

# SMGREC

**SMG Gateway Recording Server** 

# **User Manual**

Version 1.0.0

Synway Information Engineering Co., Ltd www.synway.net



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# **Revision History**

Version	Date	Comments
Version 1.0.0	2017-8	Initial publication

**Note:** Please visit our website <u>http://www.synway.net</u> to obtain the latest version of this document.



# **Chapter 1 Product Introduction**

Thank you for choosing the SMG series recording server (hereinafter referred to as 'SMGREC server'). The SMGREC server provides the features of recording the communication data on digital gateways, saving them into files, querying and doing statistics on them, supporting authority management, quick data insertion and inquiry, file download, etc.. What's more, it allows online management, that is, users can do such operations as modifying configurations, checking real-time status, querying recording files all through the WEB. The SMGREC server has the capability to record the communication data on multiple digital gateways simultaneously.

# **1.1 Typical Application**



Figure 1-1 Typical Application

# 1.2 Feature List

Feature	Description
	Support of query with single or multiple conditions
	Query conditions include caller number, called number, recording time, recording
Popording Inquiry	length, call direction, etc.
Recording inquiry	Query results can be exported to Excel
	Remarks can be added on recording items
	Recording files can be played or downloaded
	Support of statistics with single or multiple conditions, including: caller number,
Statistical Report	called number, recording time, call direction, recording length, etc.
	Statistical reports can be exported to excel



User Management	User information can be added, deleted or modified. There is no limit on the number of system users
	Different authorities can be customized for different WEB users
Disk Management	Support of setting the reserved space of disk and the path for automatic disk backup
Recording Authentication	Support of recording devices' registration and authentication.
Security	Description
Admin Authentication	Support admin authentication to guarantee the resource and data security
	Support admin admentication to guarance the resource and data security
Maintain & Upgrade	Description
Maintain & Upgrade WEB Configuration	Description           Support of configurations through the WEB user interface
Maintain & Upgrade WEB Configuration Language	Description           Support of configurations through the WEB user interface           Chinese, English
Maintain & Upgrade         WEB Configuration         Language         Software Upgrade	Description           Support of configurations through the WEB user interface           Chinese, English           Support of user interface, recording service, monitor application and database based on WEB



# Chapter 2 Quick Guide

This chapter is intended to help you grasp the basic operations of the SMGREC server in the shortest time.

Step 1: Prepare a PC installed with Linux OS (Centos 6.5 or Centos 7.2) to work as a SMGREC server.

#### Step 2: Install the SMGREC Server package provided by Synway.

#### Step 3: Log on to the recording server.

Enter the IP address of the SMGREC server into the browser to go to the recording system. The original username and password are both 'admin'. For detailed instructions about login, refer to <u>3.1 System Login</u>. We suggest you change the initial username and password via 'Change PW' on the WEB interface as soon as possible after your first login. For detailed instructions about changing the password, refer to <u>3.7.1 Change Password</u>. After changing the password, you are required to log in again.

#### Step 4: Add authenticated users.

You can add the authentication information via 'Authentication  $\rightarrow$  Authentication' on the WEB interface. Refer to <u>3.6.1 Authentication Manage</u> for detailed instructions.

After adding the authentication information, you can start the recording service via 'System Tools  $\rightarrow$  Recording Manage' and fill in the correct authentication information and the recording server IP to connect the recording server and start the recording.



# Chapter 3 WEB Configuration

## 3.1 System Login

Type the IP address into the browser and enter the login interface. See Figure 3-1.

	<u>English</u>
Username : Password :	
Login	Reset

Figure 3-1 Login Interface

The SMGREC server only serves one user, whose original username and password are both 'admin'. And only the password can be changed after your login. For detailed instructions, refer to <u>3.7.1 Change Password</u>.

After login, you can see the main interface as below.



Home Page	*			Operation Info
Operation Informa	ation	•		
			Runtime	22m 3s
Rec Query	*		CPU Usage Rate	2%
🚺 Rec Manage	*		o, o cooge	
🕅 User Manage	*		Current Memory	
	*		Used Memory Total Memory	6890544 7963652
Autoentication			Memory Usage Rate	86.52%
Change PW	*			
System Tools	*		Total Connected Gateways	1
			Gateway1info	
			Gateway Type	3016
			Serial Number	2919
			IP Address	201.123.111.46
			Total Recording Channels	512
			Channels being Recorded	0
			Connection Time	20m 39s
			Current Version	
			WEB	1.0.0_2017072410
		L		
				Refresh

Figure 3-2 Main Interface

# 3.2 Homepage

See Figure 3-3 for the home page interface, which displays the operation information of the SMGREC server.



Figure 3-3 Homepage Interface



### 3.2.1 Operation Info

	Operation Info
Runtime	22m 3s
CPU Usage Rate	2%
Current Memory	
Used Memory	6890544
Total Memory	7963652
Memory Usage Rate	86.52%
Total Connected Gateways	1
Gateway1info	
Gateway Type	3016
Serial Number	2919
IP Address	201.123.111.46
Total Recording Channels	512
Channels being Recorded	0
Connection Time	20m 39s
Current Version	
WEB	1.0.0_2017072410
	Refresh

Figure 3-4 Operation Info Interface

See Figure 3-4 for the operation info interface, which displays the runtime, the server version, the amount of connected gateways and the information about them. The table below explains the items shown in Figure 3-4.

ltem	Description	
Demilian	Time of the SMGREC server keeping running normally after startup. This parameter	
Runtime	updates every 2s.	
CPU Usage Rate	Display the real-time usage rate of CPU.	
Current Memory	Display the total memory, the used memory and the memory usage rate.	
Total Connected		
Gateways	The total amount of connected gateways.	
Gateway Type	The exact type of the connected gateway.	
Serial Number	The serial number of the connected gateway.	
IP Address	The IP address of the connected gateway.	



Total Recording	The total amount of channels available for recording. The amount of channels being recorded.	
Channels heiner		
Recorded		
Connection Time	Display the time of connecting the gateway to the SMGREC server.	
WEB	Current version of the WEB interface used by the SMGREC server.	

# 3.3 Recording Query

🚟 Rec Query	*
Rec Query	
Statistics Report	

Figure 3-5 Recording Query Interface

Recording inquiry include two parts: **Recording Query** and **Statistics Report**. The part **Recording Query** provides multiple items for users to find the needed recording files rapidly. The part **Statistics Report** is used to count the inquiries and the records on the recording files.

#### 3.3.1 Recording Query

Start Date	2017-07-24		End Date	2017-07-24
Start Time	00:00:00	(hh:mm:ss)	End Time	23:59:59 (hh:mm:ss)
Call Direction	All		Recording Length	Unlimited 💌 s
CallerID			CalleelD	
Gateway Serial No.			Sort by	Ascend O Descend
Codecs	All		Remarks	
		Inquiry	Reset	

Figure 3-6 Recording Query Interface

See Figure 3-6 for the recording query interface. Users can query the recording files by using the combination of multiple query conditions. The table below explains the query items in Figure 3-6.

Item	Description
	Time period of the recording, including time and date. For example, the recording
Start Date; Start Time;	in the above figure is required to start from 2017-07-21 00:00:00 and end at
End Date; End Time	2017-07-24 23:59:59. Please note that the end time and date should not be
	earlier than the start time and date.
Coll Direction	Select a direction to start recording. Three options are available: All, $IP \rightarrow PSTN$ ,
Call Direction	$PSTN \rightarrow IP$ . The default value is All.
	Time length of a recording, used as a condition to filter recoding files. Three
	options Unlimited, Longer than and Shorter than are available. The default value
Recording Length	is Unlimited, which means there is no limit on this item. To choose Longer than or
	Shorter than, you should enter the exact time length in the edit box (calculated
	by s). Once set, only the qualified recordings will be displayed.



CallerID; CalleeID Used as a condition to filter recoding files. Just enter the number you v query.	
Gateway Serial No.	Input a serial No. and use it as a condition to filter recording files.
	Determines the sort order of the query result. It can be the ascending or
Sort by	descending order in Recording Time and Recording Length, with the default
	value of the ascending order in Recording Time.
Codecs	Used as a condition to filter recording files according to their recording codecs.
Remarks	Remarks in the recording, used as a condition to filter recording files.

After the configuration of all above query items, click 'Inquiry' to obtain the query results (See Figure 3-7); click 'Reset' to restore the configurations.

					Res	ult				
Check	Play	Download	Gateway Serial No.	Call Direction	CallerID	CalleeID	Codecs	Start Time	Recording length	Remarks
	€	¥	2919	💽 IP->PSTN	unknow	114	G711A	2017-07-21 10:10:00	00:06:37	1
										Export
1 Items Tota	1 Items Total 20 Items/Page 1/1 First Previous Next Last Go to Page 1 GO 1 Pages Total									

Figure 3-7 Recording Query Results

The recording query results include *Gateway Serial No.*, *Call Direction*, *CallerID*, *CalleeID*, *Codecs*, *Start Time*, *Recording Length* and *Remarks* of each recording item. On this interface, users can do the following operations:

Operation	Description
Export	Export the query results to Excel. Up to 3 millions items can be exported.
	Play the recording file. See Figure 3-8 for the player interface. The icon in the <b>Play</b>
Play	column has two colors: blue indicates that the recording file has not been played;
	orange indicates it has been played.
Download	Download the recording file to local.
Click 'Remarks' Link	Modify the remarks.

The recording file player interface:

🕘 Audio Player - Mozilla Firefox	
3 201.123.111.137/2-1-1-2player.php?path1=/usr/local/file/2017_07_2	21_10_10_00/type3016
type3016-serial2919-ch0-unknow-114-2017_07_21-10_10_00-0.mp3	

#### Figure 3-8 Recording File Player Interface

Note: If your current browser fails to play the audio file as it can not well support the playing plugin, please change to another browser and try again.



#### **3.3.2 Statistics Report**

Start Date	2017-07-21		End Date	2017-07-24	
Start Time	00:00:00	(hh:mm:ss)	End Time	23:59:59	(hh:mm:ss)
Call Direction	All		Recording Length	Unlimited 💌	S
CallerID			CalleeID		
Gateway Serial No.		]	Grouping Check	Gateway Serial No. 💌	]
		Count	Reset		

Figure 3-9 Statistics Report Interface

See Figure 3-9 for the statistics report interface. Statistical Report provides multiple terms and term combinations for recording inquiry and statistics. Click *Count* to search the reports (up to 3 millions pieces) satisfying the conditions; click *Reset* to restore the configurations. The table below explains the items in Figure 3-9.

ltem	Description
	Time period of the recording, including time and date. For example, the recording
Start Date; Start Time;	in the above figure is required to start from 2017-07-21 00:00:00 and end at
End Date; End Time	2017-07-24 23:59:59. Please note that the end time and date should not be
	earlier than the start time and date.
	Select a direction to start recording. Three options are available: All, IP->PSTN,
Call Direction	$PSTN \rightarrow IP$ . The default value is All.
	Time length of the recording, used as a condition to filter recoding files. Three
	options Unlimited, Longer than and Shorter than are available. The default value
Recording Length	is Unlimited, which means there is no limit on this item. To choose Longer than or
	Shorter than, you should enter the exact time length in the edit box (calculated
	by s). Once set, only the qualified recordings will be displayed.
	Used as a condition to filter recoding files. Just enter the number you want to
CalleriD; CalleelD	query.
Gateway Serial No.	Input a serial No. and use it as a condition to filter recording files.
	Determines the display mode of the query result. It can be grouped by gateway
Grouping Check	serial No., CallerID, CalleeID.

After the configuration of the above terms, click *Count* to obtain the statistical report (see Figure 3-10); click *Reset* to restore the configurations.

	Statistics Result		
Gateway Serial No.	Amount	Percentage	Length
2919	1	100.00%	397s
Total	1	ē.	397s
7			
			Export
1 Items Total 20 Items/Page 1/1 First Previous Next Last Go to F	Page 1 GO 1 Pages Total		

Figure 3-10 Statistics Result Interface

The statistical report contains three parts: Amount, Percentage (the recording files for certain serial number or callerID/calleeID to the total recording files) and Length.



## 3.4 Recording Management

Recording Management is used to manage the configuration concern with the recording data. Here it mainly contains *Disk Management*, See Figure 3-11.



Figure 3-11 Recording Management Interface

#### 3.4.1 Disk Management

No. Name	Path	Туре	File Format	Total Capacity(MB)	Used Capacity(MB)	Available Capacity(MB)
1 /dev/sda1	1	hd	ext3	957173	853747	103426
Reserved Block Space of E	ich Disk :		102400 N	IB (Reserved block space of ea	ach disk cannot be less than 20480M	)
Byte Auto-deleted :			1024 N	IB (1024MB-2048MB)		
Update Database after Auto	File Deletion :		🛇 Yes 🔍 No			
Saving Path1 :				/usr/local/file	(eg: /usr/local/file)	
Saving Path2 :				/usr/local/file1		
Saving Path3 :				/usr/local/file1		
Gaving Fauld .				Save Reset	]	

Figure 3-12 Disk Management Interface

See Figure 3-12 for the disk management interface. The above list shows the information of all storable disks, including name, path, type, file format, total capacity, used capacity and available capacity. The table below explains the above items in Figure 3-12.

Item	Description
Reserved Block	Sets the available space size of the disk, with the default value of 20480. The value
Space of Each Disk	cannot be less than 20480MB.
Derie Arrie deleted	Part of the data will be removed automatically once the disk space is detected full by
Byte Auto-deleted	the recording server. Calculated by MB, with the default value of 1024.
Update Database	
after Auto File	Sets whether the recording server upgrades the database or not once a recording
Deletion	TIIE IS GEIETEG.
Saving Path	Sets the path to save the recording data automatically.

After configuration, click **Save** to save the above settings into the server. Click **Reset** to restore the configurations.

# 3.5 User Management

See Figure 3-13 for the User Management interface, which is used to manage the users who own the access authorities of the WEB as well as their authorities.





Figure 3-13 User Management Interface

#### 3.5.1 User Management

By default, there is no user information available on the server. Click *Add New* to add them manually. See Figure 3-14 for the user information adding interface.

Add Us	er Info
UserName:	
New Password:	
Confirm Password:	
Pow	er:
Rec Query	🗖 Rec Manage
🔲 User Manage	Authentication
System Tools	
Save	Close

Figure 3-14 User Info Adding Interface

#### The table below explains the above items in Figure 3-14.

Item	Descriptions
	Administrator name displayed on the user management interface. It is also the login
User Name	name of the user.
	Note: The administrator name to be added cannot be the existent one, like admin.
New Password	Login password of the user.
Confirm Password	Enter the login password again.
	Refer to 3.3 Recording Query. Only the users with this authority can do
Rec Query	configurations in the system setting column and go into the recording query and
	statistics report interface.
Dec Manager	Refer to <u>3.4 Recording Management</u> . Only the users with this authority can see this
Rec Manage	column on the menu and set the corresponding configuration on disk.
	Only the users with this authority can see this column on the menu and do the
User Manage	corresponding operations.
	Note: The user who owns this authority can modify the password of other users.



Authoritoption	Refer to <u>3.6 Authentication Manage</u> . Only the users with this authority can see this
Authentication	column on the menu and configure the items about authentication information.
System Tools	Refer to <u>3.8 System Tools</u> . Only the users with this authority can see this column on
System 1001S	the menu and configure the items about the system.

After configuration, click *Save* to save the above settings into the database; click *Close* to cancel the settings. See Figure 3-15 for the user list interface.

						C	Add New
Check	Administrator	Rec Query	RecManage	User Manage	Authentication Manage	System Tools	Modify
	synway	7	V	V	$\forall$	V	
231							
	- [	1 [					
Check All	Uncheck All	nverse 📃 Del					

Figure 3-15 User List Interface

Click *Modify* in Figure 3-15 to modify the user information. See Figure 3-16 for the user info modification interface. The configurations on this interface are the same as those on the user info adding interface.

Modify User Info				
UserName:	Synway			
New Password:	•••			
Pov	ver:			
Rec Query	Rec Manage			
🛛 User Manage	Authentication			
System Tools				
Save	Close			

Figure 3-16 User Info Modification Interface

To delete a user, tick the checkbox before username in Figure 3-15 and click the **Delete** button. **Check All** means to select all available items in the current page; **Uncheck All** means to cancel all selections in the current page; **Inverse** means to uncheck the selected items and check the unselected.

## **3.6 Authentication Management**

See Figure 3-17 for the authentication management interface, which provides such features as authentication accounts adding or deletion, password modification and the registration status display, etc. Users can create an authentication account via this interface and the digital gateway can connect to the recording server by adding this authentication information.





Figure 3-17 Authentication Management Interface

#### 3.6.1 Authentication Management

By default, there is no authentication information available on the gateway. Click *Add New* to add them manually. See Figure 3-18 for the authentication information adding interface.

Add Authentication Information				
Name :				
Password :				
Confirm Password :				
Save Close				

Figure 3-18 Authentication Information Adding Interface

The table below explains the above items in Figure 3-18.

ltem	Description			
Name	The authentication name used for the digital gateway to connect the recording server.			
Password	Login password of the authentication account.			
Confirm Password	Enter the login password again.			

After configuration, click **Save** to save the above settings into the server. Click **Close** to cancel them. See Figure 3-19 for the authentication information list.

			Add
Check	No.	Authentication Name	Modify
(m)	1	111	
(			
Check All E Uncheck All E	Inverse 🗄 Delete		
1 Items Total 20 Items/Page 1/1 Fil	rst Previous Next Last Go	to Page 1 💌 1 Pages Total	

Figure 3-19 Authentication Information List Interface

Click *Modify* in Figure 3-19 to modify the authentication information. See Figure 3-20 for the authentication modification interface. The configurations on this interface are the same as those on the authentication info adding interface.



Modify Authentication Info				
Name :	111			
New Deceward				
New Passworu :				
Confirm Password :				
Save	Close			

Figure 3-20 Authentication Modification Interface

To delete a user account, tick the checkbox before username in Figure 3-19 and click the **Delete** button. **Check All** means to select all available items in the current page; **Uncheck All** means to cancel all selections in the current page; **Inverse** means to uncheck the selected items and check the unselected.

## 3.7 Change Password

See Figure 3-21 for the Change Password interface, which provides the interface for the users to modify the login password.



Figure 3-21 Change Password Interface

#### 3.7.1 Change Password

Change F	Password					
Current Username	admin					
Current Password						
New Username	admin					
New Password						
Confirm New Password						
Save	Reset					
Note1: Only the password can be r Note2: The username and password can con	Note1: Only the password can be modified if the username is admin. Note2: The username and password can consist only of numbers, letters or the underline.					
Figure 0.00 Deserved						

Figure 3-22 Password Modification Interface

See Figure 3-22 for the Password Changing interface where you can change the password of the



recording server. Enter the current password, the new password, and then confirm the new password. After configuration, click *Save* to apply the new password or click *Reset* to restore the configurations. After changing the password, you are required to log in again.

The users can only modify their own passwords. They can ask the super administrator to help modifying their passwords if the initial passwords are forgotten.

# 3.8 System Tools

System Tools is mainly for recording server maintenance. It provides such features as operation logs, system update and restart. See Figure 3-23 for details.



Figure 3-23 System Settings

#### 3.8.1 Management

	WEB Port	80	<u></u>	
Debug Log				
	Log Level	Warning		
	Max Logs to be Saved	10		
	Single File Size (MB)	100		

Figure 3-24 Management Parameters Setting Interface

See Figure 3-24 for the Management Parameters interface. The table below explains the above items in Figure 3-24.

ltem	Description
	The port which is used to access the gateway via WEB. The default value is
WEB Port	80.
	Sets the level of the Debug log. There are four options: Close, ERROR,
Log Level	WARNING and INFO, with the default value of WARNING.
Max Logs to be	Sets the max number of logs to be saved, with the default value of 10. Up to
Saved	100 pieces of logs can be saved.
Single File Size	Sets the size of a single output log. Value range: 1~200, with the default value



of 100.

After configuration, click *Save* to save the settings into the recording server; click *Reset* to restore the configurations.

#### 3.8.2 Operation Log

No.	Username	Operation Time	Operation Content			
1	admin	2017-07-24 17:17:17	Add user:synway			
2	admin	2017-07-24 15:49:08	Statistical operations			
3	admin	2017-07-24 15:13:56	Statistical operations			
4	admin	2017-07-24 15:12:26	Statistical operations			
5	admin	2017-07-24 14:59:38				
6	admin	2017-07-24 14:59:36	Recording Inquiry			
7	admin	2017-07-24 14:59:28	Log in to the system from IP: 201.123.115.107			
8	admin	2017-07-24 14:59:07				
9	admin	2017-07-24 14:51:52	进行录音查询			
10	admin	2017-07-24 14:51:45	登入系统web界面: 201.123.111.5			
11	admin	2017-07-24 14:51:27	Recording Inquiry			
12	admin	2017-07-24 14:51:15	Log in to the system from IP: 201.123.111.5			
13	admin	2017-07-24 14:50:09				
14	admin	2017-07-24 14:49:05	Recording Inquiry			
15	admin	2017-07-24 14:47:00	Recording Inquiry			
16	admin	2017-07-24 14:45:39	Recording Inquiry			
17	admin	2017-07-24 14:45:31	Recording Inquiry			
18	admin	2017-07-24 14:45:20	Recording Inquiry			
19	admin	2017-07-24 14:42:24	Recording Inquiry			
20	admin	2017-07-24 14:42:15	Recording Inquiry			
110 Items Tota	10 Items Total 20 Items/Page 1/6 First Previous Next Last Go to Page 1 🔿 6 Pages Total					

Figure 3-25 Operating Log Interface

See Figure 3-25 for the operating log interface. It shows the exact operations of the WEB users, helping the administrator to get the thorough information about the use of the recording management software. The logged operations are sorted by the descending order in operating time, i.e. the newer the operation is, the higher it will be ranked on the WEB page.

#### 3.8.3 Data Capture

	Data Capture		
Choose a network interface to capture data	×	Start	Stop
	Download Log		

Figure 3-26 Data Capture Interface

See Figure 3-26 for the Data Capture interface. Data Capture is used to capture data on the network interface you choose. Click *Start* to start capturing data on the corresponding network interface. Click *Stop* to stop data capture and download the captured packets.

Click *Download Log* to download such logs as core files, configuration files, error information and so on.



#### 3.8.4 Configuration File

	RECConfig.ini	-
Config File		
ISMGRECI		
LocalPort=2001		
[DBPARAM]		
DbAddress=127.0.0.1		
user=root		
password=root		
DbPort=3306		
[WebCtrl]		
LocalPort=1001		
[Monitor]		
LocalPort=1002		
[Version]		
WebLanguage=1		
[DbgLog]		
LogLevel=2		
LogType=0		
MaxFileNo=10		
FileSize=100		
LogDirectory=/var/Recorder/log		
[DiskPara]		
DiskSpaceMin=102400		
DiskSpaceDel=1024		
RechilePath1=/usr/local/file		
RechiePath2=/usr/local/file1		
RechiePath3=/usr/local/file1		
		-
Save		
Note: You shall restart the service or system to validate the modified configuration	i file!	

Figure 3-27 Configuration File Interface

See Figure 3-27 for the Configuration File interface. You can check and modify the configuration items of the recording server through this interface. You can modify these configurations on the interface directly, and then click *Save* to save the above settings into the recording server or click *Reset* to restore the configurations.



#### 3.8.5 Upgrade

Current Version					
Version	1.0.0_2017072410				
Select an Update File :			Browse		
	Update		Reset		

Figure 3-28 Upgrade Interface

See Figure 3-28 for the upgrade interface where you can upgrade the WEB, recording service and database to new versions. Select the upgrade package "\*.tar.gz" via *Browse…* and click *Update*. Click *Reset* to cancel the uploading file. Note that clicking *Reset* can only delete the selected update file but not cancel the operation of *Update*.

#### 3.8.6 Restart

Restart Service	
Click the button 'Restart' to restart the service.	Restart Service
Restart System	
Click the button 'Restart' to restart the system.	Restart System

Figure 3-29 Service/System Restart Interface

See Figure 3-29 for the Restart interface. Click **Restart** on the service restart interface to restart the recording service or click **Restart** on the system restart interface to restart the server where the recording service locates.



# **Appendix A Technical/sales Support**

Thank you for choosing Synway. Please contact us should you have any inquiry regarding our products. We shall do our best to help you.

## **Headquarters**

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