



IBM Software Group

# WebSphere Transformation Extender Utility Commands (Part II)

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WebSphere Transformation Extender L2 Support

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WebSphere® Support Technical Exchange



# Agenda

The presentation covers the Utility Commands that are available with WebSphere Transformation Extender (WTX):

- Why use them
- What can they do for you
- Configuring your environment to use Utility Commands
- Types of Utility Commands
- Questions and Answers

## Why use them

- Automate processing (compiling, analyzing, converting) of large volumes of maps/trees/systems via batch scripts
- Use WTX components without the need for X-Windows or Windows GUIs

## What can they do for you

- Analyze type trees
- Import and export type trees, map source files and systems
- Convert type tree properties from bytes to characters
- Compile maps
- Generate a map report HTML file containing information about a map source file
- Deploy systems
- Create one map that can transform any input data into XML output, and a second map that can transform the XML that the first map produced into output data in a format described by the type tree that you specified
- Edit the Resource Registry
- Start, Stop, Administer the Launcher

# Configuring your environment to use Utility Commands

- Windows
  - Set the environment variable PATH to reference your WTX installation
  - Set `PATH=C:\IBM\WebSphere Transformation Extender 8.4;%PATH%`
- UNIX
  - Run the WTX setup command or set environment variables
    - Setup Command
      - `. <path to WTX installation directory>/setup`
    - Set environment variables PATH and LD\_LIBRARY\_PATH/LIBPATH to reference the WTX directories.
      - PATH:
        - `export PATH=/opt/ibm/wtx/bin:$PATH`

# Configuring your environment to use Utility Commands

- LIBPATH (AIX)
  - export LIBPATH=/opt/ibm/wtx/libs:\$LIBPATH
- LD\_LIBRARY\_PATH (Solaris, Linux, zLinux, HP-UX)
  - export LD\_LIBRARY\_PATH=/opt/ibm/wtx/libs:\$LD\_LIBRARY\_PATH

# Configuring your environment to use Utility Commands

- Utility Commands return success/failure in an environment variable:
  - Windows: ERRORLEVEL
  - UNIX: status
- Utility Commands return the following values in the ERRORLEVEL or status environment variable:
  - 0 - This value indicates that the Utility Commands was successful
  - 1 - This value indicates that the Utility Commands was not successful.
- The ERRORLEVEL and status environment variable can also be used in batch and shell scripts to retrieve the value of the return code from the utilities.

# Types of Utility Commands

- Utility Commands are grouped by functionality within WTX:

- Type Designer <sup>(1)</sup>
- Integration Flow Designer <sup>(1)</sup>
- Resource Registry
- Map Tuning <sup>(2)</sup>
- Map Designer <sup>(1)</sup>
- XML
- Launcher <sup>(3)</sup>

(1) Previously discussed in the WSTE presentation on 8/29/12, titled “WebSphere Transformation Extender Utility Commands (Part I)”

(2) Map Tuning was discussed in the WSTE presentation on 8/15/12, titled “Map Tuning Utilities and Debugging In Design Studio”.

(3) Additional Launcher utility commands will be discussed in the WSTE presentation on 2/7/13, titled “WebSphere Transformation Extender Utility Commands (Part III)”



## XML Utilities – dtxany2xml

- **dtxany2xml** – Produce a map that can transform any input data into XML output
- Syntax: 

```
dtxany2xml <.mtt file name/location> <exported root type path> <input file name/location> <output file name/location> <output map name> [<-schema <schema_file_name/location>] [<log file name/location>]
```

## XML Utilities – dtxany2xml

- The dtxany2xml utility performs the following tasks during execution:
  - Exports the input type tree as an XML Schema
  - Creates an XML type tree from the generated XML Schema for the output card
  - Creates a map source file containing two maps:
    - The first map has the name that you specified in the command line.
    - The second map has the same name as the first map but with `_r` appended to the end of it.
- It creates one map that can transform any input data into XML output, and a second map (`_r` map) that can transform the XML that the first map produced into output data in a format described by the type tree that you specified.

## XML Utilities – dtxany2xml

- Use the second map only when the type tree that you specified in the first parameter of the dtxany2xml utility command was imported from a COBOL copybook.

## XML Utilities – dtxany2xml

- Example:
  - Using the files in examples\general\states execute:  

```
dtxany2xml states.mtt Data:Input:UnitedStates sts.txt xml_output.xml XML_map XML_log.log
```
  - This utility uses the states.mtt tree's type of Data:Input:United States to generate a new XML Schema and type tree with a name using the type tree name plus the selected type name (states\_UnitedStates.xsd and states\_UnitedStates.mtt respectively)
  - Generates a new map source file (XML\_map.mms) that contains two maps:
    - first map (XML\_map)
      - The input card references the original type tree (states.mtt) and input file (sts.txt).
      - The output card references the newly created XML type tree (states\_UnitedStates.mtt ).

## XML Utilities – dtxany2xml

- Example:
  - second map (XML\_map\_r)
  - The input card references the newly created XML type tree (states\_UnitedStates.mtt) and file (xml\_output.xml).
  - The output card references the original type tree (states.mtt).
  - Use this second map only when the type tree that you specified in the first parameter of the dtxany2xml utility command was imported from a COBOL copybook.
    - The log file (XML\_log.log) is created only when an error occurs.

# Resource Registry Utilities

- **ResourceRegistryHelper** – Modify a resource value in the MRN (.mrn) and MRC (.mrc) files
  - UNIX: ResourceRegistryHelper.sh
  - Windows: ResourceRegistryHelper.bat

- Syntax:

```
ResourceRegistryHelper.{bat | sh} <.mrn or .mrc location/file name> -A  
[MODIFY [-R location/resource name] [-S location/server name] [-V value] [-E]] |  
[ADD [-R location/resource name] [-S location/server name]] |  
[REMOVE [-R location/resource name] [-S location/server name]]
```

# Resource Registry Utilities

- `<.mrn or .mrc location/file name>`      The resource registry file to modify
- `-A`      Indicates an Action is to follow (Modify, Add, Remove)

- To ADD a Resource Registry entry, add the syntax of:

`-ADD [-R location/resource name] [-S location/server name]`

`-R location/resource name`      Resource name to add

`-S location/server name`      Server name to add

# Resource Registry Utilities

- To MODIFY an existing Resource Registry entry, add the syntax of:
  - -MODIFY [-R *location/resource name*] [-S *location/server name*] [-V *value*] [-E]
    - -R *location/resource name* Resource name to modify
    - -S *location/server name* Server name to modify
    - -V *value* Resource/Server Value
    - -E Encrypt the value. Default is no encryption
- Resource Registry resource or server names must be present to be modified.



# Resource Registry Utilities

- To REMOVE an existing Resource Registry entry, add the syntax of:
  - -REMOVE [-R *location/resource name*] [-S *location/server name*]
    - -R *location/resource name*                      Resource name to remove
    - -S *location/server name*                      Server name to remove
- Resource Registry resource or server names must be present to be removed

# Resource Registry Utilities

- Examples
  - `ResourceRegistryHelper myrregistry.mrn -A ADD -R Street`
  - `ResourceRegistryHelper myrregistry.mrn -A MODIFY -R Street -V "123 Main Street"`
  - `ResourceRegistryHelper myrregistry.mrn -A ADD -S MyLinuxServer`
  - `ResourceRegistryHelper myrregistry.mrn -A MODIFY -R Street -S MyLinuxServer -V "829 Transformation Avenue"`
  - `ResourceRegistryHelper myrregistry.mrn -A REMOVE -R Street`

## Launcher Utility Commands

- **launcheradmin.[bat|sh]** – Administer the Launcher
- **mgmtconsole.[bat|sh]** – Configure the Management Console
- **launcher.[bat|sh]** – Start/Pause/Stop/Log/Trace Systems
- New functionality added with the release of WTX 8.4 that allows for the use of the Launcher Administration (launcheradmin) and the Management Console (mgmtconsole) utilities without the requirement of a graphics interface.
- New options added to the launcher utility to enable dynamic logging, tracing and list equivalent to the logging/tracing option with the Management Console.
- mgmtconsole and launcher commands to be covered in the February 7, 2013, “WebSphere Transformation Extender Utility Commands (Part III)” WSTE presentation

# Launcher Administration

- The Launcher Administration utility configures the Launcher service and the launchers that are created by the Launcher service. You can use launcheradmin commands to configure deployment directories, users and user access rights, listening ports, and Launcher service properties.
  - Windows: launcheradmin.bat [options]
  - UNIX: launcheradmin.sh [options]
- launcheradmin.{bat|sh} specified with options, invokes the command line version of the utility. This is new with the release of WTX 8.4.
- launcheradmin.{bat|sh} without any options, starts the GUI version of the utility.
- Reads and/or updates the launcheradmin.bin file

# Launcher Administration

- Syntax: {launcheradmin.bat | launcheradmin.sh}
  - [-help]
  - [-list [general | access | deploydirs | advanced | options | all] ]
  - [-manual | -auto]
  - [-single | -separate]
  - [-lport *listening\_port*]
  - [-prange *startport:endport*]
  - [-mrc *resource\_config\_file* ]
  - [-ini *ini\_file\_path*]
  - [-status]
  - [-firewall {enable | disable}]

# Launcher Administration

- Syntax (continued):

`[-fsport server_port ]`

`[-fcport client_port]`

`[-addprop property_name:property_value [;property_name:property_value; ...]]`

`[-delprop property_name[;property_name;... ] ]`

`[-adduser`

`user:user_name;login:login_name;pwd:password[;access:{{[gss|rss],[gpr|rpr],[gm|rm]}}]`

`[-deluser user_name ]`

`[-addir | -rddir deployment_directory]`

# Launcher Administration

- Syntax (continued):

`[-eddir deployment_directory -asf system_file`

`[-pd {[ini:ini_file];[rm:{local | global}];[mrc:resource_config_file]}]`

`[-pf {[name:name];[desc:description];[ini:ini_file];[rm:{local | global}]`

`[mrc:mrcfile];[as:{yes | no}}]`

`[-eddir deployment_directory -dsf system_file[:system_file;...]]`

`[-eddir deployment_directory -sys system_file {-af | -df} file1[:file2;...]`

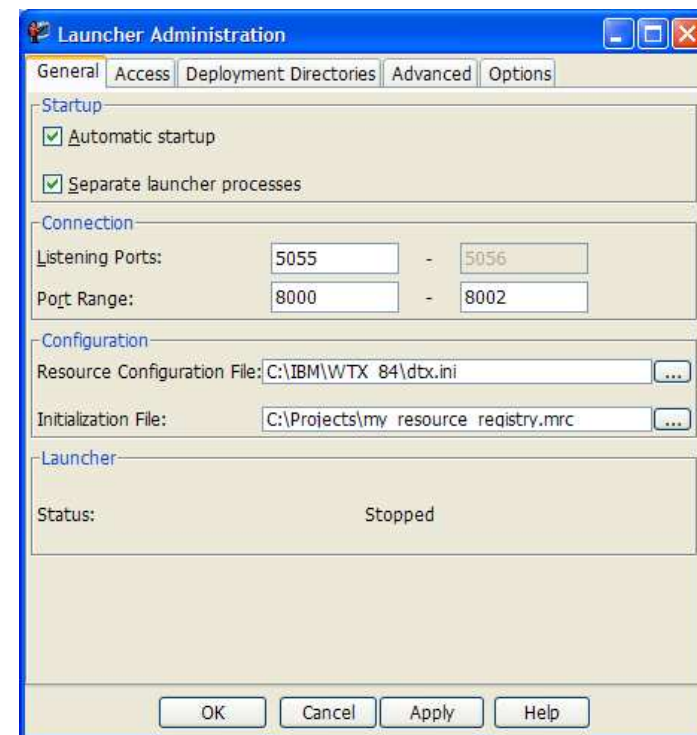
`[-import properties_file]`

`[-export properties_file]`

- Note: UNIX and z/OS USS platforms require double quotes options when a semicolon (;) is part of the command line syntax.

# Launcher Administration

- The launcheradmin options are divided into help, display and modification categories. They all access/update the information that is equivalent within the GUI based utility.
  - Help
    - -help
  - Display
    - -list, -export and -status
  - Modification
    - All other launcheradmin options





## Launcher Administration -list

- -list Displays all or portions of the contents of the launcheradmin.bin file.
- List Syntax:
  - -list [ general | access | deploydirs | advanced | options | all ]
- List options:
  - general Displays the info found on the General tab of the GUI
  - access Displays the info found on the Access tab of the GUI
  - deploydirs Displays the info found on the Deployment Directories tab of the GUI
  - advanced Displays the info found on the Advanced tab of the GUI
  - options Displays the info found on the Options tab of the GUI
  - all Displays the info from all the tabs of the GUI.
- If a list option is not specified, it has the same meaning as specifying the “all” option
- -list is not a tab option within the GUI

# Launcher Administration -list

- -list general

----- Launcher Administration Settings -----

## GENERAL

Automatic startup: true

Separate launcher processes: true

## Connection

Listening Ports: 5015 - 5016

Port Range: 7000 - 8000

## Configuration

Configuration File:

C:\Projects\my\_resource\_registry.mrc

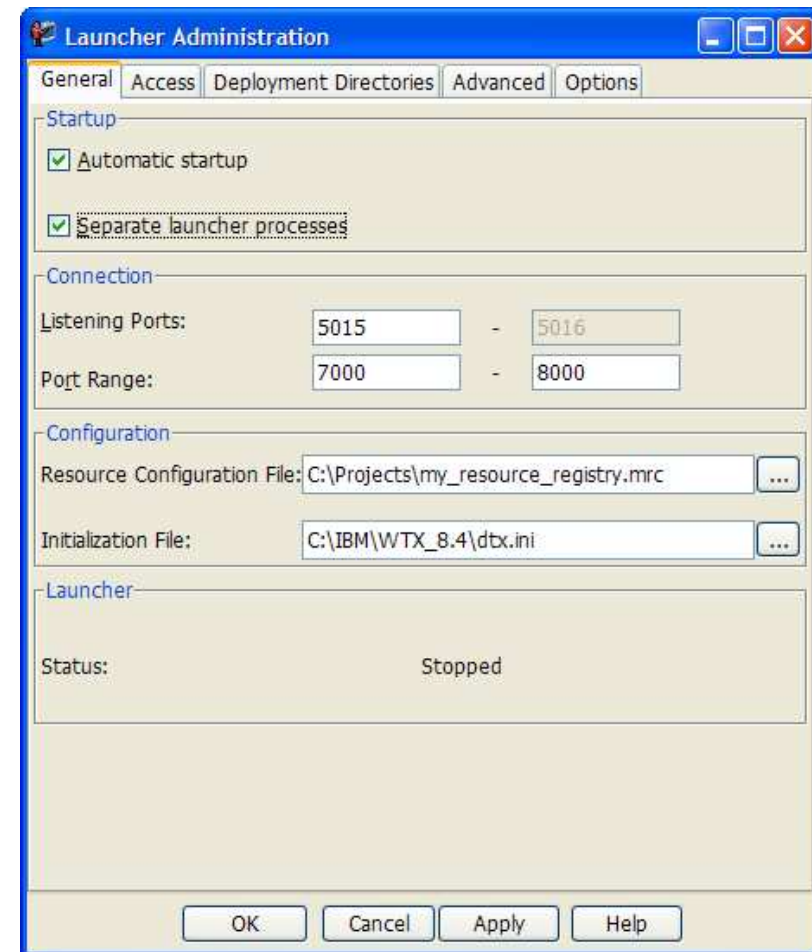
Initialization File: C:\IBM\WTX\_84\dtx.ini

## Launcher

Status: Stopped

-status

Displays Launcher status, i.e: Status: Stopped



# Launcher Administration -list

- list access

----- Launcher Administration Settings -----

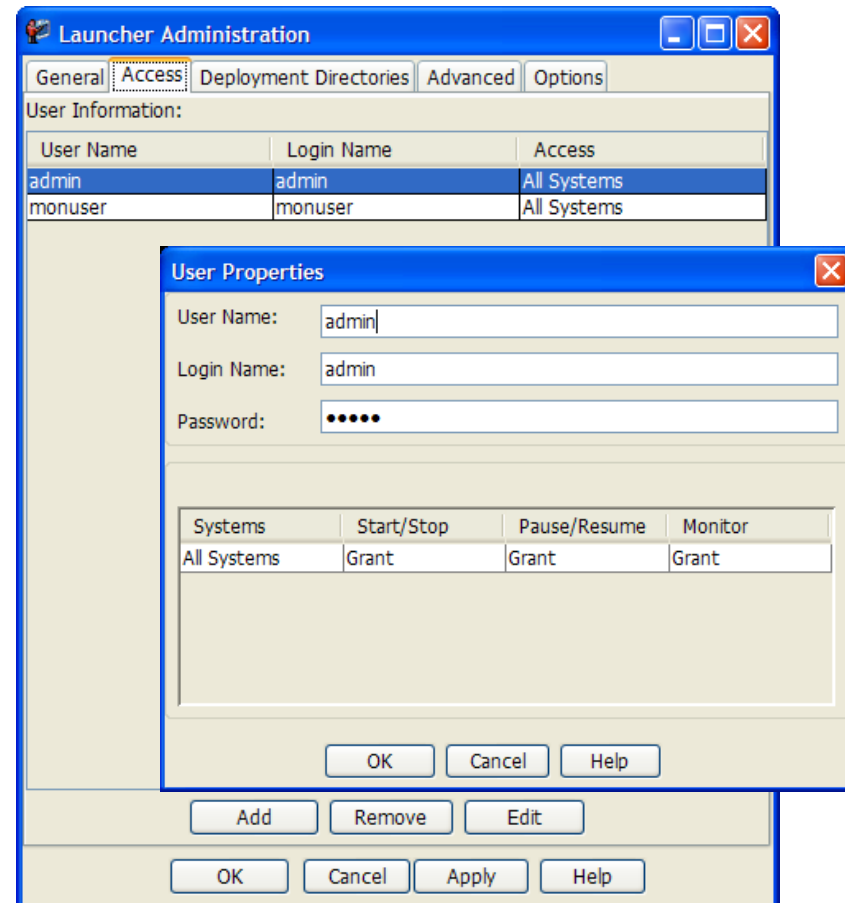
## ACCESS

User Information:

User Name: admin  
 Login Name: admin  
 System Name: All Systems  
 Access Rights  
 Start/Stop: Grant  
 Pause/Resume: Grant  
 Monitor: Grant

User Information:

User Name: monuser  
 Login Name: monuser  
 System Name: All Systems  
 Access Rights  
 Start/Stop: Revoke  
 Pause/Resume: Revoke  
 Monitor: Grant



# Launcher Administration -list

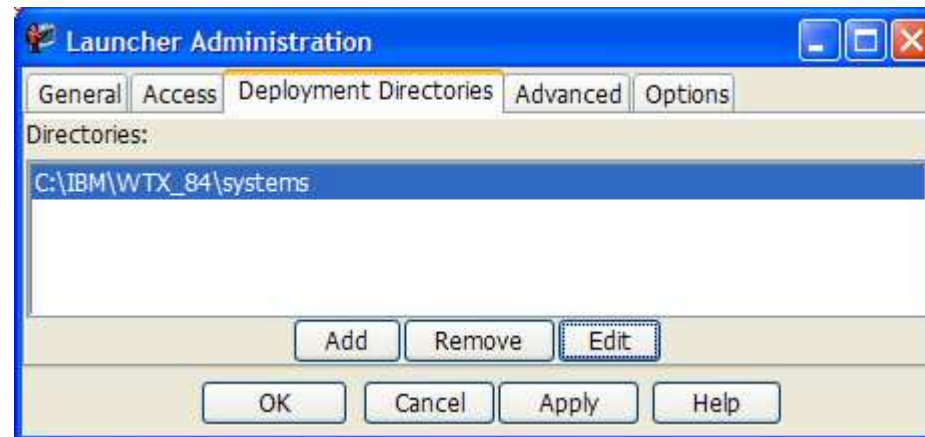
- -list deploydirs

----- Launcher Administration Settings -----

## DEPLOYMENT DIRECTORIES

Directories:

Directory:	C:\IBM\WTX_84\systems
Initialization File:	C:\IBM\WTX_8.4\dtx.ini
Resource Manager:	Local
Configuration File:	C:\Projects\my_resource_registry.mrc

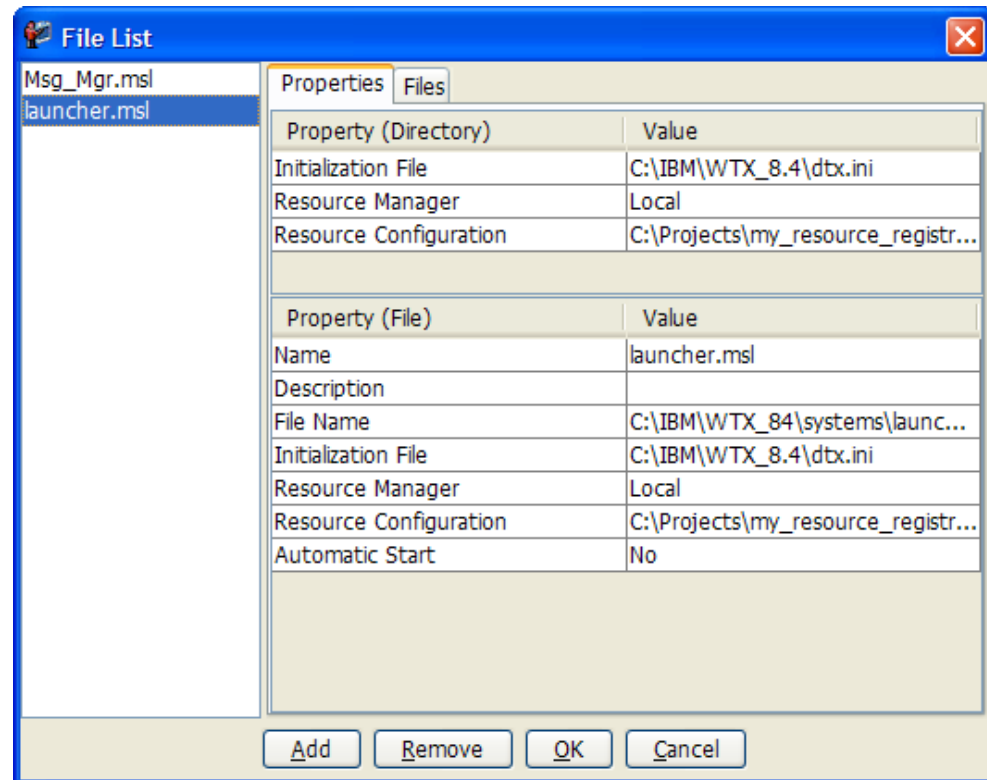


## Launcher Administration -list

- -list deploydirs (continued)
- The following is only displayed only if separate launcher processes are defined

### File List

Name: Msg\_Mgr.msl  
 Description: null  
 Resource Manager: Local  
 Configuration File:  
 C:\Projects\my\_resource\_registry.mrc  
 Initialization File: C:\IBM\WTX\_8.4\dtx.ini  
 Automatic Start: null  
 Name: launcher.msl  
 Description: null  
 Resource Manager: Local  
 Configuration File:  
 C:\Projects\my\_resource\_registry.mrc  
 Initialization File: C:\IBM\WTX\_8.4\dtx.ini  
 Automatic Start: null



# Launcher Administration -list

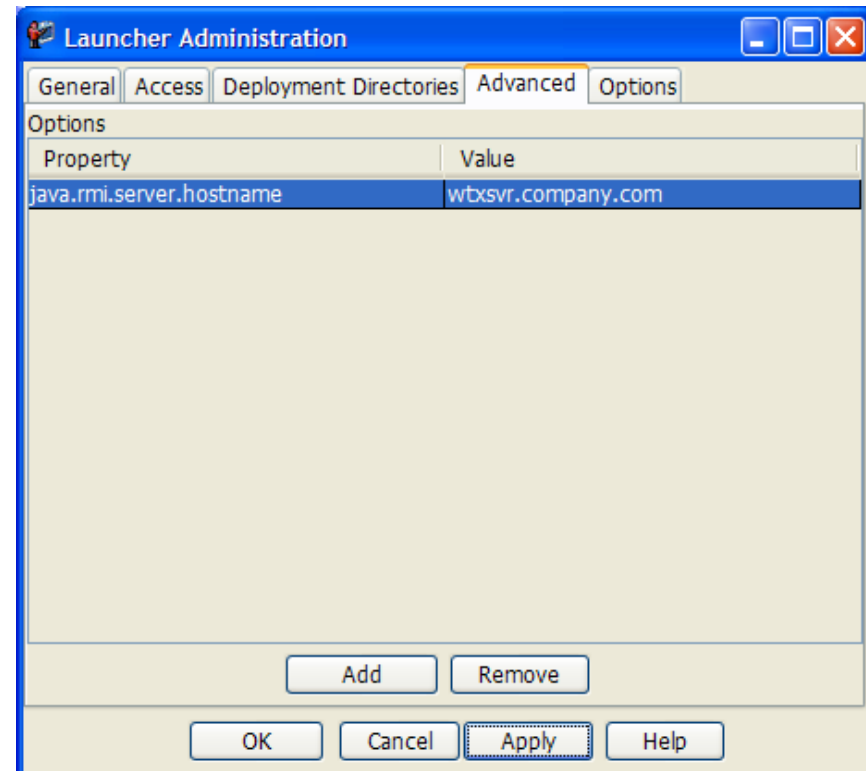
- -list advanced

----- Launcher Administration Settings -----

## ADVANCED

### Options

Property: java.rmi.server.hostname  
Value: wtxsvr.company.com



# Launcher Administration -list

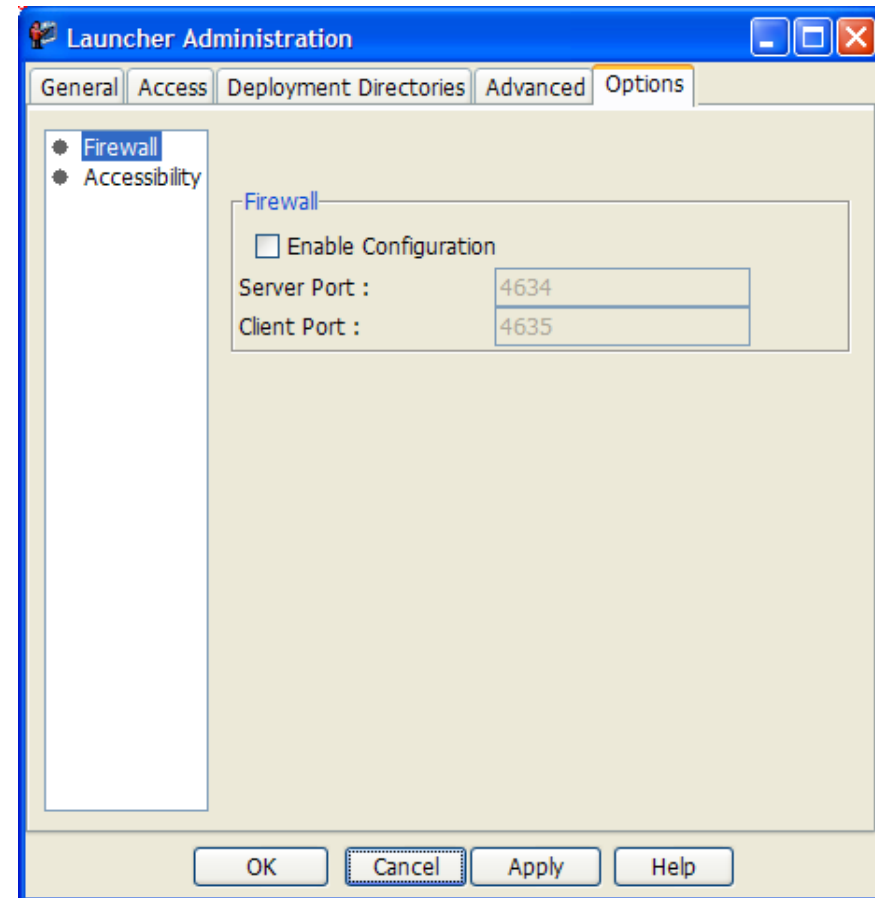
- -list options

----- Launcher Administration Settings -----

## OPTIONS

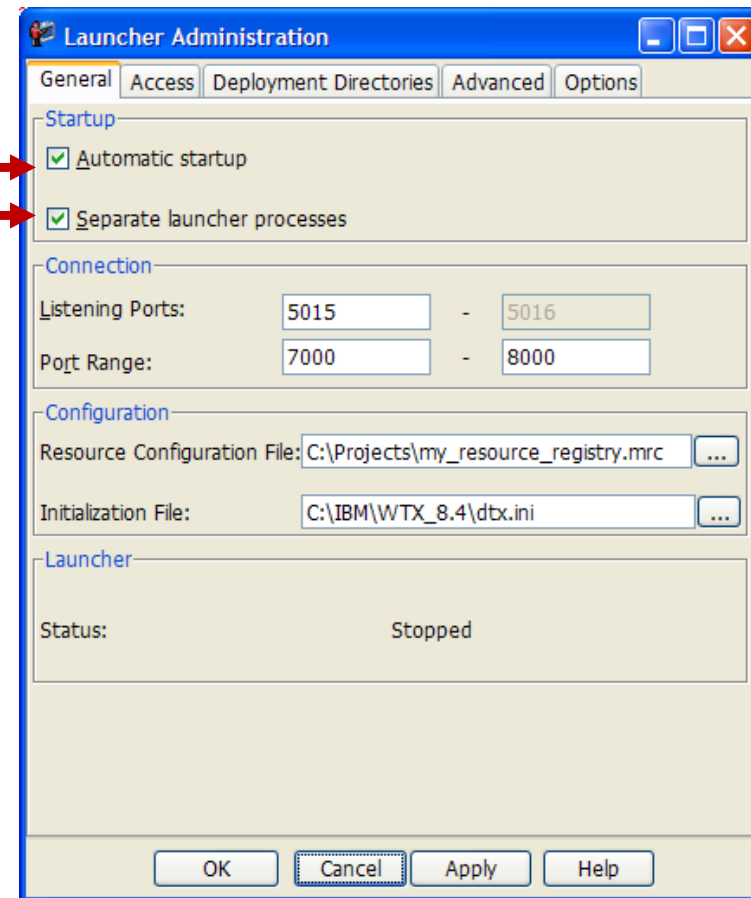
### Firewall

Enable Configuration:	false
Server Port :	4634
Client Port :	4635



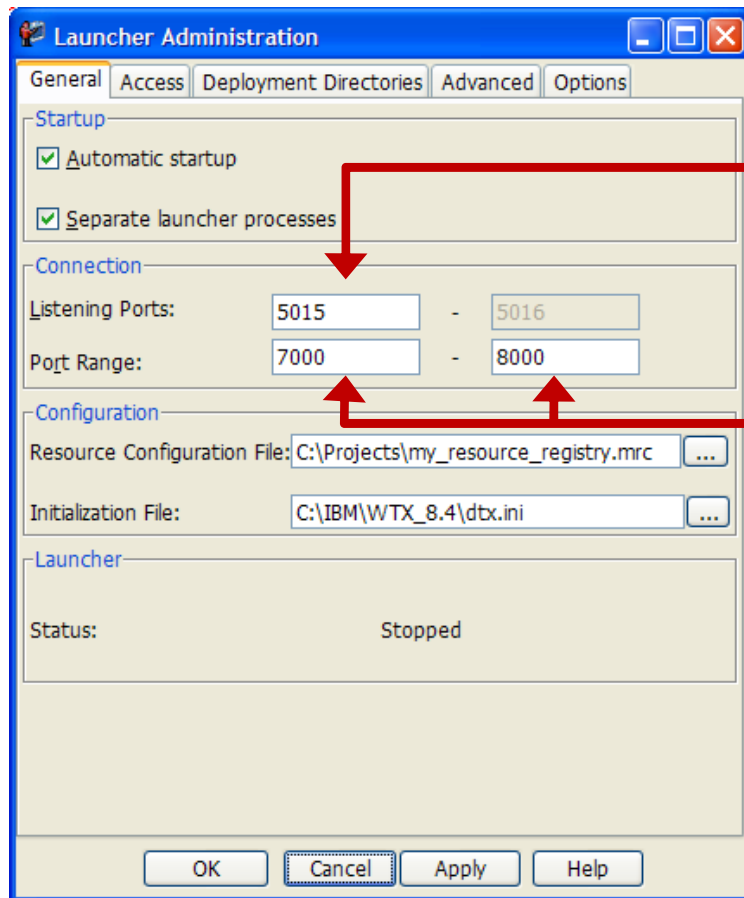
# Launcher Administration

- Modifications – General tab options
- Control how systems start and run, the ports and the configuration files that are used by the Launcher service, and the display of the Launcher service status.
- Startup definitions
  - -manual | -auto    manual = do not start the systems when the launcher starts.  
                          auto = Start the systems when the launcher starts.
  - -single | -separate    single = All systems will run under one launcher process.  
                              separate = each msl will be in it's own launcher process.





# Launcher Administration



Modifications - General tab options – Connection definitions

- `-lport listening_port`

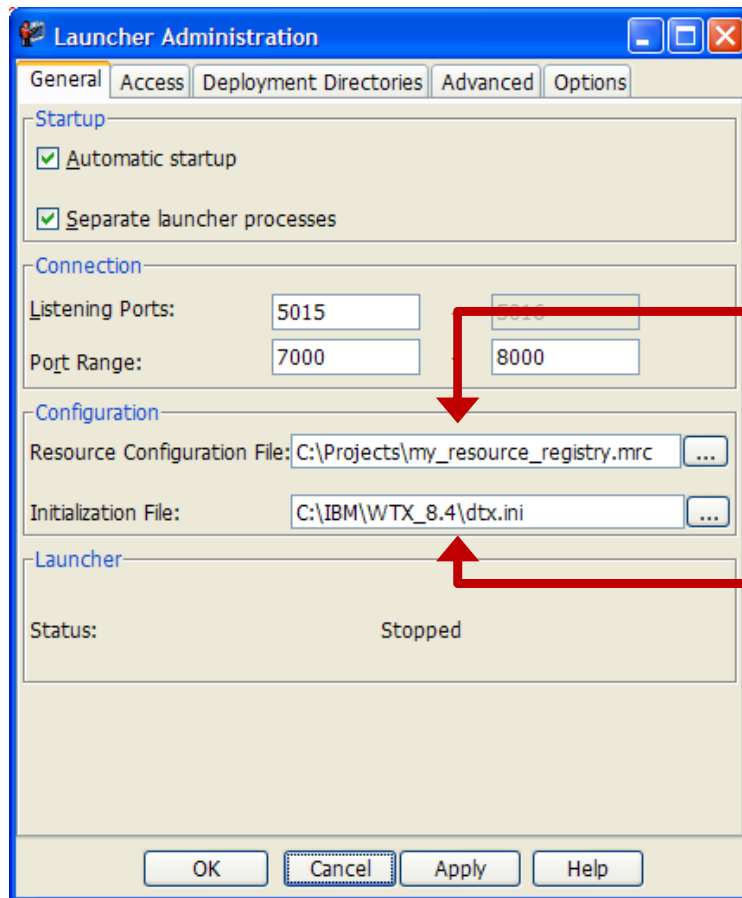
Specify the port, *listening\_port*, on which the Launcher service listens for client connection requests from the Management Console.

Launcher Administration and command line tools. When it listens for the Launcher Monitor, the Launcher service adds 1 to the value of the listening port that you specify.

- `-prange startport:endport`

Specifies the start (*startport*) and ending (*endport*) range of ports to be used by the launcher processes that are started by the Launcher service. Because the Status, Control and Monitor ports are included in this range, the minimum range is 3 ports.

# Launcher Administration



- Modifications - General tab options – Configuration

- `-mrc resource_config_file`

Specifies the name of the resource configuration file (*resource\_config\_file*) that is used by the Launcher. If the path contains spaces, enclose the path in single quotes.

- `-ini ini_file_path` Specifies the full path to the Launcher initialization file (*ini\_file\_path*). If the path contains spaces, enclose in double quotes.

the  
the path

# Launcher Administration

- Example: Modification of General tab parameters
  - Change the launcher to be manual startup, change the listening port, the port range and the initialization file name:

```
launcheradmin.bat -manual -lport 5075 -prange 8000:8002  
-ini C:\My_Projects\WSTE\my_ini.txt
```

# Launcher Administration

- Modifications - Access tab options – Provides the ability to add, delete or edit the permissions of Launcher users.

- Add or Edit a user:

```
[–adduser user:user_name;login:login_name;pwd:password [;access:{{gss|rss},{gpr|rpr},{gm|rm}}]
```

- *user:user\_name* Adds the specified user. If the user already exists, it updates the user configuration with the specified options.
- *login:login\_name* Specifies the login name for the user. Required when adding a new user, optional when editing.
- *pwd:password* Specifies the password for the user. Required when adding a new user, optional when editing.
- *gss|rss* Grants (*gss*) or revokes (*rss*) permission for the user to start and stop the Launcher.
- *gpr|rpr* Grants (*gpr*) or revokes (*rpr*) permission for the user to pause and resume the Launcher.
- *gm|rm* Grants (*gm*) or revokes (*rm*) permission for the user to monitor the Launcher.
- The default access permissions are to revoke
- On non-Windows platforms, enclose the options/parameters after –adduser with double quotes

# Launcher Administration

- Delete/Remove a user:  
`[-deluser user_name ]`
- Examples:
  - Add a user wtxmon with a login name of wtxmon, password of monitor and granting of monitor permission:

Windows: `launcheradmin.bat -adduser user:wtxmon;login:wtxmon;pwd:monitor;access:gm`

UNIX: `launcheradmin.sh -adduser "user:wtxmon;login:wtxmon;pwd:monitor;access:gm"`

- Edit wtxmon to grant stopping/starting and pause/resume of the Launcher

Windows: `launcheradmin.bat -adduser user:wtxmon;access:gss,gpr`

UNIX: `launcheradmin.sh -adduser "user:wtxmon;access:gss,gpr"`

- Delete the user wtxmon

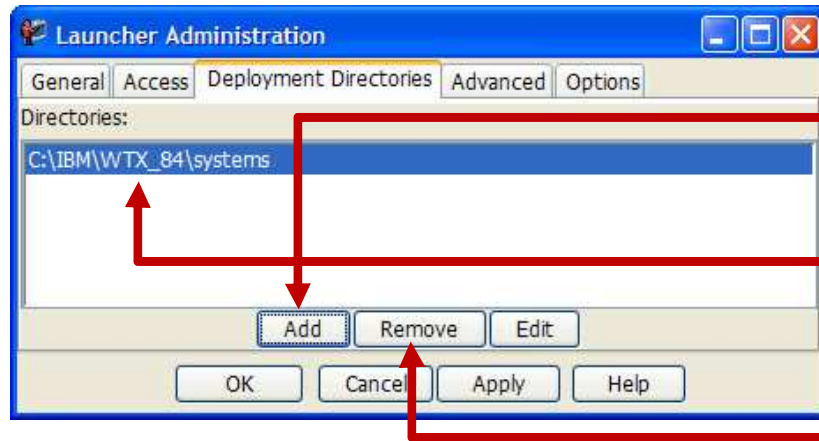
`launcheradmin.bat -deluser wtxmon`

# Launcher Administration

- The modifications associated with Deployment Directories tab of the launcheradmin utility allows you to:
  - ▶ Add deployment directories (-addir)
  - ▶ Remove deployment directories (-rmdir)
  - ▶ Edit deployment directories (-eddir) properties. This option allows you to add systems to the list of systems, configure directories and associated file properties. Only available when the “Separate launcher processes” option is selected in the general options.

# Launcher Administration

- Add or Remove a deployment directory syntax: `[-addir | -rmdir ] deployment_directory]`



`-addir deployment_directory`  
the specified

Adds

directory to the list

of deployment

directories.

`-rmdir deployment_directory`  
Removes the

specified directory

from

the list of

deployment

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# Launcher Administration

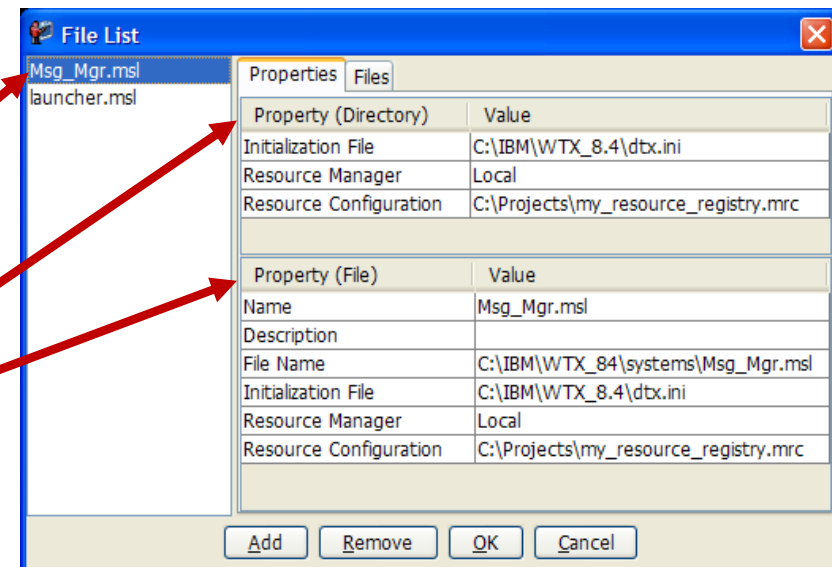
- Edit deployment directory tab syntax options:
  - Only available when separate launcher processes is enabled
  - *deployment\_directory* is the directory where the separate launcher process is deployed to. Applies to all the following three syntax options.
    - Add a system, configure initialization file, resource registry, resource management, startup option
      - `[--eddir deployment_directory -asf system_file [-pd {[ini:ini_file];[rm:{local | global}];[mrc:resource_config_file]}] [-pf {[name:name];[desc:description];[ini:ini_file];[rm:{local | global}];[mrc:mrcfile];[as:{yes | no}]]]`
    - Delete a system from the separate launcher process configuration :
      - `[--eddir deployment_directory -dsf system_file[:system_file;...]]`
    - Specify a system(s) that is added to or deleted from a launcher process:
      - `[--eddir deployment_directory -sys system_file { -af | -df } file1[:file2;...]`



# Launcher Administration

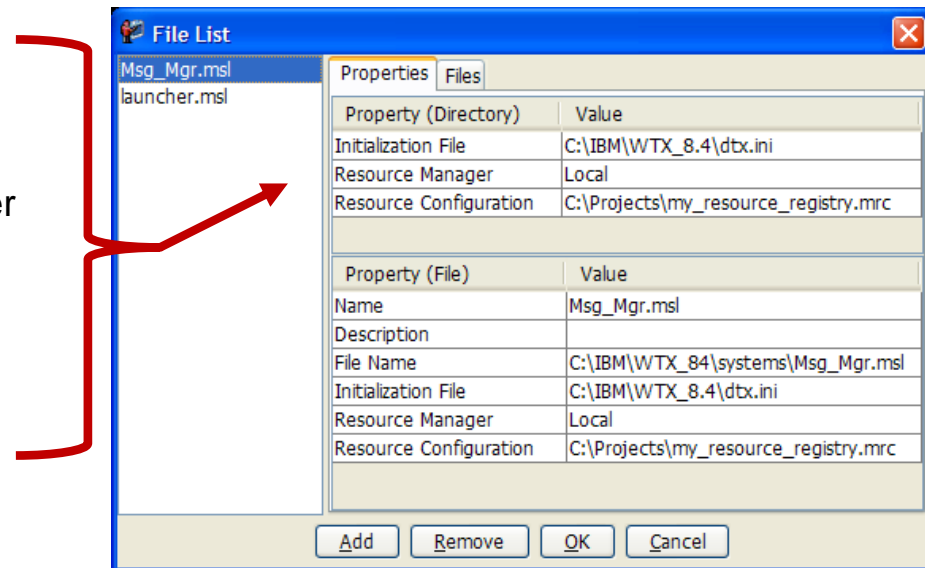
- Add a system to a separate launcher process and optionally configure initialization file, resource registry, resource management and startup option
- `[-eddir deployment_directory -asf system_file [-pd {[ini:ini_file];[rm:{local | global}];[mrc:resource_config_file]}] [-pf {[name:name];[desc:description];[ini:ini_file];[rm:{local | global}];[mrc:mrcfile];[as:{yes | no}]}]`

- *deployment\_directory* Directory where the system is located
- `-asf system_file` System file (msl) to add
- `-pd` Configures the Property (Directory)
- `-pf` Configures the Property (File)



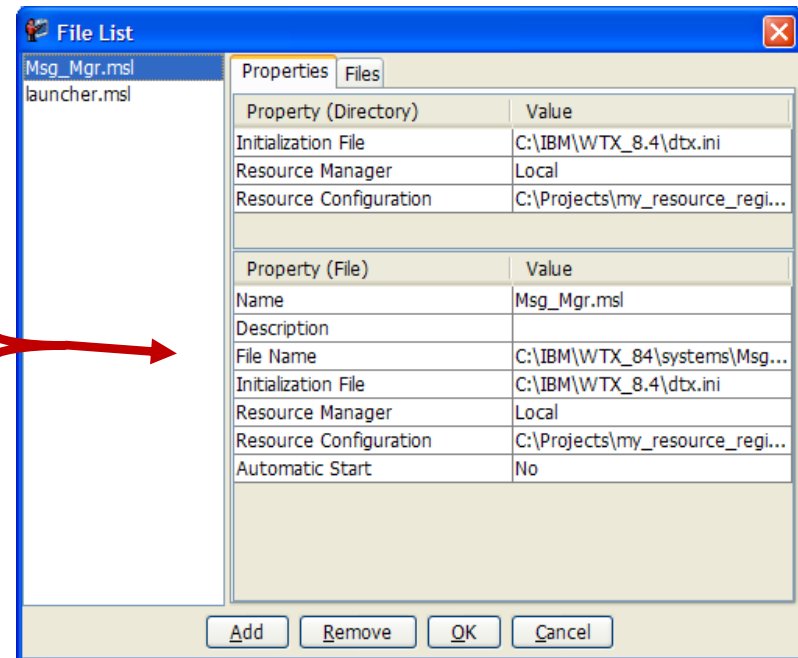
# Launcher Administration

- pd Property (Directory) options
  - `[-pd {[ini:ini_file];[rm:{local | global}];[mrc:resource_config_file]}]`
  - Options are separated by a semicolon ( ; )
  - `ini:ini_file` Path/Filename of the configuration file. Default value of what is defined by the Global option
  - `rm:{local | global}` Resource Manager value
  - `mrc:resource_config_file` Path/Filename of the resource registry (mrc) file



# Launcher Administration

- pf Property (File) options
  - [-pf {[name:*name*];[desc:*description*];[ini:*ini\_file*];[rm:{local | global}];[mrc:*mrcfile*];[as:{yes | no}]]
  - Options are separated by a semicolon ( ; )
  - name:*name*                      Name of the system (msl)
  - desc:*description*                brief description of the msl
  - ini:*ini\_file*                    Path/Filename of the configuration file. Default value of what is defined by the Global option
  - rm:{local | global}                Resource Manager value
  - mrc:*resource\_config\_file*      Path/Filename of the resource registry (mrc) file
  - as:{yes|no}                      Yes – Automatic startup  
No – Manual startup



# Launcher Administration

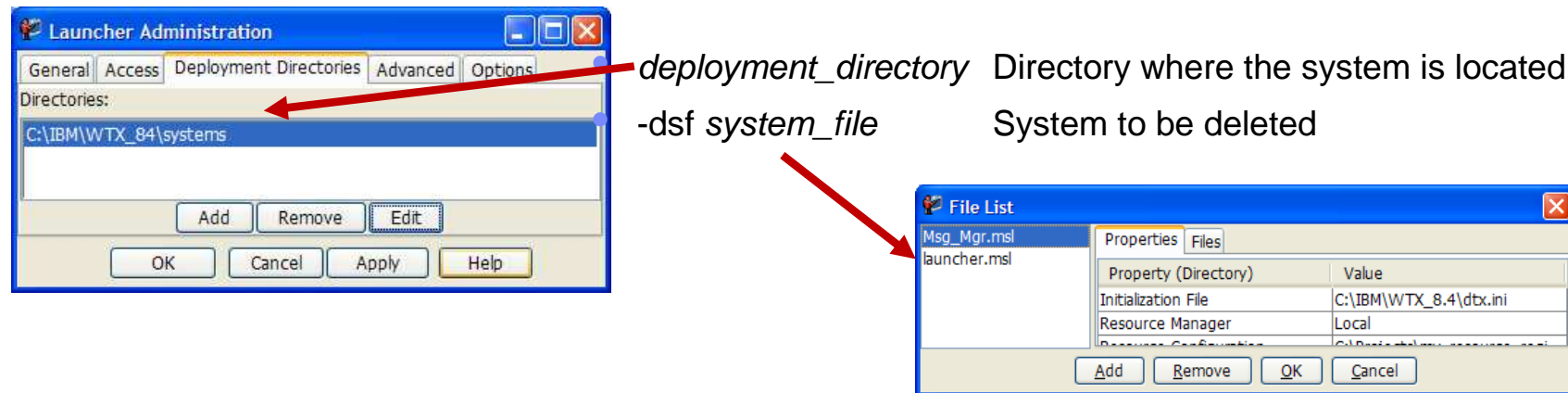
- Non-Windows platforms require double quotes surrounding `-pd`, `-pf`, `-dsf` and `-sys` options when a semicolon (;) is part of the command line syntax.
- Example: Add a system to a launcher environment, define the ini file, the resource registry and set automatic startup

```
launcheradmin.bat -eddir C:\IBM\WTX_8.4\systems -asf Msg_Mgr.msl -pd  
ini:C:\IBM\WTX_8.4\dtx.ini;mrc:C:\Projects\my_resource_registry.mrc -pf as:yes
```

```
launcheradmin.sh -eddir /opt/ibm/wtx84/systems -asf Msg_Mgr.msl -pd  
"ini:/opt/ibm/wtx84/config/mydtx.ini;mrc:/opt/ibm/wtx84/my_resource_registry.mrc" -pf as:yes
```

# Launcher Administration

- Delete a system from the separate launcher process configuration:
  - [-eddir *deployment\_directory* -dsf *system\_file*;*system\_file*;...]

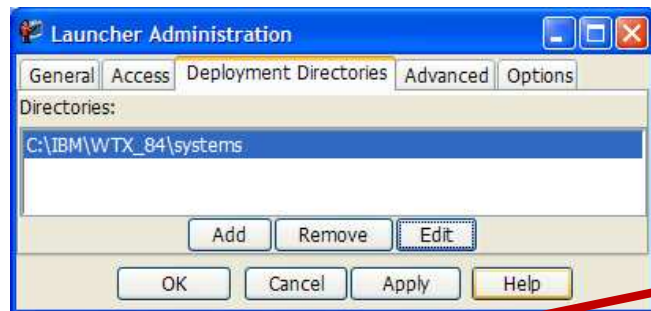


- If specifying multiple *system\_files* with the in non\_Windows environments, enclose the *system\_file* names in double quotes.
- Example:

```
launcheradmin.bat -eddir "C:\IBM\WTX_84\systems" -dsf launcher.msl
```

# Launcher Administration

- Specify a system(s) that is added to or deleted from a launcher process (Files tab):
  - `[–eddir deployment_directory –sys system_file { –af | –df } file1[:file2;...]`

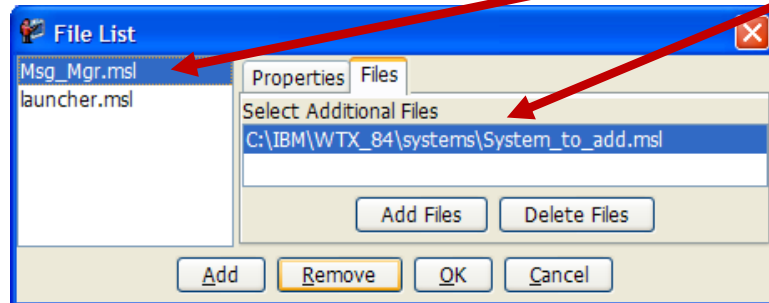


← `–eddir deployment_directory` Directory where the system is located

• `–sys system_file` System to be modified

• `–af file1[:file2;...]` Fully qualified system name (msl) to be added to the system specified by the `–sys system_file` parameter. Use

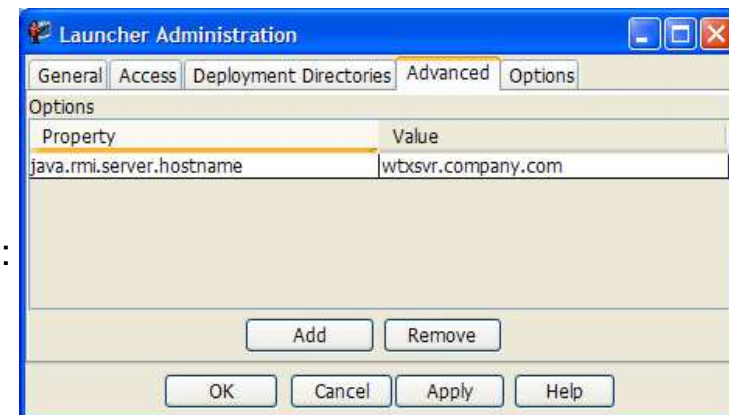
`–df` to delete a launcher process. Non-Windows environments require double quotes around files



- Example: `launcheradmin.bat –eddir “C:\IBM\WTX_84\systems” –sys Msg_Mgr.msl –af “C:\IBM\WTX_84\System_to_add.msl”`

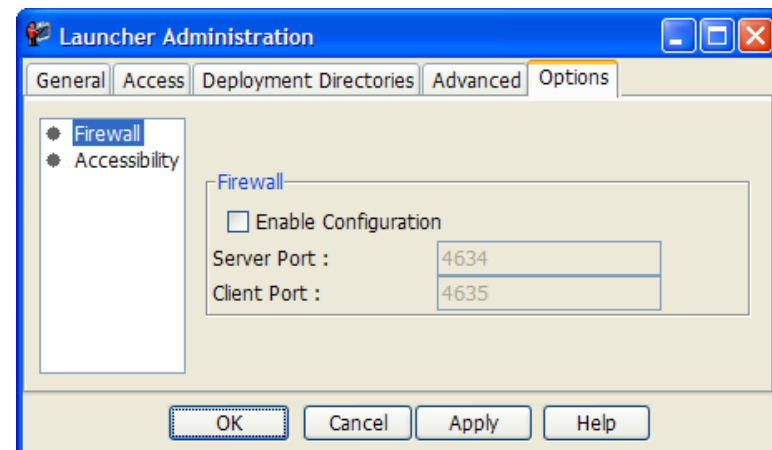
# Launcher Administration

- The Advanced tab options allows you to add or remove system properties from the list of properties that are initialized during Launcher service startup.
  - [-addprop *property\_name:property\_value* [;*property\_name:property\_value*; ...]]
  - [-delprop *property\_name*[;*property\_name*;... ] ]
  - Semicolon ( ; ) required to add/delete additional properties along with double quotes for non-Windows platforms surrounding multiple *property\_name:property\_value* pairs
  - -addprop *property\_name:property\_value* adds a property, *property\_name* with a value of *property\_value*
  - -delprop *property\_name* deletes the property, *property\_name*
- Examples:
  - launcheradmin.bat -addprop  
java.rmi.server.hostname:wtxsvr.company.com
  - launcheradmin.sh -addprop  
"java.rmi.server.hostname:wtxsvr.company.com;prop2:  
propertyvalue2"
  - launcheradmin.bat -delprop java.rmi.server.hostname



# Launcher Administration

- The Options tab control whether clients connect to the Launcher service through a Firewall
  - [-firewall {enable | disable}] [-fsport *server\_port*] [-fcport *client\_port*]
- -firewall {enable | disable }
  - Specifies whether to enable a firewall configuration.
  - -fsport *server\_port*
- Specifies the server-port value of the firewall-specific server port that is to be used by the Launcher service.
  - -fcport *client\_port*
- Specifies the client-port value of the firewall-specific client port that is to be used by the Launcher service.
  - In a firewall environment, clients like the Management Console use a designated server port to connect to the Launcher service. The Launcher service opens up a listening port to establish the initial connection. All the client requests for service are exported to the server port and all services are provided through this port.





# Launcher Administration – Import and Export

- Provides the ability to import (-import) properties from an XML file to the launcheradmin.bin file and/or export (-export) all of the launcheradmin.bin file properties.
  - [-export properties\_file]
  - [-import properties\_file]
- -export creates a xml file that contains all the properties associated with the launcheradmin.bin file. Since the resulting xml file is in text format, you can edit the export xml file to make changes for your environment and then import the changes back to the launcheradmin.bin file.
- Example: launcheradmin.bat -export C:\IBM\WTX\_84\my\_exported\_launcheradmin.xml

```
<xml version="1.0" encoding="UTF-8"?>
<model:EventServerAdmin xmlns:model="http://www.ibm.com/websphere/dtx/launcher/model" Version="1.0">
  <ListeningPort>5015</ListeningPort>
  <StartPort>7000</StartPort>
  <EndPort>8000</EndPort>
  <AutomaticInitialStart>true</AutomaticInitialStart>
  <ProcessPerSystem>true</ProcessPerSystem>
  <AutomaticSystemDetection>false</AutomaticSystemDetection>
  ....
```

Sample  
launcheradmin.  
bin file  
(exported)

# Launcher Administration – Import and Export

- -import specifies an XML file that contains properties to be added to the launcheradmin.bin file.
  - If the launcheradmin.bin file exists, the existing properties are updated and saved.
  - If the launcheradmin.bin does not exist, a new launcheradmin.bin file is created with the properties from the imported XML file.
  - Several launcheradmin properties cannot be updated while the Launcher service is running. If the Launcher service is running and you attempt to set options that cannot be updated dynamically, the command line returns an error. If the properties are not restricted by dynamic updates, the launcheradmin.bin file is updated with the information from the XML file.
  - The following properties cannot be updated dynamically:
    - **Automatic startup**
    - **Separate launcher processes**
    - **Listening ports**
    - **Port Range**
    - **Remove user**
    - **Advanced options**
    - **Firewall**
  - Example: `launcheradmin.bat -import C:\IBM\WTX_84\my_changes_launcheradmin.xml`

## Launcher Administration

- Note: When the Launcher service is stopped, any options that you set are saved in the launcheradmin.bin file and used the next time the Launcher service starts. When the Launcher service is running, the options that you set by this utility, dynamically update the settings of the Launcher service. If the Launcher service is running and you attempt to set options that cannot be updated dynamically, the command line returns an error.

# Search APARs, Technotes and Info Center

- WTX Support Site: [http://www-947.ibm.com/support/entry/portal/Overview/Software/WebSphere/WebSphere\\_Transformation\\_Extender](http://www-947.ibm.com/support/entry/portal/Overview/Software/WebSphere/WebSphere_Transformation_Extender)
- WTX Documentation (Information Center, Release Notes) <http://www-01.ibm.com/software/integration/wdatastagetx/library/>

## Encountering an issue - Open a PMR

- On-Line problem submission:
  - ▶ <http://www-306.ibm.com/software/support/probsub.html>
- WTX MustGather: <http://www-01.ibm.com/support/docview.wss?rs=2320&uid=swg21244201>

## Summary

- Review on-line Web based documentation for Utility Command usage and examples.
- Part I of WTX Utility Commands including Type Tree, Map and IFD related commands was offered on August 29, 2012 and can be found on the WSTE site.
- Part III of WTX Utility Commands including mgmtconsole and launcher related commands will be offered on February 7, 2013 and can be found on the WSTE site.
- Visit the WTX support page for additional information: [http://www-947.ibm.com/support/entry/portal/Overview/Software/WebSphere/WebSphere\\_Transformation\\_Extender](http://www-947.ibm.com/support/entry/portal/Overview/Software/WebSphere/WebSphere_Transformation_Extender)

# Additional WebSphere Product Resources

- Learn about upcoming WebSphere Support Technical Exchange webcasts, and access previously recorded presentations at:  
[http://www.ibm.com/software/websphere/support/supp\\_tech.html](http://www.ibm.com/software/websphere/support/supp_tech.html)
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<http://www.ibm.com/developerworks/websphere/community/>
- Join the Global WebSphere Community:  
<http://www.websphereusergroup.org>
- Access key product show-me demos and tutorials by visiting IBM® Education Assistant:  
<http://www.ibm.com/software/info/education/assistant>
- View a webcast replay with step-by-step instructions for using the Service Request (SR) tool for submitting problems electronically:  
<http://www.ibm.com/software/websphere/support/d2w.html>
- Sign up to receive weekly technical My Notifications emails:  
<http://www.ibm.com/software/support/einfo.html>

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# Questions and Answers

