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**Radius Fuzzer**

**[Type the document subtitle]**

# Radius Fuzzer

The purpose of this fuzzer is to mutate radius packets and attempt to find errors in a target application’s parsing and error handling abilities.

## Specification Coverage

This fuzzer covers the specifications laid out in RFC 2655 and RFC 2866 (available [here](http://www.ietf.org/rfc/rfc2865.txt) and [here](http://www.ietf.org/rfc/rfc2866.txt)).

## Configuration

To properly configure the pit change both the IP addresses for the radius and accounting servers at the bottom of the pit file under: test > publisher. Under the AuthPacket data model, change the username and both the shared server secret and user password under the “RadiusFixup”. Under the AcctPacket data model change the shared secret under the “RadiusAcctFixup” and the user name.

A generic template for attributes has been provided for any additional attributes that a current configure many require. See the documentation for the proper code/values.

### Console Application Target

[Walk through console command line application.]

### Graphical Application Target

[Walk through configuration of a graphical program. Cover closing app by message and handling error dialogs that might pop-up. ]

## Running

Running the fuzzer with the sequential strategy will go through each field, one at a time, and fuzz it. This will give you a finite number of runs.   
Running the fuzzer with the random strategy will fuzz multiple fields at once and run indefinitely. To reproduce the results take note of the random seed that the fuzzer is using or set the seed using the –seed=<number> command.

### Running with Random Strategy

[Talk about the random strategy, command lines needed. Were log files land, etc.]

### Running with Default Strategy

[Talk about the random strategy, command lines needed. Were log files land, etc.]

## Results

[How to read output, Examples of console output, log files, faults, etc. How to load the dump into windbg. How to reproduce an issue using the logged files.]

## Troubleshooting

[Common problems they may run into and how to trouble shoot.]