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**Enhanced Remote Authentication Dial In User Service (RADIUS)
Protocol Extension Specifications
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Abstract

Enhanced RADIUS is an extension to the existing RADIUS commands/attributes. This document defines the required documentation for extensions to the protocol.

Introduction

The intent of providing for Commands within the Enhanced RADIUS Protocol is to permit the RADIUS Protocol to be enhanced in functionality. It should be possible for devices to invent, test, or discard commands at will. Nevertheless, it is envisioned that commands which prove generally useful will eventually be supported by many implementations of RADIUS Servers and Network Access Devices; therefore it is desirable that commands be documented and publicized. In addition, it is necessary to insure that a single command code does not have multiple definitions.

This document specifies a method of Enhanced RADIUS Command Code assignment and standards for documentation of new commands. The individual responsible for assignment of the Command code may waive the requirement for complete documentation for some cases of experimentation, but in general documentation will be required prior to code assignment. Commands will be publicized by publishing their documentation as RFCs; inventors of the commands may, of course, publicize them in other ways as well.

Command codes will be assigned by:

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Since it will obviously occur that new commands are not supported by existing devices, it is recommended that a device respond with a Command-Unrecognized packet if it receives an unsupported RADIUS Command Type. However, for backward compatibility, it is necessary for an implementation to support the fact that the recipient of the packet may silently discard the frame.

Documentation of Commands should contain at least the following sections:

[Section 1](#) - Command Name and Command Code

[Section 2](#) - Command Meanings

The meaning of each possible Enhanced RADIUS command relevant to this command should be described. Note that for complex commands, where use of the flag field is required, such flags must be described in detail.

[Section 3](#) - Attribute Name and Attribute Code

[Section 4](#) - Attribute Meanings

The meaning of each possible Enhanced RADIUS command relevant to this command should be described. Note that for complex commands, where use of the flag field is required, such flags must be described in detail.

[Section 5](#) - Motivation

A detailed explanation of the motivation for inventing a particular command, or for choosing a particular form for the command, is extremely helpful to those who are not faced (or don't realize that they are faced) by the problem that the command is designed to solve.

[Section 6](#) - Description (or Implementation Rules)

Merely defining the command meanings and providing a statement of motivation are not always sufficient to insure that two implementations of an option will be able to communicate. Therefore, a more complete description should be furnished in most cases. This description might take the form of text, a sample implementation, hints to implementers, etc.