces Group of MIB-II”
- RFC 1723, “RIP Version 2 Carrying Additional Information”
- RFC 1724, “RIP version 2 MIB Extensions”
- RFC 1812, “Requirements for IP Version 4 Routers”

