

**RADIUS Interface**  
**DTH Software**



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## Overview

The purpose of this manual is to walk you through setting up the interface to your RADIUS server(s). This interface allows any RADIUS server that can make a database call to retrieve or submit information to/from the DTH billing system. We are also working on a version that will allow interface from any RADIUS server that can make an HTTP call.

[www.xperiencetech.com](http://www.xperiencetech.com) RADIUS Solutions has already built and tested their interface to DTH. We can supply the necessary configuration file for their enterprise version.

We provide the source code for the RADIUS interface. Its functionality can be customized by DTH or by your organization.

**Please note that all procedure names are case-sensitive.**

If you have any questions about installing DTH or the content of this document please email us at [support@dthsoftware.com](mailto:support@dthsoftware.com).

## Database Call Method

### *User Authentication*

To authenticate a user, call the DTH\_spRADIUSAuthenticateLogin stored procedure. This procedure only accepts 1 parameter, username. This procedure will always return only 1 row and only 1 field in that row.

If the returned value is a numeric between 50000 and 60000 then the authentication has failed. In this case, you will call the DTH\_spRADIUSErrorMessage and pass 1 parameter, the error number returned from DTH\_spRADIUSAuthenticateLogin. The DTH\_spRADIUSErrorMessage will always return 1 row with 2 fields. The first field will always be 'Reply-Message'. The second field will be the actual error message. The error messages can be customized in Setup>>Error Messages in the DTH application.

If the original call to DTH\_spRADIUSAuthenticateLogin passes, the procedure will return the password in the first field of the first row. You can use this value to compare to the password in the RADIUS request.

Assuming the passwords match, you would then call the DTH\_spRADIUSUserAttributes stored procedure. This procedure only accepts 1 parameter, username. This procedure will return multiple rows with 2 fields per row. There will be 1 row for each Reply Attribute. The first field is called AttributeName and will contain the name of the attribute. The second field is called AttributeValue and will contain the value of the attribute.

Reply attributes are dynamic and can be configured in Setup>>Internet Service Packages.

## ***Session Logging***

At the end of each session, the session should be logged to DTH. To do this, call the DTH\_spRADIUSRecordSession stored procedure. The parameters are listed below.

This procedure will not return anything. Any encountered during the logging will be handled inside DTH. This can be called asynchronously to improve performance.

Parameter	DataType	Description
Username	Varchar(100)	
SessionDuration	Integer	Session duration in seconds.
BytesIn	Integer	
BytesOut	Integer	
IPAddress	Char(15)	User's IP Address
CallerID	Varchar(20)	
CalledID	Varchar(20)	
Service	Varchar(20)	
NetworkServerIPAddress	Char(15)	

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