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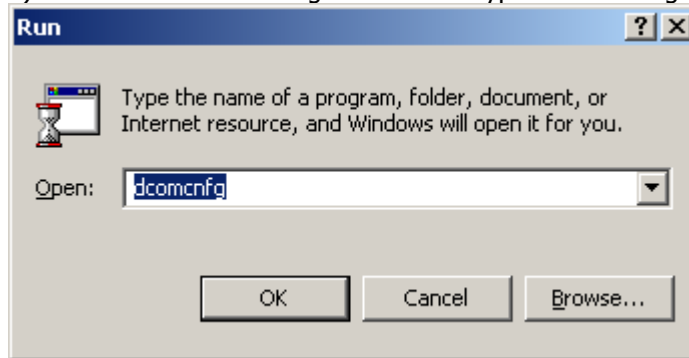+44-1629-580886
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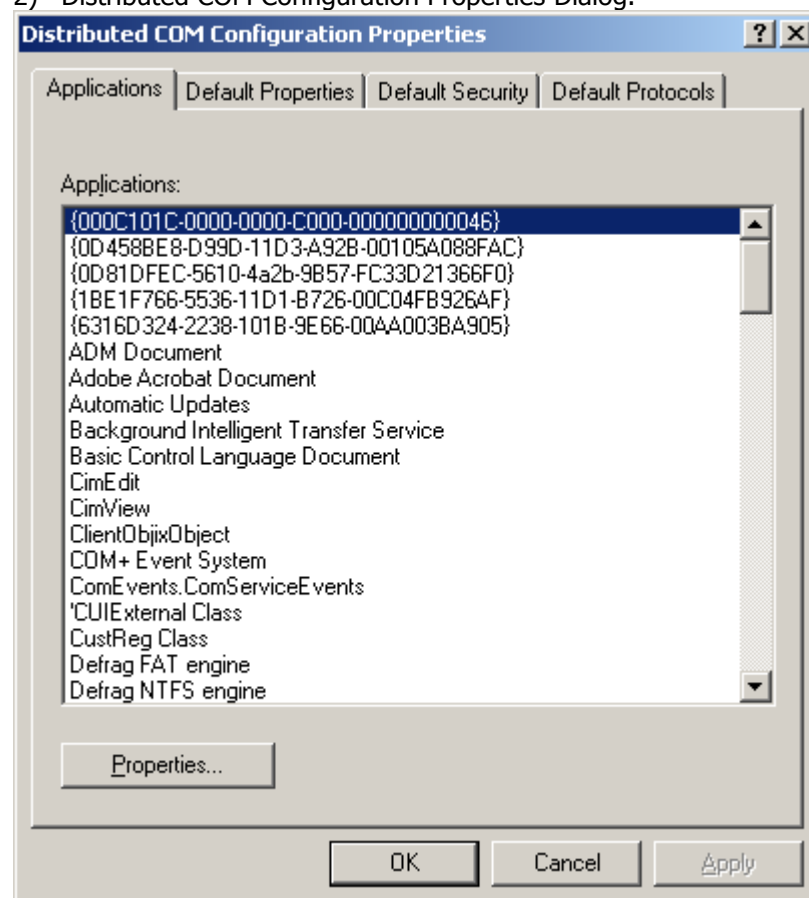
<u>Windows NT/2000 DCOM Configuration
For OPC</u>

NOTE: These directions will open up DCOM to **_all_** users.

NOTE: These steps are used to make sure that communication **can be** established. After these steps have been followed to establish communication, DCOM permissions can be tightened to allow only the necessary users.
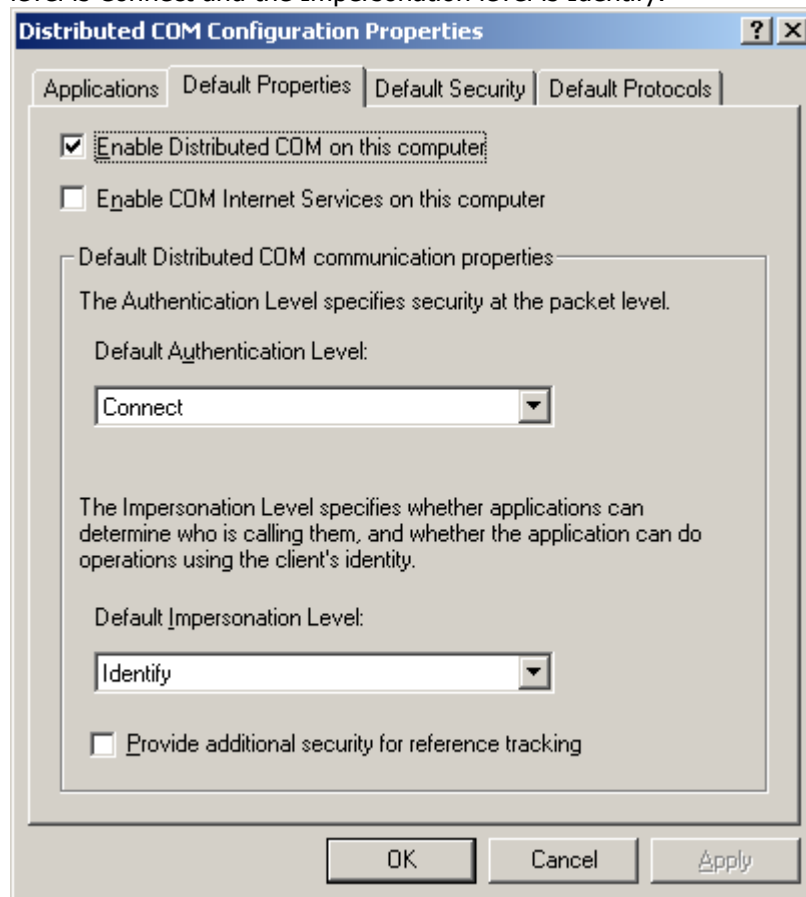
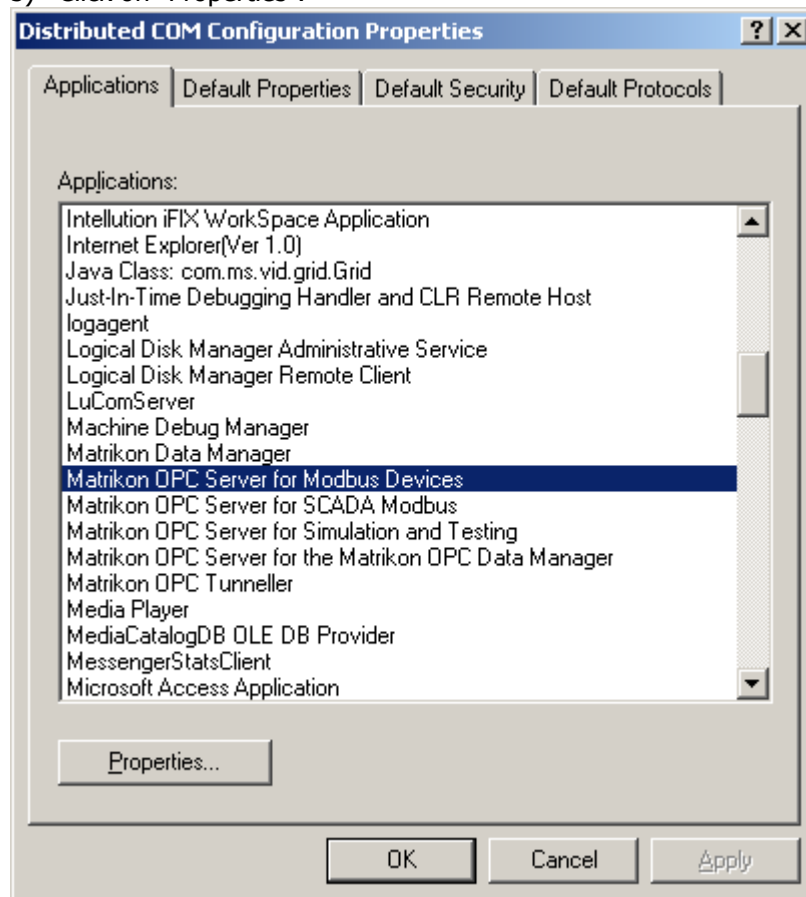1) From the start menu go to run and type in dcomcnfg.

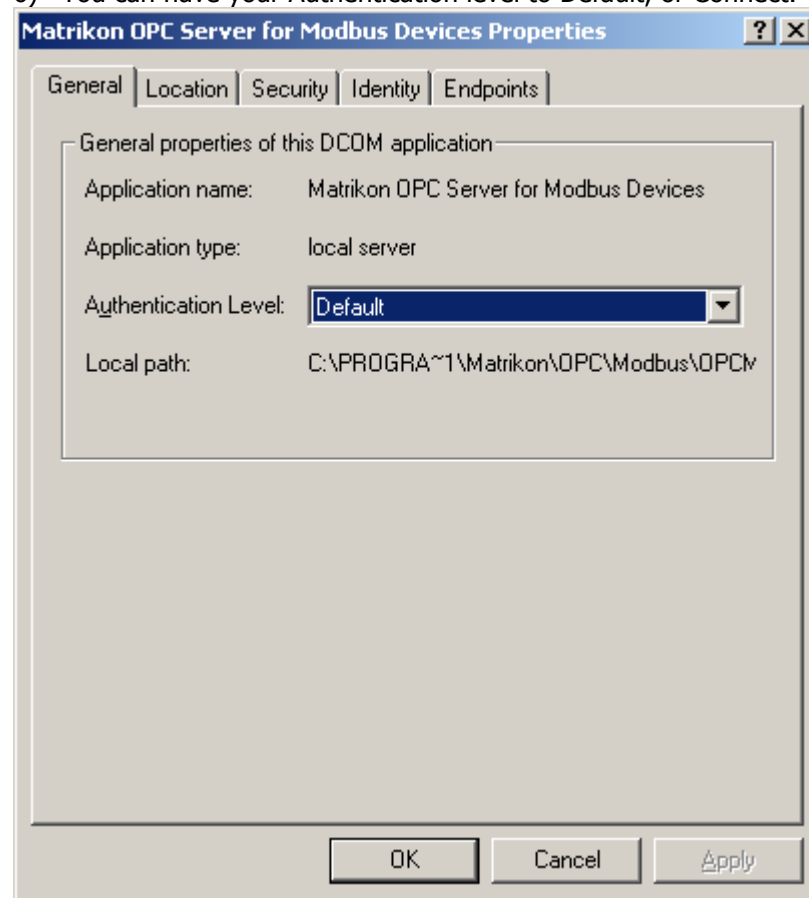2) Distributed COM Configuration Properties Dialog.

3) Under the Default Properties Tab: Make sure that DCOM is enabled, the authentication level is Connect and the Impersonation level is Identify.
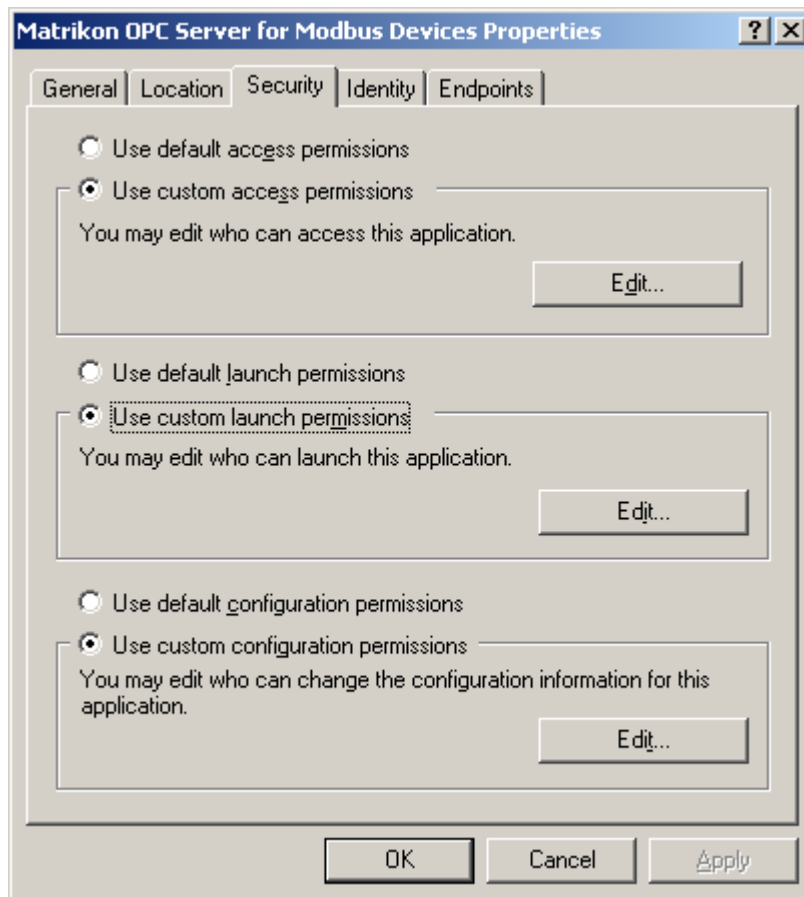
Distributed COM Configuration Properties

Applications | Default Properties | Default Security | Default Protocols

☑ Enable Distributed COM on this computer

☐ Enable COM Internet Services on this computer

Default Distributed COM communication properties

The Authentication Level specifies security at the packet level.

Default Authentication Level:

Connect

The Impersonation Level specifies whether applications can determine who is calling them, and whether the application can do operations using the client's identity.

Default Impersonation Level:

Identify

☐ Provide additional security for reference tracking

OK | Cancel | Apply

4) Select the server from the list under the Applications Tab.
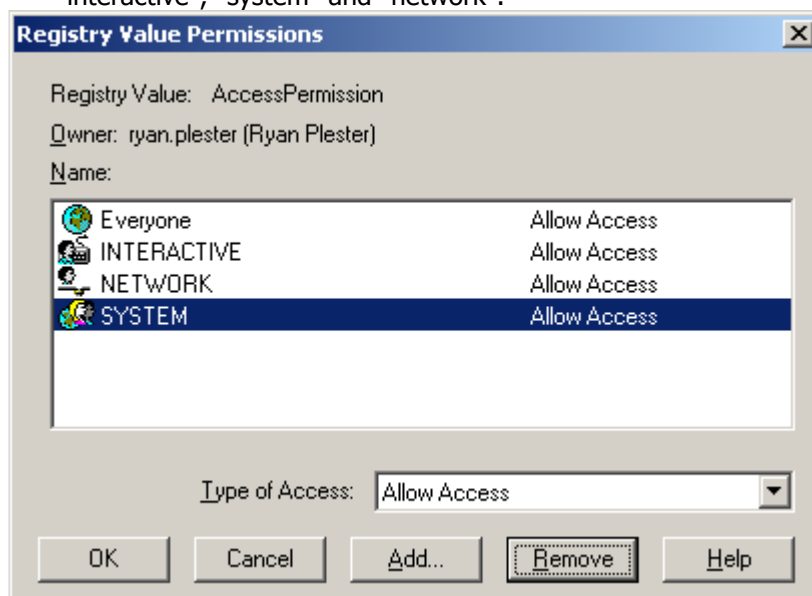   (Do this for **ALL** OPC Servers, as well as OpcEnum)
5) Click on "Properties".

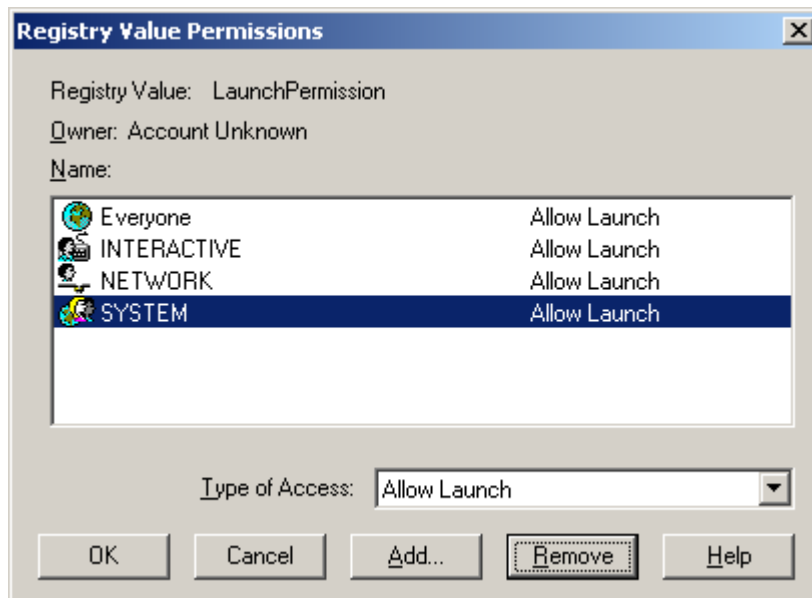6) You can have your Authentication level to Default, or Connect.

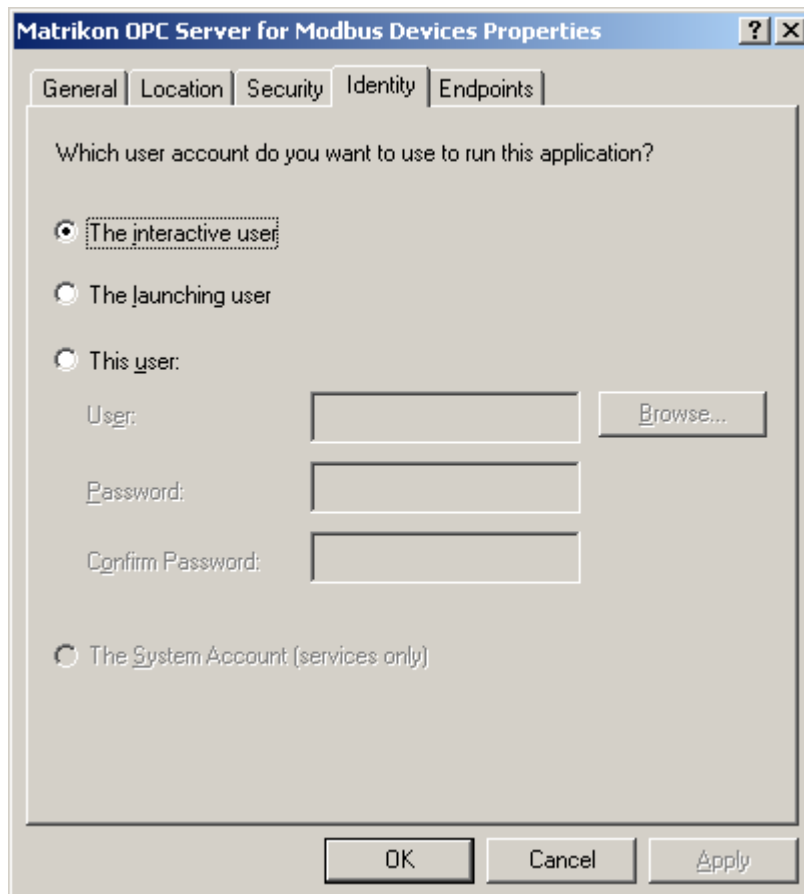7) Under the "Security" tab, select "use custom access permissions" and "use custom launch permissions".

8) Edit both the launch permissions and the access permissions to include "everyone", "interactive", "system" and "network".
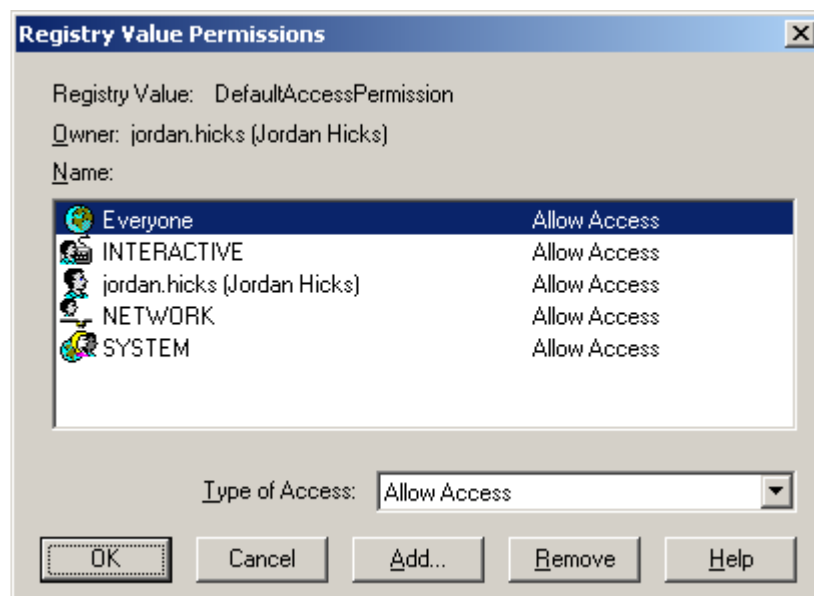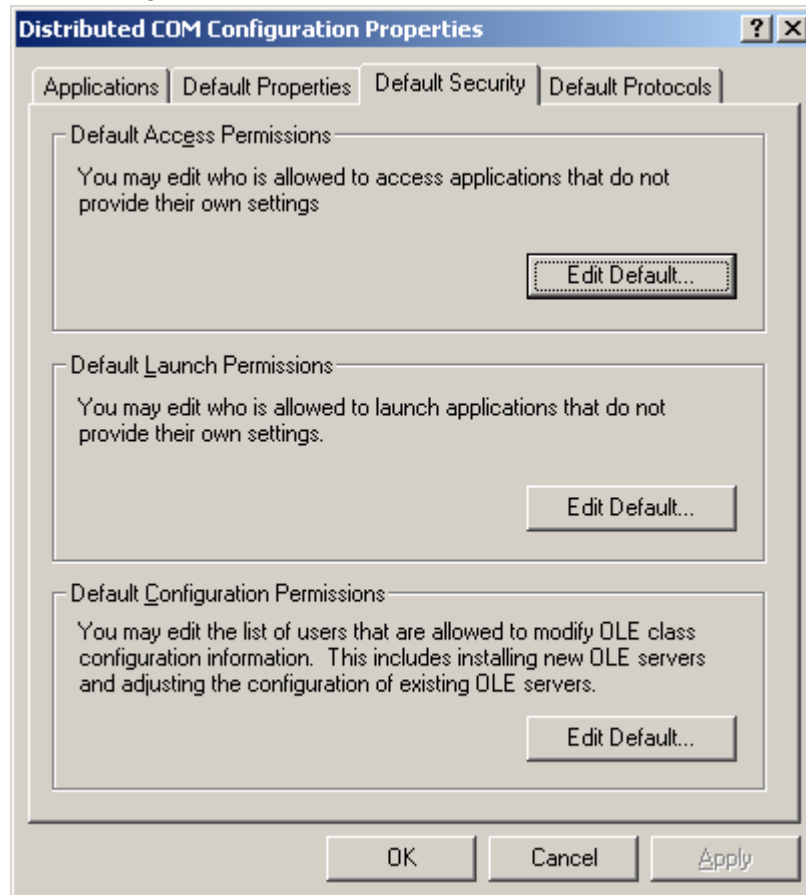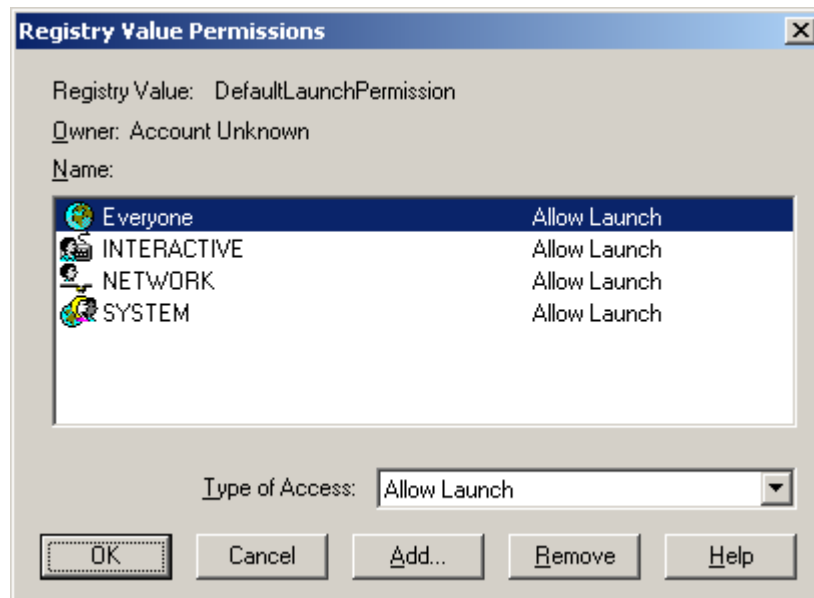
9) Under the identity tab select "the interactive user". Please note that services (such as OpcEnum) will be running under "The System Account".
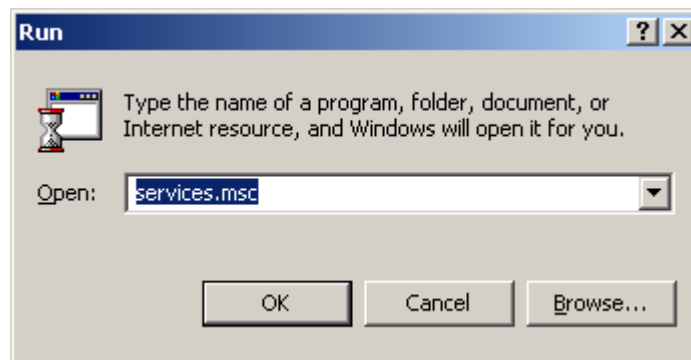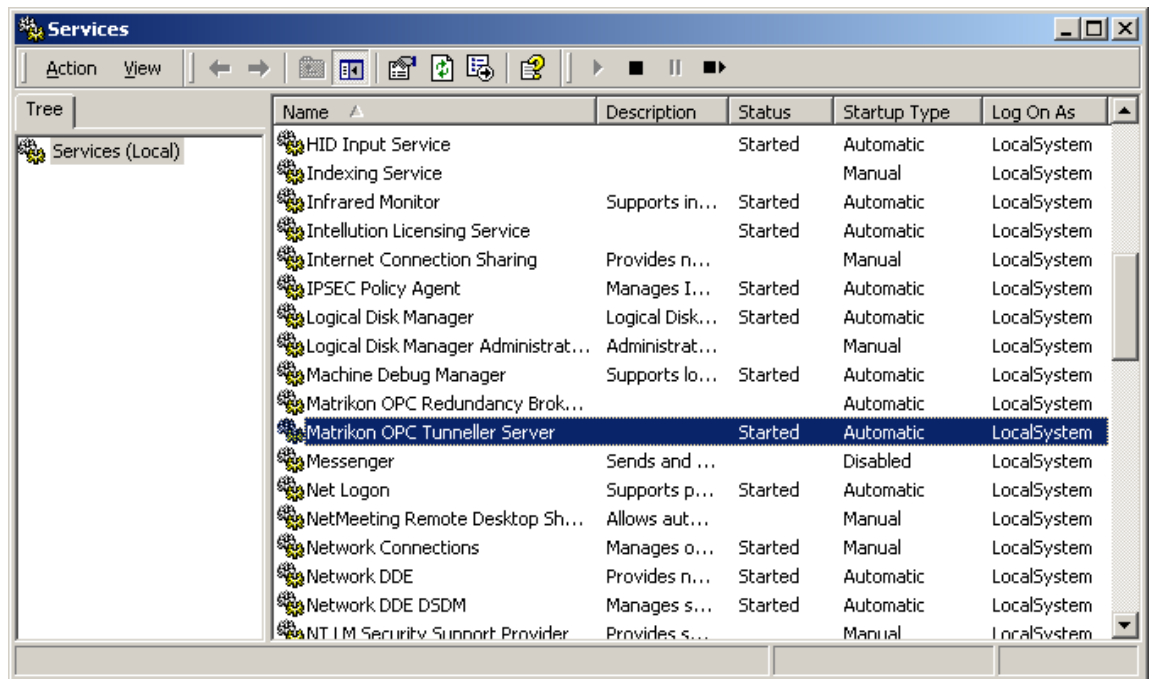
10) Please repeat steps 4 through 9 for **each** OPC Server installed, as well as OpcEnum.
11) Under the "Default Security" tab select both the Default Access Permissions and the Default Launch Permissions to contain: "EVERYONE", "SYSTEM", "INTERACTIVE", "NETWORK".

Distributed COM Configuration Properties

Applications | Default Properties | Default Security | Default Protocols

Default Access Permissions

You may edit who is allowed to access applications that do not provide their own settings

Edit Default...

Default Launch Permissions

You may edit who is allowed to launch applications that do not provide their own settings.

Edit Default...

Default Configuration Permissions

You may edit the list of users that are allowed to modify OLE class configuration information. This includes installing new OLE servers and adjusting the configuration of existing OLE servers.

Edit Default...

OK | Cancel | Apply

Registry Value Permissions

Registry Value: DefaultAccessPermission

Owner: jordan.hicks (Jordan Hicks)

Name:

Everyone	Allow Access
INTERACTIVE	Allow Access
jordan.hicks (Jordan Hicks)	Allow Access
NETWORK	Allow Access
SYSTEM	Allow Access

Type of Access: Allow Access

OK | Cancel | Add... | Remove | Help

12) Now that this has been completed for both the Default Security Permissions, and the Custom Security Permissions for each OPC Server we can close down DCOMCNFG.exe.

13) Please shut down and restart all OPC Servers that are to be used. That means both those running as an application, and those running as a service.

14) To restart one running as a service please go: Start -> Run -> "Services.msc"

15) Please right click on the Server, and go "Stop".
16) Please right click again and go "Start", your service is now restarted and any changes to the DCOM have been updated.

Your **DCOM** is now setup to accept all incoming connections.

NOTE: DCOM has limitations for connectivity when operating on separate domains/workgroups.   These steps may work but, depending on individual networks, additional settings and components may be required.   Please contact OPC Support for additional information.

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