

Version 9.2 SmartPTT Enterprise Web Client Installation Guide

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1 About This Document

This guide describes how to install and configure SmartPTT Web Client. It also contains a list of issues that a user may experience while configuring it. This guide does not cover the installation or configuration of the SmartPTT desktop version or SmartPTT Radioserver.

For additional information, see the corresponding guides.

2 System Requirements

Before installing and configuring the SmartPTT Web Client, ensure your computer meets the following requirements:

Operating system

- Windows "Client" systems: Windows 7 and newer
- Windows "Server" systems: Windows Server 2008 and newer

Additional software

- Microsoft SQL Server 2008 Express (available at <u>https://www.microsoft.com/en-US/download/details.aspx?id=1695</u>)
- Microsoft .NET Framework 4 and newer (available at <u>https://www.microsoft.com/en-US/download/details.aspx?id=3556</u>)
- ASP.NET MVC Framework 3.0 (available at <u>https://www.microsoft.com/en-US/download/details.aspx?id=4211</u>)
- Internet Information Services 7.5 Express (available at <u>https://www.microsoft.com/en-US/download/details.aspx?id=1038</u>)

2.1 Supported Web Browsers

The following browsers can be used for connecting to the SmartPTT Web Client:

- Internet Explorer 11
- Google Chrome 43 and newer
- Mozilla Firefox 47 and newer

3 System Preconfiguration

Before preconfiguration, ensure that computer has all <u>additional software</u> installed. SmartPTT Web Client installation package is also necessary.

System preconfiguration is performed in the stated sequence:

- 1. Registering ASP.NET.
- 2. Turning on Windows Features.
- 3. Preparing SmartPTT SmartPTT Web Client folder.

3.1 Registering ASP.NET

To register ASP.NET in Internet Information Services (IIS), follow these steps:

- 1. Run Command Prompt as an administrator.
- In the Administrator: Command Prompt window, specify the file path to Microsoft
 .NET Framework and press Enter:
 - a. If 32-bit operating system and default file path, enter *cd C:* \Windows\Microsoft.NET\Framework\v4.0.30319
 - b. If 64-bit operating system and default file path, enter *cd C:* \Windows\Microsoft.NET\Framework64\v4.0.30319
- 3. Enter *aspnet_regiis.exe -i* to register ASP.NET.

If ASP.NET is successfully registered, the following message appears:



3.2 Turning on Windows Features

To turn on Windows features that are necessary for the SmartPTT Web Client work, follow these steps:

- 1. Open Turn Windows features on or off.
- In the Windows Features window, expand Internet Information Services → Web Management Tools.
 - a. Select the items as it is shown on the figure below:



- 3. Expand Internet Information Services → World Wide Web Services → Application Development Features.
 - a. Select the items as it is shown on the figure below:



Expand Internet Information Services → World Wide Web Services → Application Development Features.

a. Select the items as it is shown on the figure below:

Internet Information Services									
🕀 🗌 📙 FTP Server									
🗄 🔳 📊 Web Management Tools									
🖃 🔳 📙 World Wide Web Services									
🗉 🔳 📙 Application Development Features									
🖃 🔳 🔂 Common HTTP Features									
Default Document									
Directory Browsing									
HTTP Errors									
HTTP Redirection									
Static Content									
WebDAV Publishing									

- 5. Expand Internet Information Services \rightarrow World Wide Web Services \rightarrow Health and Diagnostics.
 - a. Select the items as it is shown on the figure below:



6. Expand Internet Information Services → World Wide Web Services → Security.

a. Select the items as it is shown on the figure below:



7. Click **OK** and close the **Windows Features** window.

4 Web Client Access Configuration

SmartPTT Web Client can be accessed locally and globally. You can configure both local and global access to Web Client if required.

Access configuration consists of the following steps:

- 1. Preparing SmartPTT Web Client folder.
- 2. Managing website in Internet Information Services (IIS) Manager.
- 3. Forwarding router ports (for the global access).

4.1 Preparing Web Client Folder

To prepare the **SmartPTT Web Client** folder, follow these steps:

- 1. Ensure that *C*:*inetpub* folder exists. If not, ensure you preconfigured system properly.
- 2. Unpack SmartPTT installation package.
- 3. From the SmartPTT installation package folder, copy the **SmartPTT Web Client** folder to *C:\inetpub*.
- 4. Rename the **SmartPTT Web Client** folder depending on the access you want to configure. We recommend you to use the following names:
 - SmartPTT LAN if you configure the local access
 - SmartPTT WAN if you configure the global access

NOTE

To make configuring both local and global access to Web Client possible, you should copy **SmartPTT Web Client** folder to **intepub** folder twice and rename the folders depending on the access type.

4.2 Managing Website

4.2.1 Adding Website

To add a web site to Internet Information Services (IIS), follow these steps:

1. Open Internet Information Services (IIS) Manager.

2. In the **Connections** pane, expand the main node.

💐 Internet Information Services (IIS) Manager														
← → ♥ ÞESKTOP-3GIT5JH ►														
File View Help														
Connections	🖣 DE	SKTOP-30	GIT5JH H	lome										
DESKTOP-3GT15JH (DESKT	Filter:		• 🚏 Go 🔹	😓 Show All 🛛	Group by: Ar	ea	+							
> 🔞 Sites	ASP.NET -													
	10		404	٢		¥=	ab							
	.NET Authorizat	.NET Compilation	.NET Error Pages	.NET Globalization	.NET Trust Levels	Application Settings	Connection Strings							

3. Right-click **Sites** and click **Add Website**.

📬 Internet Information Services (IIS) Manager											
← → ● DESKTOP-3	3GIT5JH 🕨										
File View Help											
Connections	DESKTOP-3GIT5JH Home										
DESKTOP-3GIT5JH (DESKT Application Pools Sites	Filter: Go Go Group by: Area	-									
💣 Add Wel	ebsite 🌢 🔔 🍋										
🚱 Refresh	.NET .NET Error .NET .NET Trust Application	Connection									
📑 Switch to	to Content View mpilation Pages Globalization Levels Settings	Strings									

4. In the **Add Website** window, perform the following actions:

Add Website				?	×
Site name:] [Application pool: DefaultAppPool		Select	
Content Directory					
Physical path:					
Pass-through authent	ication	_			
Connect as	est Settings				
Binding					
Туре:	IP address:		Port:		
http \sim	All Unassigned		~ 80		
Host name:					
Example: www.contos	o.com or marketi	ing.contoso.com			
Start Website immedi	ately				
			ОК	Cano	:el

- a. In the **Site name** field, enter the name of a new website. It is recommend to use the following names:
 - **SmartPTT LAN:** For a website intended for the local access.
 - **SmartPTT WAN:** For a website intended for the global access.

- b. In the **Physical path** field of the **Content Directory** area, specify the path to the **renamed SmartPTT Web Client** folder.
- c. Leave the **Type** field unchanged.
- d. From the **IP address** list, select an IP address that will be used to access to Web Client. IP-addresses of websites intended for different accesses should be the same.
- e. In the **Port** field, enter the port on which Web Client will be available in the browser. Ports of websites intended for different accesses should differ.
- f. Leave the **Host name** field unchanged.
- g. *Optional:* Select the **Start Website immediately** check box to start the website just after its creation.
- h. Click **OK** to apply changes and close the window.

4.2.2 Configuring Website

To configure a website, follow these steps:

- 1. Open Internet Information Services (IIS) Manager.
- 2. In the **Connections** pane, expand the main node and click **Application Pools**.



3. In the **Application Pools** pane, click the created website.

Internet Information Services	(IIS) Manager					
← → DESKTOP-30	GIT5JH Application P	ools				
File View Help						
Connections	Applicat This page lets you view isolation among differ	ion Poc w and mana rent applica) S age the list of ap tions.	pplication pools on	the server. Application	pools are associated
y ones	Filter:	- 7	Go 🕞 🙀 Sho	w All Group by:	No Grouping	•
	Name	Status	.NET CLR V	Managed Pipel	Identity	Applications
	.NET v4.5	Started	v4.0	Integrated	ApplicationPoolld	0
	.NET v4.5 Classic	Started	v4.0	Classic	ApplicationPoolld	0
	🔊 DefaultAppPool	Started	v4.0	Integrated	ApplicationPoolld	1
	SmartPTT	Started	v4.0	Integrated	ApplicationPoolld	1

4. In the **Actions** pane, click **Basic Settings**.

	– 🗆 X
	🕶 🖂 🏠 🔞 🕶
Act	tions
1	Add Application Pool
	Set Application Pool Defaults
	Application Pool Tasks
₽	Start
	Stop
2	Recycle
	Edit Application Pool
	Basic Settings
	Recycling
	Advanced Settings
	Rename
×	Remove
	View Applications
?	Help

5. In the **Edit Application Pool** window, select the <u>installed</u> Microsoft .NET Framework and click **OK**.

Edit Application Pool	?	×
Name:		
SmartPTT		
.NET CLR version:		
.NET CLR Version v4.0.30319		\sim
.NET CLR Version v4.0.30319		
No Managed Code		
Integrated \checkmark		_
Start application pool immediately		
ОК	Cancel	

4.2.3 Starting Website

To start a website, follow these steps:

1. In the **Connections** pane, expand *Your Main Node* \rightarrow **Sites**.

♥i Internet Information Services (IIS) Manager												
← → DESKTOP-3GIT5JH → Application Pools												
File View Help												
Connections Connections Application Pools Connections Application Pools Connections Connec												
SmartPTT	Name NET v4.5 DefaultAppPool SmartPTT	Status Started Started Started Started	.NET CLR V v4.0 v4.0 v4.0 v4.0 v4.0	Managed Pipel Integrated Classic Integrated Integrated	Identity ApplicationPoolld ApplicationPoolld ApplicationPoolld	Applications 0 0 1 1						

2. Right-click the created website, then point to **Manage Website** and click **Start** to start Web Client.



NOTE

If you want to get both local and global access to Web Client, repeat adding, configuring, and starting procedures using corresponding settings.

4.3 Forwarding Router Ports

If you configure global access to Web Client, forward the following ports on your router:

- Port *8191*
- Port 8888
- Port 18500
- Port you specified for the website

5 Configuration Procedure

Configuration procedures include SmartPTT Radioserver configuration to work with Web Client.

All necessary configuration is made via SmartPTT Radioserver Configurator. To apply changes you should save them and restart SmartPTT Radioserver.

You will also need to perform necessary configurations in SmartPTT Audio Proxy and SmartPTT WebSocket Server.

5.1 Checking Licenses

You should have proper licenses to use Web Client.

To check the license, follow these steps:

- 1. On the **Settings** tab of SmartPTT Radioserver Configurator, click **Licenses**.
- 2. In the **Licenses** pane scroll down the list of licenses and find the following items:
 - **Web Service:** Needed to allow the connection to SmartPTT Radioserver and transmit data to Web Client (GPS, text messages).

• Voice Console for Web Services: Needed for voice transmission between Web Client and SmartPTT Radioserver.

🖉 Sma	rtPTT Serve	er Configui	ation - (C:\Progra	im Files	(x86)\SmartPTT\Server\RadioService.exe.	config	-	
ettings	Networks	Client List	Rules	Activity	Log	Export/Import Settings Statistics			
	Radio Serve Licenses Radio Netw Add-on Moo Profiles	er ork Service: Jules	3			Licenses Licensed to: SmartPTT Customer License key ID: 20090416 Contacts:			
	Radio Grou Metadata	D				Address:	/16/2035		
						License	Quantity	Expiration Date	^
						Web Service	1	04/16/2035	
						Indoor Tracking	1	04/16/2035	
						Connect Plus Data Support	1	04/16/2035	
						Voice Console for Web Service	2	04/16/2035	
						NAI Data for IP Site Connect	1	04/16/2035	
						NAI Data for Capacity Plus	1	04/16/2035	
						NAI Data for Linked Capacity Plus	1	04/16/2035	~
						Change License			
						Activation			
						Hardware ID			
						Collect	Сору		
						Collect	Сору		

NOTE

Voice can be transmitted to Web Client only via Control Stations in any supported system.

5.2 Configuring WebSocket Server

Web Client accesses SmartPTT Radioserver via WebSocket Server.

To configure WebSocket Server, follow these steps:

1. On the **Settings** tab of SmartPTT Radioserver Configurator, expand **Add-on Modules** and click **Clients Connection**.

🎯 Sma	rtPTT Serve	er Configur	ation - (C:\Progra	m Files	(x86)\SmartPTT\Serv	er\RadioSer	vice.exe.config		_		\times
Settings	Networks	Client List	Rules	Activity	Log	Export/Import Setting	s Statistics					
	Radio Serve Licenses	er				Clients Connect	ion					_
🕀 💣	Radio Netw	ork Services	5			-WebSocket Sen	/er					
	Add-on Mod	ules				Interface 4		~	Port	8191		
	🚺 Tallysma	an				Intendee 7	ПУ	Ť	1 OIL	0.01	•	
	Indoor 1	racking										
±	Event L	og				Codec		BroadVoice			\sim	
	Phone (alls										
±	🚲 bridging	otifications										
	Clients (Connection										
	Monitori	ng										
	User Au	thorization										
- 👧	Profiles											
	Radio Group	0S										
÷	Metadata											

- 2. Select proper interface in the **Interface** field of the **WebSocket Server** list.
- 3. In the **Port** field enter the port for the WebSocket Server.
- 4. Select proper voice codec in the **Codec** list.
- 5. Click **Save b** to save changes.
- 6. Click **Restart I** to restart *SmartPTT Radioserver* and apply changes.

5.3 Client Profile Management

5.3.1 Adding Profile

To add a new profile, follow these steps:

1. In the **Settings** tab of SmartPTT Radioserver Configurator, right-click **Profiles** and click **Add**.



- 2. Click **Save b** to save changes.
- 3. Click **Restart I** to restart *SmartPTT Radioserver* and apply changes.

5.3.2 Configuring Profile

To configure profile, follow these steps:

1. In the **Settings** tab of SmartPTT Radioserver Configurator, expand **Profiles** and click the needed profile. Its settings will appear in the **Profiles** pane.



- 2. Enter a new profile name in the **Name** field.
- 3. If needed, select **Limit radios to Service**. This option requires specification of available radio IDs.
- 4. Enter radio IDs in the **Allowed Radio IDs** field as presented in the example.
- 5. If needed, click **Collapse All** to facilitate systems visualization.
- 6. Select and expand the radio system you want to be available for the client then select the needed parameters for it.
 - a. Select **All Call** (if configured) to allow calling all radios on the related channel.
 - b. Select **Group #** (if configured) to allow group calls to the client on the related channel

- c. Select **Private Calls** to allow private calls between the client and radio.
- d. Select **Private calls monitoring** to allow Web Client listening private calls between radios.
- e. Select and expand **Radio Network Service** to activate the following features:
 - i. Select **GPS** to allow location data transmission to Web Client.
 - ii. Select **TMS** to allow text messages transmission between SmartPTT Radioserver and Web Client.
- 7. Repeat step 6 with the substeps for other selected systems.
- 8. Click **Save b** to save changes.
- 9. Click **Restart (b)** to restart *SmartPTT Radioserver* and apply changes.

5.3.3 Deleting Profile

Deleting profile is an irreversible action. No confirmation messages appear during the deleting.

To delete an existing profile, follow these steps:

1. On the **Settings** tab of SmartPTT Radioserver Configurator, right-click the needed profile and click **Delete**.

🎯 Smart	PTT Serve	r Configur	ation - (C:\Progra	ım Files	(x86)\SmartPTT\Server	\RadioServic	e.exe.config	I.	—	×
Settings	Networks	Client List	Rules	Activity	Log	Export/Import Settings	Statistics				
	adio Serve icenses	r				Profile					_
⊨	adio Netwo dd-on Mod	ork Services ules	;			Name	Profile 1				
P	rofiles	I				Limit Radios to Servi	ce				
	adio Group	Del	ete						Example: 1-99,	150	
i 🗊 №	letadata					Allowed radio ID's			1-16776415		
						Expand All	Collap	se All	💧 💧 Up		
						Control Station	11				
							13				

- 2. Click **Save b** to save changes.
- 3. Click **Restart I** to restart *SmartPTT Radioserver* and apply changes.

5.4 Client Account Management

5.4.1 Adding and Configuring Client Account

You should configure client account right after its creation. You can also reconfigure client account at any time.

To create and modify a new client account, follow these steps:

1. In the **Client List** tab of SmartPTT Radioserver Configurator, click **All**.



2. Click **Add** to add a new client account.

NOTE

Both login and password are case sensitive.

3. In the **Name** field of the **Parameters** pane, enter client login.

🎯 SmartPTT Server Configurati	, –	<		
Settings Networks Client List N	etwork Configuration Rules Activity Log	Export/Import Settings	Statistics	
All (mobile and web clients)				
Add Delete				
Name	Parameters			
New login				
	Name New login		Change password	
	Profile Profile 1	\sim		
	Allow voice calls			

4. Click **Change password**.

5. Enter and confirm the password. Click **OK** to close the **Change Password** window.

New login: Change Password	×
Password	
Confirm password	
Ok Cancel	

- 6. Select the profile from the **Profiles** list.
- Select Allow voice calls to allow voice transmission between SmartPTT Radioserver and Web Client.
- 8. Click **Save b** to save changes.
- 9. Click **Restart I** to restart *SmartPTT Radioserver* and apply changes.

5.4.2 Deleting Client Account

Deleting client account is an irreversible action. No confirmation messages appear during the deleting.

To delete an existing client account, follow these steps:

- 1. In the left pane of the **Client List** tab of SmartPTT Radioserver Configurator, click the desired client.
- 2. Click **Delete**.

🎯 SmartPTT Server Configuration - C:\Program Files (x86)\SmartPTT\Server\RadioService.exe.config						_		×	
Settings Networks Client List Network Confi	guration	Rules	Activity	Log	Export/Import Settings	Statistics			
 All (mobile and web clients) 		Active	е						
Add Delete									
Name	Parameters								
New login								_	- 1
	Nam	е	New log	jin		Chan	ige password		
	Profil	e	Profile 1	I	~				
		Now voic	e calls						

- 3. Click **Save b** to save changes.
- 4. Click **Restart** lo restart *SmartPTT Radioserver* and apply changes.

5.5 SmartPTT WebSocket Server Configuration

To provide connection of SmartPTT Web Client to SmartPTT Radioserver, the configuration of SmartPTT WebSocket Server is necessary. The program is included in the SmartPTT installation package and you can find it in the SmartPTT Web Client folder.

5.5.1 Configuring SmartPTT WebSocket Server for Local Access

To configure SmartPTT WebSocket Server, follow these steps:

- 1. In the **SmartPTT LAN>** folder, run **WSS.exe** as administrator.
- 2. In the **SmartPTT Enterprise WebSocket Server** window, perform the following actions:

🚽 SmartPT	T WebSocket Server	_	\times
File Hel	р		
Radioserv	er Connection		
Address:	127.0.0.1	: 8191	÷
Local Web Port:	8595		
		Save	
			-

- a. In the **Radioserver Connection** area perform the following actions:
 - i. In the **Address** field, enter the IP address you specified in the <u>Clients</u> <u>Connection</u> pane of SmartPTT Radioserver Configurator.

- ii. In the following **Port** field enter the port you specified in the <u>Clients</u> <u>Connection</u> pane of SmartPTT Radioserver Configurator.
- b. In the **Local WebSocket Server** area, enter a free port for the SmartPTT Audio Proxy program.
- c. Click **Save** and close the window.

5.5.2 Configuring SmartPTT WebSocket Server for Global Access

To configure SmartPTT WebSocket Server, follow these steps:

- 1. In the **SmartPTT WAN>** folder, run **WSS.exe** as administrator.
- 2. In the **SmartPTT Enterprise WebSocket Server** window, perform the following actions:

🖳 SmartPTT WebSocket Server	– 🗆 X
File Help	
Radioserver Connection	
Address: 127.0.0.1	✓ : 8191
Local WebSocket Server	
Port: 8595 🜩	
	Save

- a. In the **Radioserver Connection** area perform the following actions:
 - i. In the **Address** field, enter the IP address of an external router.
 - ii. In the following field enter the port number of an external router.
- b. In the **Local WebSocket Server** area, in the **Port** field enter *8595*.
- c. Click **Save** and close the window.

5.6 Activating Client Support in SmartPTT Radioserver

To activate client support in SmartPTT Radioserver, follow these steps:

- 1. On the **Settings** tab of SmartPTT Radioserver Configurator, expand **Add-on Modules** \rightarrow **Clients Connections**.
- 2. Click **Web Service**.

SmartPTT Server Configuration - C:\Program Files	—	\times	
Settings Networks Client List Rules Activity Log	Export/Import Settings Statistics		
Radio Server	Web Service		
Group Add-on Modules	Active		
Tallysman Indoor Tracking			
in			
Web Service Mobile Clients			
Monitoring			

- 3. In the **Web Service** pane, select **Active**.
- 4. Click **Save b** to save changes.
- 5. Click **Restart I** to restart *SmartPTT Radioserver* and apply changes.

6 Checking Web Client Connection

To make sure websites are configured properly, you can perform the following actions:

Checking from the web browser

- 1. Open a web browser.
- 2. In the address bar of the browser, enter the <u>IP address</u> and the <u>port</u> that you specified during the adding the web site procedure.

If Web Client is configured properly, the following window appears:

\Box SmartPTT Subscribers $ imes$	+			-		×
\leftarrow \rightarrow \circlearrowright 192.0.	2.0:80	☆	=	1	٩	
Map Satellite						
Ргіобякіў Приобски	SmartPTT Web Console 9.1 Authentication	Б				NSKI
	Login: Password:	d. Statu				N (ий р
Marusino	If you encounter any issue, let us know <u>http://support.smartptt.com/hc/en-us/requests/new</u> .	Sepe				
arterte	Ok Cancel	5				5
	Novosibi	ctyabrskaya анция Октябр irsk ирск				√Т *Кu СН Культ

Checking from the IIS Manager

1. Open Internet Information Services (IIS) Manager.

Click the name of the added website and then click Browse <IP address of the web site >:< port > (http) in the Actions pane.



If the website is configured properly, a browser with the SmartPTT Subscribers tab opens.