

Windows 7 Professional 64 bit Configuration for MassLynx Security

1. **Purpose**

This document outlines the procedure to configure Microsoft Windows 7 Professional 64 bit operating system in order for installations of MassLynx with Security to function correctly

2. **Scope**

It is assumed that the Engineer configuring the PC is familiar with Windows 7 Professional 64 bit operation and its general operational use. It is also assumed that Windows 7 Professional 64 bit for the IBM M5x PC has been configured correctly for Instrument Control.

Refer to Service Note "[Configuring Windows 7 for Ethernet Instrument Communication with Empower or MassLynx](#)" for details.

3. **Hardware/Software Required**

- Current or High Spec IBM M5x (Host) PC
- Windows 7 Professional 64 bit with valid license

4. **Document Index**

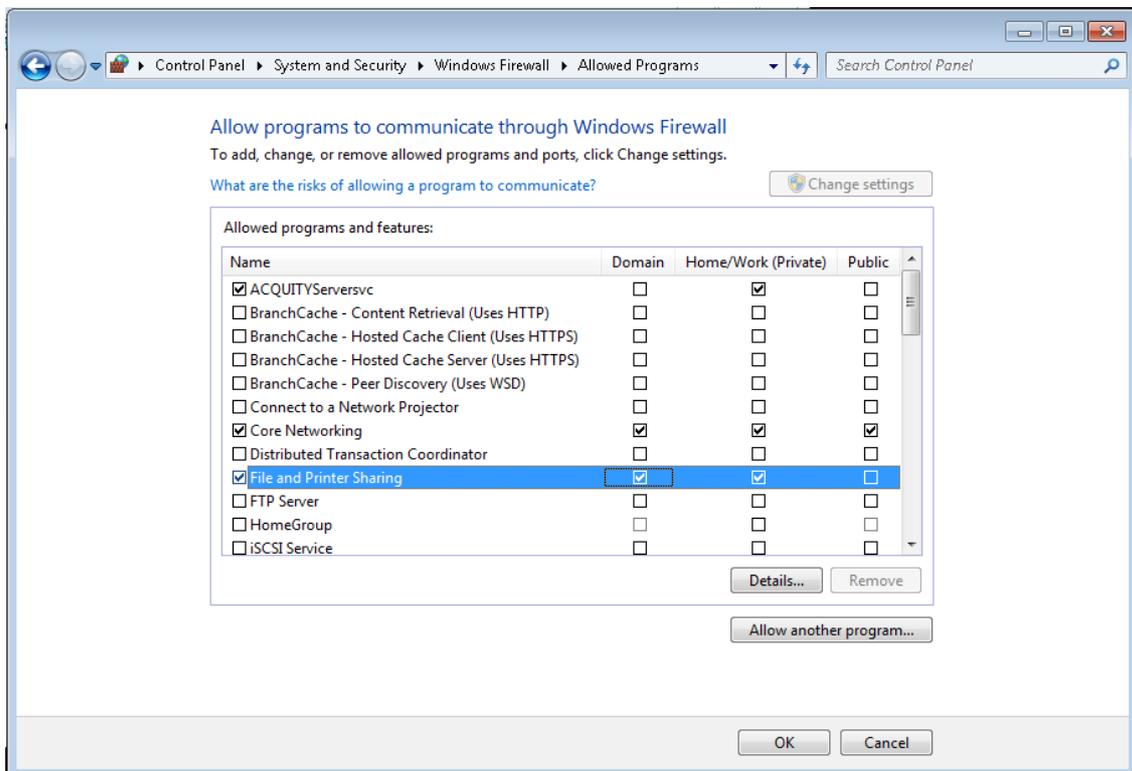
1. Purpose.....	1
2. Scope	1
3. Hardware/Software Required.....	1
4. Document Index.....	1
5. Configuration of Windows 7 Professional 64 bit for Secure Installation of MassLynx.....	2
5.1 Enabling file and print sharing and allowing RPCs on port 135 through Firewall....	2
5.2 Allowing security services through the Firewall.....	4
5.3 Configuring Local Policy.....	5
5.4 Configuring remote DCOM.....	7
5.5 Adding User Account.....	9

5. Configuration of Windows 7 Professional 64 bit for Secure Installation of MassLynx

The changes detailed below are required to allow a secure installation of MassLynx to function correctly.

5.1 Enabling file and print sharing and allowing RPCs on port 135 through Firewall

Close down any currently open applications and go to **Control Panel -> System and Security -> Windows Firewall -> Allowed Programs**. Check the "File and Printer Sharing" option and Domain and Private network permissions as shown below and click **OK**



Now, go to **Control Panel -> System and Security -> Windows Firewall** and Advanced Settings. Create a new rule in Inbound Rules by clicking **Action -> New Rule** which opens New Inbound Rule Wizard. Select "**Port**" as Rule Type, select "**TCP**" and enter "**135**" to Specific local ports as Protocol and Ports, select "Allow the connection" as Action, check only "Domain" and "Private" in Profile section, enter "**RPC**" as Name and finally click **Finish** to create the new RPC Inbound rule

New Inbound Rule Wizard

Protocol and Ports

Specify the protocols and ports to which this rule applies.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name

Does this rule apply to TCP or UDP?

TCP

UDP

Does this rule apply to all local ports or specific local ports?

All local ports

Specific local ports:
Example: 80, 443, 5000-5010

[Learn more about protocol and ports](#)

< Back Next > Cancel

New Inbound Rule Wizard

Profile

Specify the profiles for which this rule applies.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name

When does this rule apply?

Domain
Applies when a computer is connected to its corporate domain.

Private
Applies when a computer is connected to a private network location.

Public
Applies when a computer is connected to a public network location.

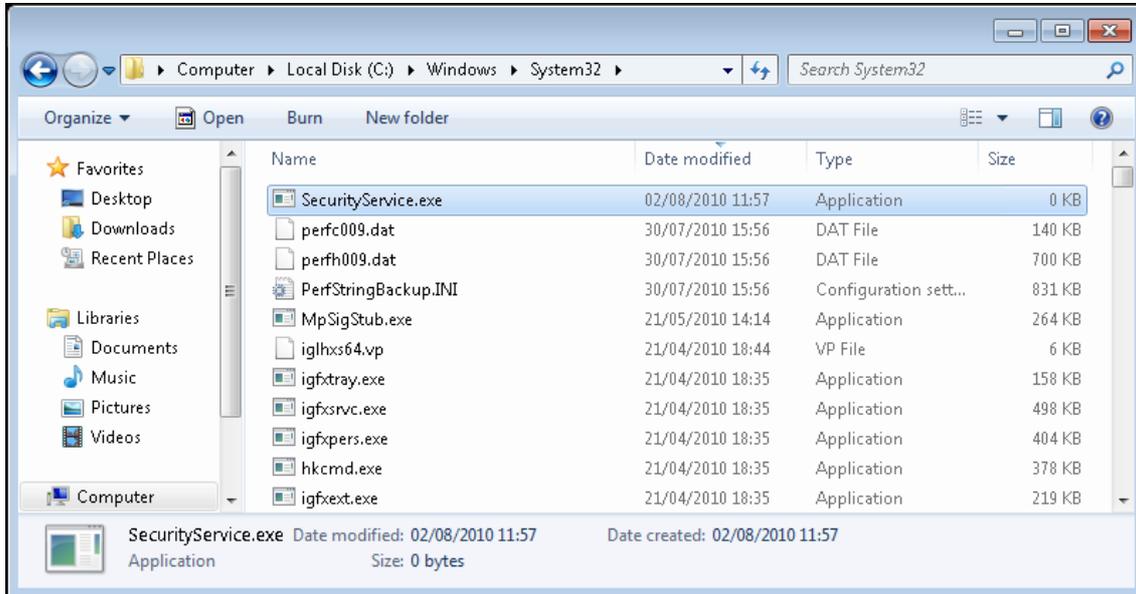
[Learn more about profiles](#)

< Back Next > Cancel

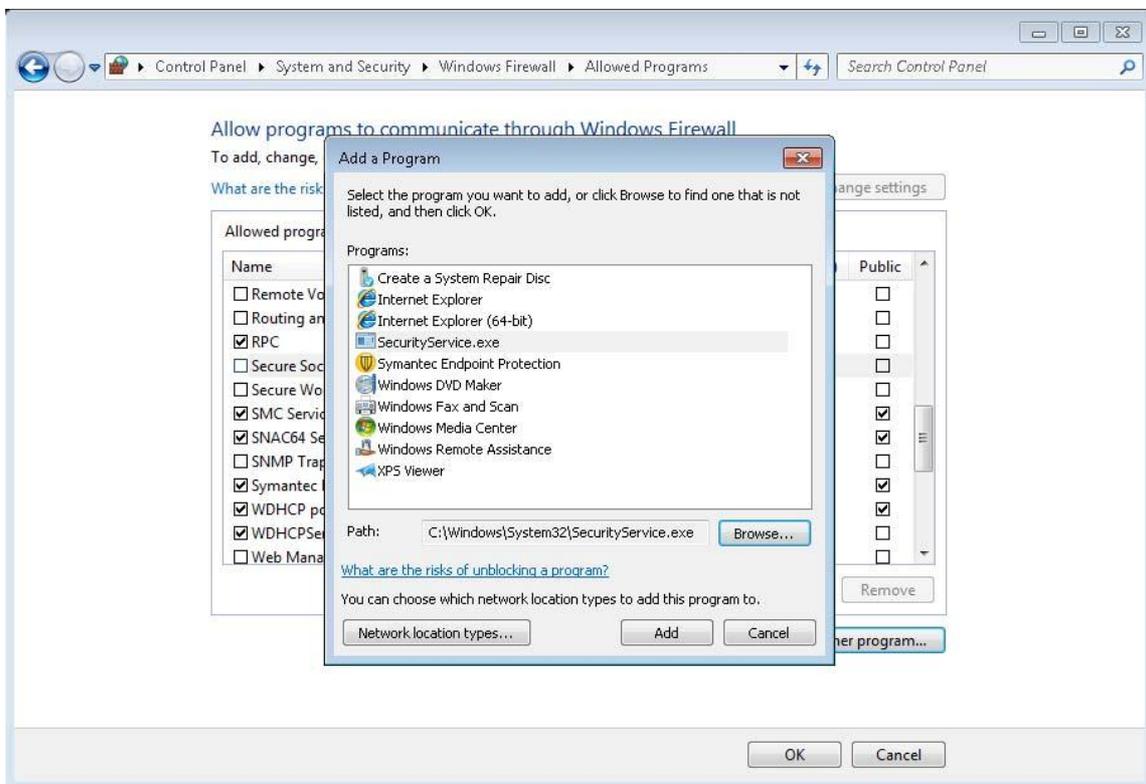
5.2 Allowing security services through the Firewall

Locate the folder "C:\Windows\System32". Create a new **Text Document** called "New Text Document.txt". Now create a dummy executable for the security service by renaming the text file as "**SecurityService.exe**"

[Note: make sure that files are listed with extension, otherwise go to **Organize -> Folder** and search options. Click on **View** tab and uncheck "**Hide Extensions for known file types**" option and click **OK**]

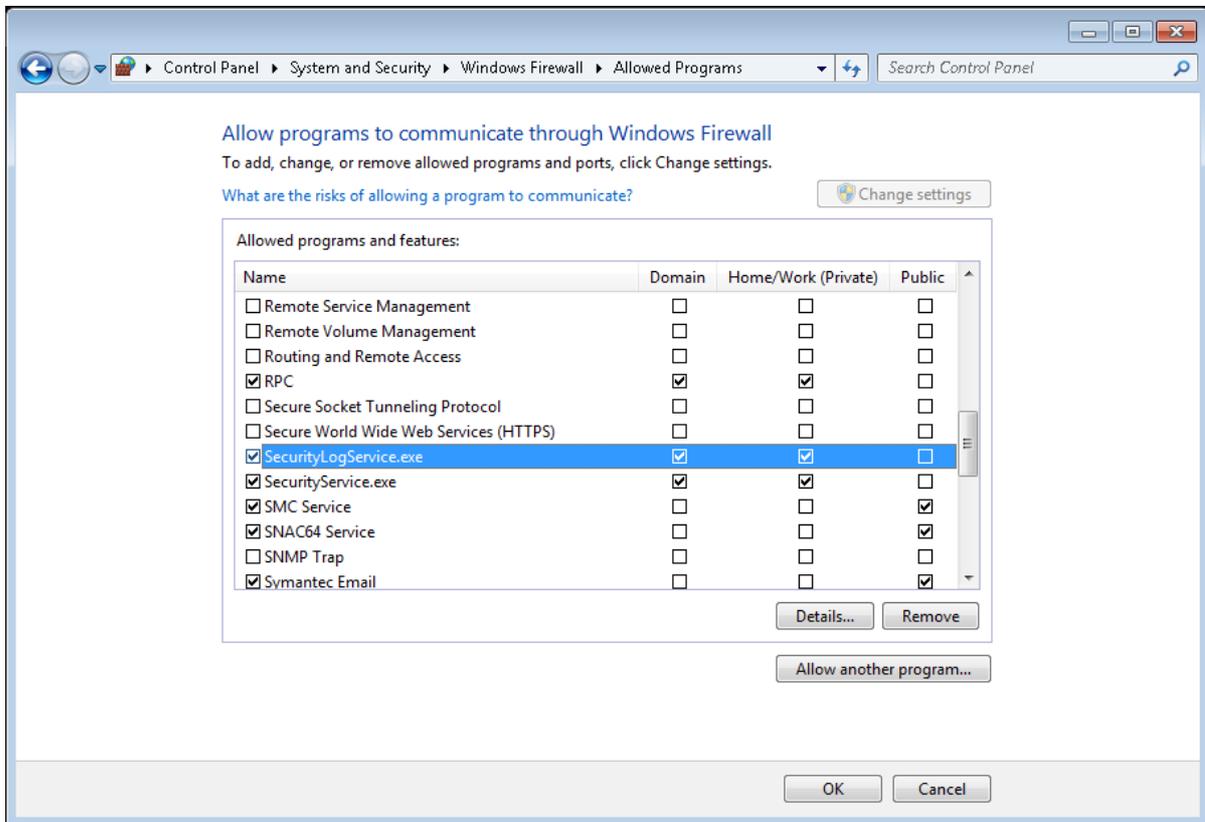


Now, go to **Control Panel -> System and Security -> Windows Firewall -> Allowed Programs** and click on **Allow another program...** which opens the **Add a Program** dialog. Here browse and select the executable "C:\Windows\System32\SecurityService.exe" and click **Add**



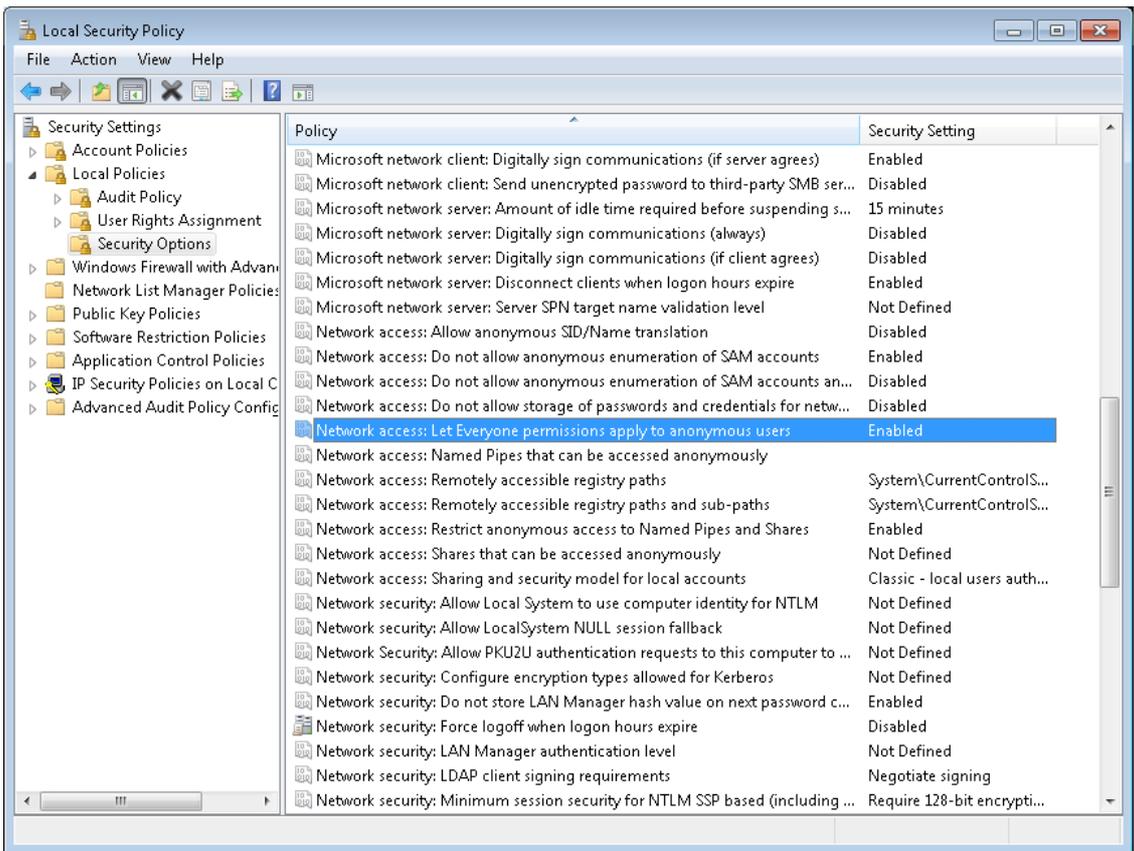
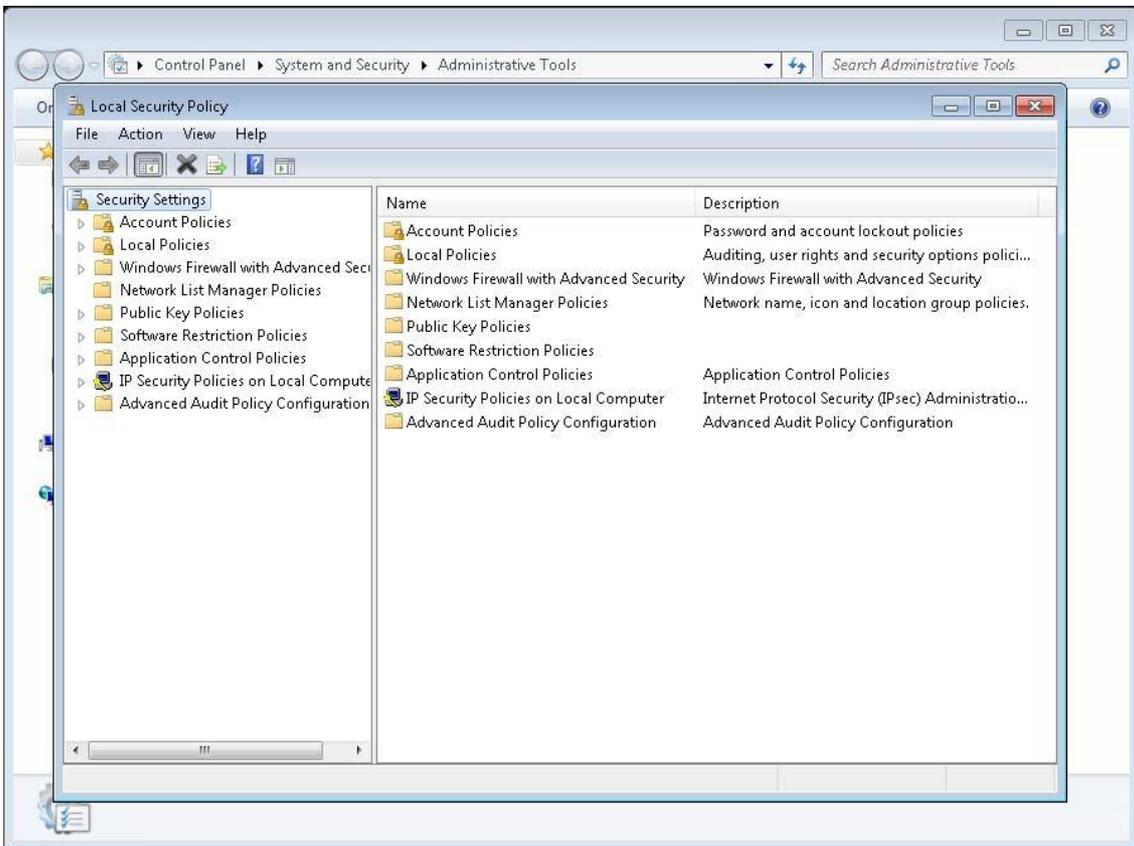
Check "Domain" and "Private" network permissions to SecurityService.exe and click **OK** to close the firewall. Once successfully added, delete SecurityService.exe file from "C:\Windows\System32" folder. [Note: **Failure to remove the dummy securityservice.exe file may prevent MassLynx from being installed correctly at a later stage.**]

For a log server the executable "**C:\Windows\System32\SecurityLogService.exe**" must also be added to the Allowed Programs list. A dummy file should be created, added to the Allowed Programs list, then deleted in the same way as for the securityservice.exe



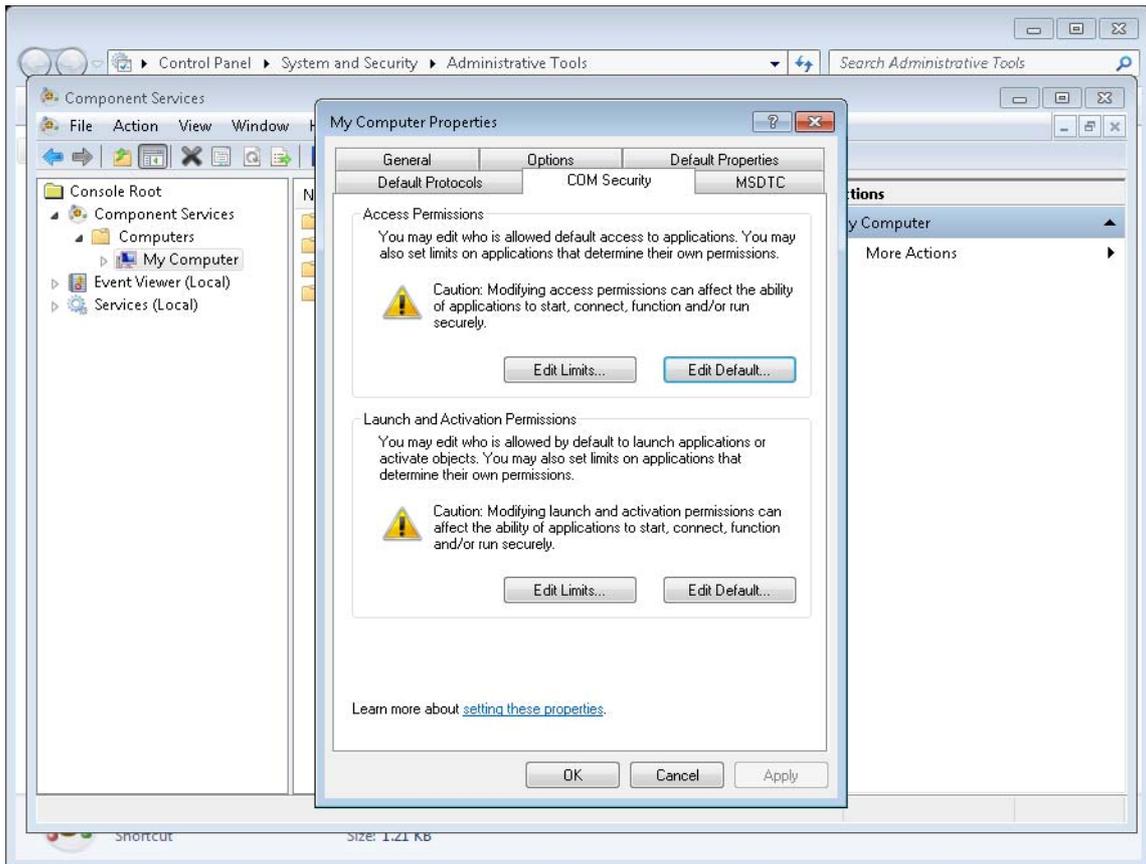
5.3 Configuring Local Policy

Go to **Control Panel -> System and Security -> Administrative Tools** and open "**Local Security Policy**". Expand **Local Policies -> Security Options** and select "**Network access: Let Everyone Permissions apply to anonymous users**" policy. From Action click Properties, select the "**Enabled**" option and then click **Ok**.

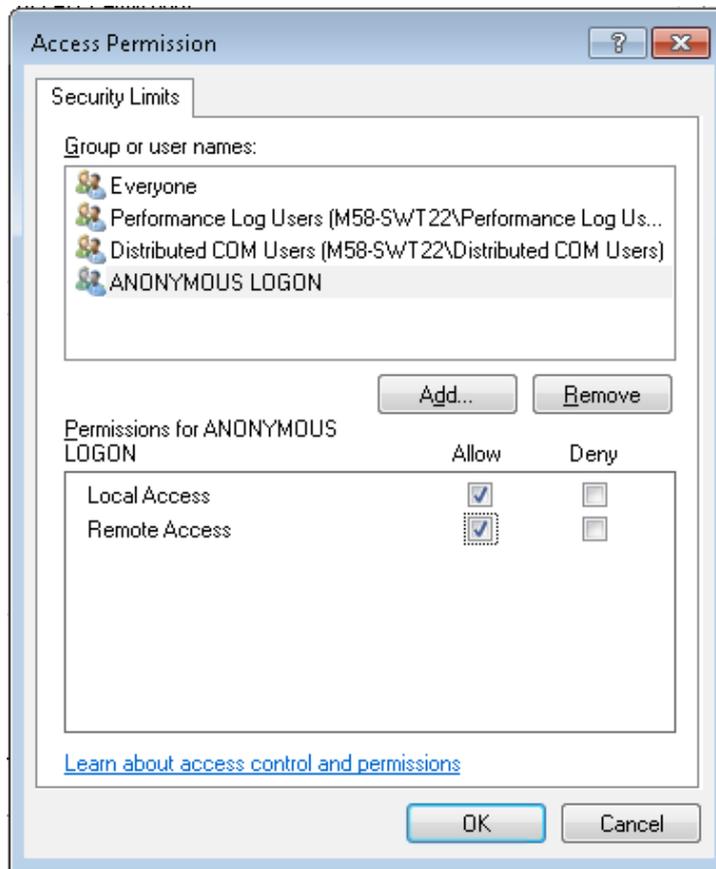


5.4 Configuring remote DCOM

Go to **Control Panel -> System and Security -> Administrative Tools** and open **"Component Services"**. Expand to My Computer and go to Properties from Action menu. Select **COM Security** Tab

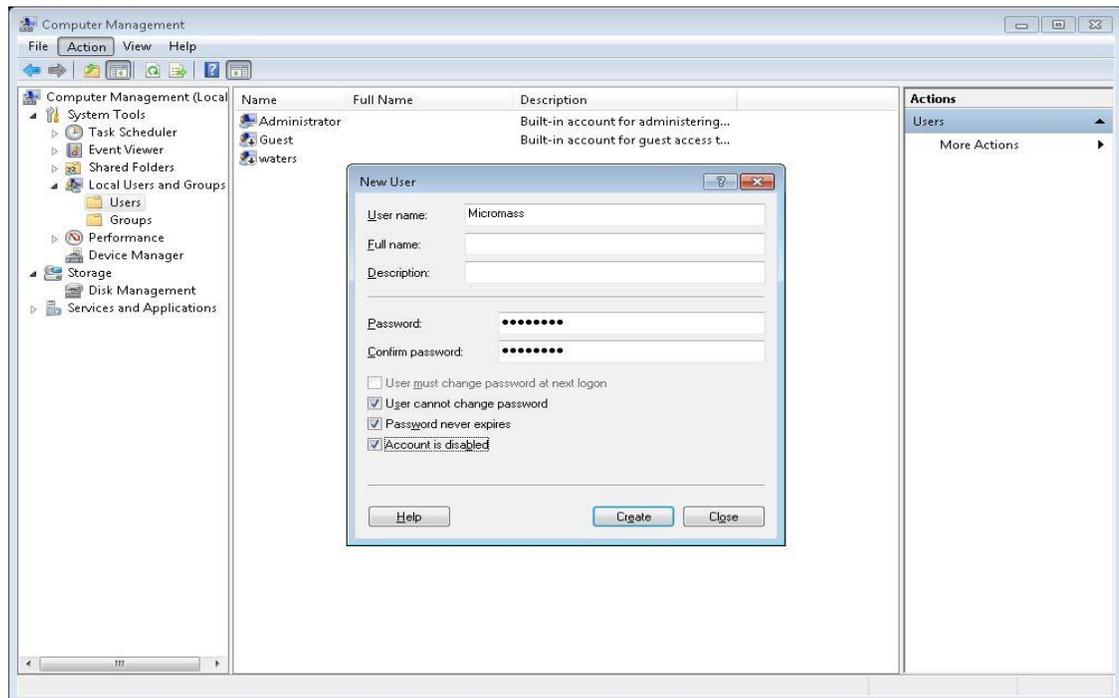


Click on **"Edit Limits"** of Access Permissions section and allow **"Remote Access"** to Anonymous Logon and Click **OK**. Click on **"Edit Limits"** of Launch and Activation Permissions and allow **"Remote Launch"** and **"Remote Activation"** for "Everyone" group and click **Ok**. Finally, click **Apply** and **Ok** button



5.5. Adding User Account

Go to **Control Panel -> System and Security -> Administrative Tools** and Open the **Computer Management**. In the Computer Management window, expand to Users. Click **Action -> New User** which opens the New User dialog. Enter the details User name as "**Micromass**", Password as "analysis", Deselect the "**User must change password at next logon**", select the "**User cannot change password**" and select the "**Password never expires**" options. Then click **Create** button to create the **Micromass** user account



Double click on the newly created **Micromass** account. Click on the **Member Of** tab. Verify that the Micromass user is a member of the **Users** group click **OK** to close down the Properties box

Note:

The local '**Micromass**' account is only required to complete the initial installation of MassLynx with security (used to apply the checksums). Once a successful installation has been completed the local '**Micromass**' account can be deleted.