

RADIUS Design Guidelines

<http://www.ietf.org/internet-drafts/draft-ietf-radext-design-02.txt>

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Introduction

- Guidelines for the design of RADIUS attributes
- For authors and reviewers of specifications
 - Vendors
 - SDOs
 - IETD
- Should help avoid historical design issues
 - Inter-operability, gratuitous data model changes, etc.
- -02 has been submitted

Data Model

- Overview of basic data types in RADIUS
- Tagged types
 - NOT RECOMMENDED for future use
- Use of complex data types
 - For security and authentication only
 - All other uses NOT RECOMMENDED
- Security implications of complex types
 - New in -02

Data Model Issues

- Vendor Space considerations
 - Interoperability is a Good Thing
 - Vendor allocations: not from standard space
 - SDO allocations: not from standard space
- Publication of specifications
 - Is RECOMMENDED
 - IETF process is not necessary for many specifications
- Polymorphic attributes
 - NOT RECOMMENDED

Appendix A

- Types matching current data model
 - Simple / extended / complex types enumerated
- Improper data types
 - Simple / complex types enumerated
- Vendor-Specific formats (good / bad)
- New functionality: what not to do
- Allocation of attributes
 - use VSA space for most new allocations.

Appendix B

- Discussion of existing attributes
- Why they satisfy the design criteria
 - Or why they don't

Discussion?

- Is the draft missing anything?
- Any historical practice that should be mentioned?
 - Can be RECOMMENDED
 - Can be NOT RECOMMENDED