RADIUS Design Guidelines


Alan DeKok (Ed.)
FreeRADIUS

IETF 71
Introduction

• Guidelines for the design of RADIUS attributes
• For authors and reviewers of specifications
  – Vendors
  – SDOs
  – IETF
• Should help avoid historical design issues
  – Inter-operability, gratuitous data model changes, etc.
• -03 is in progress
Changes since -02

• Minor clarifications as per reviews on the list
  Need feedback

• What are the assumptions of RADIUS?
• Can we articulate them?
  – Sweep the issue under the rug?
  – Assume everyone knows the assumptions?
Discussion

• Anything else?
  – (Presentation has more slides... same as IETF 70)
  – Not needed here.
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
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