



**NetIQ Security Solutions for IBM i**  
**Trinity Guard Product Suite Release 1.6**  
**Installation and Configuration Guide**

Revised October 2017

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# 1. IBM i

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## 1.1. IBM® i OS Requirements

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TG products are supported on the following IBM i OS versions:

- V5R4
- V6R1
- V7R1
- V7R2
- V7R3

**Important:** This product does not support the emulator (workstation) display size of 24x80. You must change the display to size to 27x132. If you do not change the display size, you will receive the error message **CPF4169**.

See also: [Change Emulator Display Size](#)

## 1.2. Install TG Products on IBM i Series Server

---

Use this task to install the available TG products on an IBM i Series server. This task describes the following:

Step 1: [Extract the compressed installation files](#)

Step 2: [Locate the installation program](#)

Step 3: [Log into the FTP IBM i Server](#)

Step 4: [Transfer and run installation program](#)

### 1.2.1. Extract Installation Files

---

To extract the installation files

- 1) Locate the **TGINSTALL.zip**.
- 2) Save the zip file to the desired location on the server.
- 3) extract the files.

### 1.2.2. Locate the Installation Program

---

To Locate the SVF file

- 1) Access the unzipped installation files.
- 2) Locate the **tginstall.svf** file.

### 1.2.3. Log into FTP IBM i Server

---

To log into the FTP IBM i server

- 1) At a Windows command prompt, enter the following:

FTP <IBM i system name>

- 2) Press ENTER.

## 1.2.4. Transfer and Run Installation Program

---

To FTP the files and run the installation program

At the FTP prompt, execute the following commands:

Command	Value
Change transfer mode to binary	BIN
Create save file on IBM i server	QUOTE RCMD CRTSAVF QGPL/TGINSTALL
Transfer tgininstall.svf to IBM i server	PUT c:\<path to>\tgininstall.svf QGPL/TGINSTALL
Restore TGINSTALL library	QUOTE RCMD RSTLIB TGINSTALL DEV(*SAVF) SAVF(QGPL/TGINSTALL) MBROPT(*ALL) ALWOBJDIF(*ALL)
Run installer	QUOTE RCMD TGINSTALL/TGINSTALL PROD(*TGAUDIT) INSTYPE(*INSTALL) EULA(*ACCEPT) BATCH(*NO)

See also:

[TGMenu Configuration](#)

## 1.3. Uninstall TG Products from IBM i Series Server

---

Use this task to uninstall TG products from your IBM i Series server. This task describes the following:

**Step 1:** [Log into the IBM i Server](#)

**Step 2:** [Remove the TG product files](#)

**Step 3:** [Delete the TGINSTALL library](#)

**Step 4:** [Delete the TGOWNER object](#)

**Step 5:** [Delete the TGAUTL object](#)

### 1.3.1. Log into the IBM i Server

---

To access the IBM i Main Menu

- Sign into IBM i using your \*SECOFR user class profile.

### 1.3.2. Remove the TG Product Files

---

To remove the TG product files

- 1) At the **Selection or command** prompt, enter **TGINSTALL/TGINSTALL PROD(\*TGAUDIT) INSTYPE(\*REMOVE)**.
- 2) Press **Enter**.

**Note:** If you have multiple products installed, run this command for each product (i.e., TGAudit, TGSecure, etc.)

```
MAIN                                IBM i Main Menu

Select one of the following:

  1. User tasks
  2. Office tasks
  3. General system tasks
  4. Files, libraries, and folders
  5. Programming
  6. Communications
  7. Define or change the system
  8. Problem handling
  9. Display a menu
 10. Information Assistant options
 11. IBM i Access tasks

 90. Sign off

Selection or command
==> TGINSTALL/TGINSTALL PROD(*TGAUDIT) INSTYLE(*REMOVE)
```

### ***1.3.3. Delete the TGINSTALL Library***

---

To delete the TGINSTALL library

- 1) At the Selection or command prompt, enter **DLTLIB LIB(TGINSTALL)**.
- 2) Press **Enter**.

### ***1.3.4. Delete the TGOWNER Object***

---

To delete the TGOWNER object

- 1) At the Selection or command prompt, enter **DLTUSRPRF USRPRF(TGOWNER)**.
- 2) Press **Enter**.

### ***1.3.5. Delete the TGAUTL Object***

---

To delete the TGAUTL object

- 1) At the Selection or command prompt, enter **DLTAUTL AUTL(TGAUTL)**.
- 2) Press **Enter**.

## ***1.4. Upgrade TG Products on IBM i Series Server***

---

Use this task to upgrade the available TG products on an IBM i Series server. This task describes the following:

**Step 1:** [Extract the compressed installation files](#)

**Step 2:** [Locate the installation program](#)

**Step 3:** [Log into the FTP IBM i Server](#)

**Step 4:** [Transfer the installation program](#)

**Step 5:** [Restore the install library](#)

**Step 6:** [Run the upgrade command](#)

## 1.4.1. Extract Installation Files

---

To extract the installation files

- 1) Locate the **tginstall.zip**.
- 2) Save the zip file to the desired location on the server.
- 3) extract the files.

## 1.4.2. Locate SVF File

---

To locate the SVF file

- 1) Access the unzipped installation files.
- 2) Locate the **tginstall.svf** file.

## 1.4.3. Log into FTP IBM i Server

---

To log into the FTP IBM i server

- 1) At a Windows command prompt, enter the following:  
**FTP <IBM i system name>**
- 2) Press **ENTER**.

## 1.4.4. Transfer Installation Program

---

To transfer the installation file

At the FTP prompt, execute the following commands:

Command	Value
Change transfer mode to binary	BIN
Delete old save file on IBM i server	QUOTE RCMD DLTOBJ OBJ(QGPL/TGINSTALL) OBJTYPE(*FILE)
Create new save file on IBM i server	QUOTE RCMD CRTSAVF QGPL/TGINSTALL
Transfer tginstall.svf to IBM i server	PUT c:\<path to>\tginstall.svf QGPL/TGINSTALL

## 1.4.5. Restore Installation Library

---

To restore the installation library

At the FTP prompt, execute the following commands:

Command	Value
Restore TGINSTALL library	QUOTE RCMD RSTLIB TGINSTALL DEV(*SAVF) SAVF(QGPL/TGINSTALL) MBROPT(*ALL) ALWOB JDIF(*ALL)

## 1.4.6. Run Upgrade Command

To run the upgrade command

- 1) Sign into IBM i using your \*SECOFR user class profile.
- 2) At the **Selection or command** prompt, enter **TGINSTALL/TGINSTALL INSTYPE(\*UPGRADE) EULA(\*ACCEPT) BATCH(\*NO)**.
- 3) Press **Enter**.

```

MAIN                                IBM i Main Menu                                System
Select one of the following:

  1. User tasks
  2. Office tasks
  3. General system tasks
  4. Files, libraries, and folders
  5. Programming
  6. Communications
  7. Define or change the system
  8. Problem handling
  9. Display a menu
 10. Information Assistant options
 11. IBM i Access tasks

 90. Sign off

Selection or command
==> TGINSTALL/TGINSTALL INSTYPE(*UPGRADE) EULA(*ACCEPT) BATCH(*NO)

```

See also:

[TGMenu Configuration](#)

## 1.5. TGMenu Configuration

### 1.5.1. Configure TGMenu

Use this task to configure the TGMenu (which provides access to TGAudit and TGSecure). This task describes the following:

**Step 1:** [Log into the IBM i Main Menu](#)

**Step 2:** Add License Key

**Step 3:** [Add Authorized Users](#)

**Step 4:** [Configure NetServer](#)

**Step 5:** [Change Emulator Display Size](#)

**Step 6:** Enable Report Filter Modifications

### 1.5.2. Step 1 - Log In

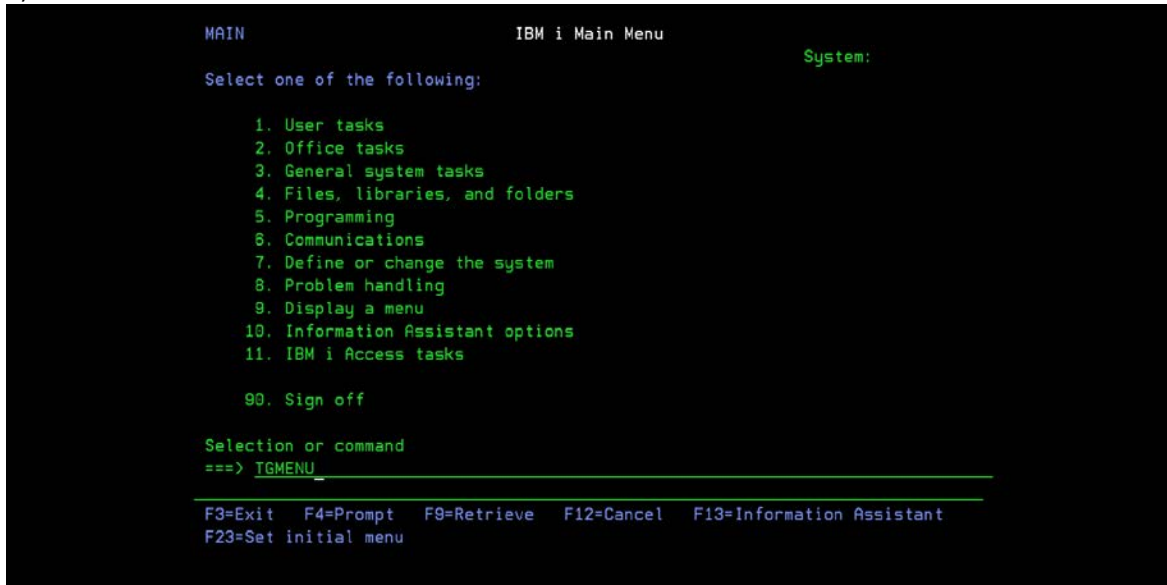
Use this task to log in from the **TG - Main** menu.

**Important:** You must have an \*SECOFR user class IBM i profile.



#### To access the TG Main menu

- 1) Sign into IBM i using your \*SECOFR user class profile.
- 2) At the **Selection or command** prompt, enter **TGMENU**.
- 3) Press **Enter**.



```
MAIN                                IBM i Main Menu                                System:

Select one of the following:

    1. User tasks
    2. Office tasks
    3. General system tasks
    4. Files, libraries, and folders
    5. Programming
    6. Communications
    7. Define or change the system
    8. Problem handling
    9. Display a menu
   10. Information Assistant options
   11. IBM i Access tasks

   99. Sign off

Selection or command
==> TGMENU_

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=Information Assistant
F23=Set initial menu
```

**Note:** The **TG Main** menu is displayed.

### 1.5.3. Step 2 - Add License Key for NetIQ Customers

---

Use this task to do the following:

- [Obtain license key](#)
- [Add license key](#)

To use the product, you must have a valid license key. If a valid license key is not present, a message appears in the **System Operator** (QSYSOPR) message queue.

**Note:** A 14-day trial license is provided at the time of installation, so you can immediately begin using the product, but if you purchased a license, add it immediately to avoid any issues.

#### 1.5.3.1. Obtain License Key

##### To obtain a license key

- 1) Contact [customercare@netiq.com](mailto:customercare@netiq.com) or your NetIQ salesperson.
- 2) Create a ticket requesting a license key.

#### 1.5.3.2. Add License Key

##### To add a license key

- 1) Access the **TG Main** menu.
- 2) At the **Selection or command** prompt, enter **80** (Licensing Status).
- 4) Press **Enter**.
- 5) Press the **F6** (Add Key) function key.

- 6) Enter the license key.
- 7) Press **Enter**.

### ***1.5.4. Step 3 - Add Authorizing Users***

---

Use this task to do the following:

- [Display list of authorized users](#)
- [Add authorized user](#)

**Important:** To use the product, the administrator must grant you access.

**Tip:** If you are the administrator, don't forget to add yourself.

During installation, the following users are automatically authorized to use the product:

- QSECOFR
- The user profile that installed the product

#### **1.5.4.1. Display Authorized Users**

Use this task to display the list of current authorized users.

**To display authorized users**

- 1) Access the **TG Main** menu.
- 2) At the **Selection or command** prompt, enter **70** (Work with TG Product Users).
- 3) Press **Enter**.

**Note:** The **Edit Authorization List** interface displays.

#### **1.5.4.2. Add Authorized Users**

Use this task to add an authorized user.

**To add authorized users**

- 1) Access the **Edit Authorization List** interface.
- 2) Press the **F6** (Add new users) function key.
- 2) In the **User** column, enter the user profile of the user you want to add.
- 3) In the **Object Authority** column, enter **\*ALL**.
- 4) Press **Enter** twice.

### ***1.5.5. Step 4 - Configure NetServer to Enable Report Viewing***

---

Use this task to configure a share drive on the NetServe. This allows the system to save and immediately display reports generated in HTML, XML, or CSV formats on your screen.

- [Enable additional report outputs \(XML, HTML, CSV\)](#)
- [Create share folder](#)
- [Restrict permission to share folder](#)
- [Add IBM i Server to host table](#)
- [Map network drive to share folder](#)

**Important:** Because this share folder stores report outputs, it is important to ensure permissions to the folder are restricted to only those individuals with appropriate job-related responsibilities.

## 1.5.5.1. Enable Additional Report Outputs

Use this task to enable the displaying of XML, HTML, and CSV formats of reports.

### To enable displaying of report outputs

- 1) Start NetServer.
- 2) At an i5/OS command, enter the following:

**STRTCPSVR SERVER(\*NETSVR)**

- 3) Click **Enter**.

## 1.5.5.2. Create Share Folder

Use this task to create the share drive on which reports are to be saved.

### To create a share folder on which to save the report outputs

- 1) Create a NetServer file share called **TrinityGuard**:

**System i Navigator** → [Your Connection] → **Network** → **Servers** → **TCP/IP**

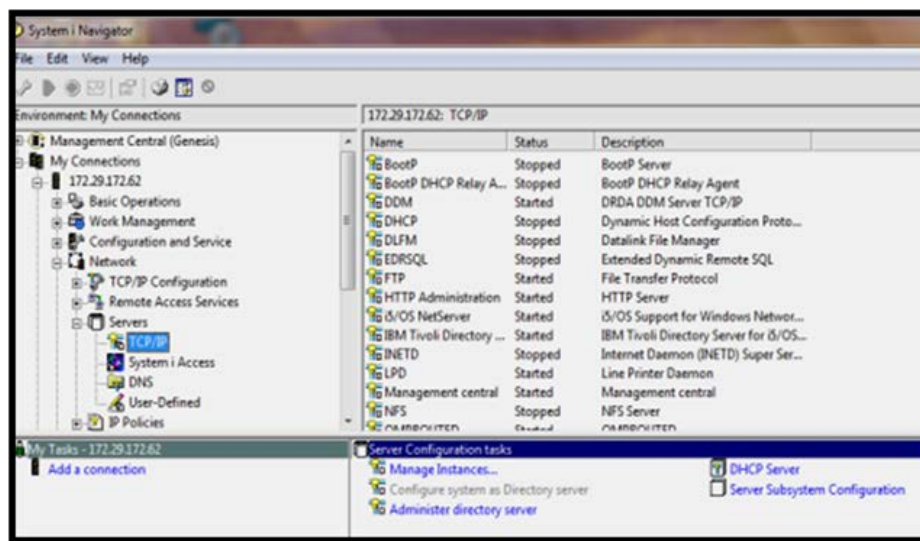


Figure: System i Navigator

- 2) Right-click **i5/OS NetServer** and select **Open**.
- 3) Right-click **Shared Objects**, and select **New** → **File**.

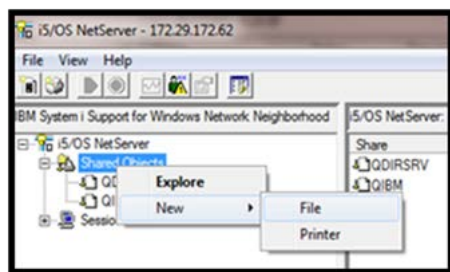


Figure: i5/OS NetServer

- 4) On the **General** tab, assign the new share the following attributes:
  - Name: **TrinityGuard**
  - Description
  - Access level
  - Maximum number of users
  - Path name: **/TrinityGuard**
- 5) Click **OK**.

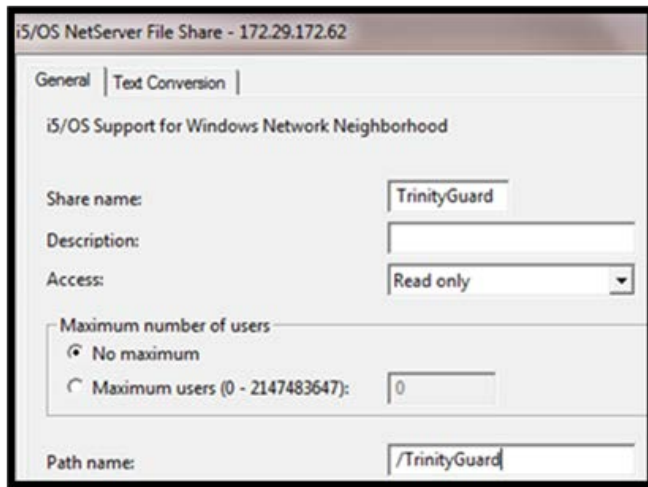


Figure: i5/OS NetServer File Share

### 1.5.5.3. Restrict Permission to Share Folder

To restrict permission to the share folder

- 1) Right click on the **TRINITYGUARD** share, and select **Permissions**.

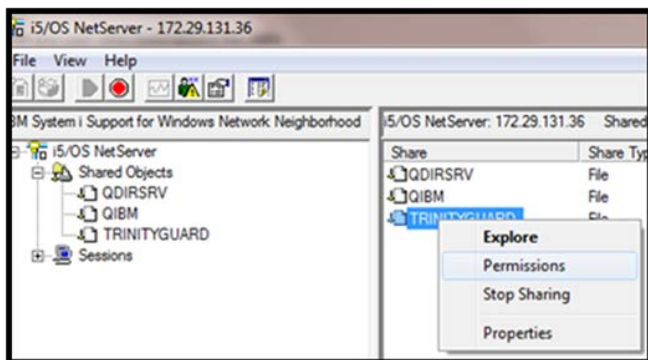


Figure: i5/OS NetServer

- 2) Click on the **Add** button:
- 3) Enter the profile name for the user you want to add.

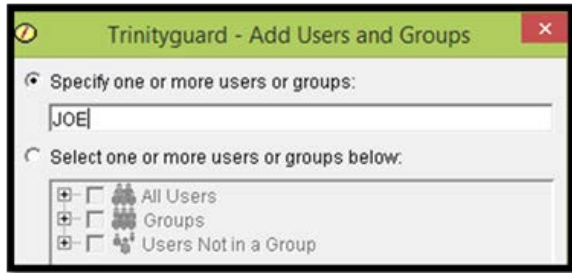


Figure: Trinityguard – Add Users and Groups

- 4) Click **OK**.
- 5) Select the desired permissions levels.

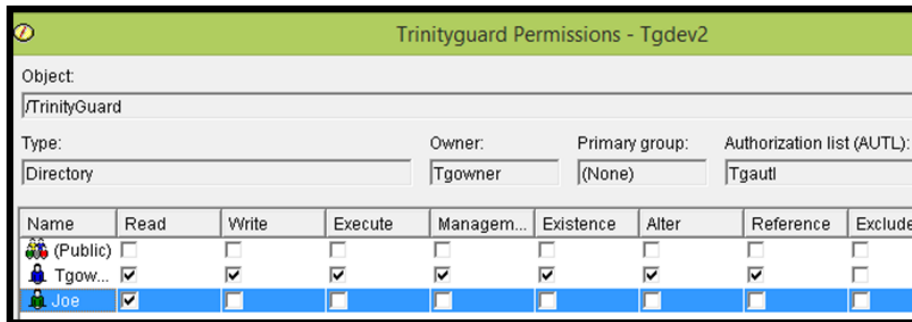


Figure: Trinityguard Permissions

- 6) Click **OK**.

**Tip:** By default, when a user is authorized to use the product through the green screen menu, they inherit permissions to this folder through the product authorization list.

## 1.5.5.4. Add IBM i Server to Host Table

### To add IBM i server to the host table

Update the hosts table on your PC to include the IBM i server IP address and server name.

- 1) Open a text editor.
- 2) Edit the file C:\Windows\System32\drivers\etc\hosts:

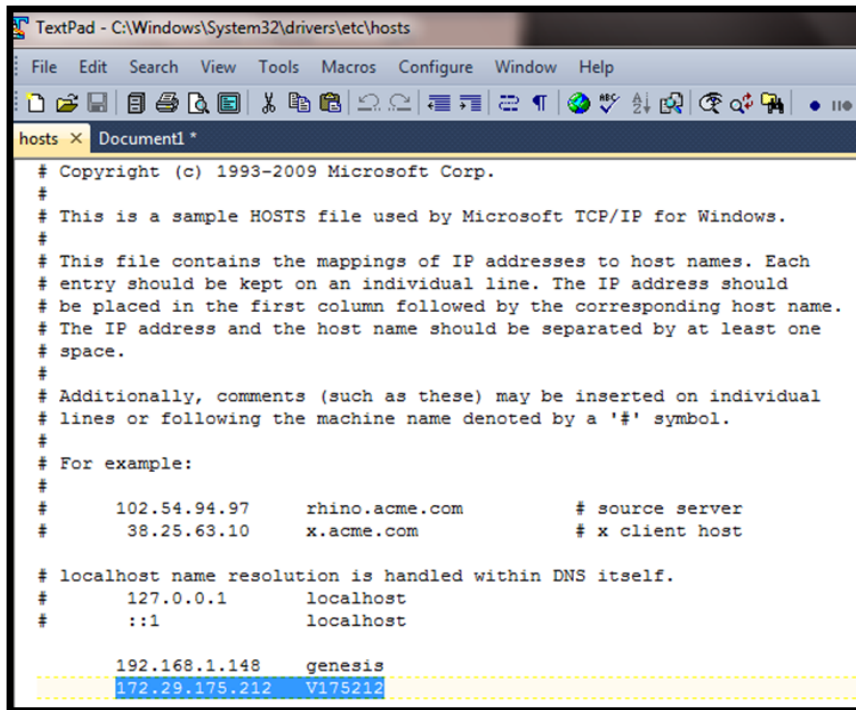


Figure: Host File

## 1.5.5.5. Map Network Drive to Share Folder

To map a network drive to the share folder

**Note:** The specific steps for this task will vary based on your operating system, so use these instructions as a guide, not as an absolute.

- 1) Open **My Computer**.
- 2) Click on **Map network drive**.

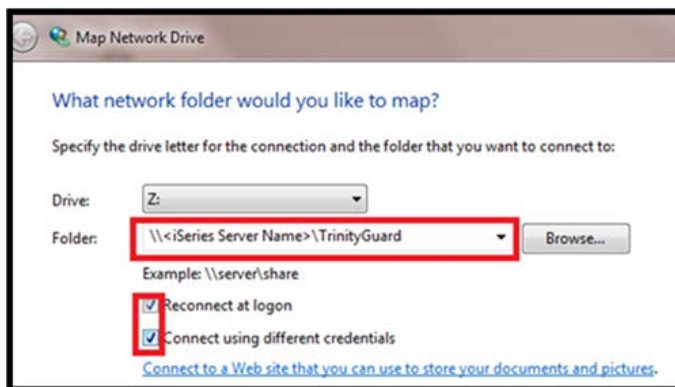


Figure: My Computer

- 3) Select a drive letter.
- 4) Enter the path to the **TrinityGuard** share folder.

**Important:** Use the IBM i system name, not the IP address.

- 5) Select that the following options:
  - **Reconnect at logon**
  - **Connect using different credentials**

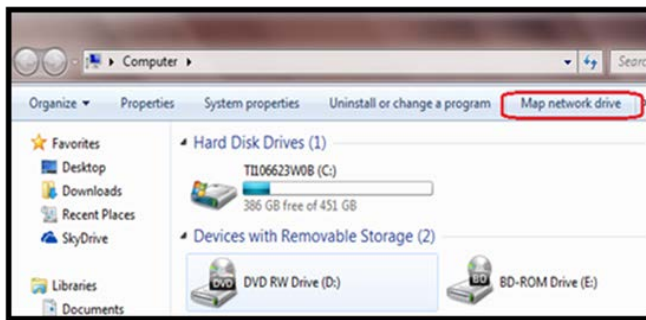


Figure: Map Network Drive

- 6) Click the **Finish** button.
- 7) Enter your i5/OS user profile and password.
- 8) Select the **Remember my credentials** option.
- 9) Click **OK**.



Figure: Windows Security

**Alternatively**, you can map the network drive from a Windows command prompt by using the following command:  
**NET USE \* \\<IBM i Server Name>\TrinityGuard /USER:IBM i-username IBM i-password**

## 1.5.6. Step 5 - Change Emulator Display Size

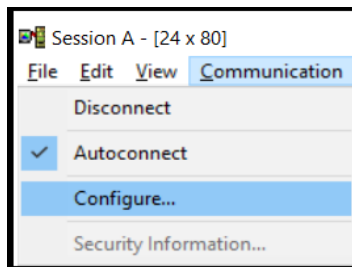
Use this task to change the emulator (workstation) display size to 27x132.

**Important:** This product does not support the emulator (workstation) display size of 24x80.

If you are not using the display size of 27x132, you will receive the error message **CPF4169**.

### To change the emulator display size

- 1) Access the **TG Main** menu.
- 2) From the IBM i session menu, click **Communication > Configure**.



- 3) In the **Type of emulation** group box, change **Size** to **27x132**.
- 4) Click **OK**.





---

## ***2. Appendix***

---

### ***2.1. Libraries and Commands***

---

The following libraries are installed:

- TGPROD
- TGDATA
- TGINSTALL
- TGBACKUP - Created at time of upgrade

The commands are installed in the QGPL library:

- TGMENU – TGAudit Main Menu
- TGRPT – Run a Report
- TGCARD – Run Report Card
- TGWRKRPT – Work with Reports
- TGWRKCARD – Work with Report Cards
- TGLICSTS – Work with Licensing Status