



Description: How to setup DCOM on a Windows NT or Windows 2000 Operating System when computers are in a domain on the Local Area Network. Please see additional application note if systems are in a workgroup.

OS Requirement: Windows NT, or Windows 2000.

General Requirement: In order to communicate OPC data between different PCs via DCOM in a **domain**, the following requirements apply:

- All GENESIS32 machines must be in the same domain on the LAN.
- All GENESIS32 machines must be logged in to the operating system with a domain user.
- The password **must not** be blank or “admin”.
- The user must have administrative privileges to the local PC to change the DCOM settings.

Opening DCOM Configuration

For GENESIS32 Applications to communicate via DCOM it is necessary to allow permissions (Access and Launch) for specific users. This application note explains how to setup DCOM on a Windows XP Operating System, for the most wide-open permissions. It is usually helpful to develop your application with wide-open communications to be sure it all works properly. After development is complete, you may want to tighten these permissions until you reach a desired level of security.

1. Click on **Start – Run** and type in “**DCOMCNFG**”. The **Distributed COM Configuration Properties** window will open.

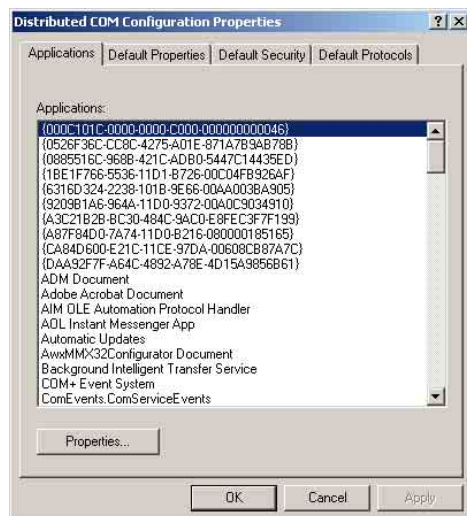


Fig. 1: Distributed COM Properties

2. The properties window will contain four configurable tabs. We are only concerned with two of the tabs for now.
3. Click on the **Default Properties** tab, and match the properties as shown in Fig. 2.

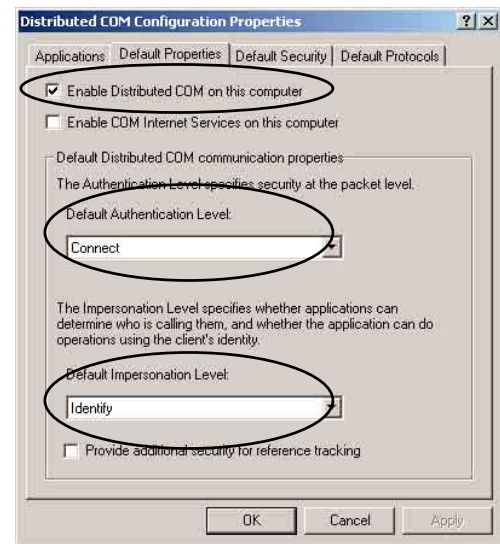


Fig. 2: My Computer Default Properties

DCOM User Permissions

4. Next we have to add user permissions to the Default Security. Click the **Default Security** tab as shown in Fig. 3:

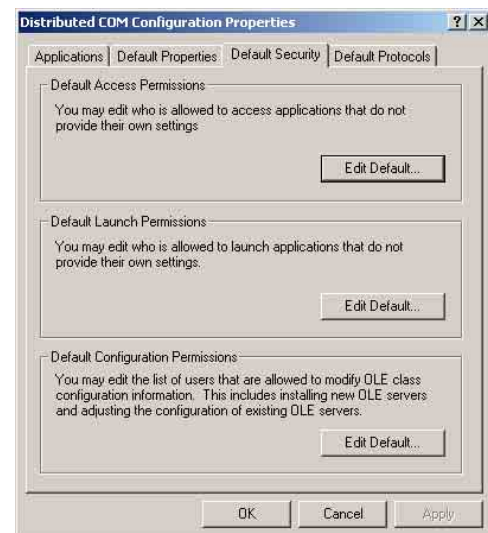


Fig. 3: Default COM Security



5. Click **Edit Default** for **Access Permission** and the **Access Permissions** window will open as shown in **Fig. 4**. Make sure the Access Permissions Window includes at least the following entries:
 - **Everyone**
 - **Interactive**
 - **Network**
 - **System**
 - **Domain Administrators**
 - **Domain Users**
6. If these entries are not shown by default, click the **Add...** button to add them to the list.
7. **Everyone**, **Interactive**, **Network**, and **System** are users on the local machine, so choose the local machine name to **List Names From**. Select all four users while holding the **CTRL** key, and click **Add**.

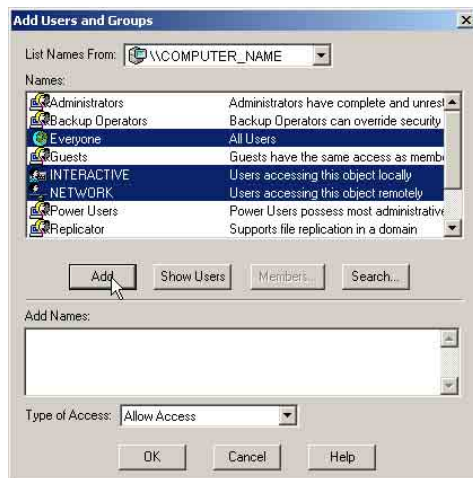


Fig. 4: Select Users or Groups

8. For the domain users, choose the domain name to **List Names From** and follow the same procedure. When all users to be added are listed in the **Add Names** window, click **OK** to add them.
9. Repeat Steps 5-8 to edit the **Launch Permissions**. Close the **Distributed COM Configuration Properties** window when finished.
10. Restart the PC and login with a domain user name as mentioned in the **General Requirements** of this document. Please refer to **OS Requirements** and **General Requirements** on page 1 of this document to make sure everything is correct.