

AgcCls

Concurrent License Server for WinIGS

AgcCIs Installation & User Manual

Software Version 2.04 June 2021

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NOTICES

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Disclaimer

The developer is neither responsible nor liable for any conclusions and results obtained through the use of AgcCls program.

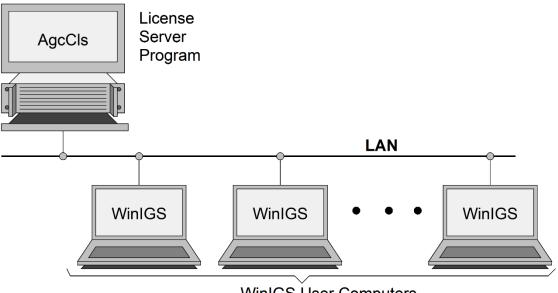
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1. Concurrent License Server Installation

WinIGS is optionally distributed with a **Concurrent License**. This option allows the main program application (**WinIGS**) to be installed on any number of computers and used by any number of users within an organization, as long as the total number of concurrent users does not exceed a specific limit. The usage limits are enforced by a second program, namely the **concurrent license server program** (AgcCls)

AgcCIs must be installed on a single computer only. This computer must be accessible by all computers that WinIGS users will be using to run the **WinIGS** application via the local area network. WinIGS continuously communicates AgcCIs via TCP/IP messages in order to obtain permission to operate. AgcCIs keeps track of the active WinIGS users and prevents WinIGS operation if the number of active users exceeds the license limit.



WinIGS User Computers

The AgcCls program is provided on an installation CD, or may be downloaded from the AGC web site (<u>www.ap-concepts.com</u>). To install the CLS program, execute the installation program (AgcClsSetup.exe).

Once the AgcCls installation is completed, it must be activated. Activation is performed as follows:

1. Execute the AgcCls program. The program main window is illustrated below:

CLS Ve	CLS Version 2.04 - March 10, 2017 - Host: FETA-CHEESE - Dir: C:\Wmaster\AGCCLS\									
AG	AGC Concurrent License Server									
	License : Max Users : Server Address : 192.168.1.215 Expires : Port : 20000									
Not	Not Activated (Incorrect Machine Code) 04/03/2017 16:59:56									
					User List					
	Name	Version	Address	Status	Active Since	Ping	<u> </u>			
•							• •			
	Setup / A	ctivate	Sto	p	Start	Help	Exit			
	Test C	lient		Minimize	to Tray	Master	Reset Statistics			
						04 0047 44 04	45			
					-	e 01, 2017, 11:24	1:45			
	Max Concurrent Requests 1 Total WinIGS Usage									
	Number of Denials 0 0.0 Hours Number of Dropped Connections 0									
	Numb		pped Col	mection	13 U					
AgcCl										

- 2. Click on the **Setup/Activate** button to open the activation window, illustrated below. Copy the Machine Code (use the Copy to Clipboard button), and email it to AGC at <u>sakis@comcast.net</u>
- 3. AGC will return an email with the activation key. The activation key is a 32 character hexadecimal code. Paste this code into the **Activation Key** field (Use the paste from clipboard button).

AGC License Activation			
License Server A	ctivation & Setup	AGC	Help OK
	LAN Setup		
Server Address	192.168.0.115 -	Port	1234
	✓ Use Speech		
	□ Run Minimized (Tray Icon)		
·	License Activation		
Status	Invalid Activ	ation Key (Size	
Machine Code	4177327083	¯>_	Copy to Clipboard
	Email this code to AGC to ob	tain activation l	key.
Activation Key			
Expiration Date	N/A	- î_	Paste from Clipboard
Max Users	0		Activate
AgcCls - Form: AGCCl			

- 4. Select the host **Server Address** to use for communicating between the CLS server and the WinIGS computers. (This list box will contain as many entries as the network interface cards installed in the host computer).
- 5. Select the <u>local area network port number</u> to use for communicating between the CLS server and the WinIGS computers. Note that you may have to modify your network setup to allow use of the selected port number. Type the selected port number in the Port field. Note: If you are installing multiple copies of AgcCls in order to service multiple licenses in the same server PC (using the same server IP Address), make sure that the port number is unique for each installed copy.
- 6. Make a note of the selected **Server Address** and **Port** number. This information is needed by the WinIGS users to access the CLS server.
- 7. If desired to run AgcCls in the background, check the **Run Minimized** checkbox. In this mode the program runs in the background, and an icon () is placed on the task bar tray. The program main window can be reopened by left-clicking on this icon. If this option is selected, AgcCls will automatically run in the background on the next time the program is executed. (**Note:** running in the background is not equivalent to running as a service. To setup AgcCls to run as a service, see section <u>Running AgcCls as a Service</u>).
- 8. Click on the Activate button. If the activation is successful, the expiration date and maximum number of user fields will automatically be updated, as shown in the example below. (The entered parameters are saved in the file **AgcCls.cfg**).
- 9. Click on the OK button to close the Activation window.

AGC License Activation			
License Server A	ctivation & Setup	AGC	Help OK
	LAN Setup		
Server Address	192.168.0.115 -	Port	1234
	✓ Use Speech		
	□ Run Minimized (Tray Icon)		
	License Activation		
Status	Licence Se	rver Activated	
Machine Code	4177327083		Copy to Clipboard
	Email this code to AGC to obt	ain activation I	key.
Activation Key	3304358621234567	89931C9CD	8939CA9
Expiration Date	Monday, March 02, 2020		Paste from Clipboard
Max Users	2		Activate
AgcCls - Form: AGCCL	SACTIVATION - Copyright © A. P. N	Aeliopoulos 19	98-2013

10. On the main AgcCls window, click on the **Start** button to turn on the concurrent license server. **IMPORTANT:** If the Windows Security Alert widow illustrated below opens, click on the **Allow access** button, in order to allow the communication between WinIGS and the CLS program.

Pindows Secu	irity Alert		×
Windo app	ws Defend	ler Firewall has blocked some features of this	
Windows Defender public and private n		ocked some features of AGC Concurrent License Server on all	
	Name:	AGC Concurrent License Server	
	Publisher:	Advanced Grounding Concepts	
	Pat <u>h</u> :	C: \wmaster \agcds \debug \agcds.exe	
Private netwo Public netwo because the	orks, such as n rks, such as th se networks off	ver to communicate on these networks: ny home or work network ose in airports and coffee shops (not recommended ten have little or no security)	
What are the risks (of allowing an a	app through a firewall?	
		Allow access Cancel	

11. It is recommended that the AgcCls program is added to the windows start folder, so that it will automatically be executed if the computer is restarted.

This completes the installation of the Concurrent License Server. The activated and running server main display is illustrated below. Note that the **Port number** and the **Server Address** must be used with each WinIGS installation in order to access the CLS. The Active Users window displays the WinIGS users presently connected to the server. Furthermore, usage statistics are displayed at the lower part of the window. Specifically, statistics include:

- The maximum number of concurrent user requests, including denied requests due to the total number of users simultaneously attempting to use WinIGS.
- The total number of denied user attempts to use WinIGS
- The cumulative number of WinIGS usage hours.

The above statistics can be reset (Set to zero) by clicking on the **Reset Statistics** button.

1.1 Setting up a License Server Computer for Multiple licenses

If you have purchased more than one concurrent license and wish to use the same computer for all your licenses, you must perform a separate **AgcCls** installation for each separate concurrent license you have obtained from AGC. You can install **AgcCls** any number of times on the same server by selecting different installation directories. The default server installation directory is c:\AgcCls. If you are installing **AgcCls** two or more times in order to service multiple licenses, make sure you select a *unique installation directory* for each one.

1.2 Setting up AgcCls to Run as a Service

After verifying that AgcCls is installed and activated, you can setup AgcCls to run as a **Windows Service** as follows:

The following instructions assume that AgcCls has been installed in the directory c:\AgcCls\.

<u>STEP 1</u>

Exit the AgcCls Application, open a command widow (run Command Prompt as administrator) and type the following commands:

CD\AgcCls INSTSRV AgcCls.exe c:\AgcCls\SRVANY.EXE

<u>STEP 2</u>

Run Registry Editor (run Regedit) and select the following key:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\AgcCls

Verify that the ImagePath value points to c:\AgcCls\SRVANY.EXE (See also Registry Editor screen below)

🔡 Registry Editor				- 0	Х
<u>File E</u> dit <u>View Fa</u> vorites <u>H</u> elp Computer\HKEY_LOCAL_MACHINE\SYSTEM\C	urrentControlSet	Services\AgcCls.exe			
 ADP80XX adsi AFD afunix AgcCls.exe AGMService AGSService ahcache AJRouter ALG amdgpio2 	~	Name (Default) DisplayName ErrorControl ImagePath ObjectName Start Type WOW64	Type REG_SZ REG_DW REG_EXP REG_SZ REG_DW REG_DW	Data (value not set) AgcCls.exe 0x00000001 (1) c:\AgcCls\SRVANY.EXE LocalSystem 0x00000002 (2) 0x00000010 (16) 0x0000014c (332)	
<	>	<			>

Select AgcCIs and add a new Key, using right mouse click, as illustrated below

Computer\HKEY_L	r Favorites Help OCAL_MACHINE\SYST	EM\CurrentControlSet	\Services\AgcCls.exe		- 0	×
ADP80XX Adv adsi AFD AgcCls.exxi AgcCls.exxi AGSServ AGSServ AGSServ ARoute ALG and gpi	Find Delete Rename Export	QWORD	lue (32-bit) Value (64-bit) Value	Type REG_SZ REG_DW REG_EXP REG_SZ REG_DW REG_DW	Data (value not set) AgcCls.exe 0x00000001 (1) c:\AgcCls\SRVANY.EXE LocalSystem 0x00000002 (2) 0x00000010 (16) 0x0000014c (332)	3
	Permissions Copy Key Name		ing Value ble String Value			

Name the new key: Parameters. Next, select the Parameters key and add a string value

Registry Editor							_	×
File Edit View Fa	vorites Help							
Computer\HKEY_LOC	AL_MACHINE\SYSTEM\Cu	urrentCor	ntrolSet	Services\AgcCls.exe\P	aramet	ers		
> ADP80XX			^	Name	Тур	e	Data	
> adsi				(Default)		G_SZ	(value not set)	
> AFD				~			(,	
> 🔤 afunix								
✓ AgcCls.exe								
Parameters								
AGMService	Expand							
- AGSService	New	>	Key					
AJRouter	Find		String	Value				
ALG	Delete		Binary	/ Value				
<	Rename		DWO	RD (32-bit) Value	- L			>
	Export			RD (64-bit) Value	- 1			
	Permissions			-String Value				
	Copy Key Name		Expan	dable String Value				

Name the new string value: **Application**, then right click on it and select **Modify**.

Registry Editor				-	_	×
File Edit View Favorites Help Computer\HKEY LOCAL MACHINE\SYSTEM\CurrentContr	olSet	Services\AacCls eve\1	Darameters			
ADP80XX Addsi AFD AFD Afunix	^	Name (Default)	Type REG_SZ	Data (value not se	et)	
AgcCls.exe Agrameters AGMService AGSService Adsche		ſ	Modify Binary Dat Delete Rename	:a		
AlRouter ALG	*	<				>

Type the full path to AgcCls.exe in the Value data field, as shown below:

📑 Registry Editor				—	\times
File Edit View Favorites Help					
Computer\HKEY_LOCAL_MACHINE\S	YSTEM\CurrentControlSet	Services\AgcCls.exe\P	arameters		
> ADP80XX	^	Name	Type D	ata	
> 📊 adsi		ab (Default)		value not set)	
> AFD		a Application	REG_SZ	,	
> afunix			-		
✓ AgcCls.exe Parameters					
AGSService	Edit String			×	
- ahcache	Value name:				
> AJRouter	Application				
ALG	Value data:				>
	c:\AgcCls\AgcCls.exe				-
			OK Cance	A	
🚏 Registry Editor				- 0	×
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>H</u> elp					
Computer\HKEY_LOCAL_MACHINE\	SYSTEM\CurrentControlS	et\Services\AgcCls.ex	e\Parameters		
> ADP80XX	,	Name	Туре	Data	
> 🔤 adsi		ab (Default)	REG_SZ	(value not set)	
> AFD		ab Application	REG_SZ	c:\AgcCls\AgcCls.e	xe
> afunix				er ørgeens ørgeenste	~
AgcCls.exe					
Parameters					
AGMService					
- AGSService					
ahcache		-			
<	>	<			

Close the registry editor. Note that the AgcCls will now run automatically as a service when the system is restarted. To manually start or stop or the AgcCls service use the Windows **Services** tool.

1.3 Monitoring License Statistics

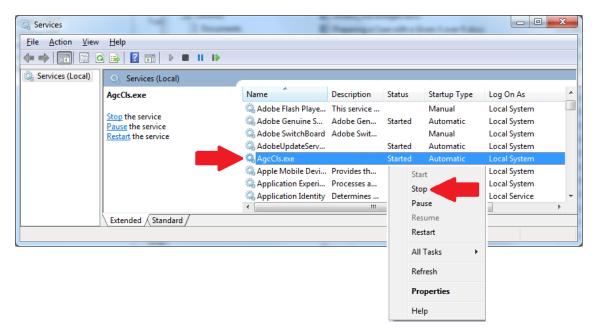
If AgcCls is running as a service, the user interface is not accessible. However, executing a second instance of AgcCls allows monitoring of the user list and usage statistics. Note that the second instance of AgcCls senses the presence of the first instance running as a service and opens in "*Report Mode*". While in report mode it communicates with the service application, receives and displays the present user list and usage statistics. The AgcCls user interface in Report Mode is illustrated below. Note that the Setup/Activate, Start and Stop buttons are not functional in Report Mode.

CLS Ver	rsion 2.02 - July 14, 2015 - F	Running on PAR	РАКІ					-	
AG	C Concurren	t Licen	se Server	1	AGC				
	License : 1000 Max Users : 2 Expires : Monday, March 02, 2020 Server Address : 192.168.0.109 Port : 4321								
	Activation Successful Report Mode								
			Use	er List					
	Computer Name	Version	Address	Sta	tus	Active S	Since		2
1	PAPAKI	2.02	192.168.0.109	Authoriz	ed	July 21, 1			
2	PAPAKI	2.02	192.168.0.109	Authoriz	ed	July 21, 1			
3	ΡΑΡΑΚΙ	2.02	192.168.0.109		iy Users	July 21, 1	5.15.50		
•									·
\$	Setup / Activate	Ste	op St	tart	He	elp		Exit	
	Test Client		Minimize to Trag	y	Ma	ster	Rese	t Statisti	cs
Statistics Since Tuesday, July 21, 2015, 13:10:53 Max Concurrent Requests 3 Total WinIGS Usage Number of Denials 1 0.0 Hours Number of Dropped Connections 0									
\gcCl	s - Form: AGCCL	SDLG - C	Copyright © A. F	P. Meliop	oulos 19	98-2013			

1.4 Uninstalling the AgcCls Service

You can uninstall the AgcCls service if installed as described above, as follows:

1. Stop the AgcCls Service using the Windows <u>Services</u> tool (illustrated below). Right Click on the AgcCls.exe line, and click on the <u>Stop</u> command.



2. Open a command widow (run CMD as administrator) and type the following commands:

CD\AgcCls INSTSRV AgcCls.exe REMOVE

1.5 Setting Up the WinIGS Application

Once the AgcCls has been installed and activated, you can install the WinIGS application on all WinIGS user computers. The first time WinIGS is executed after a new installation, you must validate the WinIGS serial number in order to authenticate the installation. The following pop-up window will open upon the first time WinIGS is executed:

📧 Copy Print Help		– 🗆 X							
WinIGS Authenticatio	n	AGC							
Serial Number Validated. and then click on Accept	•	Box,							
WinIGS Serial # :	XXXXXXXXXX	Validate							
Expiration : Tu	Organization : Advanced Grounding Concepts Expiration : Tuesday, March 02, 2021								
Named User Lice	ense								
Site: Authorized Users:	•								
This license authorizes of No other persons are all									
	Cancel	Accept							

Verify or enter your WinIGS serial number, click on the **Validate** button, check the **Agree** checkbox, and then click on the **Accept** button.

Once the installations are completed, you must verify that WinIGS can access the license server program AgcCls via the local area network in order to obtain permission to operate. For this purpose you need to verify that the server computer **IP Address** and **Port Number** are entered in the WinIGS concurrent license server setup dialog. Note that the license server IP Address and Port Number are displayed on the AgcCls user interface (See Figure below).

License Server Act	ivation & Setup	AGC_	Help OK
L	AN Setup		
Server Address	192.168.0.109 🚽	Port	4321
ম	Use Speech		
Г	Run Minimized (Tray Icon)		
Li Status	cense Activation	erver Activated	
		erver Activated	Copy to Clipboard
Status	Licence S		
Status	Licence S 4177327083	►	кеу.
Status Machine Code	Licence S 4177327083 Email this code to AGC to of	►	кеу.

Execute WinIGS and click on the **CLS Setup** command, located under the **Help** Menu. This command opens the window illustrated below:

AGC License Client, Version: 2.02 -	July 14, 2015	
Concurrent Licen	se Client Setup	Close
Status	Disco	nnected
Server Address Port	192.168.0.109 4321	Stop Authorize
Connected Users	N/A	User List
License # Server Expiration	1000	
Compatible with License	Server Version 2.02	013

Type the **server address** and **port number** in the corresponding fields and click on the **Authorize** button. Then click on the **OK** button to close the window. (The server address and port number are permanently stored in the WinIGS Configuration file, so this procedure does not need to be repeated every time WinIGS is started).

AGC License Client, Version: 2.02 -	July 14, 2015	
Concurrent Licen	se Client Setup	Close
Status	Autho	orized
	Connecte	d
Server Address	192.168.0.109	Stop Authorize
Port	4321	
Connected Users	1	User List
License #	1000	
Server Expiration	Monday, March 02, 2020	
Compatible with License AGC - Form AGCCLSCLIENT - Con	Server Version 2.02	13

Successfully Authorized Setup Dialog

You can see a list of active users by clicking on the **Active User List** button. A dialog then opens, illustrated below that contains a list of the WinIGS sessions. For each WinIGS session the list contains the computer name, the IP address of the computer, the authorization status, and the date and time that each WinIGS session stated. Note that before clicking on the **Active User List** button a connection to the server must have been establish. A connection is established by

clicking on the Authorize button.

	WinIGS	S Active User List				- • •
	AG	C Concurrer	nt Active Us	ser List		AGC
		Computer Name	Address	Status	Active Since	_
	1	MERCATOR	192.168.0.117	Authorized	September 26, 18:25:04	
	2	GAUSS	192.168.0.115	Authorized	September 26, 18:25:08	
	•					•
Ľ	Static	stics Since Friday,	Sontombor 26-2	014 19-07-5		
	otatis			.014, 18.07.57		
		Max Concurrent	Requests 3		Total WinIGS Usage 0.0 Hours	
		Number of	of Denials 1		Stop Selected Session	
					eliopoulos 1998-2013	

NOTE: The button titled **Stop Selected Session** (located at the bottom of the Concurrent Active User List dialog allows a user to stop a selected WinIGS Session. This option should be used with care to avoid causing other WinIGS concurrent users to lose their work.

2. Concurrent License Server License Update

If you have previously installed **AgcCls** and you are now renewing the license, you only need to enter a new Activation Key in the AgcCls license server application.

Note that if you are reactivating an existing WinIGS license you must also reinstall the latest version of the WinIGS application on each user's machine. This is because the license expiration information is also encoded in the WinIGS application, thus the older versions cannot be used with the renewed license.

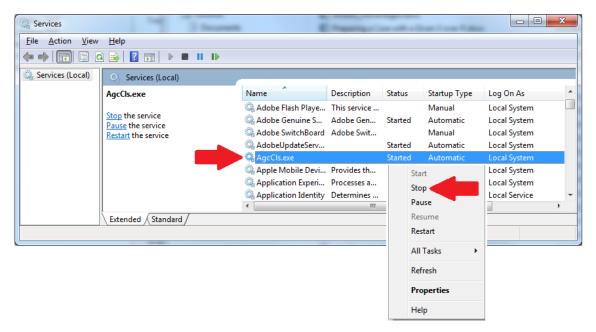
If you have not previously installed **AgcCls** please refer to the section "Concurrent License Server Installation".

The activation key is provided by AGC based on your server computer machine code. The activation key is a 32 character string, and contains your license expiration date and number of concurrent seats in encrypted format. After you receive your new activation key from AGC, follow the procedure described below:

2.1 AgcCls Reactivation

Assuming that you have an existing AgcCls installation running as a *service*, in order to reactivate it you must first **STOP** the service, then run the AgcCls program to update the activation key. You can stop or start a service using the Windows *Services* application, illustrated below.

To stop the AgcCls service program right click on the AgcCls row and left click on the Stop command of the pop-up menu.



Once the AgcCls service has been stopped, run the AgcCls application, click on the Setup/Activate button, and enter your **new activation key** in the activation key field as shown below. Click on the Activate key, then close the activation dialog, terminate the AgcCls

Application and restart the AgcCls service, again using the Windows Services app.

CLS Version 2.04 - March 10, 2017 - H	ost: PAPAKI - Dir: C:\Wmaster\AGCCLS\		
AGC Concurrent L	_icense Server	IF AGC	
License : 0 Expires : Wednesday,	Max Users:0 December 31, 1969	Server Address: 192.168.1 Port: 20000	82
Licence Server Not Act	ivated		
Server Off		01/17/201	18 14:27:14
	User Li	st	
Name Version A	Address Status Active Sind	e Ping	
	AGC License Activation		
	License Server Act	ivation & Setup	Help OK
	ĹL	AN Setup	
1	Server Address	92.168.1.82	Port 20000
イ・ケ	J	Use Speech	
		Run Minimized (Tray Icon)	
Setup / Activate	i	cense Activation	
Test Client			
Sta	Status	Licence Serve	
Max Conc	Machine Code	2727235484 Email this code to AGC to obta	Copy to Clipboard
Nu Number of Drops	Activation Key		in activation key.
	Activation Key Expiration Date	N/A	Paste from Clipboard
AgcCls - Form: AGCCLSI	Max Users		Activate
		2	
	AgcCls - Form: AGCCLS/	ACTIVATION - Copyright © A. P. M	eliopoulos 1998-20 🗂 3

NOTE: If you are moving the AgcCls license server application to a different computer, first you need to uninstall the AgcCls application from the old server. Then, you will need a new activation key. In order to obtain a new activation key, install AgcCls on the new server (computer), run the installed AgcCls program, click on the **Setup/Activate** button, then on the **Copy to Clipboard** button in order to copy your machine code to the windows clipboard. Paste the machine code in an email message to <u>support@ap-concepts.com</u> in order to be provided with the activation key for the new license server.

	License Server	Server Address : 172.1	7 102 65
Expires :	Max Users .	Port : 20000	
icence Server Not Acti	ivated	08/27	7/2018 18:10:40
	Use	r List	
Name Version A	ddress Status Active		_
	AGC License Activation		X
	License Server A	ctivation & Setup	Help OK
	Server Address	LAN Setup 172.17.192.65	Port 20000
		□ Use Speech	
Setup / Activate		□ Run Minimized (Tray Icon)	
Tert Client		License Activation	
Sta	Status	Licence Se	erver Not Activated
Max Conc	Machine Code	2363902613	Copy to Clipboard
Number of Drop		Email this code to AGC to c	obtain activation key.
cCls - Form: AGCCLSI	Activation Key		
JCCIS - POIIII. AGCULSI	Expiration Date Max Users	0 N/A	Paste from Clipboard
			Activate

IMPORTANT: You must perform a separate **AgcCIs** activation for each separate concurrent license you have obtained from AGC. You can install **AgcCIs** any number of times on the same server by selecting different installation directories. The default server installation directory is c:\AgcCIs. If you are installing **AgcCIs** two or more times in order to service multiple licenses, make sure you select a *unique installation directory* for each one.

2.2 WinIGS Re-Installation

Every time you are reactivating an existing WinIGS license you must also reinstall the latest version of the WinIGS application on each user's machine. This is because the license expiration information is also encoded in the WinIGS application, thus the older versions cannot be used with the renewed license.

The WinIGS installation program (IGSsetup.exe) is provided on a CD. If you do not have a CD drive you can also download IGSsetup.exe form the AGC website as follows:

Go to the site <u>www.ap-concepts.com</u> and navigate to the <u>WinIGS Downloads</u> page. (Note: you can go there directly using the link:

http://www.ap-concepts.com/win_igs_dloads.htm

Follow on-site instructions to download and save the WinIGS installation program. (IgsSetup.exe).

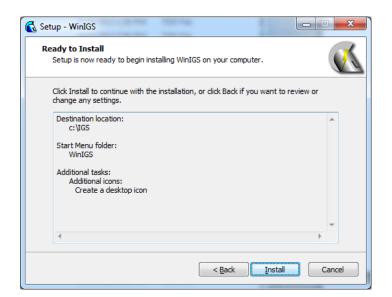
Run IgsSetup.exe to install WinIGS on any number of potential WinIGS user's computers. Setup the communications parameters (Server IP address and LAN Port number) so that Win IGS can communicate with the AgcCIs over the LAN.

Note that you do not have to uninstall the previous version, before installation. In fact, it is recommended to install the new version over the existing version (same directory) so that the cable and tower libraries will be merged.

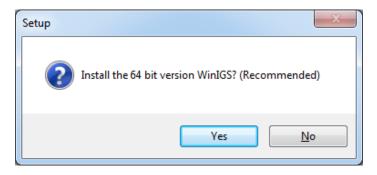
The installation program user interface window is illustrated below:



Click on Next to proceed. A sequence of windows will next appear allowing selection of the installation directory, creation of program icons, etc. Finally, the following window will appear:



Click on the Install button to proceed. If you are installing on a 64 bit system the following window will next appear. It is recommended to select the 64 bit option (Click YES to proceed).



Once the installation procedure is completed the following window will open. Click on Finish.to complete the installation



2.3 Setting Up WinIGS Application

Note that the first time you run the program, and if you installed over an existing installation, a series of windows will open asking for permission to merge the various program libraries (cables, tower structures etc.). Click yes on all pop-up windows to allow library merging.

The first time WinIGS is executed after a new installation, you must also validate the WinIGS serial number in order to authenticate the installation. The following pop-up window will open upon the first time WinIGS is executed:

Copy Print Help		– 🗆 X
WinIGS Authenticati	on	AGC
Serial Number Validate and then click on Accept	 Please Check Agree t button to continue 	Box,
WinIGS Serial # :	XXXXXXXXXX	Validate
-	dvanced Grounding Con Jesday, March 02, 2021	
Site: Authorized Users:	·	
		
	only the above named u llowed to use this licens	
	Cancel	Accept

Verify or enter your WinIGS serial number, click on the **Validate** button, check the **Agree** checkbox, and then click on the **Accept** button.

Next click on the WinIGS **CLS Setup** command, located under the **Help** Menu. This command opens the window illustrated below:

AGC License Client, Version: 2.04 -	March 10, 2017		x
Concurrent Licen	se Client Setup	ACC	
Status	Disco	onnected	
Server Address	192.168.1.215	Stop Authorize	
Port	1234		
Connected Users	N/A	User List	
License #			
Server Expiration			
Compatible with Licens	e Server Version 2.04		

Type the **server address** and **port number** in the corresponding fields and click on the **Authorize** button. Then click on the **OK** button to close the window. (The server address and port number are permanently stored in the WinIGS Configuration file, so this procedure does not need to be repeated every time WinIGS is started).

AGC License Client, Version: 2.00 -	September 26, 2014		- • 💌
Concurrent Licen	se Client Setup	AGC	lose
Status	Autho	orized	
	Connecte	ed	
Server Address	192.168.0.115	Stop Au	thorize
Port	1234		
Connected Users	2	User L	ist
License #	1000		
Server Expiration	Monday, March 02, 2020		
Compatible with License AGC - Form AGCCLSCLIENT - Co	Server Version 2.00	3	

Successfully Authorized Setup Dialog

3. Troubleshooting Tips

If WinIGS users cannot connect to AgcCls and obtain authorization, please verify the following items. Note that items 1 and 2 are applicable if AgcCls is set to run as a service.

📑 Registry Editor				- 0	×
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>H</u> elp					
Computer\HKEY_LOCAL_MACHINE\SYSTEM\CurrentCo	ontrolSeť	\Services\AgcCls.exe\Pa	irameters		
> ADP80XX	^	Name	Туре	Data	
> adsi		(Default)	REG_SZ	(value not set)	
> AFD		ab Application	REG_SZ	c:\AgcCls\AgcCls.exe	
> afunix					
AgcCls.exe					
AGMService					
AGSService					
	~				
	>	<			>

1. Open <u>Registry Editor</u> and verify AgcCls.exe entry is as follows

2. Open Windows <u>Services</u> and verify AgcCls.exe entry is **Startup Type** is "**Automatic**" and **Status** is "**Running**". You can Start and Stop the service manually by the right click popup menu shown below.

🔍 Services						_		×
<u>File Action V</u> iew	<u>H</u> elp							
🗢 🔿 📰 🖾	3 🗟 🛛 🔽 📷 🖉 🕨 💷 🕩							
🔍 Services (Local)	Name	Description	Status	Startup T	уре	Log On A	s	
	AcSELerator Database	AcSELerator Database	Running	Automat	ic	Local Syst	em	
	ActiveX Installer (AxInstSV)	Provides User Account Control valida		Manual		Local Syst	em	
		Adobe Acrobat Updater keeps your A		Disabled		Local Syst	em	
	Adobe Genuine Monitor Ser	Adobe Genuine Monitor Service	Running	Automat	ic	Local Syst	em	
		Adobe Genuine Software Integrity Ser	Running	Automat	ic	Local Syst		
	Adobe SwitchBoard	Adobe SwitchBoard		Manual		Local Syst		_
	AgcCls.exe		Running	Automat	ic	Local Syst		
	Agent Activation Runtime	Runtime for activating conversational	Start			Local Syst		
	AllJoyn Router Service	Routes AllJoyn messages for the local	Stop		rigger Start)	Local Serv		
	App Readiness	Gets apps ready for use the first time	Pause			Local Syst	em	
	<							>
	Extended Standard		Resume					
			Restart					
			All Tasks	>				
			Refresh					
			Propertie	s				
			Help					

3. Verify that AgcCls is allowed to communicate through Windows Defender Firewall. Run the windows "**Allowed Apps and Features**" application and verify that the AGC Concurrent License Server is listed, and all associated check boxes are checked, as shown below:

> Control Panel > System and Security > Windows Defender Firewall > Al	lowed apps		~
llow apps to communicate through Windows Defender Firew	vall		
add, change, or remove allowed apps and ports, click Change settings.			
hat are the risks of allowing an app to communicate?	- 😲 Ch	ia <u>ng</u> e sett	ing
Allowed apps and features:			
Name	Private	Public	^
☑ @{Microsoft.Windows.CloudExperienceHost_10.0.16299.15_neutral_neutral_	c 🗹		
☑ @{Microsoft.Windows.Cortana_1.9.6.16299_neutral_neutral_cw5n1h2txyewy	? 🔽		
@FirewallAPI.dll,-80201	\checkmark	\checkmark	
☑ @FirewallAPI.dll,-80206		✓	
		✓	
☑ 3D Viewer	\checkmark	✓	
GC Concurrent License Server			
🗹 AllJoyn Router	\checkmark		
Amazon Alexa	\checkmark	✓	
✓ App Installer	\checkmark	\checkmark	
☑ Apple Push Service	\checkmark	✓	
🗌 bluejeans.exe		✓	Y
	Detai <u>l</u> s	Re <u>m</u> ov	e