



**eDART® Data Manager**

RJG, Inc.  
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# eDART® Data Manager

The eDART® Data Manager (EDM) makes time consuming tasks easy, efficient, and streamlined.

These tasks include

- Ensuring that the latest mold configurations, templates, alarm limits, cavity pressure set-points, and security protocols are available to users regardless of which machine or when the mold ran last
- All the historical data from the eDART®s are backed up in a timely manner to the EDM
- eDART® Views are standardized across the network
- All the eDART®s clocks are synchronized
- Information for the entire eDART® network is displayed via Advanced System Overview (ASO)

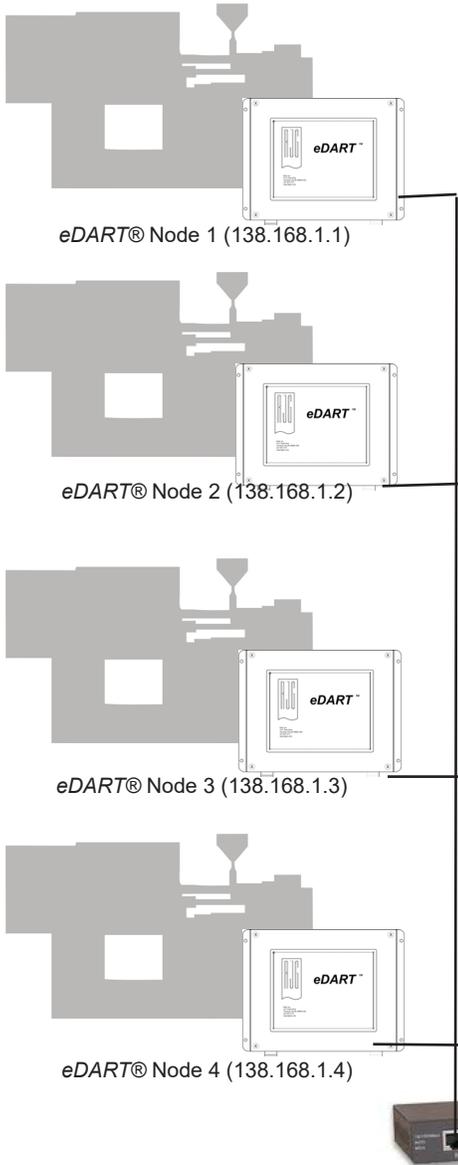
The ASO delivers:

- At a glance overview of all the eDART®s status with standard colors:
  - Green is good
  - Red is bad
  - ✓ Each row displays:
    - Which machine is currently running or is it down (color coded):
      - \* What Mold (Is it the right mold?)
      - \* Is it sorting parts or not
      - \* Is it transferring by cavity pressure instead of position
      - \* Counts of Total, Good, Reject Cycles
      - \* Status of the Current Cycle, etc.
    - Additional information can be displayed on color coded dials which compare template values with current cycle values:
      - \* Machine
      - \* Material
      - \* Mold

***NOTE: This requires Process Stability Dashboard Software to be used***

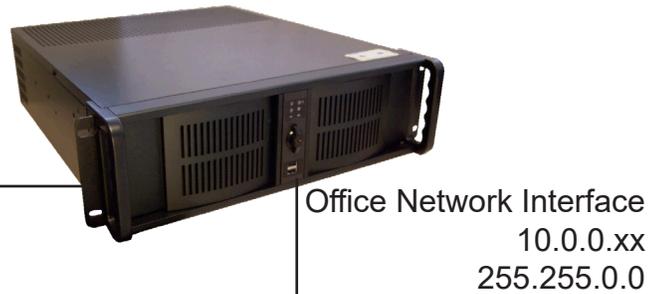
## Getting Started:

Log on to the EDM using RJG account. The password for user RJG is “evintea” (without the quotation marks) which is also the default password for UltraVNC connection.



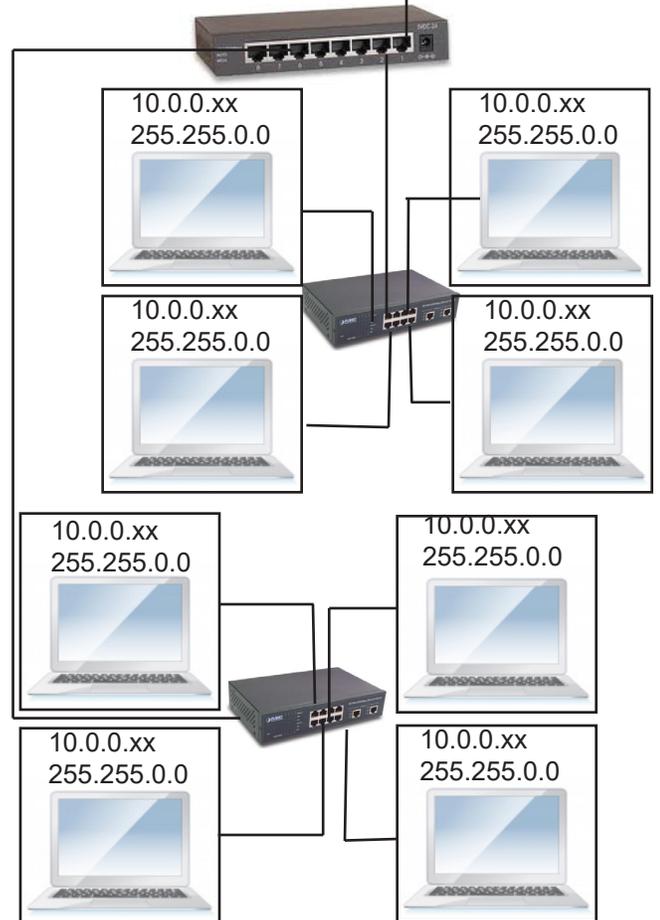
EDM's services to users:

- **Advance System Overview**  
What's happening on the floor at a glance
- **View Process**  
(View cycle run in "Real Time" or review past cycle data)
- **Analyzer**  
(review process history, troubleshoot process, find correlation between part quality and cavity/machine data, export data to other applications, such as Excel, create templates, etc.)
- **Molds/Machines File Management**
  - Add setup files for eDART®s
  - Import tool shop setups and templates
  - Rename/delete/create molds and machine folders



eDART® Network Interface  
192.168.1.250  
255.255.255.0

- EDM's services to eDART®s:
- Data Backup
  - Cross-copy (making available most up-to-date machine and mold files with alarm limits, template, V2P transfer, etc.)
  - Auto- IP assignment to eDART®s
  - Time Synchronization
  - Security (one setting for all eDART®s)



# eDART® Data Manager Control Panel

EDM's control panel is a web based interface. Therefore, it doesn't require any additional programs to be installed to connect to the panel. You just need a web browser such MS Internet Explorer or Mozilla Firefox.

Through this interface you can configure

- EDM Network Settings
- eDART® Network Settings
- Create Advance System Overview ASO link
- Install Java
- Check application version

The control panel consists of two columns, the left column displays the list of available functions and the right hand column will display information of the function selected. There are basically 3 main sections. They are **Applications**, **Diagnostics**, and **Settings**.

*Note: Functions for system setups are not displayed on the left side column until logged in.*

## How to Set Up the EDM?

Start by opening an Internet browser to interface to the eDART® Data Manager's control panel.

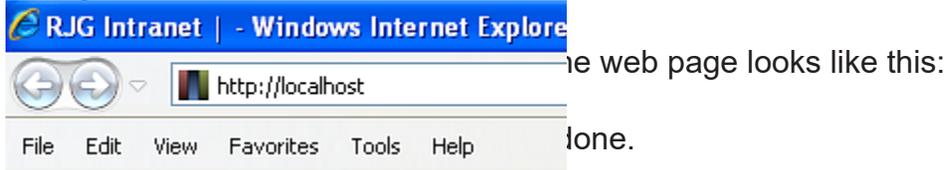
If you are at the EDM, type **http://localhost**

If you are not at the EDM use IP address **http://192.168.1.250** (default values set at RJG).

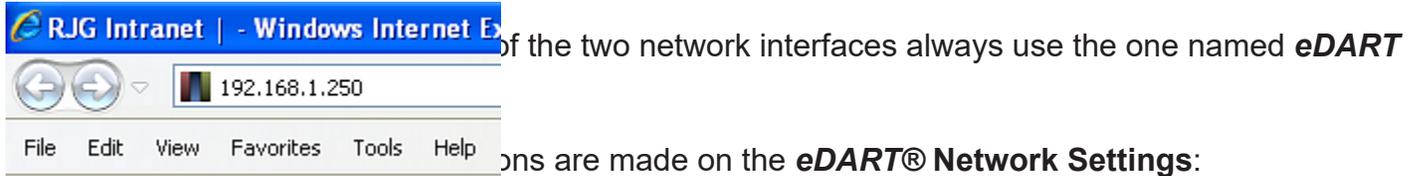
Or:  
**http://EDM**

Type "customer" without the quotation marks for User and Password and click on Login.

**Note: At this time the password is set in the system and cannot be changed. So be careful who you hand this out to.**



## eDART® Network Settings:



➤ Assign the right network interface card to the **eDART® Network Interface**.

When configuring the network settings, ensure that the eDART® Network connection is assigned to the correct network interface card (NIC) used, then ensure that the eDART® Network connection is on the correct network (e.g., RJG's subnet).



- Synchronize time for all the eDART®s with EDM
- Turn on cross-copy or distribution of the latest mold/machine files

- Back up historical data

Logged on as: customer [Logout](#) Welcome to the RJG eDART Data Manager

**Main**  
[Main](#)

**Applications**  
[Advanced System Overview](#)  
[HTML Overview](#)

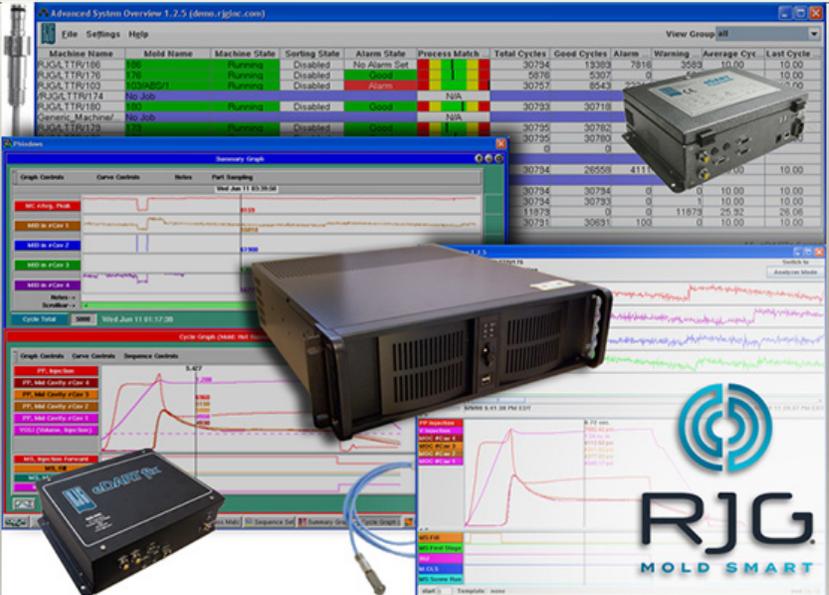
**Help**  
[Advanced System Overview](#)  
[Cross Copy](#)  
[EDM Network Setup](#)

**Settings**  
[eDART Network Settings](#)  
[EDM Network Settings](#)  
[TimeSettings](#)

**Diagnostics**  
[Check Java Version](#)  
[Installed RJG Apps](#)

**Contact RJG**  
[RJG Inc. Webpage](#)  
[Contact RJG](#)  
[Join a Meeting](#)

RJG, Inc.  
3111 Park Drive  
Traverse City, MI 49686  
Phone:  
 231-947-3111   
Fax: 231-947-6403



The screenshot displays the 'Advanced System Overview 1.2.5' interface. At the top, there is a table with columns: Machine Name, Mold Name, Machine State, Sorting State, Alarm State, Process Match, Total Cycles, Good Cycles, Alarm, Warning, Average Cyt., and Last Cycle. Below the table are several graphs showing 'Graph Controls', 'Cycle Graph', and 'Sequence Controls'. A physical RJG eDART device is shown in the foreground, connected to a computer. The RJG logo and 'MOLD SMART' tagline are visible in the bottom right corner of the interface.

*Settings functions are now available. This is where you configure the EDM and eDART® networks. Changes take effect immediately!*

# The EDM Network Settings:

Through this tool the user will configure the network cards, namely the **eDART® Network** and **Office Network**. Users may choose to assign static IP addresses, subnets, and enter gateways and DNS server information or get dynamic IP address from the DHCP server for these interfaces.

**Note:** You must use this tool to assign/reconfigure IP address and other network pertinent information.

Logged on as: **customer** [Logout](#) EDM Network Se

<b>Main</b> <a href="#">Main</a> <b>Applications</b> <a href="#">Advanced System Overview</a> <a href="#">HTML Overview</a> <b>Help</b> <a href="#">Advanced System Overview</a> <a href="#">Cross Copy</a> <a href="#">EDM Network Setup</a> <b>Settings</b> <a href="#">eDART Network Settings</a> <a href="#">EDM Network Settings</a> <a href="#">TimeSettings</a> <b>Diagnostics</b> <a href="#">Check Java Version</a> <a href="#">Installed RJG Apps</a> <b>Contact RJG</b> <a href="#">RJG Inc. Webpage</a> <a href="#">Contact RJG</a> <a href="#">Join a Meeting</a>  <b>RJG, Inc.</b> 3111 Park Drive Traverse City, MI 49686 Phone: 231-947-3111 Fax: 231-947-6403	<b>Interface: Office Network</b>		
	Device Name	Realtek RTL8139/810x Family Fast Ethernet NIC	
	Mac Address	00-13-F7-A7-94-4F	
	DHCP Enabled	<input type="checkbox"/> No <input type="checkbox"/> Yes	
	IP Address/Subnet mask	<input type="text" value="192.168.2.6"/>	<input type="text" value="255.255.0.0"/>
	Default Gateway(s)	<input type="text" value="192.168.2.13"/>	
	DNS Server(s)	<input type="text" value="192.168.2.1"/>	
	Wins Server(s)	<input type="text"/>	
	<input type="button" value="Save Settings"/> <input type="button" value="Reset"/>		
	<b>Interface: eDART Network</b>		
Device Name	Intel(R) 82566DM-2 Gigabit Network Connection		
Mac Address	00-30-48-B0-13-C7		
DHCP Enabled	<input type="checkbox"/> No <input type="checkbox"/> Yes		
IP Address/Subnet mask	<input type="text" value="10.11.12.250"/>	<input type="text" value="255.255.255.0"/>	
Default Gateway(s)	<input type="text"/>		
DNS Server(s)	<input type="text"/>		
Wins Server(s)	<input type="text"/>		
<input type="button" value="Save Settings"/> <input type="button" value="Reset"/>			

# eDART® Network Interface:

**Note:** The network interface card (NIC) connecting to the eDART® network must be on the same subnet as the eDART®s'.

in the Dropdown choose the network interface that will talk to the eDART® network from the list, namely the **eDART® Network** and **Office Network**.

**Set Interface:** After choosing the right connection click on **Set Interface** to apply the change. The IP Address, EDM Subnet Mask, and EDM Gateway cannot be changed here. These are set through the **EDM Network Settings** option.

Enable Automatic eDART® IP Address Assignment:

EDM can assign IP address to eDART® as a DHCP server would to workstations. With this option on, you should never have to worry about having to remember eDART®' IP addresses.

Choose: Y  
N

Logged on as: customer Logout

**Main**  
Main

**Applications**  
Advanced System Overview  
HTML Overview

**Help**  
Advanced System Overview  
Cross Copy  
EDM Network Setup

**Settings**  
eDART Network Settings  
EDM Network Settings  
TimeSettings

**Diagnostics**  
Check Java Version  
Installed RJG Apps

**Contact RJG**  
RJG Inc. Webpage  
Contact RJG  
Join a Meeting

RJG, Inc.  
3111 Park Drive  
Traverse City, MI 49686  
Phone: 231-947-3111  
Fax: 231-947-6403

eDART Network Interface: Internet  
Set Interface

IP Address: 172.16.1.10  
EDM Subnet Mask: 255.255.255.0  
EDM Gateway:

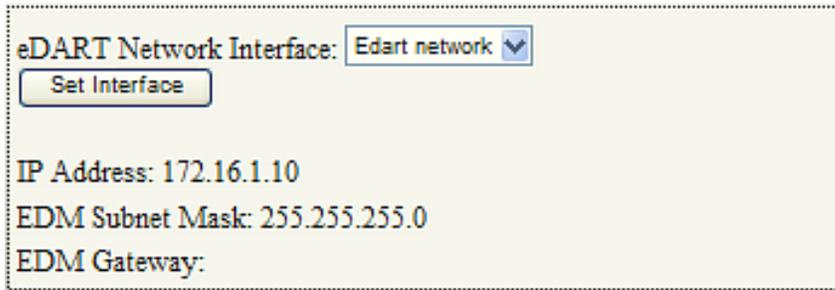
Enable Automatic eDART IP Address Assignment:  
 Yes  No  
Default eDART Gateway: 172.16.1.10  
eDART IP Address Assignment Range:  
172 . 16 . 1 . 1 to 172 . 16 . 1 . 254  
Save settings

Enable Automatic eDART Time Synchronization:  
 Yes  No  
Save settings

Enable Cross Copy:  
 Yes  No  
Save settings

Enable Automatic eDART Data Backup:  
 Yes  No  
Save settings

**Default eDART® Gateway:** The IP address here should be the same IP address as the eDART® Network Interface. RJG doesn't recommend putting a gateway between the eDART® network and the EDM.



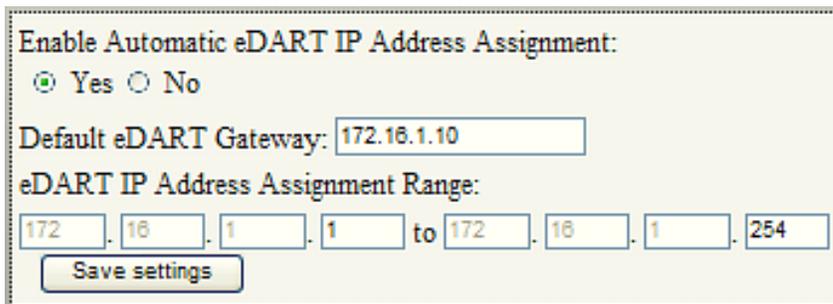
The screenshot shows a configuration window for the eDART Network Interface. At the top, it says "eDART Network Interface:" followed by a dropdown menu showing "Edart network" and a "Set Interface" button. Below this, the IP Address is set to "172.16.1.10", the EDM Subnet Mask is "255.255.255.0", and the EDM Gateway field is empty.

**eDART® IP Address Range Assignment:** If set to Yes enter the range of IP addresses. Ensure that the range will not include IP numbers that are in use elsewhere in the network. This range will be on the same subnet and IP scheme as the EDM's.

**Save Changes:** Click on this button to save your changes.

### Enable Automatic eDART® Time Synchronization:

By default it is set to **Yes**. With this option on, all the eDART®s in the network will synchronize its clock with that of the EDM's. It is very important that all the eDART®s and EDM keep their clock in



The screenshot shows a configuration window for "Enable Automatic eDART IP Address Assignment". It has two radio buttons: "Yes" (selected) and "No". Below this, the "Default eDART Gateway" is set to "172.16.1.10". The "eDART IP Address Assignment Range" is set to "172.16.1.1 to 172.16.1.254". There is a "Save settings" button at the bottom.

sync for the EDM to effectively manage files and to carry out its cross copy function.

### Enable Cross Copy: (If set to Yes)

**Note:** Make sure the eDART®'s software version is at least 9.0. (If it is not at 8.9 go to [http://www.rjginc.com/software\\_updates](http://www.rjginc.com/software_updates) and download the current eDART® software.)

#### - Important -

When connecting the eDART® for the first time, always create the Group Name on the eDART® BEFORE connecting to the network. See Appendix 1.

EDM will keep the latest copy of molds and/or machines files including its templates, alarm settings, V->P transfer settings, valve gate settings, etc. when that (job) mold and machine run. EDM will then send down this most up-to-date mold and machine files to the eDART® where that particular job will run next. However, such cross-copy of files is limited to eDART®s by the group they belong to. See **Appendix 1, Step 7** for how to change the Group Name in eDART®

The mold and machine configuration files are saved under **C:\eDART\_Configuration\Groups\<group name> folder.**

**Note:** Security setting, views and system settings are global and will be distributed across the groups. These files are saved under C:\eDART\_Configuration\Global<type>

### Enable Automatic eDART® Data Backup:

**Note:** Data backup by EDM is temporary.

As data will fill up your harddisk, the system will begin to delete data in a first-

in-first-out manner. You must implement a data archiving system to secure your mold data. Please contact, RJG, Inc. Customer Support 231 947-3111 ext. 170 for technical assistance.

Enable Automatic eDART Time Synchronization:

Yes  No

Save settings

If the **Enable Automatic eDART® Data Backup:** is set to Yes, EDM will back up the historical data from the mold runs and the log files from all the eDART®s.

The Cycle and Summary data from the Mold runs are saved in the C:\FTP\data\Molds folder. These data consist of curves from the cavity sensors, injection, stroke/velocity sensors, and thermocouples.

**Log files:** Changes such as sensor locations/identity, ejector pin size, machine size, templates, alarm limits, etc. are recorded on log files. These log files are also copied on the EDM. The logs are Comma Separated Value (CSV) text files.

The log name is suffixed by the node number of the eDART® itself. When RJG, Inc. ships out eDART®, it is shipped out with an incrementally unique node number.

## Interface: eDART® Network:

**Note:** You must use this tool to assign IP address to the NICs.

**Device Name:** The NIC that is selected to talk to the eDART® Network and lies on the same subnet.

**MAC Address:** This field will display the Media Access Control address for this device.

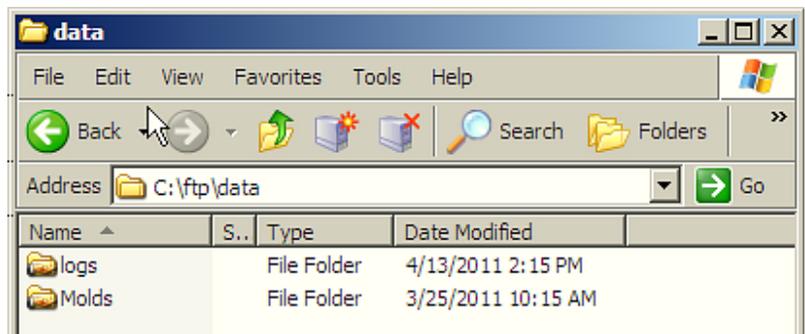
**DHCP Enabled:** If **Yes** then you do not need to fill in the remaining fields.

If the eDART®s are connected on a network shared with the other equipment, and a DHCP service is available, then you can set it to Yes. **If this is a dedicated eDART® network then set this to 'No'.**

**IP Address:** Assign the IP address and network subnet mask here.

**Default Gateway:** Enter valid Default Gateway(s) if DHCP is not used otherwise leave this blank.

**DNS Server:** Enter a valid DNS Server(s) IP address if DHCP is not used for IP number otherwise leave this blank.



**Wins Server:** You can supply a Wins Server(s) IP address if the eDART® Network is on the same network as the office, and DHCP is not used, otherwise leave this blank.

**Save Settings:** Click on this button to save you changes.

**Reset:** Click on this button to return to your previous saved settings.

## Interface: Office Network

Interface: eDART Network	
Device Name	Intel(R) 82566DM-2 Gigabit Network Connection
Mac Address	00-30-48-B0-13-C7
DHCP Enabled	No <input type="button" value="v"/>
IP Address/Subnet mask	<input type="text" value="10.11.12.250"/> <input type="text" value="255.255.255.0"/>
Default Gateway(s)	<input type="text"/>
DNS Server(s)	<input type="text"/>
Wins Server(s)	<input type="text"/>
<input type="button" value="Save Settings"/> <input type="button" value="Reset"/>	

**Device Name:** The NIC that is selected to talk to the **Office Network**.

**MAC Address:** This field will display the Media Access Control address for this device.

**DHCP Enabled:** If **Yes** then you do not need to fill in the remaining fields.  
If a DHCP service is available, then you can set it to **Yes** or assign a static IP address here

**IP Address:** If DHCP Enabled is set to **No** then type in the IP address and subnet mask here. They should lie in the same subnet as the office network's.

**Default Gateway:** You can supply a default gateway if the *eDART*® network is on the same network as the office, and DHCP is not used, otherwise leave this blank.

**DNS Server:** If DHCP Enabled is set to **No**, you should supply an accessible DNS Servers IP address here, otherwise leave this blank. Without the DNS server you must type the IP address of the EDM when connecting to it via web browser from your computer.

**Wins Server:** If DHCP Enabled is set to **No**, you should supply an accessible Wins Servers IP address here otherwise leave this blank.

**Save Changes:** Click on this button to save your changes.

**Reset:** Click on this button to return to your previously saved settings.

Interface: Office Network	
Device Name	Realtek RTL8139/810x Family Fast Ethernet NIC
Mac Address	00-13-F7-A7-94-4F
DHCP Enabled	No <input type="button" value="v"/>
IP Address/Subnet mask	<input type="text" value="192.168.2.8"/> <input type="text" value="255.255.0.0"/>
Default Gateway(s)	<input type="text" value="192.168.2.13"/>
DNS Server(s)	<input type="text" value="192.168.2.1"/>
Wins Server(s)	<input type="text"/>
<input type="button" value="Save Settings"/> <input type="button" value="Reset"/>	

## EDM Time Settings:

With this tool, you can configure the eDART® Network to be synchronized with a time server. This must be an authoritative time server and accessible by the EDM.

**Time Zone:** Set the time zone here for the geographical location the of EDM.

*Note: EDM does not set the eDART®s time zone. The eDART®'s time zone must be set on the eDART® itself and rebooted.*

**NTP Time Server:** Provide the address of an authoritative time server in your network or if the EDM can access the Internet you may set this address to **time.windows.com** or **time-a.timefreq.bldrdoc.gov**.

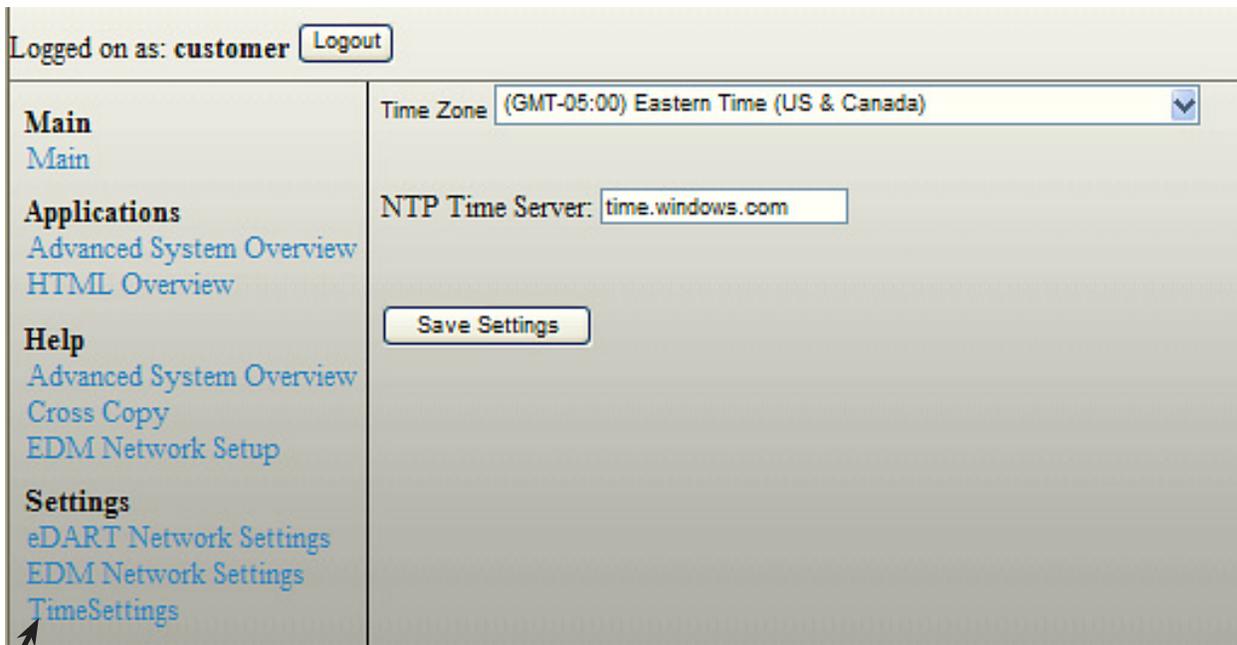
**Save Settings.** Click after information in this page are updated.

## To set Time Zone on the eDART®:

On the eDART®, click on the **QNX** button and choose **Configure eDART®**

At the top of the page choose the correct time zone from the drop down list. Click on Save button at the bottom of the page. Reboot the eDART®

*Note: A password maybe required to save/make changes. The default password is password.*



## How to create Advanced System Overview (ASO) short-cut:

### Advanced System Overview:

Typically, this function will launch the Advanced System Overview (ASO) and also create a shortcut for future launch. You will need to run ASO from here just once. Once the shortcut is created and placed on your desktop you will click on the shortcut to run ASO. ASO is a Java based application. Hence, Java **must** be installed on your computer for the ASO to run. (No Java? see next page)

**Note:** If the response from your computer is different than what is described here, please call RJG, Inc. Customer Support Department, 231. 947. 3111 x 170 for assistance.

**System Menu**

- Language
- Notepad
- Calculator
- Upload Recent Data
- Reset Mouse & Kbd
- Restore Toolbar
- User Interface
- Configure eDART
- Restart System
- Shutdown System

GNX  Driv  ? R

**eDART Configuration**

Time Zone:  Use Daylight Savings  
(UTC - 0500) Eastern, (USA, Canada) ▾

Enable screen saver after  min.

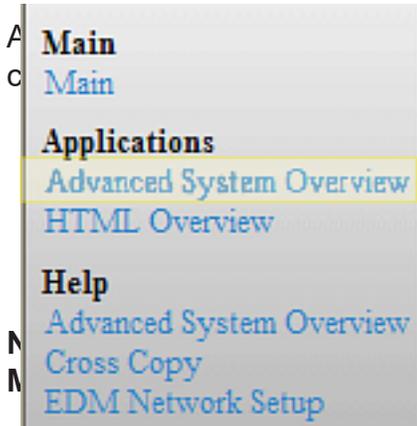
**Change Node Number**

IP Address:   
Subnet Mask:

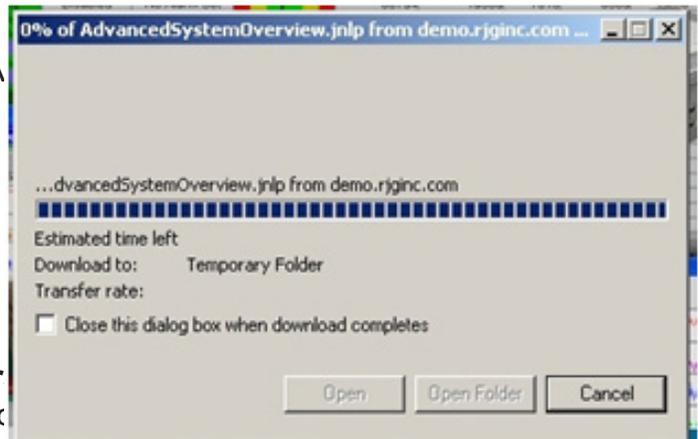
**eDART Serial Number:**

**Save**

When you run the ASO for the first time a confirmation screen will appear. Check **Always trust content from this publisher**.



binoculars for the A



on **Check Java Ver**  
low the screen to co

*Note: On some computers Java may get installed automatically.*

## Diagnostics:

Check Java Version:



The **Advanced System Overview (ASO)** runs on Java. The **Check Java Version** utility will locate and verify that

the java you have in your computer is compatible with the system. If not found or found incompatible you may click on **Manually Install Java** to install.





**Note:** If you receive an error message while trying to run ASO or reinstalling Java contact RJG Customer Support for help.

### Installed RJG Apps

Click to identify what RJG applications are installed on your computer.

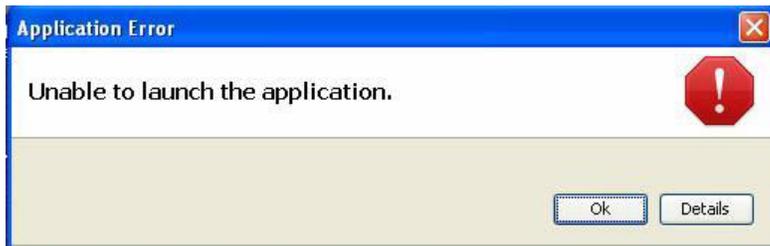
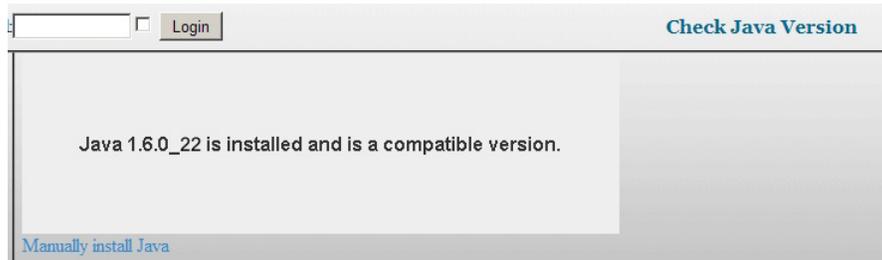
This information is often requested by Support personnel when troubleshooting issues with the EDM.

## Contact RJG:

For technical assistance, please contact RJG, Inc. Customer Support Department at 231. 947. 3111 x 170.

## Appendix 1: Cross Copy

- Main**
- [Main](#)
- Applications**
- [Advanced System Overview](#)
- [HTML Overview](#)
- Help**
- [Advanced System Overview](#)
- [Cross Copy](#)
- [EDM Network Setup](#)
- Settings**
- [eDART Network Settings](#)
- [EDM Network Settings](#)
- [TimeSettings](#)
- Diagnostics**
- [Check Java Version](#)
- [Installed RJG Apps](#)



### - Important -

The following example pertains to an already existing mold and machine configurations with multiple eDART® groups.

Example of implementing cross copy in an environment with pre-existing groups, molds and machines configurations:

<ul style="list-style-type: none"> <li><b>Main</b></li> <li><a href="#">Main</a></li> <li><b>Applications</b></li> <li><a href="#">Advanced System Overview</a></li> <li><a href="#">HTML Overview</a></li> <li><b>Help</b></li> <li><a href="#">Advanced System Overview</a></li> <li><a href="#">Cross Copy</a></li> <li><a href="#">EDM Network Setup</a></li> <li><b>Settings</b></li> <li><a href="#">eDART Network Settings</a></li> <li><a href="#">EDM Network Settings</a></li> <li><a href="#">TimeSettings</a></li> <li><b>Diagnostics</b></li> <li><a href="#">Check Java Version</a></li> <li><a href="#">Installed RJG Apps</a></li> </ul>	<ul style="list-style-type: none"> <li>Advanced System Overview 2.3.1</li> <li>Analyzer 3.12</li> <li>DTelnet 0.6</li> <li>EDM 2.3.4</li> <li>EDM_Setup 2.3.4</li> <li>EDM_Webpage 1.4.3</li> <li>Edart ActiveX Control 1.2</li> <li>Edart System Utility Extras 1.2</li> <li>Phindows 1.4</li> <li>System Overview 1.3.1</li> <li>eDART Data Extractor 2.4</li> <li>eDART Locator 2.9.1</li> </ul>
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**Step 1:** Do not change the group name on eDART®s but keep them different from each other and let all the files be copied to EDM first. This operation will not take very long. Therefore, if the network connections are robust you move on to the next step within minutes.

**Step 2:** Create new folders on the EDM under: **C:\eDART\_Configuration\Groups** and name the new folders according to the groups you will be assigning the eDART®s to. For example: EAST\_BLOCK, WEST\_BLOCK, CENTRAL\_BLOCK, etc.

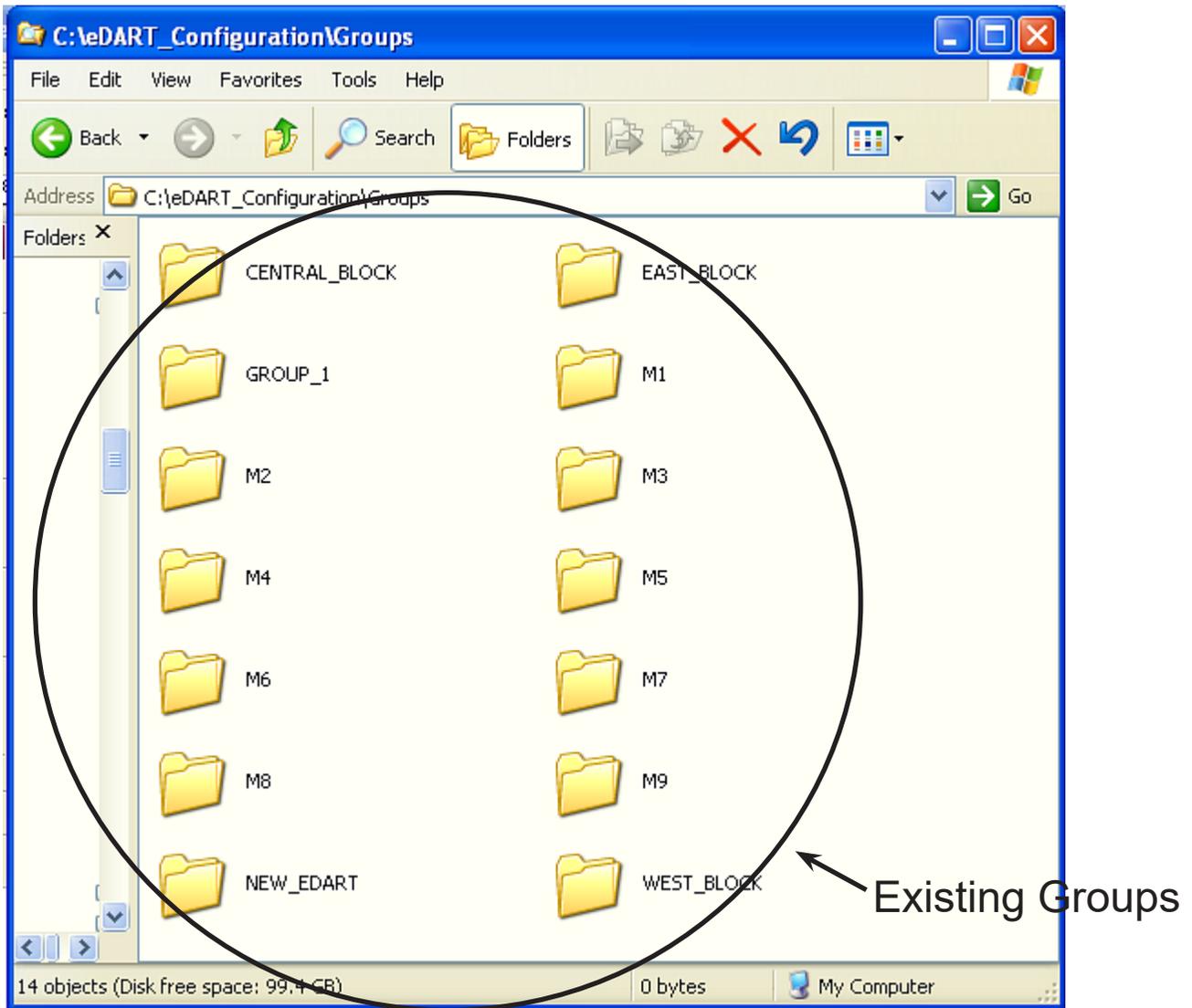
**Note:** You may group the eDART®s by the location, the tonnage, the type (vertical, shuttle, etc.), etc. of the machine they will be installed on.

**Step 3:** Right click on one of the folder and choose **Explore**.

**Step 4:** A new window will open. Rearrange the windows so as to make them both visible. This will make copying by drag and drop easy.

**Step 5:** Open the folder by clicking on **plus** sign next to the folder .

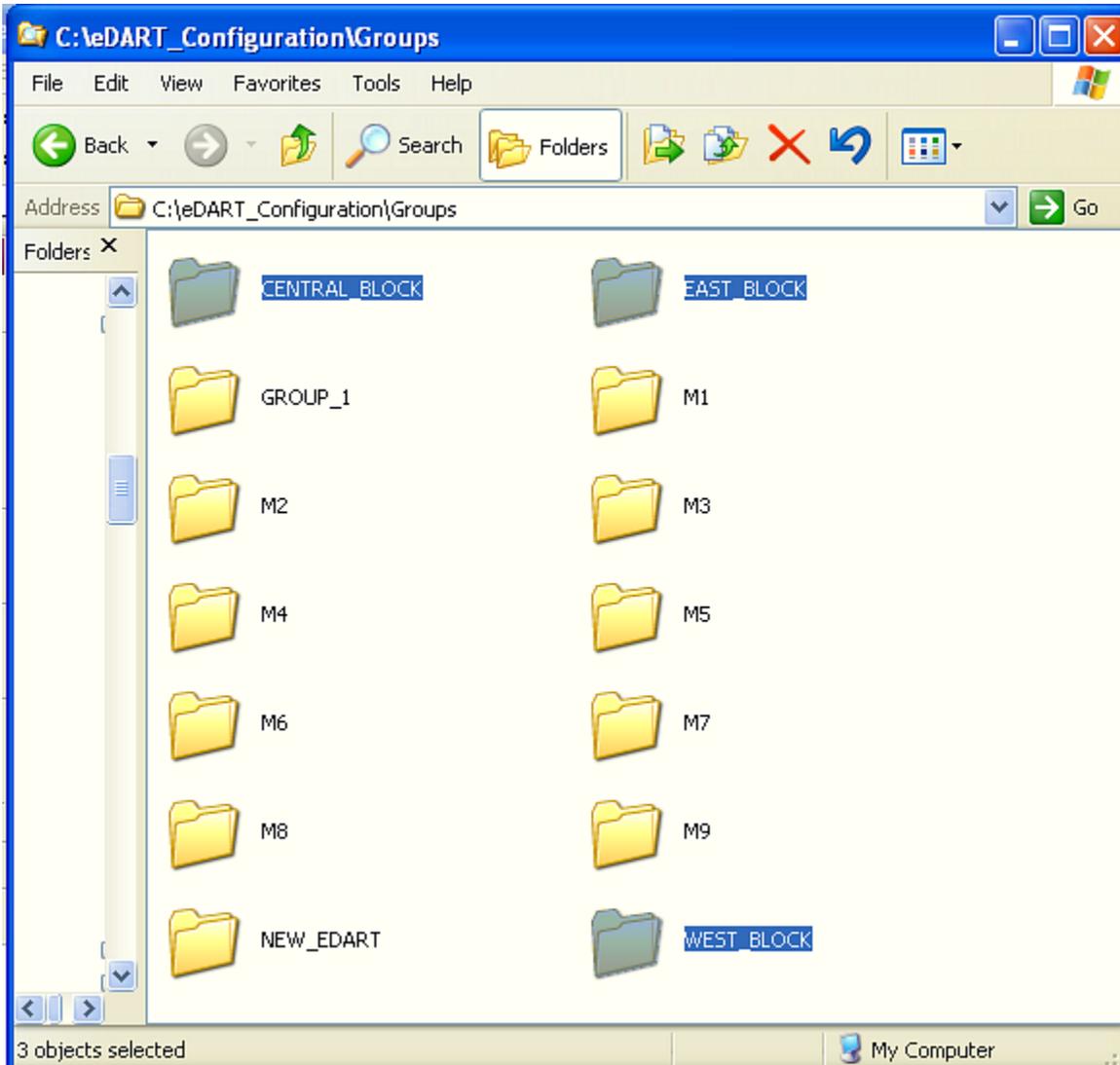
**Step 6:** The underlying folders will be visible on the right hand side column. Select the **Molds** or **Machines** folder and drag and drop them into the group they will belong to.



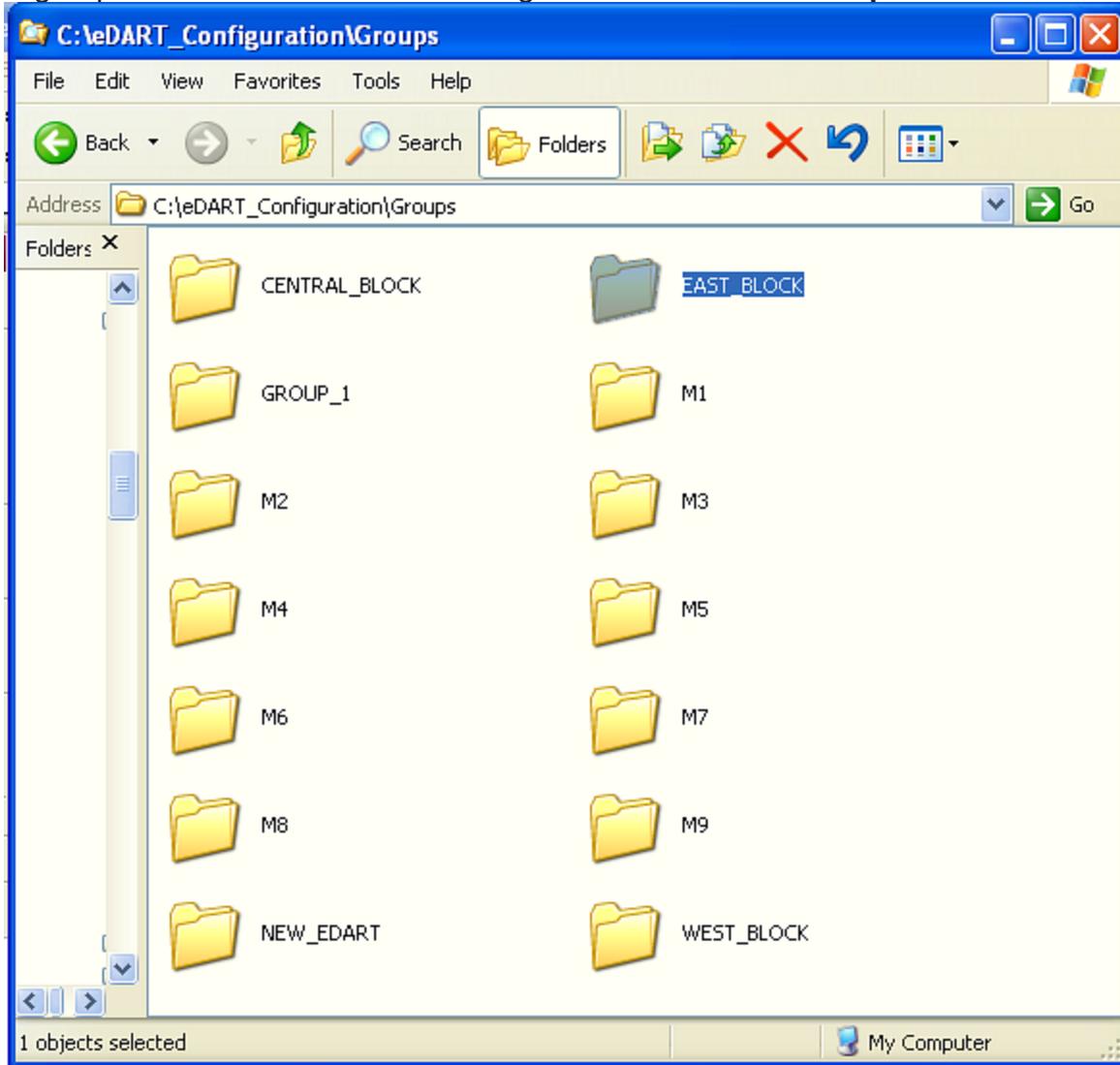
Leave the configuration folder alone.

**Step 7:** Change the group name on the eDART® to assign it to a group:

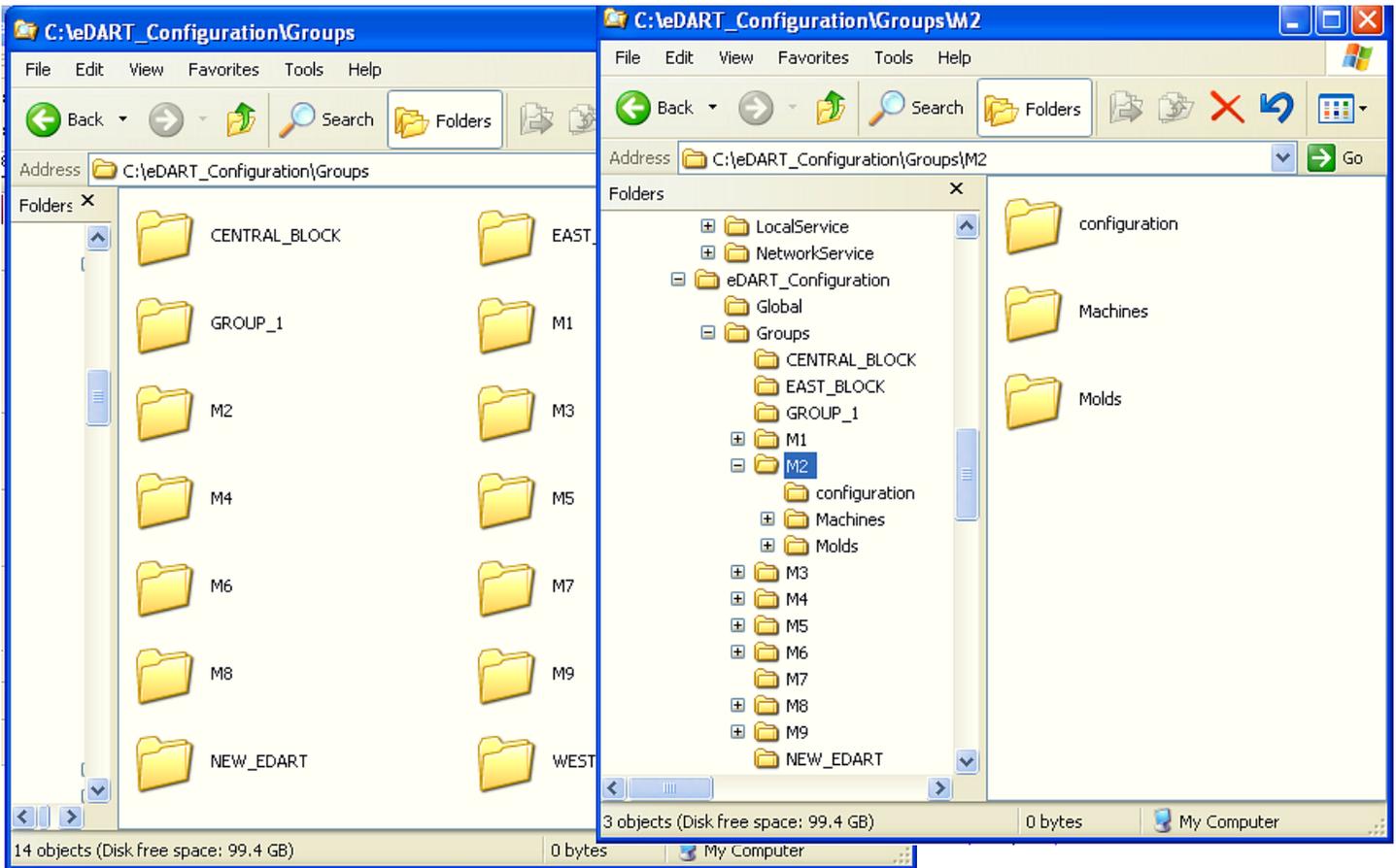
On the eDART®, click on **QNX** button and choose **Configure eDART®**.



Type the group name the eDART® will belong to in the eDART® Group box and click on Save.



**Note:** A password maybe required to save/make changes. The default password is password.



The group change requires rebooting the eDART®.

