30 Starting 'Pro-Server EX' in the Service Mode

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30.1 Try to Start 'Pro-Server EX' in the Service Mode

There are two types of mode to start 'Pro-Server EX' in: "Normal Mode" and "Service Mode". "Normal Mode" is set just after installation. Log on to Windows as well as normal applications to start 'Pro-Server EX' (Refer to "3.1 Starting 'Pro-Studio EX'" for more details on how to start in the normal mode).

When 'Pro-Server EX' is set to start in "Service Mode", 'Pro-Server EX' starts up with Windows. You do not need to log on to Windows to start it. This function is useful when you use 'Pro-Server EX' for system operation.

IMPORTANT]	When starting 'Pro-Server EX' in the "Service Mode", you cannot use the "Excel Form" or
	"Creating a Form Using Excel" Actions.

- "Service Mode" is not available when using WinGP SDK.
- To start 'Pro-Server EX' as a service on Windows Vista or later, the "User Account Control Function" must be disabled. Refer to "30.2 Restrictions" for more details.
- There are further restrictions. Refer to "30.2 Restrictions" for more details.

30.1.1 Settings to Start 'Pro-Server EX' in the Service Mode

To start 'Pro-Server EX' as Windows service (in the "Service Mode"), start 'Pro-Studio EX' first and set the operation mode of 'Pro-Server EX' to "Service Mode".

1 Click [Pro-Server EX Environmental Setting] under [Setting] menu.



- You can also select [All Programs] [Pro-face] [Pro-Server EX] [Pro-Server EX Environmental Setting] from the Windows [Start] button to display the [Pro-Server EX Environmental Setting] screen.
 - When using 'Pro-Server EX' on Windows Vista or later, the "User Account Control" dialog box will be displayed before performing "Environmental Setting". When it is displayed, click [Allow].

2 Check [Start Pro-Server EX as a service].

🖗 Pro-Server EX Environment Settings 🛛 🗙
Start Pro-Server EX as a service
Start Pro-Server EX when PC starts
The Network Project to be automatically loaded when Pro-Server EX starts
Network Project File
E:\Program Files\Pro-face\OPC Server for Pro-Server EX\Sa Browse
Show Pro-Server EX icon on the task tray
DDE Polling Cycle 1000 ms
Pro-Server EX is used with the terminal service or multi log-on user.
ACTION Registration OK Cancel

NOTE • To start 'Pro-Server EX' in "Normal Mode", uncheck [Start Pro-Server EX as a service].

3 When you check [Start Pro-Server EX as a service], the dialog box to notify you of restrictions is displayed. Click the [OK] button.



4 Click the [OK] button.



If you change the [Start Pro-Server EX as a service] option while 'Pro-Server EX' is running, the following dialog box is displayed: Click the [Yes] button.

erver EX must be terminated.	Pro-Server EX start-up mode has been change To change the start-up mode, the currently runn Are you sure to close it?
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5 Click the [OK] button.

[OK].



• If you have started 'Pro-Server EX', exit and start it again. NOTE In the Normal Mode: Startup of 'Pro-Server EX' In the Service Mode: 30.1.2 Starting and Closing 'Pro-Server EX' in the "Service Mode"

NOTE

• When you check [Start Pro-Server EX as a service] ("Service Mode"), the "Startup Type" of 'Pro-Server EX' is set to "Automatic" on the [Services] screen. When you start or restart your PC next time, 'Pro-Server EX' automatically starts.



• When you uncheck [Start Pro-Server EX as a service] (normal mode), the "Startup Type" of 'Pro-Server EX' is set to "Manual" on the [Services] screen.

30.1.2 Starting and Closing 'Pro-Server EX' in the "Service Mode"

When you set the starting method of 'Pro-Server EX' to "Service Mode", it automatically starts when you start or restart your PC. However, just after you change the starting method or you close it manually, start it as follows:

- Log on to Windows with the user name of "Administrator" or of the equivalent
 administrator authority. Refer to the operation manual of the OS for the user authority.
 - When you set the starting method of 'Pro-Server EX' to "Normal Mode", you cannot use this method. Refer to "30.1 Try to Start 'Pro-Server EX' in the Service Mode" and change to "Service Mode".
- When 'Pro-Server EX' is set to start in "Service Mode", you can also click on the 'Pro-Server EX' icon on the desktop or select 'Pro-Server EX' from the [Start] button on Windows to start it.
 You can also select 'Close Pro-Server EX' from the [Start] button on the task bar to close it.
- 1 After you click the [Start] button on the task bar, click "Control Panel" from "Settings" ("Performance and Maintenance" under "Control Panel" depending on the OS), and select "Services" under "Administrative Tools".

No. Services					_ [X
File Action View	Help					
← → 🖪 🛃						
Services (Local)	🍇 Services (Local)					
	Select an item to view its description.	Name 🛆	Description	Status	Startup Type	
		NET Runtime Optimi	Microsoft .N		Manual	
		🖏 Alerter	Notifies sele		Disabled	
		🏟 Application Layer Ga	Provides su	Started	Manual	
		🍓 Application Manage	Provides so		Manual	
		🍓 ASP.NET State Serv	Provides su		Manual	
		🆏 Automatic Updates	Enables the	Started	Automatic	
		🍓 Background Intellige	Transfers d		Manual	
		🎭 ClipBook	Enables Cli		Disabled	
		🎭 COM+ Event System	Supports Sy	Started	Manual	
		🍓 COM+ System Applic	Manages th		Manual	
		🍓 Computer Browser	Maintains a		Automatic	
		🍓 Cryptographic Servic	Provides thr	Started	Automatic	
		🏶 DCOM Server Proce	Provides Ia	Started	Automatic	
		🎭 DHCP Client	Manages n	Started	Automatic	
		🇠 🦓 Distributed Link Trac	Maintains li	Started	Automatic	-
		48. Krist 1 1 1 1 1			Υ '	۱Ë
	Extended Standard	-				
						_

2 Right-click on 'Pro-Server EX' and select [Properties] from the menu.



- You can also select [Start] from the menu to start 'Pro-Server EX'. When you select [Stop] or [Restart], you can close or restart 'Pro-Server EX'.
- **3** Click the [Start] button on the [General] tab.

Pro-Server EX Pro	perties (Local Computer)	? ×
General Log On	Recovery Dependencies	
Service name:	Pro-Server EX	
Display name:	Pro-Server EX	
Description:	Pro-Server EX Runtime Service	
Path to executable "E:\Program Files"	e: \Pro-face\Pro-Server EX\ProServr.exe'' /s	
Startup type:	Automatic	
Service status:	Stopped	-
Start	Stop Pause Resume] [
from here.	e start parameters that apply when you start the service	.
Start parameters:		
	OK Cancel Appl	y.

NOTE

• You can click the [Stop] button to close 'Pro-Server EX'.

• If the "Startup type" is not set to "Automatic", 'Pro-Server EX' does not start automatically when starting or restarting a PC. To start it automatically, set the "Startup type" to "Automatic".

The "Service Control" screen is displayed.



4 Click the [OK] button.

Pro-Server EX Pro	operties (Local Computer)				
General Log On	Recovery Dependencies				
Service name:	Pro-Server EX				
Display name:	Pro-Server EX				
Description:	Pro-Server EX Runtime Service				
Path to executab "E:\Program File	Path to executable: "E:\Program Files\Pro-face\Pro-Server EX\ProServr.exe'' /s				
Startup type:	Automatic				
Service status:	Started				
Start	Stop Pause Resume				
You can specify the start parameters that apply when you start the service from here.					
Start parameters:					
	OK Cancel Apply				

30.2 Restrictions

- Restrictions when Starting 'Pro-Server EX' in the "Service Mode"
 - Be sure to check "Allow service to interact with desktop". If you uncheck it, operation cannot be guaranteed. Confirm the setting as follows:
 - 1. After you click the [Start] button on the task bar, select "Administrative Tools" and "Services" under the "Control Panel".
 - 2. Right-click on 'Pro-Server EX' and select [Properties] from the menu.
 - 3. Click the [Log On] tab and confirm "Allow service to interact with desktop" is checked. If unchecked, check it.
 - 4. Click the [OK] button.
 - Do not use the "Excel Form" or "Creating form using Excel" Actions. Operation cannot be guaranteed if you use them.
 - Do not use the "DDE function" of 'Excel'. If you use it, Excel freezes.

On Windows Vista or Later

• The "User Account Control" dialog box will be displayed before performing "Environmental Setting". When it is displayed, click [Allow].



- To start 'Pro-Server EX' as a service, the "User Account Control Function" must be disabled. Refer to the following for the steps to disable the "User Account Control Function".
 - 1. After you click the [Start] button on the task bar, select "User Account" under the "Control Panel".
 - 2. Click "Turn User Account Control on or off".
 - 3. Uncheck the [Use User Account Control (UAC) to help protect your computer] option and click the [OK] button.
- To start 'Pro-Server EX' as a service, the following ACTIONs are not supported.

- Writes Data to Excel Book
- Upload of GP Log Data
- Automatic Upload of GP Filing Data
- Automatic Download of GP Filing Data
- Download Recipe data for Excel
- Upload to the database
- Download from the database

Executing any of these ACTIONs will lead to an error and no processing is performed. However, setting as follows makes the execution possible even when Pro-Server EX runs as a service:

1. In the command input field of the [Start] menu, type "dcomcnfg".

	Control Panel
	Default Programs
Search Everywhere	a second a s
🔎 Search the Internet	Help and Support
dcomcnfg] ×	

[Component Services] is displayed.

 From the left-hand tree, select [Console Root]-[Component Services]- [Computers]- [My Computer]-[DCOM Config]-[Microsoft Excel Application].



- 3. From the right-click menu, select [Properties].
- 4. In the Properties dialogue, display the [Identity] tab.

5. Select [This user], enter a user with Administrator rights for the [User], and set the [Password].

Microsoft Excel Application Properties					
General Location Security Endpoints Identity					
Which user account do you want to use to run this application?					
The interactive user.					
⑦ The launching user.					
This user.					
User: Administrator Browse					
Password:					
Confirm password:					
The system account (services only).					
Leam more about setting these properties.					
OK Cancel Apply					

6. Press [OK] and restart the operating system.

This allows the aforementioned ACTIONs but prevents the user who has logged in from using Microsoft Excel. (An OLE-related error will occur.)

Therefore, the user needs to use another computer to open a Microsoft Excel file. Please take notice of this restriction on using Microsoft Excel.