

Description: Guide to setup DCOM on a Windows 2000 Operating System when computers are in a workgroup on the Local Area Network.

OS Requirement: Windows 2000

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

All GENESIS32 systems must be in the same workgroup on the LAN.

All GENESIS32 systems must be logged in to the operating system with the same user name and password.

The password must not be blank or “admin”.

The user must have administrative privileges to the local PC to change the DCOM settings.

Introduction

For GENESIS32 Applications to communicate via DCOM it is necessary to allow Access and Launch permissions for specific users. For the most part, these permissions are configured after running the Application Setup Utility. If for some reason, you cannot run this utility, you can edit DCOM manually.

This application note explains how to setup DCOM on a Windows 2000 Operating System, for the most wide-open permissions. It is usually helpful to develop your application with wide-open communications to be sure that it all works properly. After you have completed your development, you will want to tighten these permissions until you reach a desired level of security.

Editing DCOM Settings

1. Click on Start → Run and type in “DCOMCNFG” , then hit enter. The Distributed COM Configuration Properties window will open.

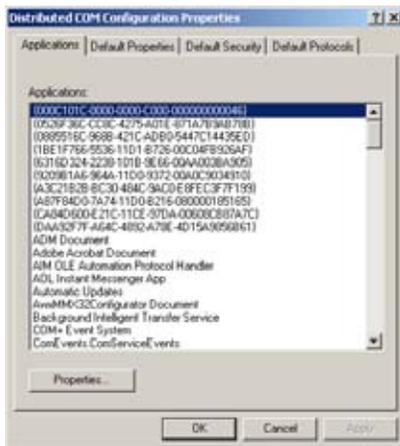


Figure 1 - Distributed COM Properties

2. Click on the Default Properties tab, and match the properties as shown in Figure 2.

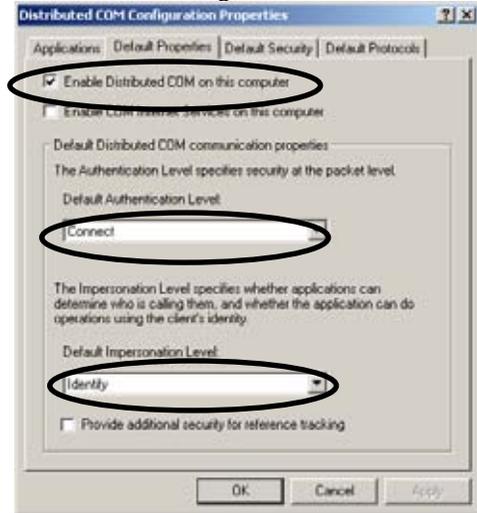


Figure 2 - My Computer Default Properties

3. Next we have to add user permissions to the Default Security. Click on the Default Security tab as shown in Figure 3.



Figure 3 - Default COM Security

4. Click Edit Default for Access Permission and the Access Permissions window will open as shown in Figure 4. Make sure the Access Permissions Window includes at least the following entries:

Administrators
Everyone
Interactive
Network
System

The user common to all GENESIS32 systems
The user that runs your OPC server and ICONICS Applications

5. If these entries are not shown by default, click the “Add...” button to add them to the list.
6. These are all users on the local machine; you should choose the local machine name to **List Names From**. Select all users while holding the Ctrl-key, and click **Add**.



Figure 4 - Select Users or Groups

7. When all users to be added are listed in the **Add Names** window, click **OK** to add them.
8. Repeat Steps 5-8 to edit the **Launch Permissions**. Close the **Distributed COM Configuration Properties** window when finished.
9. Restart the PC and login with the common user name and password 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.