

# Serv-U<sup>®</sup> File Server Database Integration



**Serv-U File Server Database Integration** – v14.0.1.0 – Page 1 of 37 Copyright 1995-2013 SolarWinds, Inc. (RhinoSoft.com) – All Rights Reserved

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# Introduction

Serv-U (<u>http://www.Serv-U.com/</u>) is a file server that allows end users to transfer files via FTP, FTPS, SFTP, web browsers, and mobile devices. Serv-U runs on either Windows or Linux and supports both IPv4 and IPv6 networks. In addition, it runs natively on both 32-bit and 64-bit versions of Windows and Linux, taking advantage of performance benefits inherent in 64-bit computing.

To authenticate end users Serv-U can use its own user database or an external collection of user and group information. The two types of external collections supported today are Windows Active Directory (on Windows-deployed servers only) and relational databases accessible via ODBC. This paper discusses the latter case: how to use a relational database accessible via ODBC to provide Serv-U with user and group information.

Serv-U MFT Server supports integration with external database engines like Microsoft SQL Server, MySQL, Postgre SQL, Oracle, and more. Serv-U requires only an ODBC connection name, username, and password to an empty database to integrate with any supported database engine. Windows provides ODBC functionality via the "Data Sources" menu in the Control Panel, where Linux provides this functionality via the "unixODBC" package, found in standard Linux repositories. Storing users in an ODBC database can provide much faster response times when user counts grow above several thousand, and also makes the user list accessible to back-end user provisioning systems.

This manual describes how to authenticate end users with relational databases. Two common scenarios are covered:

- Serv-U builds a new database for its own use
- Serv-U connects to an existing database shared with other applications or services



# Integrating With A New Database

To set up Serv-U to populate an empty database:

- 1. Create a new empty database on the relational database of your choice (Refer to your Microsoft SQL Server, SQL Database, MySQL, or Postgres manual or consult with your local DBA if you need help doing this)
- 2. Create an ODBC connection to your database (see "Creating an ODBC Connection")
- 3. Navigate to the "Domain Details | Database" menu in Serv-U
- 4. Ensure that the "Automatically create required tables" and "Automatically create required columns" options are both enabled
- 5. Enter the Data Source Name (DSN) (see "Creating an ODBC Connection"), and the user name and password used to access the database
- 6. Click on "Save"
- 7. Test the ODBC connection by creating a new user account in the "Users | Database Users" menu (or "Global Users | Database Users"), and see if the user is correctly displayed in the list. Errors can be reviewed in the "Domain Activity | Log" menu

Serv-U will proceed with the setup and create all the necessary tables and columns to begin database user storage immediately.

#### **Additional Domains**

Serv-U supports the setup of multiple Domains, which are collections of Users and Groups bound by common settings, such as a common Fully Qualified Domain Name or client company. When Serv-U is set up this way, each Domain in Serv-U should be configured with its own database.

#### **Global Users and Groups**

Global Users and Groups, which are special Users and Groups that can access any Serv-U Domain, can also be stored in a database. Like additional Domains in Serv-U, the Global Users and Groups should also be configured on their own database.



# Integrating With An Existing Database

Serv-U can be tied into an existing database that contains users and groups shared and/or managed by another application. Since Serv-U's default setting is to generate all the standard tables and columns when the Save button is clicked, custom deployments must be carried out with more planning. To initially connect Serv-U to the database:

1. Create an ODBC connection to your existing database (see "Creating an ODBC Connection")

2. Navigate to the "Domain Details | Database" menu in Serv-U

3. Disable the "Automatically create required tables" and "Automatically create required columns" options in Serv-U to prevent unnecessary table creation

4. Enter the Data Source Name (DSN) (see "Creating an ODBC Connection") that was created earlier, the username, and the password to access the database

5. Click on Save

The actual work to integrate Serv-U with the database begins at this point. Via the "User Table Mappings" and "Group Table Mappings" menus, Serv-U must be configured with the correct table names with which to integrate with, and which field names to use for its various database attributes. For a comprehensive list of all attributes and standard labels used by Serv-U, see the accompanying documentation in Excel spreadsheet format.

#### **Additional Domains**

Serv-U supports the setup of multiple Domains, which are collections of Users and Groups bound by common settings, such as a common Fully Qualified Domain Name or client company. When Serv-U is set up this way, each Domain in Serv-U should be configured with its own database.

#### **Global Users and Groups**

Global Users and Groups, which are special Users and Groups that can access any Serv-U Domain, can also be stored in a database. Like additional Domains in Serv-U, the Global Users and Groups should also be configured on their own database.



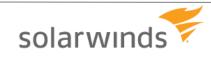
# **Custom Database Mapping**

For an example of how custom mapping can be accomplished, see the example image of the User Info Table in Serv-U. This table contains the users and user settings in a Serv-U Domain. For the purpose of integrating with an existing database, we have renamed the "Login ID" attribute to "AcmeUserID", which is the field in our MySQL database that contains Login IDs.

	w to configure its database column mapping licking, or using the Edit button.	s. A column mapping value		
User Info Table	•			
Attribute	Mapped Database Value			
RtPreviousSeconds	RtPreviousSeconds			
RtPreviousMaxSeconds	RtPreviousMaxSeconds			
RtPreviousMaxConcurrent	RtPreviousMaxConcurrent	=		
LoginID	AcmeUserID			
PasswordChangedOn	PasswordChangedOn			
PasswordEncryptMode	PasswordEncryptMode			
PasswordUTF8	PasswordUTF8			
SKeylter	SKeylter			
SKeySeed	SKeySeed			
RequirePasswordChange	RequirePasswordChange	-		

Similarly, in the MySQL Workbench, we can see the field AcmeUserID shown, which can be used by existing account management systems for user account provisioning.

RtDailyCount	VARCHAR(255)		<u></u>		0	0	0	NULL
RtPreviousCount	VARCHAR(32)	100	10	1071	0	1	0	NULL
RtPreviousSeconds	VARCHAR(32)	(01)	例	1071	100	0	0	NULL
RtPreviousMaxSeconds	VARCHAR(32)	(01)	例	1071	100	0	0	NULL
RtPreviousMaxConcurrent	VARCHAR(32)	(87)	例	1071	100	0	0	NULL
AcmeUserID	VARCHAR(255)		例	1071	0	0	0	NULL
PasswordChangedOn	VARCHAR(32)	<b>E</b>	例	1071	0	0	0	NULL
PasswordEncryptMode	VARCHAR(32)	(84)	1	101	100	0	0	NULL



# **Creating an ODBC Connection**

Serv-U uses ODBC connections on both Windows and Linux to provide connections to your relational database. Below are directions on creating ODBC connections on both Windows and Linux systems. Specific directions for creating and managing new databases for specific database engines are not covered in this document – for directions specific to your database engine, refer to your database documentation or consult with your local database administrator (DBA).

## **Creating A New Windows ODBC Connection**

To allow Serv-U on Windows to access a database, an ODBC connection must first be established in Windows. To establish this connection, follow the steps below:

- 1. Open the "Control Panel | Administrative Tools | Data Sources (ODBC)" menu.
- 2. If Serv-U is running as a service, open the System DSN tab if Serv-U is going to run as an application (this is uncommon), open the User DSN tab.
- 3. Click on "Add", select the data source to be used (most common are "SQL Server" for Microsoft SQL Server 2000, "SQL Native Client" for Microsoft SQL Server 2005 and SQL Server 2008, and "MySQL ODBC 3.51 Driver" for MySQL), then click on "Next".
- 4. Specify the username and password for the database server, as well as the specific database that will be in use (these steps will vary based on database and ODBC driver).

### **Testing New Windows DSN**

To test the new Windows DSN and ensure that it is able to connect to the database, open the ODBC connection properties in the "Data Sources" menu. The ability to test will depend on the ODBC driver for your database, but most database ODBC drivers, like those used by Microsoft SQL Server, MySQL, and Oracle, support a "Test" button that allows Windows to check if the connection is functional.

## **Creating A New Linux ODBC Connection**

To allow Serv-U on Linux to access a database, the empty database on the database server must first be created, as with Windows. Then, an ODBC connection can be established in Linux. This requires that the following packages first be installed on the Linux server:

mysql-connector-odbc posgressql-odbc unixODBC

There are two kinds of Data Source Names (DSNs) - User DSNs, which are available in the user context only, and System DSNs, which are available for the whole system and for all users. Precedence is IMPORTANT - if you have identically named DSNs in the User and System levels, the User DSN takes precedence. User DSNs are created in ~/.odbc.ini. System DSNs are created in /etc/odbc.ini. Remember that you must be logged in as root to make changes to /etc/odbc.ini. Since Serv-U will typically be running as a service, creating a System DSN is recommended. To create your new DSN, use the formats below for MySQL and Postgres:



[MySQL-test] Description = MySQL test database Trace = OffTraceFile = stderr Driver = MySQLSERVER = YOURIPADDRESS USER = USERNAME PASSWORD = PASSWORD PORT = 3306DATABASE = YOURDATABASE [PostgreSQL-test] Description = Test to Postgres Driver = PostgreSQL Trace = Yes TraceFile = sql.log Database = YOURDATABASE Servername = YOURIPADDRESS UserName = USERNAME Password = PASSWORD Port = 5432Protocol = 6.4ReadOnlv = No

RowVersioning = No ShowSystemTables = No ShowOidColumn = No FakeOidIndex = No ConnSettings =

The names in brackets should be adjusted to your needed DSN name string.

## **Testing New Linux DSN**

Testing the new DSN can be performed using the "isql" application, using the syntax below.

[rhinosoft@rhinodev ~]\$ isql %DSN% -c -v

Be sure to replace %DSN% with the name of your DSN. This will allow you to confirm whether your DSN is operating. Remember that if you have identically named DSNs in the Root and User levels, the User level DSN takes precedence.



## **Basic Database Schema**

Serv-U supports a wide range of statistics-gathering and feature-related fields that are not necessary for basic file transfer functionality. At a very basic level, Serv-U relies on the following fields to be present to support authentication and file access:

## Users Table

Table Name – The name of the table containing users. "SUUsers" by default.

LoginID - String value containing the username of the account.

**PasswordChangedOn** - Integer value calculated using time\_t, showing the last date the password was change

**PasswordEncrypted** - If the password is encrypted using the methods described in the following section, "Generating Encrypted Passwords", this value must be 1. If the password is stored plaintext, enter 0.

HomeDir - Enter the full path to the user's home directory

LockInHomeDir - If the user must be locked into their home directory, enter 1. If not, enter 0

### **UserDirAccess Table**

 Table Name – The name of the table containing groups. "UserDirAccess" by default.

LoginID – String value containing the username of the account.

SortIndex - The order in which the rule will be processed for the user specified in "LoginID".

Dir - The directory of the Dir Access rule, stored in true format (C:\ftproot\user,

\\servername\files\folder, or /usr/ftproot, no escape characters needed).

**Access** - The privileges granted, calculated using the directions in the following section, "Generating Directory Access Values".

**MaxSize** - If applicable, the maximum size the directory may reach before no more uploads are allowed.

For a comprehensive list of all tables and fields that Serv-U supports as well as default see the "Schema Reference" section.

#### Data Concurrency

Information about user accounts is loaded into memory when a user logs into Serv-U. If a change to a user account is written manually to the database, it can cause this information to be overwritten. Manually coded mechanisms must be able to wait for a user to log off before writing changes to ensure they are saved properly.



# **Generating Special Values**

## **Generating Encrypted Passwords**

By default, Serv-U passwords in the database are stored in an encrypted format so that if the database is compromised, the passwords on the server cannot be stolen. Serv-U uses a one-way MD5 hash, with salt, to ensure the safety of the password. Encrypted passwords can be disabled if necessary in the "Domain Limits & Settings | Limits | Password" menu, in the "Password Encrypt Mode" option. However, using encrypted passwords is recommended for maximum security.

To generate a Serv-U compatible encrypted password for insertion into an ODBC user database, two random characters (the 'salt' - in the range a..z, A..Z) are added to the beginning of the clear-text password. This is then hashed using MD5 and the resulting hash is hex-encoded. The result of this is written as plain-text starting with the 2 salt characters followed by the hex-encoded hash.

Action	Result
Password is established	TestPassword
2 salt characters are added to increase complexity	cbTestPassword
Result is hashed using MD5 and displayed in hexadecimal	8EA58F0751BAA5AF391253F7DADD3D46
2 salt characters added to beginning of previous hash	cb8EA58F0751BAA5AF391253F7DADD3D46

The algorithm works as below:

When verifying a user's password, Serv-U will do the same. It parses the salt from the user's stored password (i.e., "cb" in this case), prepends it the password the user sent to it by the client, MD5 hashes it, and compares the result with the stored hash. If the values are equal, then the entered password is correct.

## **Generating Directory Access Rules**

When creating users directly in a database it is necessary to tell Serv-U programatically what permissions the user will be granted. The permissions must be specified via the method outlined below:

To calculate the value of a DirAccess entry, the appropriate values (represented in hexadecimal below) must be added and converted to decimal, then used in the DirAccess column of the CSV file. Each value represents a specific bit which can be turned on or off by adding or removing that value. For example, to grant Read/Write/List access, you add:

1 +2



+100 =103

This value must then be converted to hex, which can be done by opening the Windows Calculator (Start | All Programs | Accessories | Calculator), changing it to Scientific Mode (View | Scientific Mode), selecting Hex, typing in the value, then selecting "Dec" for an automatic conversion. For example, hexadecimal 103 and decimal 259 are the same value. 259 is the value that should be entered in the DirAccess column for the appropriate user. The values of all permissions are listed below.

#### **File Permissions**

Read=0x00000001 Write=0x00000002 Append=0x00000004 Delete=0x00000008 Rename=0x00000010 Execute=0x00000020

#### **Directory Permissions**

List=0x00000100 Create=0x00000200 Remove=0x00000400 Rename=0x00000800

#### **Subdirectory Permissions**

Inherit=0x00001000



## Example Code

To aid in the deployment of database integration, we have provided sample code for the special values used in the Serv-U Database: encrypted passwords, and directory access calculations. The example are provided in PHP, VB.NET, and C#.NET

## **Generating Encrypted Passwords**

#### PHP

// MD5 of specified string plus two leading salt characters // Used in Serv-U's "MD5" hashes // Provided to the public domain by Rhino Software, Inc. (http://www.RhinoSoft.com) // // INPUT: \$strPwdOrig (a string containing a plaintext password) // OUTPUT: \$strDBValue (a string containing the value to insert or check in the database)  $\parallel$ // This is the password to "one way encrypt" \$strPwdOrig = "TestPassword"; // MAKE THIS VALUE DYNAMIC IN PRODUCTION echo "|Original Password:".\$strPwdOrig."|"; // REMOVE THIS LINE IN PRODUCTION  $\parallel$ // This is the set of characters used in the two-character salt (note hardcoded length) \$strSaltChars = "0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijkImnopgrstuvwxyz"; // Generate and display the salt \$strSalt = substr(\$strSaltChars, rand(1, 62), 1); \$strSalt = substr(\$strSaltChars, rand(1, 62), 1).\$strSalt; \$strSalt = "cb"; // UNCOMMENT THIS TO TEST EXAMPLE IN SERV-U MANUAL echo "|Salt:".\$strSalt."|"; // REMOVE THIS LINE IN PRODUCTION // \$strPwdHash = md5(\$strSalt.\$strPwdOrig); echo "|Encrypted Password:".\$strPwdHash."|"; // REMOVE THIS LINE IN PRODUCTION  $\parallel$ \$strDBValue = \$strSalt.\$strPwdHash; echo "|Value in Database:".\$strDBValue."|"; // REMOVE THIS LINE IN PRODUCTION

### **VB.NET**

' MD5 of specified string plus two leading salt characters

' Used in Serv-U's "MD5" hashes

' Provided to the public domain by Rhino Software, Inc. (http://www.RhinoSoft.com)

'INPUT: \$strPwdOrig (a string containing a plaintext password)

'OUTPUT: \$strDBValue (a string containing the value to insert or check in the database)

' This is the password to "one way encrypt"

Dim strPwdOrig as String = "TestPassword" 'MAKE THIS VALUE DYNAMIC IN PRODUCTION Response.Write("|Original Password:" + strPwdOrig + "|") 'REMOVE THIS LINE IN PRODUCTION



' This is the set of characters used in the two-character salt (note hardcoded length) Dim strSaltChars as String = "0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopgrstuvwxyz" ' Generate and display the salt Dim rand As New Random() Dim strSalt as String = "" strSalt = strSaltChars.Substring(rand.Next(62), 1) + strSaltChars.Substring(rand.Next(62), 1) strSalt = "cb" ' UNCOMMENT THIS TO TEST EXAMPLE IN SERV-U MANUAL Response.Write("|Salt:"+strSalt + "|") 'REMOVE THIS LINE IN PRODUCTION Dim x As New System.Security.Cryptography.MD5CryptoServiceProvider() Dim bs() As byte = System.Text.Encoding.UTF8.GetBytes(strSalt + strPwdOrig) bs = x.ComputeHash(bs)Dim sbTemp As System.Text.StringBuilder = new System.Text.StringBuilder() Dim i = -1Dim strPwdHash as String = "" For i = 0 To bs.Length - 1 strPwdHash &= bs(i).ToString("x").PadLeft(2, "0") Next i Response.Write("|Encrypted Password:"+strPwdHash + "|") ' REMOVE THIS LINE IN PRODUCTION

Dim strDBValue as String = strSalt + strPwdHash Response.Write("|Value in Database:"+strDBValue + "|") ' REMOVE THIS LINE IN PRODUCTION

End Sub

#### C#.NET

// MD5 of specified string plus two leading salt characters // Used in Serv-U's "MD5" hashes // Provided to the public domain by Rhino Software, Inc. (http://www.RhinoSoft.com) // // INPUT: \$strPwdOrig (a string containing a plaintext password) // OUTPUT: \$strDBValue (a string containing the value to insert or check in the database)  $\parallel$ // This is the password to "one way encrypt" String strPwdOrig = "TestPassword"; // MAKE THIS VALUE DYNAMIC IN PRODUCTION Console.WriteLine("Original Password:" + strPwdOrig); // REMOVE THIS LINE IN PRODUCTION  $\parallel$ // This is the set of characters used in the two-character salt (note hardcoded length) String strSaltChars = "0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz"; // Generate and display the salt Random rand = new Random(); String strSalt = ""; strSalt = strSaltChars.Substring(rand.Next(62), 1) + strSaltChars.Substring(rand.Next(62), 1); strSalt = "cb"; // UNCOMMENT THIS TO TEST EXAMPLE IN SERV-U MANUAL Console.WriteLine("Salt:"+strSalt); // REMOVE THIS LINE IN PRODUCTION //



System.Security.Cryptography.MD5CryptoServiceProvider x = new System.Security.Cryptography.MD5CryptoServiceProvider(); byte[] bs = System.Text.Encoding.UTF8.GetBytes(strSalt + strPwdOrig); bs = x.ComputeHash(bs); System.Text.StringBuilder sbTemp = new System.Text.StringBuilder(); foreach (byte bTemp in bs) { sbTemp.Append(bTemp.ToString("x2").ToLower()); } String strPwdHash = sbTemp.ToString(); Console.WriteLine("Encrypted Password:"+strPwdHash); // REMOVE THIS LINE IN PRODUCTION // String strDBValue = strSalt + strPwdHash; Console.WriteLine("Value in Database:"+strDBValue); // REMOVE THIS LINE IN PRODUCTION

#### **Generating Directory Access Rules**

#### PHP

// List of all Serv-U file and directory permissions values \$intServUFileRead = 1; \$intServUFileWrite = 2; \$intServUFileAppend = 4; \$intServUFileDelete = 8: \$intServUFileRename = 16; \$intServUFileExecute = 32;\$intServUFolderList = 256: \$intServUFolderCreate = 512: \$intServUFolderRemove = 1024: \$intServUFolderRename = 2048; \$intServUSubfolderInherit = 4096; // To use these, sum them and apply \$intTestReadWriteList = \$intServUFileRead + \$intServUFileWrite + \$intServUFolderList; echo "Serv-U Permission Value is ".\$intTestReadWriteList;

#### **VB.NET**

' List of all Serv-U file and directory permissions values Dim intServUFileRead as Integer = 1 Dim intServUFileWrite as Integer = 2 Dim intServUFileAppend as Integer = 4 Dim intServUFileDelete as Integer = 8 Dim intServUFileRename as Integer = 16 Dim intServUFileExecute as Integer = 32Dim intServUFolderList as Integer = 256 Dim intServUFolderCreate as Integer = 512Dim intServUFolderRemove as Integer = 1024Dim intServUFolderRename as Integer = 2048Dim intServUSubfolderInherit as Integer = 4096 ' To use these, sum them and apply



Dim intTestReadWriteList as Integer = intServUFileRead + intServUFileWrite + intServUFolderList Response.Write("Serv-U Permission Value is "+intTestReadWriteList.ToString())

#### C#.NET

// List of all Serv-U file and directory permissions values int intServUFileRead = 1; int intServUFileWrite = 2; int intServUFileAppend = 4; int intServUFileDelete = 8; int intServUFileRename = 16; int intServUFileExecute = 32;int intServUFolderList = 256; int intServUFolderCreate = 512; int intServUFolderRemove = 1024;int intServUFolderRename = 2048; int intServUSubfolderInherit = 4096; // To use these, sum them and apply int intTestReadWriteList = intServUFileRead + intServUFileWrite + intServUFolderList; Console.WriteLine("Serv-U Permission Value is "+intTestReadWriteList);

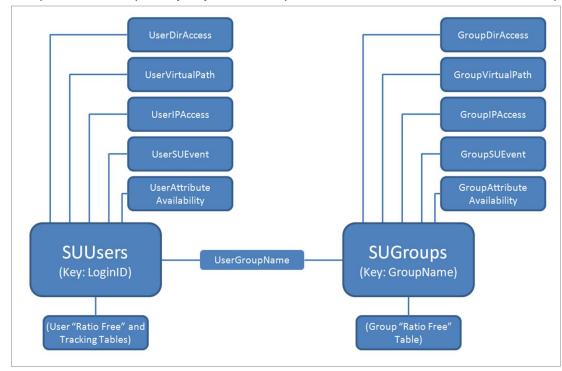


# Schema Reference

Programmers and integrators can use this schema to manage Serv-U users and groups, including their related folder permissions, virtual folders, IP access, events, and other attributes.

#### Schema Diagram

The two core tables are "SUUsers" and "SUGroups". The two are tied together in an "N:N" relationship via the "UserGroupName" table. (I.e., each group may have multiple users as members and each user may below to multiple groups.) "LoginID" is the primary key of SUUsers and "GroupName" is the primary key of SUGroups" – values in these fields should be unique.



## **SUUsers - User Information Table**

Every user has a single SUUser record.

Field Name	Data Type	Default	Use
			Name of the table containing Serv-
TableName	VARCHAR(32)	SUUsers	U user accounts.
FileTransferStats_BytesUploaded	VARCHAR(32)	NULL	Number of bytes uploaded by user, for use with Ratios & Quotas.
FileTransferStats_BytesDownloaded	VARCHAR(32)	NULL	Number of bytes downloaded by user, for use with Ratios & Quotas.
FileTransferStats_FilesUploaded	VARCHAR(32)	NULL	Number of files uploaded by user, for use with Ratios & Quotas.
FileTransferStats_FilesDownloaded	VARCHAR(32)	NULL	Number of files downloaded by user, for use with Ratios & Quotas.
StatisticsStartTime	VARCHAR(32)	NULL	Start time of statistical tracking of user, expressed as a time_t value.
LastLoginTime	VARCHAR(32)	NULL	Last time the user logged in to Serv-U.



LastLogoutTime		NULL	Last time the user logged out of Serv-U.
LasiLogout Time	VARCHAR(32)	NULL	Total number of times account was
Logins	VARCHAR(32)	NULL	used to log in.
		NOLL	Total number of times account was
Logouts	VARCHAR(32)	NULL	used to log out.
			Maximum number of concurrent
MostConcurrentLogins	VARCHAR(32)	NULL	sessions recorded for account.
			Total number of seconds account
TotalLoginDurationSecs	VARCHAR(32)	NULL	has been logged in.
			Total number of seconds of longest
LongestLoginDurationSecs	VARCHAR(32)	NULL	session for account. Total number of seconds of
ShortestLoginDurationSecs	VARCHAR(32)	NULL	shortest session for account.
RtServerStartTime	VARCHAR(32)	NULL	Internal Serv-U statistics tracking.
RtFilesUploadRateTotal	VARCHAR(32)	NULL	Internal Serv-U statistics tracking.
RtFilesDownloadRateTotal	VARCHAR(32)	NULL	Internal Serv-U statistics tracking.
RtDailyCount	VARCHAR(32)	NULL	Internal Serv-U statistics tracking.
RtPreviousCount	VARCHAR(200)	NULL	Internal Serv-U statistics tracking.
RtPreviousSeconds	VARCHAR(32)	NULL	Internal Serv-U statistics tracking.
RtPreviousMaxSeconds	VARCHAR(32)	NULL	
			Internal Serv-U statistics tracking.
RtPreviousMaxConcurrent	VARCHAR(32)	NULL Acct	Internal Serv-U statistics tracking.
LoginID	VARCHAR(255)	Username	Username of account.
	V/ ((C) I/ ((200))	Obername	Date of last password change for
			account, expressed as time_t
PasswordChangedOn	VARCHAR(32)	time_t()	value.
			Password encryption level. 0 for
			unencrypted, 1 for one-way
			encryption, 2 for two-way
PasswordEncryptMode	VARCHAR(32)	1	encryption. Whether password is UTF-8
			encoded or not. 0 for not encoded,
PasswordUTF8	VARCHAR(32)	NULL	1 or NULL for encoded
SKeylter	VARCHAR(32)	NULL	Internal Serv-U SKEY iterator.
SKeySeed	VARCHAR(255)	NULL	Internal Serv-U SKEY seed.
	(74(0))	NOLL	Whether password change is
			required at next login. 0 or NULL
RequirePasswordChange	VARCHAR(2)	NULL	for not required, 1 for required.
			Whether event for stale password
			has been fired. 0 or NULL for not
PasswordStaleEventFired	VARCHAR(2)	NULL	fired, 1 for fired.
			Whether account pre-disable event
PreDisableEventFired	VARCHAR(2)	NULL	has been fired. 0 or NULL for not fired, 1 for fired.
		NOLL	Whether account pre-delete event
			has been fired. 0 or NULL for not
PreDeleteEventFired	VARCHAR(2)	NULL	fired, 1 for fired.
			Set to the Organization, or
			"Collection", the user belongs to,
Organization	VARCHAR(255)	NULL	for GUI sorting.



		Acct	By default, encrypt passwords per
Password	VARCHAR(255)	Password	KB1177
			Set to the full name of the user
FullName	VARCHAR(255)	NULL	owning the account.
Description			Set to description of the user
Description	VARCHAR(255)	NULL	account.
EmailAddress	VARCHAR(255)	NULL	Set to the contact email address
EmailAddress	VARCHAR(200)	NOLL	for account. Whether user is set to
			automatically disable or delete at a
			future date. 0 for permanent
			account, 1 for automatically
			disable, 2 for automatically delete
Туре	VARCHAR(32)	NULL	account in the future.
			Time for the user account to
ExpiresOn	VARCHAR(32)	NULL	expire, expressed as time_t value.
			Whether user-disabled event has
			been fired. 0 or NULL for not fired,
DisabledEventFired	VARCHAR(2)	NULL	1 for fired.
OueteDutee			Number of bytes used by account
QuotaBytes	VARCHAR(32)	NULL	when quotas in place. Administrative privileges for user, if
			applicable. 0 for no privilege, 1 for
			Domain Administrator, 2 for Server
			Administrator, 3 for Read-Only
			Domain Administrator, 4 for Read-
			Only System Administrator, 5 for
			Group Administrator, 6 for Read-
AdminType	VARCHAR(32)	NULL	Only Group Administrator.
			Whether to allow changes of IP
			address during HTTP sessions.
			Required for mobile access. 0 for
AllowHTTPIPAddressChange	VARCHAR(2)	NULL	disabled, 1 or NULL for enabled.
			Whether to allow media playback on HTTP sessions. 0 for disabled,
AllowHTTPMediaPlayback	VARCHAR(2)	NULL	1 or NULL for enabled.
			Whether to allow user to delete
			files during rename operations
			where the target file name exists. 0
			to disable rename overwrite, 1 or
AllowRenameOverwrite		1	NULL to enable exemunite
	VARCHAR(2)	NULL	NULL to enable overwrite.
	VARCHAR(2)	NULL	Whether to allow Web Client Pro
·			Whether to allow Web Client Pro for Silver/Gold Edition users. 0 for
AllowWebClientPro	VARCHAR(2) VARCHAR(2)	NULL	Whether to allow Web Client Pro for Silver/Gold Edition users. 0 for disabled, 1 or NULL for enabled.
AllowWebClientPro			Whether to allow Web Client Pro for Silver/Gold Edition users. 0 for disabled, 1 or NULL for enabled. Whether to allow user to log in
AllowWebClientPro			Whether to allow Web Client Pro for Silver/Gold Edition users. 0 for disabled, 1 or NULL for enabled. Whether to allow user to log in regardless of security and IP
	VARCHAR(2)	NULL	Whether to allow Web Client Pro for Silver/Gold Edition users. 0 for disabled, 1 or NULL for enabled. Whether to allow user to log in regardless of security and IP Access requirements. 0 or NULL
AllowWebClientPro AlwaysAllowLogin			Whether to allow Web Client Pro for Silver/Gold Edition users. 0 for disabled, 1 or NULL for enabled. Whether to allow user to log in regardless of security and IP Access requirements. 0 or NULL for disabled, 1 for enabled.
	VARCHAR(2)	NULL	Whether to allow Web Client Pro for Silver/Gold Edition users. 0 for disabled, 1 or NULL for enabled. Whether to allow user to log in regardless of security and IP Access requirements. 0 or NULL for disabled, 1 for enabled. Whether to block anti-timeout
	VARCHAR(2)	NULL	Whether to allow Web Client Pro for Silver/Gold Edition users. 0 for disabled, 1 or NULL for enabled. Whether to allow user to log in regardless of security and IP Access requirements. 0 or NULL for disabled, 1 for enabled. Whether to block anti-timeout operations like NOOP during
	VARCHAR(2)	NULL	Whether to allow Web Client Pro for Silver/Gold Edition users. 0 for disabled, 1 or NULL for enabled. Whether to allow user to log in regardless of security and IP Access requirements. 0 or NULL for disabled, 1 for enabled. Whether to block anti-timeout operations like NOOP during sessions, to prevent sessions from
	VARCHAR(2)	NULL	Whether to allow Web Client Pro for Silver/Gold Edition users. 0 for disabled, 1 or NULL for enabled. Whether to allow user to log in regardless of security and IP Access requirements. 0 or NULL for disabled, 1 for enabled. Whether to block anti-timeout operations like NOOP during



			Whether to check directory sizes
			during upload for possible directory size violations. 0 or NULL for
CheckDirSizePeriodically	VARCHAR(2)	NULL	disabled, 1 for enabled.
CheckDirSizer enouically		NOLL	Whether to convert URL-encoded
			characters like %23 into their
			ASCII equivalents during transfers.
			0 to not encode, 1 or NULL to
ConvertURLChars	VARCHAR(2)	NULL	encode.
		INCLE	Whether to delete files only
			partially uploaded by user. 0 or
			NULL for do not delete, 1 for
DeletePartiallyUploaded	VARCHAR(2)	NULL	delete.
DirMessage	VARCHAR(255)	NULL	
EmailAddressSet	VARCHAR(2)	NULL	Email address for user account.
	- ( )	_	Whether account is allowed to
			recover password. 0 or NULL for
EnablePasswordRecovery	VARCHAR(2)	NULL	disabled, 1 for enabled.
			Whether account is enabled for
			login access. 0 for disabled, 1 for
Enabled	VARCHAR(2)	1	enabled.
			Whether to enable FTP/FTPS for
			user. 0 for disabled, 1 or NULL for
FTP	VARCHAR(2)	NULL	enabled.
			Linux group owner for uploaded
FileGroup	VARCHAR(255)	NULL	files, applies to Linux only.
			Linux user owner for uploaded
FileOwner	VARCHAR(255)	NULL	files, applies to Linux only.
			Whether to enable HTTP/HTTPS
			for login access. 0 for disabled, 1
НТТР	VARCHAR(2)	NULL	or NULL for enabled.
			Whether to hide the "Compressed"
			fact from file listings. 0 or NULL to
HideCompressedState	VARCHAR(2)	NULL	show compression fact, 1 to hide compression fact.
ThecompressedState		NOLL	Whether to hide the "Encrypted"
			fact from file listings. 0 or NULL to
			show encryption fact, 1 to hide
HideEncryptedState	VARCHAR(2)	NULL	encryption fact.
			Whether to hide "Hidden" files and
			folders from Directory Listings. 0 or
			NULL to show hidden files/folders,
HideHidden	VARCHAR(2)	NULL	1 to hide hidden files/folders.
			Whether to obfuscate passwords in
			Serv-U logs. 0 to show passwords
			in cleartest, 1 or NULL to hide
HidePasswordInLog	VARCHAR(2)	NULL	passwords.
			Home directory for the user
			account, as either a Windows local
			volume path or a UNC path. May
			require escape characters
HomeDir	VARCHAR(255)	NULL	depending on database engine.



[			How many seconds a session may
			perform no actions before it is
			considered idle. Interacts with
			BlockAntiTimeout limit to determine
			whether clients may keep sessions
IdleTimeSeconds	VARCHAR(32)	NULL	alive.
		NOLL	Whether to include response codes
			in every line of multi-line message
			responses in FTP. 0 or NULL to
IncludeRespCodesInMsgFiles	VARCHAR(2)	NULL	not include, 1 to include.
		NOLL	Whether to interpret LF (Line Feed)
			as an End Of Line (EOL) character
			in text files. Useful for interaction
			with some mainframe systems. 0
			or NULL to not interpret LF as
InterpretLFasEOL	VARCHAR(2)	NULL	EOL, 1 to interpret LF as EOL.
			Whether to lock a user in their
			Home Directory, hiding full drive
			paths from user. 0 for show full
			path, 1 or NULL to lock user in
LockInHomeDir	VARCHAR(2)	1	Home Directory.
		-	Whether to force all listings to
			lower case, required by some
			mainframe clients. 0 or NULL for
			use true case, 1 to force lower-
LowerCaseFileNames	VARCHAR(2)	NULL	case listings.
			Whether to set modification-time of
			files uploaded by HTTP to the
			modification-time of the source file.
			0 to abandon original time, 1 or
MaintainHTTPUploadTimes	VARCHAR(2)	NULL	NULL to maintain times.
	- ( )	_	Maximum download speed for
MaxSessionDownloadRate	VARCHAR(32)	NULL	sessions initiated by user account.
			Maximum upload speed for
MaxSessionUploadRate	VARCHAR(32)	NULL	sessions initiated by user account.
			Maximum sessions from a single
MaxSessionsIPPerUser	VARCHAR(32)	NULL	IP address utilizing the account.
			Maximum sessions per user
MaxSessionsPerUser	VARCHAR(32)	NULL	account, total.
			Maximum size of an individual file
MaxUploadFileSize	VARCHAR(32)	NULL	upload, in bytes.
			Maximum download speed for
MaxUserDownloadRate	VARCHAR(32)	NULL	user, total.
			Maximum upload speed for user,
MaxUserUploadRate	VARCHAR(32)	NULL	total.
		NULL	Minimum password length
MinPasswordLen	VARCHAR(32)	NULL	permitted for user account.
		NULL	Whether to use natural sorting for
			directory listings. 0 for using
			standard computational listings, 1
NaturalSort	VARCHAR(2)	NULL	or NULL for natural listings.
		NULL	Whether to allow user to change
			password. 0 or NULL for not
PasswordChange	VARCHAR(2)	NULL	permitted, 1 for permitted.
i assivoruonange		NULL	



			Date of last password change for
			account, expressed as time_t
PasswordChangedOn	VARCHAR(32)	NULL	value.
			How many days a password may
PasswordExpiresDays	VARCHAR(32)	NULL	be saved before expiring.
			Contents of email to be sent to
Decoword Decovory EmpilMeconge			users who recover passwords
PasswordRecoveryEmailMessage	VARCHAR(255)	NULL	online. Subject of email to be sent to users
PasswordRecoveryEmailSubject	VARCHAR(255)	NULL	who recover passwords online.
		NOLL	How many days a password may
			be saved before being considered
PasswordStaleDays	VARCHAR(32)	NULL	stale and due for change.
PasswordType	VARCHAR(32)	NULL	
			How many days before triggering
PreDeleteDays	VARCHAR(32)	NULL	account pre-delete event.
	, ,		How many days before triggering
PreDisableDays	VARCHAR(32)	NULL	account pre-disable event.
			Total disk quota space allotted to
Quota	VARCHAR(32)	NULL	user, in bytes.
			Whether to require secure
			passwords, using upper-lower case
Paguire Complex Pessword		NULL	and at least one digit. 0 or NULL to
RequireComplexPassword	VARCHAR(2)	NULL	not require, 1 to require. Whether to require an email
			address for a user account. 0 or
			NULL for not required, or 1 for
RequireEmailAddressSet	VARCHAR(2)	NULL	required.
RequireReverseDNSName	VARCHAR(2)	NULL	
	- ( /		Whether to require secure
			connection from user before login.
			Forces incoming connections to be
			routed through FTPS, SFTP, or
			HTTPS or Serv-U will drop
RequireSecure	VARCHAR(2)	NULL	connection before
ResetGroupStatsAfterRestart	VARCHAR(2)	NULL	Currently unused.
			Whether to reset User statistics
			when Serv-U is restarted. 0 or NULL for do not restart, 1 for
ResetUserStatsAfterRestart	VARCHAR(2)	NULL	restart.
		TOLL	Allows users who have access to
			whole system "/" to list out drives. 0
RootIsDrives	VARCHAR(2)	NULL	or NULL to restrict, 1 to allow.
			Maximum version of SFTP enabled
			for user account. Valid values
SFTPMaxVersion	VARCHAR(32)	NULL	4,5,6.
SMTPAccountName	VARCHAR(255)	NULL	Currently unused.
SMTPFromAddress	VARCHAR(255)	NULL	Currently unused.
SMTPFromName	VARCHAR(255)	NULL	Currently unused.
SMTPPassword	VARCHAR(255)	NULL	Currently unused.
SMTPRequiresLogin	VARCHAR(2)	NULL	Currently unused.
SMTPSSL	VARCHAR(2)	NULL	Currently unused.
0		HOLL	



SMTPServer	VARCHAR(255)	NULL	Currently unused.
SMTPServerPort	VARCHAR(32)	NULL	Currently unused.
SMTPUseSSLCertificate	VARCHAR(2)	NULL	Currently unused.
SSH	VARCHAR(2)	NULL	Whether to enable SFTP for user. 0 for disabled, 1 or NULL for enabled.
SSHAuthType	VARCHAR(32)	NULL	Authentication type to be used to for SSH/SFTP connections. 0 for both public key and password, 1 for public key or password, 2 for public key only, 3 for password only.
		NOLL	Path to the public key file to be
SSHPublicKeyFilePath	VARCHAR(255)	NULL	used for the user account in SSH authentication.
ServerDomainDirAccessFirst	VARCHAR(2)	NULL	Whether to apply Server/Domain Directory Access rules before user/group level rules, used when global rules are used to ban file attachments or file types. 0 or NULL for apply user-level rules first, 1 for apply Domain/Server rules first.
ServerDomanDirAccessFirst		NULL	Number of seconds before
SessTimeoutSeconds	VARCHAR(32)	NULL	individual session is considered idle.
			Text message to be displayed
SignOnMessage	VARCHAR(255)	NULL	upon user login.
SignOnMessageFilePath	VARCHAR(255)	NULL	Path to text file to be displayed for user login.
SupportLink	VARCHAR(255)	NULL	Currently unused.
TimeoutBlockIPSeconds	VARCHAR(32)	NULL	Specify number of seconds to lock user out after session timeout.
TreatWindowsShortCutsAsTarget	VARCHAR(2)	NULL	When enabled, treats Windows shortcuts as their targets in listings. 0 for disabled, 1 for enabled.
WebClientStartupMode	VARCHAR(32)	NULL	What client to start for HTTP/HTTPS sessions. 0 to prompt the user, 1 for Web Client, 2 for FTP Voyager JV.
WindowsShortCutsAsLinks	VARCHAR(2)	NULL	When enabled, treats Windows shortcuts as links. 0 or NULL for disabled, 1 for enabled.
WINDOWSONDI LOUISASLINKS		NOLL	

## UserGroupName - User Groups Table

Each entry in this "N:N" table maps a single user to a single group (using the group name), and visa versa.

Field Name	Data Type	Default	Use
			The name of the table containing membership
TableName	VARCHAR(32)	UserGroupName	information for Serv-U Groups.
			The name of the LoginID (user account) to which
LoginID	VARCHAR(32)		the group membership applies.



SortIndex	VARCHAR(32)	NULL	The order of the group membership int he list for the user account.
GroupName	VARCHAR(32)	NULL	The name of the group to which membership is specified.

## UserDirAccess – User Directory Access Table

These entries map permissions to directories using a path name.

Field Name	Data Type	Default	Use
			The name of the table containing membership
TableName	VARCHAR(32)	UserDirAccess	information for Serv-U Groups.
LoginID	INT(11)	NULL	The name of the account to whom the rule applies.
SortIndex	VARCHAR(32)	NULL	The order of the rule in the user account's list of Directory Access rules.
Dir	VARCHAR(255)	NULL	The path or filepath to which the rule applies.
			The permissions to the directory, in HEX XOR
Access	VARCHAR(32)	NULL	format, see KB1776.
MaxSize	VARCHAR(32)	NULL	The maximum directory size for the directory (optional).
NTUser	VARCHAR(255)	NULL	Windows only - for setting a user account for permissions to a specific directory.
			Windows only - for setting a user password for
NTPassword	VARCHAR(255)	NULL	permissions to a specific directory.
			Windows only - for setting a domain for permissions
NTDomain	VARCHAR(255)	NULL	to a specific directory.

### **UserVirtualPath - User Virtual Path Table**

These entries each define a single virtual path for a single user.

Field Name	Data Type	Default	Use
			Name of the table containing Virtual Paths for
TableName	VARCHAR(32)	UserVirtualPath	users.
			The name of the account to whom the Virtual
LoginID	VARCHAR(255)	NULL	Path applies.
PhysicalPath	VARCHAR(255)	NULL	The physical path to be mapped.
			The virtual path (typically in %HOME%\folder
VirtualPath	VARCHAR(255)	NULL	format).
			Whether to include the Virtual Path in "Maximum
			directory size" calculations. 0 or NULL to disable,
IncludeInMaxSize	VARCHAR(2)	NULL	1 to enable.

<u>UserIPAccess - User IP Access Table</u> These entries each define an IP access rules for a single user.

Field Name	Data Type	Default	Use
			Name of the table containing IP Access rules for
TableName	VARCHAR(32)	UserIPAccess	users.
			The name of the account to whom the IP Access rule
LoginID	VARCHAR(255)	NULL	applies.
SortIndex	INT(11)	NULL	The order of the IP Access rule for the user account.
			The IP Address or range to be permitted or denied.
IP	VARCHAR(255)	NULL	IPv4, IPv6, wildcards, and CIDR blocks permitted.
Allow	VARCHAR(2)	0	Whether to allow or deny the IP address or range. 0



			for deny, 1 for allow.
Description	VARCHAR(255)	NULL	Text description of the rule.

### **UserSUEvent - User Event Table**

These entries each define an event for a single user.

Field Name	Data Type	Default	Use
TableName	VARCHAR(32)	UserSUEvent	Name of the table containing Events for users.
			The name of the account to whom the Event
LoginID	VARCHAR(255)	NULL	applies.
			Whether the Event is enabled. 1 for enabled, 0
Enabled	VARCHAR(2)	NULL	for disabled.
EventID	VARCHAR(32)	NULL	The internal Serv-U ID of the event.
EventName	VARCHAR(255)	NULL	The name of the event.
Description	VARCHAR(255)	NULL	The description of the event.
			The type of action to be taken. NULL for email,
Action	VARCHAR(32)	NULL	1 for balloon tip, 2 for execute command.
			For emails, the subject of the email. For balloon
Data1	VARCHAR(255)	NULL	tips, the subject of the balloon tip.
			For emails, the body of the email. For balloon
Data2	VARCHAR(255)	NULL	tips, the text in the balloon tip.
EmailToAddress	VARCHAR(255)	NULL	For emails, the recipients of the email.
EmailToAddressBCC	VARCHAR(255)	NULL	For emails, the BCC recipients of the email.
			For execute command events, the path to the
ExeFilePath	VARCHAR(255)	NULL	EXE or binary file to execute.
			For execute command events, the number of
			seconds to wait after event trigger to run
ExecWaitSecs	VARCHAR(32)	NULL	command.

# User Ratio Configuration and Tracking Tables These tables all control or store an element of Serv-U's upload/download transfer ratios.

## UserUIDIRatioFreeFile - User Ratio-Free Files Table

Field Name	Data Type	Default	Use
			Name of the table containing Ratio-free files for
TableName	VARCHAR(32)	UserUIDIRatioFreeFile	users.
			The name of the account to whom the ratio-free
LoginID	VARCHAR(255)	NULL	file mask applies.
			The path or filename of the file or filetype
			against which upload and download ratios will
Mask	VARCHAR(255)	NULL	not be applied.

## UserFilesUIDIRatio - Per User File Ratio Table

Field Name	Data Type	Default	Use
			Name of the table containing Ratio file credits
TableName	VARCHAR(32)	UserFilesUIDIRatio	for users, which apply across sessions.
			The name of the account to whom the Ratio
LoginID	VARCHAR(255)	NULL	credit applies.
			The amount of file credit applied for file
			uploads, relative to the number of files
UploadValue	VARCHAR(32)	NULL	uploaded.



DownloadValue	VARCHAR(32)	NULL	The amount of file credit deducted for file downloads, relative to the number of files downloaded.
Credit	VARCHAR(32)	NULL	The total amount of transfer credit available to the user account, in files, regardless of file size.

## UserBytesUIDIRatio - Per User Byte Ratio Table

Field Name	Data Type	Default	Use
			Name of the table containing Ratio byte credits
TableName	VARCHAR(32)	UserBytesUIDIRatio	for users, which apply across sessions.
LoginID	VARCHAR(255)	NULL	The name of the account to whom the Ratio credit applies.
			The amount of file credit applied for file uploads, relative to the number of bytes
UploadValue	VARCHAR(32)	NULL	uploaded.
DownloadValue	VARCHAR(32)	NULL	The amount of file credit deducted for file downloads, relative to the number of bytes downloaded.
Download value			The total amount of transfer credit available to the user account, in bytes, regardless of the
Credit	VARCHAR(32)	NULL	number of files.

## UserSessionFilesUIDIRatio - Per Session Files Ratio Table

Field Name	Data Type	Default	Use
			Name of the table containing Ratio file
			credits for users, which do not apply
TableName	VARCHAR(32)	UserSessionFilesUIDIRatio	across sessions.
			The name of the account to whom the
LoginID	VARCHAR(255)	NULL	Ratio credit applies.
			The amount of file credit applied for file
			uploads, relative to the number of files
UploadValue	VARCHAR(32)	NULL	uploaded.
			The amount of file credit deducted for
			file downloads, relative to the number
DownloadValue	VARCHAR(32)	NULL	of files downloaded.
			The total amount of transfer credit
			available to the user account, in files,
Credit	VARCHAR(32)	NULL	regardless of file size.

## UserSessionBytesUIDIRatio - Per Session Bytes Ratio Table

Field Name	Data Type	Default	Use
			Name of the table containing Ratio
			byte credits for users, which do not
TableName	VARCHAR(32)	UserSessionBytesUIDIRatio	apply across sessions.
			The name of the account to whom the
LoginID	VARCHAR(255)	NULL	Ratio credit applies.
			The amount of file credit applied for file
			uploads, relative to the number of
UploadValue	VARCHAR(32)	NULL	bytes uploaded.
			The amount of file credit deducted for
DownloadValue	VARCHAR(32)	NULL	file downloads, relative to the number



			of bytes downloaded.
Credit	VARCHAR(32)	NULL	The total amount of transfer credit available to the user account, in bytes, regardless of the number of files.

# UserAttributeAvailability - User Attribute Table This table is used to hold other user-specific attributes.

Field Name	Data Type	Default	Use
TableName	VARCHAR(32)	UserAttributeAvailability	The name of the table containing User- level attribute availability.
LoginID	VARCHAR(255)	NULL	The name of the account to whom the attribute availability limit applies.
Attribute	VARCHAR(32)	NULL	The attribute ID of the the attribute that will be limited. The attribute ID is equal to the text name of the attribute in Serv- U.
LimitToTimeOfDay	VARCHAR(32)	NULL	Whether to restrict the limit to certain hours of the day. 0 or NULL for do not limit, 1 to limit.
StartTime	VARCHAR(32)	NULL	Start time of the day to begin restrictions, in milliseconds from the start of the day.
EndTime	VARCHAR(32)	NULL	End time of day to end restrictions, in seconds from start of the day.
Sunday	VARCHAR(32)	1	1 to enable limit on this day of week, 0 to disable limit on this day of week.
Monday	VARCHAR(32)	1	1 to enable limit on this day of week, 0 to disable limit on this day of week.
Tuesday	VARCHAR(32)	1	1 to enable limit on this day of week, 0 to disable limit on this day of week.
Wednesday	VARCHAR(32)	1	1 to enable limit on this day of week, 0 to disable limit on this day of week.
Thursday	VARCHAR(32)	1	1 to enable limit on this day of week, 0 to disable limit on this day of week.
Friday	VARCHAR(32)	1	1 to enable limit on this day of week, 0 to disable limit on this day of week.
Saturday	VARCHAR(32)	1	1 to enable limit on this day of week, 0 to disable limit on this day of week.

# <u>SUGroups – Group Info Table</u> This is the central groups table – one main entry for each group.

Field Name	Data Type	Default	Use
TableName	VARCHAR(32)	SUGroups	Name of the table containing Serv- U groups.
FileTransferStats_BytesUploaded	VARCHAR(32)	NULL	Number of bytes uploaded by group, for use with Ratios & Quotas.
FileTransferStats_BytesDownloaded	VARCHAR(32)	NULL	Number of bytes downloaded by group, for use with Ratios & Quotas.



			Number of files uploaded by group,
FileTransferStats_FilesUploaded	VARCHAR(32)	NULL	for use with Ratios & Quotas.
			Number of files downloaded by
			group, for use with Ratios &
FileTransferStats_FilesDownloaded	VARCHAR(32)	NULL	Quotas.
			Start time of statistical tracking of
			group, expressed as a time_t
StatisticsStartTime	VARCHAR(32)	NULL	value.
<u>-</u> .			Last time a user in the group
LastLoginTime	VARCHAR(32)	NULL	logged in to Serv-U.
Level and the second			Last time a user in the group
LastLogoutTime	VARCHAR(32)	NULL	logged out of Serv-U. Total number of times members in
Loging		NULL	
Logins	VARCHAR(32)	NULL	the group logged in. Total number of times members in
Logouts	VARCHAR(32)	NULL	the group logged out.
		NOLL	Maximum number of concurrent
MostConcurrentLogins	VARCHAR(32)	NULL	sessions recorded for the group.
			Total number of seconds users in
TotalLoginDurationSecs	VARCHAR(32)	NULL	the group have been logged in.
	- (- /		Total number of seconds of longest
LongestLoginDurationSecs	VARCHAR(32)	NULL	session for a user within the group.
			Total number of seconds of
			shortest session for a user within
ShortestLoginDurationSecs	VARCHAR(32)	NULL	the group.
RtServerStartTime	VARCHAR(32)	NULL	Internal Serv-U statistics tracking.
RtFilesUploadRateTotal	VARCHAR(32)	NULL	Internal Serv-U statistics tracking.
RtFilesDownloadRateTotal	VARCHAR(32)	NULL	Internal Serv-U statistics tracking.
RtDailyCount	VARCHAR(255)	NULL	Internal Serv-U statistics tracking.
RtPreviousCount	VARCHAR(32)	NULL	Internal Serv-U statistics tracking.
RtPreviousSeconds	VARCHAR(32)	NULL	Internal Serv-U statistics tracking.
RtPreviousMaxSeconds	VARCHAR(32)	NULL	Internal Serv-U statistics tracking.
RtPreviousMaxConcurrent	VARCHAR(32)	NULL	Internal Serv-U statistics tracking.
		Group	internal berv o statistics tracking.
GroupName	VARCHAR(255)	Name	Name of the group.
Description	VARCHAR(255)	NULL	Description of the group.
	VAROLAR(200)	NOLL	Whether to apply Group-level rules
			before User-level Directory Access
			rules. 0 or NULL to apply User-
			level first, 1 to apply Group-level
ApplyDirAccessRulesAboveUser	VARCHAR(2)	NULL	first.
			Administrative privileges for user, if
			applicable. 0 for no privilege, 1 for
			Domain Administrator, 2 for Server
			Administrator, 3 for Read-Only
			Domain Administrator, 4 for Read-
			Only System Administrator, 5 for
AdminType	VARCHAR(32)	NULL	Group Administrator, 6 for Read- Only Group Administrator.
			Date of last password change for
			account, expressed as time_t
PasswordChangedOn	VARCHAR(32)	time_t()	value.
			· · · · · · ·



			Password encryption level. 0 for
			unencrypted, 1 for one-way
PasswordEncryptMode	VARCHAR(32)	1	encryption, 2 for two-way encryption.
		1	Whether password is UTF-8
			encoded or not. 0 for not encoded,
PasswordUTF8	VARCHAR(32)	NULL	1 or NULL for encoded
SKeylter	VARCHAR(32)	NULL	Internal Serv-U SKEY iterator.
SKeySeed	VARCHAR(255)	NULL	Internal Serv-U SKEY seed.
			Whether password change is required at next login. 0 or NULL
RequirePasswordChange	VARCHAR(2)	NULL	for not required, 1 for required.
RequirerasswordChange		NOLL	Whether event for stale password
			has been fired. 0 or NULL for not
PasswordStaleEventFired	VARCHAR(2)	NULL	fired, 1 for fired.
		NOLL	Whether account pre-disable event
			has been fired. 0 or NULL for not
PreDisableEventFired	VARCHAR(2)	NULL	fired, 1 for fired.
			Whether account pre-delete event
			has been fired. 0 or NULL for not
PreDeleteEventFired	VARCHAR(2)	NULL	fired, 1 for fired.
			Set to the Organization, or
			"Collection", the user belongs to,
Organization	VARCHAR(255)	NULL	for GUI sorting.
		Acct	By default, encrypt passwords per
Password	VARCHAR(255)	Password	KB1177
	. ,		Set to the full name of the user
FullName	VARCHAR(255)	NULL	owning the account.
			Set to description of the user
Description	VARCHAR(255)	NULL	account.
			Set to the contact email address for
EmailAddress	VARCHAR(255)	NULL	account.
			Whether user is set to
			automatically disable or delete at a
			future date. 0 for permanent
			account, 1 for automatically
Тура	VARCHAR(32)	NULL	disable, 2 for automatically delete account in the future.
Туре		NULL	Time for the user account to expire,
ExpiresOn	VARCHAR(32)	NULL	expressed as time_t value.
			Whether user-disabled event has
			been fired. 0 or NULL for not fired,
DisabledEventFired	VARCHAR(2)	NULL	1 for fired.
			Number of bytes used by account
QuotaBytes	VARCHAR(32)	NULL	when quotas in place.
· · · · · · · · · · · · · · · · · · ·	(/		Whether to allow changes of IP
			address during HTTP sessions.
			Required for mobile access. 0 for
AllowHTTPIPAddressChange	VARCHAR(2)	NULL	disabled, 1 or NULL for enabled.
			Whether to allow media playback
			on HTTP sessions. 0 for disabled,
AllowHTTPMediaPlayback	VARCHAR(2)	NULL	1 or NULL for enabled.



			Whether to allow user to delete
			files during rename operations
			where the target file name exists. 0
			to disable rename overwrite, 1 or
AllowRenameOverwrite	VARCHAR(2)	NULL	NULL to enable overwrite.
			Whether to allow Web Client Pro
			for Silver/Gold Edition users. 0 for
AllowWebClientPro	VARCHAR(2)	NULL	disabled, 1 or NULL for enabled.
			Whether to allow user to log in regardless of security and IP
			Access requirements. 0 or NULL
AlwaysAllowLogin	VARCHAR(2)	NULL	for disabled, 1 for enabled.
			Whether to block anti-timeout
			operations like NOOP during
			sessions, to prevent sessions from
			being marked as idle. 0 or NULL
			for allow anti-timeout, 1 for do not
BlockAntiTimeout	VARCHAR(2)	NULL	allow anti-timeout.
			Whether to check directory sizes
			during upload for possible directory
Oh a al-Dir Cirra Davia dia alla			size violations. 0 or NULL for
CheckDirSizePeriodically	VARCHAR(2)	NULL	disabled, 1 for enabled. Whether to convert URL-encoded
			characters like %23 into their ASCII
			equivalents during transfers. 0 to
ConvertURLChars	VARCHAR(2)	NULL	not encode, 1 or NULL to encode.
			Whether to delete files only
			partially uploaded by user. 0 or
			NULL for do not delete, 1 for
DeletePartiallyUploaded	VARCHAR(2)	NULL	delete.
DirMessage	VARCHAR(255)	NULL	
EmailAddressSet	VARCHAR(2)	NULL	Email address for user account.
			Whether account is allowed to
			recover password. 0 or NULL for
EnablePasswordRecovery	VARCHAR(2)	NULL	disabled, 1 for enabled.
			Whether account is enabled for
Enchlad		1	login access. 0 for disabled, 1 for
Enabled	VARCHAR(2)	1	enabled. Whether to enable FTP/FTPS for
			user. 0 for disabled, 1 or NULL for
FTP	VARCHAR(2)	NULL	enabled.
			Linux group owner for uploaded
FileGroup	VARCHAR(255)	NULL	files, applies to Linux only.
1			Linux user owner for uploaded
FileOwner	VARCHAR(255)	NULL	files, applies to Linux only.
	, , , , , , , , , , , , , , , , , , ,		Whether to enable HTTP/HTTPS
			for login access. 0 for disabled, 1
НТТР	VARCHAR(2)	NULL	or NULL for enabled.
			Whether to hide the "Compressed"
			fact from file listings. 0 or NULL to
			show compression fact, 1 to hide
HideCompressedState	VARCHAR(2)	NULL	compression fact.



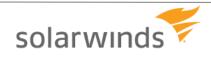
HideEncryptedStateVARCHAR(2)NULLWhether to hide the "Encrypted fact from file listings. 0 or NUL show encryption fact, 1 to hide encryption fact.HideHiddenVARCHAR(2)NULLWhether to hide "Hidden" files folders from Directory Listings. NULL to show hidden files/folders.HideHiddenVARCHAR(2)NULL1 to hide hidden files/folders.HidePasswordInLogVARCHAR(2)NULLWhether to obfuscate password serv-U logs. 0 to show password in cleartest, 1 or NULL to hide passwords.HomeDirVARCHAR(255)NULLHome directory for the user account, as either a Windows volume path or a UNC path. M require escape characters depending on database engine How many seconds a session	to and 0 or ers, ds in ords ocal
HideEncryptedStateVARCHAR(2)NULLshow encryption fact, 1 to hide encryption fact.HideHiddenVARCHAR(2)WullWhether to hide "Hidden" files folders from Directory Listings. NULL to show hidden files/folders.HideHiddenVARCHAR(2)NULL1 to hide hidden files/folders.HidePasswordInLogVARCHAR(2)NULL985words.HomeDirVARCHAR(2)NULL985words.HomeDirVARCHAR(255)NULL985words.	and 0 or ers, ds in ords ocal
HideEncryptedState       VARCHAR(2)       NULL       encryption fact.         HideEncryptedState       Whether to hide "Hidden" files folders from Directory Listings. NULL to show hidden files/fold         HideHidden       VARCHAR(2)       NULL       1 to hide hidden files/folders.         HidePasswordInLog       VARCHAR(2)       NULL       9 whether to obfuscate password in cleartest, 1 or NULL to hide         HidePasswordInLog       VARCHAR(2)       NULL       9 passwords.         HomeDir       VARCHAR(255)       NULL       9 passwords.	and 0 or ers, ds in ords ocal
HideHiddenVARCHAR(2)NULLWhether to hide "Hidden" files folders from Directory Listings. NULL to show hidden files/folders.HideHiddenVARCHAR(2)NULL1 to hide hidden files/folders.HidePasswordInLogVARCHAR(2)NULLServ-U logs. 0 to show passwor in cleartest, 1 or NULL to hide passwords.HidePasswordInLogVARCHAR(2)NULLPasswords.Home directory for the user account, as either a Windows volume path or a UNC path. M require escape characters depending on database engine	0 or ers, ds in ords ocal
HideHidden       VARCHAR(2)       NULL       NULL to show hidden files/folders.         HideHidden       VARCHAR(2)       NULL       1 to hide hidden files/folders.         Whether to obfuscate password       Serv-U logs. 0 to show password       in cleartest, 1 or NULL to hide         HidePasswordInLog       VARCHAR(2)       NULL       passwords.         Home directory for the user       account, as either a Windows       volume path or a UNC path. M         HomeDir       VARCHAR(255)       NULL       depending on database engine	ers, ds in ords ocal
HideHiddenVARCHAR(2)NULL1 to hide hidden files/folders.HideHiddenWhether to obfuscate password Serv-U logs. 0 to show password in cleartest, 1 or NULL to hide passwords.Whether to obfuscate password in cleartest, 1 or NULL to hide passwords.HidePasswordInLogVARCHAR(2)NULLPasswords.Home directory for the user account, as either a Windows volume path or a UNC path. M require escape characters depending on database engine	ds in ords ocal
HidePasswordInLog       VARCHAR(2)       NULL       Whether to obfuscate password Serv-U logs. 0 to show password in cleartest, 1 or NULL to hide passwords.         HidePasswordInLog       VARCHAR(2)       NULL       passwords.         Home directory for the user account, as either a Windows volume path or a UNC path. M require escape characters depending on database engine	ords
HidePasswordInLog       VARCHAR(2)       NULL       Serv-U logs. 0 to show password in cleartest, 1 or NULL to hide passwords.         HidePasswordInLog       VARCHAR(2)       NULL       passwords.         Home directory for the user account, as either a Windows volume path or a UNC path. M require escape characters depending on database engine	ords
HidePasswordInLog       VARCHAR(2)       NULL       in cleartest, 1 or NULL to hide passwords.         HidePasswordInLog       VARCHAR(2)       NULL       Home directory for the user account, as either a Windows volume path or a UNC path. M require escape characters depending on database engine	ocal
HidePasswordInLog         VARCHAR(2)         NULL         passwords.           Home directory for the user account, as either a Windows volume path or a UNC path. M require escape characters depending on database engine	
Home directory for the user         account, as either a Windows         volume path or a UNC path. M         require escape characters         depending on database engine	
HomeDir       VARCHAR(255)       NULL       account, as either a Windows volume path or a UNC path. Mindows volume path or a UNC path. Mindows require escape characters depending on database engined	
HomeDir       VARCHAR(255)       NULL       volume path or a UNC path. M	
HomeDirVARCHAR(255)NULLrequire escape characters depending on database engine	ay
HomeDir VARCHAR(255) NULL depending on database engine	
	د
perform no actions before it is	nay
considered idle. Interacts with	
BlockAntiTimeout limit to deter	mine
whether clients may keep sess	ions
IdleTimeSeconds VARCHAR(32) NULL alive.	
Whether to include response of	
in every line of multi-line mess	
responses in FTP. 0 or NULL t	o not
IncludeRespCodesInMsgFiles VARCHAR(2) NULL include, 1 to include.	
Whether to interpret LF (Line F	
as an End Of Line (EOL) chara in text files. Useful for interacti	
with some mainframe systems	
NULL to not interpret LF as EC	
InterpretLFasEOL VARCHAR(2) NULL to interpret LF as EOL.	· <b>_</b> , ·
Whether to lock a user in their	
Home Directory, hiding full driv	e
paths from user. 0 for show ful	
path, 1 or NULL to lock user in	
LockInHomeDir         VARCHAR(2)         1         Home Directory.	
Whether to force all listings to	
lower case, required by some	
mainframe clients. 0 or NULL f	
LowerCaseFileNames VARCHAR(2) NULL use true case, 1 to force lower case listings.	
LowerCaseFileNames         VARCHAR(2)         NULL         case listings.           Whether to set modification-tin         Whether to set modification-tin	
files uploaded by HTTP to the	
mes uploaded by TTTT to the modification-time of the source	file
0 to abandon original time, 1 o	
MaintainHTTPUploadTimes VARCHAR(2) NULL NULL to maintain times.	
Maximum download rate for al	
MaxGroupDownloadRate VARCHAR(32) NULL members of group.	
Maximum sessions for all men	bers
MaxGroupSessions VARCHAR(32) NULL of group.	
Maximum sessions per IP add	ess
MaxGroupSessionsIP         VARCHAR(32)         NULL         for all members of group.	



			Maximum upload rate for all
MaxGroupUploadRate	VARCHAR(32)	NULL	members of group.
		NOLL	Maximum download speed for
MaxSessionDownloadRate	VARCHAR(32)	NULL	sessions initiated by user account.
			Maximum upload speed for
MaxSessionUploadRate	VARCHAR(32)	NULL	sessions initiated by user account.
			Maximum sessions from a single IP
MaxSessionsIPPerUser	VARCHAR(32)	NULL	address utilizing the account.
			Maximum sessions per user
MaxSessionsPerUser	VARCHAR(32)	NULL	account, total.
			Maximum size of an individual file
MaxUploadFileSize	VARCHAR(32)	NULL	upload, in bytes.
			Maximum download speed for
MaxUserDownloadRate	VARCHAR(32)	NULL	user, total.
			Maximum upload speed for user,
MaxUserUploadRate	VARCHAR(32)	NULL	total.
			Minimum password length
MinPasswordLen	VARCHAR(32)	NULL	permitted for user account.
			Maximum download speed for
MaxSessionDownloadRate	VARCHAR(32)	NULL	sessions initiated by user account.
			Maximum upload speed for
MaxSessionUploadRate	VARCHAR(32)	NULL	sessions initiated by user account.
			Maximum sessions from a single IP
MaxSessionsIPPerUser	VARCHAR(32)	NULL	address utilizing the account.
			Maximum sessions per user
MaxSessionsPerUser	VARCHAR(32)	NULL	account, total.
			Maximum size of an individual file
MaxUploadFileSize	VARCHAR(32)	NULL	upload, in bytes.
			Maximum download speed for
MaxUserDownloadRate	VARCHAR(32)	NULL	user, total.
			Maximum upload speed for user,
MaxUserUploadRate	VARCHAR(32)	NULL	total.
·			Minimum password length
MinPasswordLen	VARCHAR(32)	NULL	permitted for user account.
			Whether to use natural sorting for
			directory listings. 0 for using
			standard computational listings, 1
NaturalSort	VARCHAR(2)	NULL	or NULL for natural listings.
			Whether to allow user to change
			password. 0 or NULL for not
PasswordChange	VARCHAR(2)	NULL	permitted, 1 for permitted.
			Date of last password change for
			account, expressed as time_t
PasswordChangedOn	VARCHAR(32)	NULL	value.
			How many days a password may
PasswordExpiresDays	VARCHAR(32)	NULL	be saved before expiring.
			Contents of email to be sent to
			users who recover passwords
PasswordRecoveryEmailMessage	VARCHAR(255)	NULL	online.
			Subject of email to be sent to users
PasswordRecoveryEmailSubject	VARCHAR(255)	NULL	who recover passwords online.
			How many days a password may
PasswordStaleDays	VARCHAR(32)	NULL	be saved before being considered



			stale and due for change.
PasswordType	VARCHAR(32)	NULL	
PreDeleteDays	VARCHAR(32)	NULL	How many days before triggering account pre-delete event.
PreDisableDays	VARCHAR(32)	NULL	How many days before triggering account pre-disable event.
Quota	VARCHAR(32)	NULL	Total disk quota space allotted to user, in bytes.
RequireComplexPassword	VARCHAR(2)	NULL	<ul> <li>Whether to require secure passwords, using upper-lower case and at least one digit. 0 or NULL to not require, 1 to require.</li> <li>Whether to require an email</li> </ul>
RequireEmailAddressSet	VARCHAR(2)	NULL	address for a user account. 0 or NULL for not required, or 1 for required.
RequireReverseDNSName	VARCHAR(2)	NULL	
RequireSecure	VARCHAR(2)	NULL	Whether to require secure connection from user before login. Forces incoming connections to be routed through FTPS, SFTP, or HTTPS or Serv-U will drop connection before
ResetGroupStatsAfterRestart	VARCHAR(2)	NULL	Currently unused.
ResetUserStatsAfterRestart	VARCHAR(2)	NULL	Whether to reset User statistics when Serv-U is restarted. 0 or NULL for do not restart, 1 for restart.
RootIsDrives	VARCHAR(2)	NULL	Allows users who have access to whole system "/" to list out drives. 0 or NULL to restrict, 1 to allow.
SFTPMaxVersion	VARCHAR(32)	NULL	Maximum version of SFTP enabled for user account. Valid values 4,5,6.
SMTPAccountName	VARCHAR(255)	NULL	Currently unused.
SMTPFromAddress	VARCHAR(255)	NULL	Currently unused.
SMTPFromName	VARCHAR(255)	NULL	Currently unused.
SMTPPassword	VARCHAR(255)	NULL	Currently unused.
SMTPRequiresLogin	VARCHAR(2)	NULL	Currently unused.
SMTPSSL	VARCHAR(2)	NULL	Currently unused.
SMTPServer	VARCHAR(255)	NULL	Currently unused.
SMTPServerPort	VARCHAR(32)	NULL	Currently unused.
SMTPUseSSLCertificate	VARCHAR(2)	NULL	Currently unused.
SSH	VARCHAR(2)	NULL	Whether to enable SFTP for user. 0 for disabled, 1 or NULL for enabled.
SSHAuthType	VARCHAR(32)	NULL	Authentication type to be used to for SSH/SFTP connections. 0 for both public key and password, 1 for public key or password, 2 for public key only, 3 for password only.



			Path to the public key file to be used for the user account in SSH
SSHPublicKeyFilePath	VARCHAR(255)	NULL	authentication.
			Whether to apply Server/Domain
			Directory Access rules before
			user/group level rules, used when global rules are used to ban file
			attachments or file types. 0 or
			NULL for apply user-level rules
			first, 1 for apply Domain/Server
ServerDomainDirAccessFirst	VARCHAR(2)	NULL	rules first.
			Number of seconds before
			individual session is considered
SessTimeoutSeconds	VARCHAR(32)	NULL	idle.
SignOnMessage	VARCHAR(255)	NULL	Text message to be displayed upon user login.
Cigricillicoodge		NOLL	Path to text file to be displayed for
SignOnMessageFilePath	VARCHAR(255)	NULL	user login.
SupportLink	VARCHAR(255)	NULL	Currently unused.
			Specify number of seconds to lock
TimeoutBlockIPSeconds	VARCHAR(32)	NULL	user out after session timeout.
			When enabled, treats Windows
TreatWindowsShortCutsAsTarget	VARCHAR(2)	NULL	shortcuts as their targets in listings. 0 for disabled, 1 for enabled.
TreatwindowsonoricutsAstrarget		NOLL	What client to start for
			HTTP/HTTPS sessions. 0 to
			prompt the user, 1 for Web Client,
WebClientStartupMode	VARCHAR(32)	NULL	2 for FTP Voyager JV.
			When enabled, treats Windows
			shortcuts as links. 0 or NULL for
WindowsShortCutsAsLinks	VARCHAR(2)	NULL	disabled, 1 for enabled.

# GroupDirAccess - Group Directory Access Table These entries map permissions to directories using a path name.

Field Name	Data Type	Default	Use
TableName	VARCHAR(32)	GroupDirAccess	The name of the table containing Directory Access information for Serv-U Groups.
GroupName	INT(11)	NULL	The name of the group to whom the rule applies.
SortIndex	VARCHAR(32)	NULL	The order of the rule in the group's list of Directory Access rules.
Dir	VARCHAR(255)	NULL	The path or filepath to which the rule applies.
Access	VARCHAR(32)	NULL	The permissions to the directory, in HEX XOR format, see KB1776.
MaxSize	VARCHAR(32)	NULL	The maximum directory size for the directory (optional).
NTUser	VARCHAR(255)	NULL	Windows only - for setting a user account for permissions to a specific directory.
NTPassword	VARCHAR(255)	NULL	Windows only - for setting a user password for permissions to a specific directory.
NTDomain	VARCHAR(255)	NULL	Windows only - for setting a domain for permissions to a specific directory.



## GroupVirtualPath - Group Virtual Path Table

These entries each define a single virtual path for a single group.					
Field Name	Data Type	Default	Use		
TableName	VARCHAR(32)	GroupVirtualPath	Name of the table containing Virtual Paths for groups.		
LoginID	VARCHAR(255)	NULL	The name of the group to which the Virtual Path applies.		
PhysicalPath	VARCHAR(255)	NULL	The physical path to be mapped.		
VirtualPath	VARCHAR(255)	NULL	The virtual path (typically in %HOME%\folder format).		
IncludeInMaxSize	VARCHAR(2)	NULL	Whether to include the Virtual Path in "Maximum directory size" calculations. 0 or NULL to disable, 1 to enable.		

# GroupIPAccess - Group IP Access Table These entries each define an IP access rules for a single user.

Field Name	Data Type	Default	Use
			Name of the table containing IP Access rules for
TableName	VARCHAR(32)	GroupIPAccess	groups.
			The name of the account to whom the IP Access
LoginID	VARCHAR(255)	NULL	rule applies.
			The order of the IP Access rule for the group
SortIndex	INT(11)	NULL	account.
			The IP Address or range to be permitted or denied.
IP	VARCHAR(255)	NULL	IPv4, IPv6, wildcards, and CIDR blocks permitted.
			Whether to allow or deny the IP address or range. 0
Allow	VARCHAR(2)	0	for deny, 1 for allow.
Description	VARCHAR(255)	NULL	Text description of the rule.

# **GroupSUEvent - Group Events Table** These entries each define an event for a single group.

Field Name	Data Type	Default	Use
			Name of the table containing events for
TableName	VARCHAR(32)	GroupSUEvent	groups.
			The name of the group to which the rule
GroupName	VARCHAR(255)	NULL	applies.
			Whether the Event is enabled. 1 for enabled,
Enabled	VARCHAR(2)	NULL	0 for disabled.
EventID	VARCHAR(32)	NULL	The internal Serv-U ID of the event.
EventName	VARCHAR(255)	NULL	The name of the event.
Description	VARCHAR(255)	NULL	The description of the event.
			The type of action to be taken. NULL for
			email, 1 for balloon tip, 2 for execute
Action	VARCHAR(32)	NULL	command.
			For emails, the subject of the email. For
Data1	VARCHAR(255)	NULL	balloon tips, the subject of the balloon tip.
			For emails, the body of the email. For balloon
Data2	VARCHAR(255)	NULL	tips, the text in the balloon tip.



EmailToAddress	VARCHAR(255)	NULL	For emails, the recipients of the email.
EmailToAddressBCC	VARCHAR(255)	NULL	For emails, the BCC recipients of the email.
ExeFilePath	VARCHAR(255)	NULL	For execute command events, the path to the EXE or binary file to execute.
ExecWaitSecs	VARCHAR(32)	NULL	For execute command events, the number of seconds to wait after event trigger to run command.

## Group Ratio Configuration Tables

These tables permit inheritable ratio settings for Serv-U's upload/download transfer ratios. Note that ratio statistics are NOT tracked at the group level – this only every happens at the user level.

### **GroupUIDIRatioFreeFile**

Field			
Name	Data Type	Default	Use
			Name of the table containing Ratio-free files
TableName	VARCHAR(32)	GroupUIDIRatioFreeFile	for groups.
			The name of the group to which the ratio-free
LoginID	VARCHAR(255)	NULL	file mask applies.
			The path or filename of the file or filetype
			against which upload and download ratios will
Mask	VARCHAR(255)	NULL	not be applied.

## GroupAttributeAvailability - Group Attribute Table

This table is used to hold other group-specific attributes.

Field Name	Data Type	Default	Use
	2.		The name of the table containing
TableName	VARCHAR(32)	GroupAttributeAvailability	Group-level attribute availability.
			The name of the group to which the
LoginID	VARCHAR(255)	NULL	attribute availability limit applies.
			The attribute ID of the the attribute
			that will be limited. The attribute ID is
A			equal to the text name of the attribute
Attribute	VARCHAR(32)	NULL	in Serv-U.
			Whether to restrict the limit to certain
			hours of the day. 0 or NULL for do not
LimitToTimeOfDay	VARCHAR(32)	NULL	limit, 1 to limit.
			Start time of the day to begin
Ctort Time		NU U I	restrictions, in milliseconds from the
StartTime	VARCHAR(32)	NULL	start of the day.
En d'Eine e		NU U 1	End time of day to end restrictions,
EndTime	VARCHAR(32)	NULL	inmilli seconds from start of the day.
Quarday			1 to enable limit on this day of week, 0
Sunday	VARCHAR(32)	1	to disable limit on this day of week.
N4			1 to enable limit on this day of week, 0
Monday	VARCHAR(32)	1	to disable limit on this day of week.
			1 to enable limit on this day of week, 0
Tuesday	VARCHAR(32)	1	to disable limit on this day of week.
			1 to enable limit on this day of week, 0
Wednesday	VARCHAR(32)	1	to disable limit on this day of week.
Thursday	VARCHAR(32)	1	1 to enable limit on this day of week, 0



			to disable limit on this day of week.
Friday	VARCHAR(32)	1	1 to enable limit on this day of week, 0 to disable limit on this day of week.
			1 to enable limit on this day of week, 0
Saturday	VARCHAR(32)	1	to disable limit on this day of week.



## Notices

This document is provided for use with the setup and maintenance of the Serv-U File Server. This manual is provided "AS IS" and without warranties as to the accuracy of the information or any other warranties whether expressed or implied. Because of the various hardware and software environments into which Serv-U ® may be put, NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS OFFERED.

Good data processing practice dictates that any new program should be thoroughly tested by the user with non-critical data before relying on it. The user must assume the entire risk of using the program. ANY LIABILITY OF THE SELLER WILL BE LIMITED EXCLUSIVELY TO PRODUCT REPLACEMENT OR, AT THE SELLER'S DISCRETION, A REFUND OF PURCHASE PRICE.

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