



# VISUAL Message Center

iSeries Remote Command Sender

8.0

VMC-Mxx

**tango04**  
Computing Group

Solutions for Advancing People

## VISUAL Message Center iSeries Remote Command Sender

The software described in this book is furnished under a license agreement and may be used only in accordance with the terms of the agreement.

### Copyright Notice

Copyright © 2013 Tango/04 All rights reserved.

Document date: July 2012

Document version: 1.0

Product version: 8.0

No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic mechanical, magnetic, optical, chemical, manual, or otherwise, without the prior written permission of Tango/04.

### Trademarks

Any references to trademarked product names are owned by their respective companies.

### Technical Support

For technical support visit our web site at [www.tango04.com](http://www.tango04.com).

Tango/04 Computing Group S.L.

Avda. Meridiana 358, 5 A-B

Barcelona, 08027

Spain

Tel: +34 93 274 0051

# Table of Contents

Table of Contents ..... iii

How to Use this Guide .....v

## Chapter 1

---

Before you begin ..... 1

    1.1. Requirements.....1

    1.2. Recommended Reading .....1

## Chapter 2

---

Overview..... 2

    2.1. Components.....2

## Chapter 3

---

Using the iSeries Remote Command Sender ..... 3

    3.1. Connection Configuration Editor .....3

        3.1.1. Using the Connection Configuration Editor .....3

    3.2. Command Creation Tool .....5

        3.2.1. Using the Command Creation Tool.....5

    3.3. Configuring SmartConsole .....6

        3.3.1. Command Sender Action Sets.....6

        3.3.2. Command Sender Alarms ..... 8

## Appendices

---

Appendix A: Contacting Tango/04 ..... 10

---

About Tango/04 Computing Group ..... 12

Legal Notice ..... 13

## How to Use this Guide

This chapter explains how to use Tango/04 User Guides and understand the typographical conventions used in all Tango/04 documentation.

### Typographical Conventions

The following conventional terms, text formats, and symbols are used throughout Tango/04 printed documentation:

Convention	Description
<b>Boldface</b>	Commands, on-screen buttons and menu options.
<i>Blue Italic</i>	References and links to other sections in the manual or further documentation containing relevant information.
<i>Italic</i>	Text displayed on screen, or variables where the user must substitute their own details.
Monospace	Input commands such as System i commands or code, or text that users must type in.
UPPERCASE	Keyboard keys, such as CTRL for the Control key and F5 for the function key that is labeled F5.
	<b>Notes</b> and useful additional information.
	<b>Tips</b> and hints that will improve the users experience of working with this product.
	<b>Important</b> additional information that the user is strongly advised to note.
	<b>Warning</b> information. Failure to take note of this information could potentially lead to serious problems.

### 1.1 Requirements

- VISUAL Message Center must be installed on the system you wish to use to configure the Remote Command Sender for the iSeries.
- Java System i Server is required to be installed.
- Sun Java Runtime Environment version 6 or greater is required in order to be able to run the Java applications.



#### Note

- The iSeries Remote Command Sender components are automatically installed during the installation of VISUAL Message Center.
- Java System i Server is included in the installation of VISUAL Message Center ThinkServer.
- The redistributable bundle of Sun Java Runtime Environment is supplied together with VISUAL Message Center ThinkServer, and can also be downloaded at: <http://java.sun.com/javase/downloads>

### 1.2 Recommended Reading

Users are required to have a good working knowledge of iSeries systems before attempting to configure iSeries Remote Command Sender. We also recommend that users are familiar with VISUAL Message Center and have read the *VISUAL Message Center SmartConsole User Guide*, which is available on the DVD.

The iSeries Remote Command Sender is a tool that enables you to run commands in VISUAL Message Center SmartConsole remotely on any iSeries system. With the iSeries Remote Command Sender you can effectively run any command that you could on a terminal, without being at the terminal.

VISUAL Message Center SmartConsole is used to configure which of the commands that you have pre-configured are used, and automate these actions on the selected iSeries host.

These commands can be configured to react to alarms on any iSeries, using Action Sets in SmartConsole.

## 2.1 Components

The iSeries Remote Command Sender consists of 3 components:

- **ConnectionConfigurationEditor.jar**: This Java application allows the user to specify the Java system i Server hostname and port. It produces a list of iSeries hosts including IP address, username and password details.
- **CommandCreationTool.jar**: This Java application uses the Java toolbox to create commands.
- **CommandSender.exe**: This application works with SmartConsole to combine the information from Connection Configuration Editor and the Command Creation Tool to configure new actions to apply to monitored iSeries.

# Using the iSeries Remote Command Sender

Using the iSeries Remote Command Sender to create automated actions that can be applied to any iSeries host from a remote system, is a 3 step process:

- Step 1.** Create a list of iSeries hosts – Using the Connection Configuration Editor
- Step 2.** Create a list of commands – Using the Command Creation Tool
- Step 3.** Configure SmartConsole to use the commands on the selected iSeries hosts – Using Command Sender

Each of these steps is explained in detail in this chapter.

## 3.1 Connection Configuration Editor

The Connection Configuration Editor is a Java application which allows the user to specify the Java System i Server:

- Hostname, and
- Port

It produces a list of iSeries hosts including their:

- IP address,
- Username, and
- Password details

Finally it generates AES encrypted files in the following file format:

```
[IP]_[username].icd
```

### 3.1.1 Using the Connection Configuration Editor

The Connection Configuration Editor is located in:

```
C:\%Program Files%\Tango04\VISUAL Message Center\SmartConsole\Tools\iSeries  
CommandSender
```



**Note**

For ThinkServer versions lower than V1.6 SP03 HF05, the CommandSender tool is based on Apache's Axis1 technology. However, beginning with ThinkServer V1.6 SP03 HF05, the CommandSender tool is based on Axis2 technology, and therefore another CommandSender tool must be used: it can be found in the folder v2.

Double-click the `ConnectionConfigurationEditor.jar` file to open it, the following window will appear:

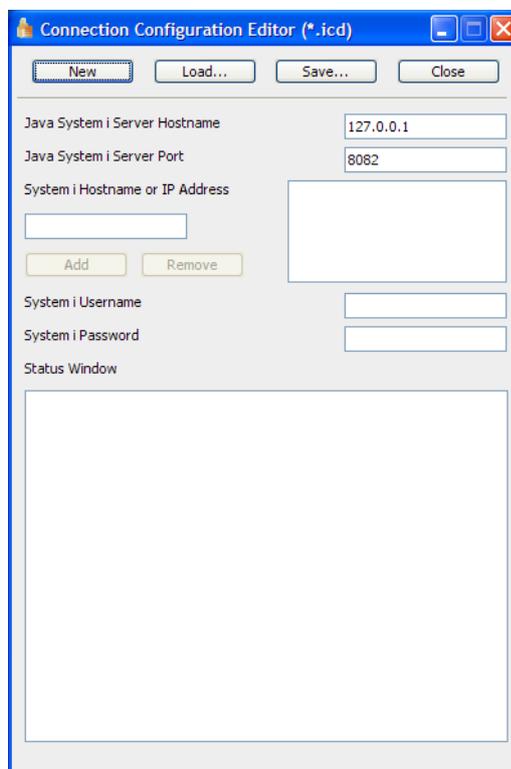


Figure 1 – Connection Configuration Editor

**To add an iSeries host:**

- Step 1.** First ensure the correct Java System i Server details are added in the **Hostname** and **Port** fields.
- Step 2.** Enter the name of the iSeries hosts that share the same username and password, you wish to add in the **System i Hostname or IP Address** field, and click the **Add** button.
- Step 3.** The iSeries appears in the list box, and then, you can enter a username and password required to access the iSeries.

After completing the list of iSeries hosts to be available to the Command Sender tool, press the **Save** button. When you press the Save button, the application will ask you where you want to store the **icd** files. Select a location and an encrypted icd file will be created for **each** of the iSeries hosts in the list.

If you wish to create a new list on a new Java System i Server, click the **New** button and all the fields will be reset and ready to add a new configuration.

Using the **Load** button to load an icd file, will restore all the configuration settings, including all the iSeries hosts available, and not just the host for the icd file you have chosen to open.

## 3.2 Command Creation Tool

The Command Creation Tool is a Java application that uses the Java toolbox to create commands, which can later be used by the Command Sender in VISUAL Message Center SmartConsole. These commands are stored in a .txt file.



### Note

It is not necessary to use the Command Creation Tool to create commands, you can also create the commands manually if you prefer and save them in a .txt file.

In the txt file, the list of commands has to be inside double quotation marks, and commands must be separated from each other with %%. For example:

```
DLYJOB DLY(300)%%HLDJOBHLD(50)
```

### 3.2.1 Using the Command Creation Tool

The Command Creation Tool is located in:

C:\%Program Files%\Tango04\VISUAL Message Center\Tools\iSeriesCommandSender

Double-click the **CommandCreationTool.jar** file to open it, the following window will open:

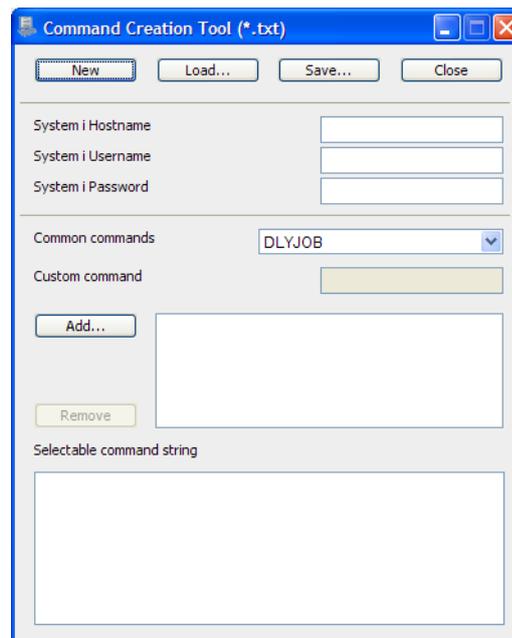


Figure 2 – Command Creation Tool

To use the Command Creation Tool you have to connect to an iSeries host for validation purposes.



### Note

This host is only used to validate the commands you create; it does not restrict the use of the command in SmartConsole to this host exclusively.

To create a command:

- Enter the host name, username and password in the fields provided, then
- Either:
  - select a command to add to the list from the **Command list-box**; or

- select Custom Command from the list-box and enter a command in the **Custom Command** field.
- Click the **Add** button. The application will use the iSeries host details to connect to the iSeries to verify the command, and open the following window, where you are prompted to enter further details for the command. Click the **Advanced** button to see further details about the command.

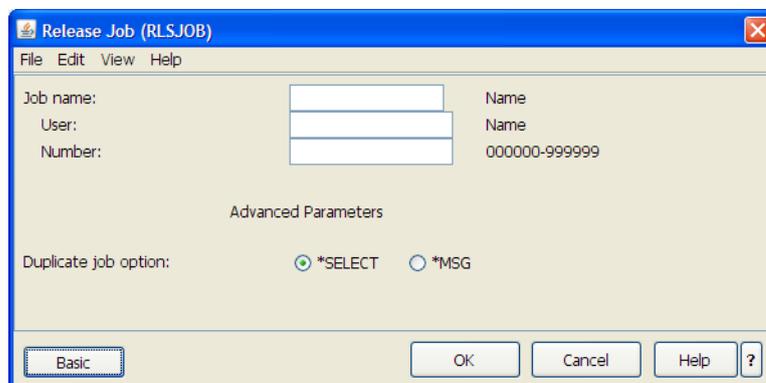


Figure 3 – Enter Command details, Advanced selected

After completing the list of commands to be available to the Command Sender tool, press the **Save** button, and enter the name and location of the **.txt** file.

A list of all the available commands created will appear in the **Selectable command string** field.



**Note**

You can copy and paste the string of commands directly into the SmartConsole. Remember to separate commands from each other with %%%.

If you wish to create a new list of commands, click the **New** button and all the fields will be reset and ready to add a new configuration.

## 3.3 Configuring SmartConsole

Inside SmartConsole we can now bring all the elements together:

- Configure a new Action Set and specify the path to the **CommandSender.exe**.
- Specify which of the **icd** files (created using the Connection Configuration Editor) to use in order to connect to the appropriate **iSeries host**.
- Add the list of **commands** (created using the Command Creation Tool).

### 3.3.1 Command Sender Action Sets

An Action Set is used in the SmartConsole to combine all the elements needed for sending remote commands.

**To create a new Action Set in VISUAL Message Center SmartConsole:**

- Step 1.** Click **Change** from the menu bar and select **Action Sets** to open the 'Action Sets' configuration menu (you can also click the Action sets icon  in the toolbar)
- Step 2.** Click **Options** from the menu bar and select **New > Action Set** (alternatively click the New icon  in the toolbar)

**To configure the Action Set:**

**Step 1.** Select the **Execute a PC Program** check box

**Step 2.** Click the **PCProgram** tab

**Step 3.** In the **Command** field, enter the location of the CommandSender.exe:

The default location is:

C:\%Program Files%\Tango04\VISUAL Message  
Center\Tools\iSeriesCommandSender

**Step 4.** In the **Parameters** field, enter:

- &EVENTID
- The name of the icd file. The icd files are stored in the 'iSeriesCommandSender' folder; you can browse this folder to check the correct name of the file.
- The commands to run (commands must be separated by %%%). Refer to the .txt file containing the commands created using the Command Creation Tool.

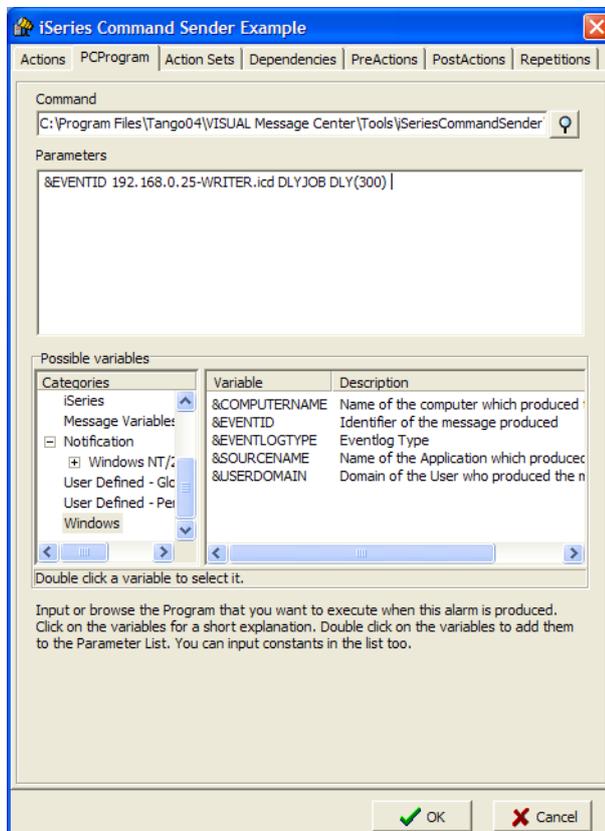


Figure 4 – Configure the Action Set

**Step 5.** Click **OK**

**Step 6.** Enter a name for the new Action Set (iSeries Command Sender for example).

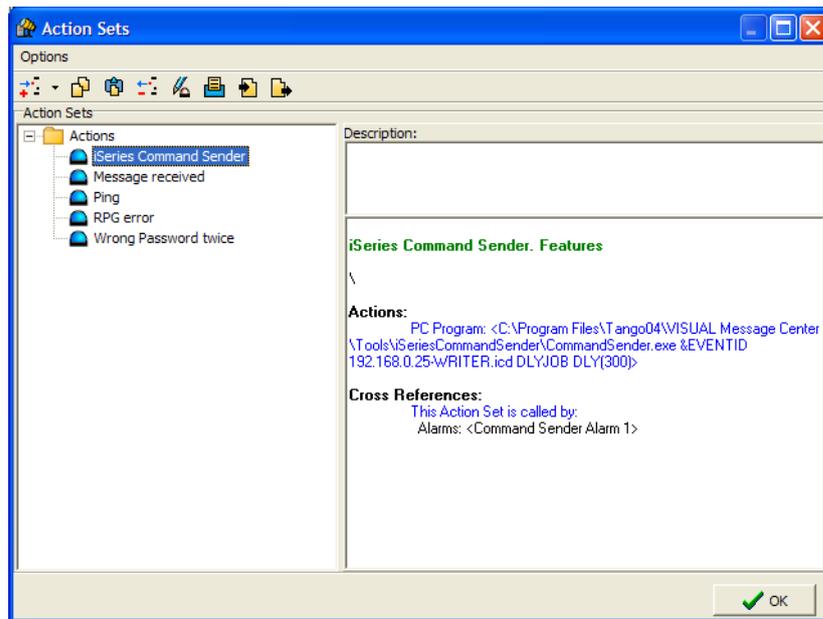


Figure 5 – The new 'iSeries Command Sender' Action Set in the Action Set list

### 3.3.2 Command Sender Alarms

Alarms are used to automate the actions specified in the Action Sets configured for the Command Sender.

**To set an alarm to use the Command Sender Action Set:**

- Step 1.** Click **Change** from the menu bar and select **Alarms** to open the 'Alarms' configuration menu (you can also click the Alarms icon  in the toolbar)
- Step 2.** Click **Options** from the menu bar and select **New > Alarm** (alternatively click the New icon in the toolbar)
- Step 3.** In the 'Alarm filters' window, select the system to include in the alarm from the **System** filter option in the **General** tab, and Click **OK**
- Step 4.** Click the **Action Sets** tab of the 'Alarm Actions' configuration window, select the 'iSeries Command Sender' Action Set that you previously configured, from the drop-down list box, and click **Add**.

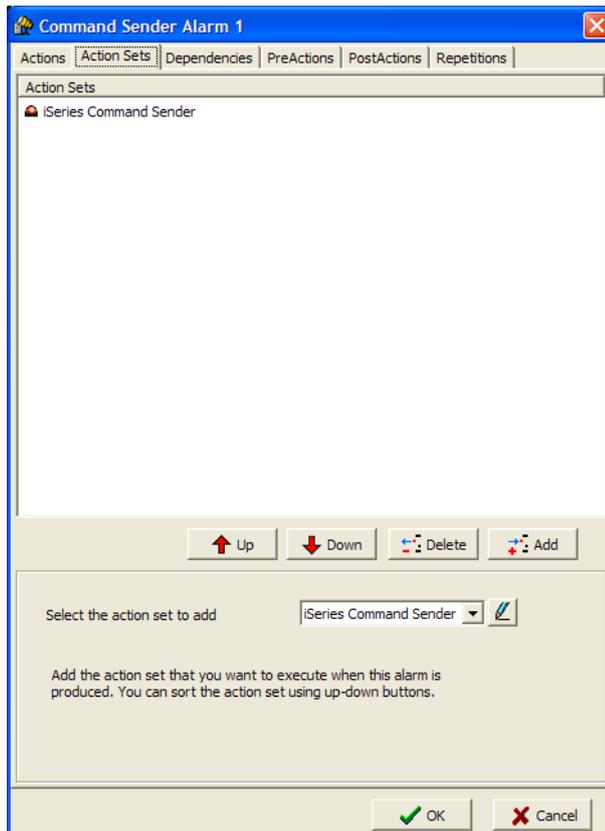


Figure 6 – Select the 'iSeries Command Sender' Action Set to use with the alarm from the list box

**Step 5.** Click **OK** and enter a name for the new alarm.

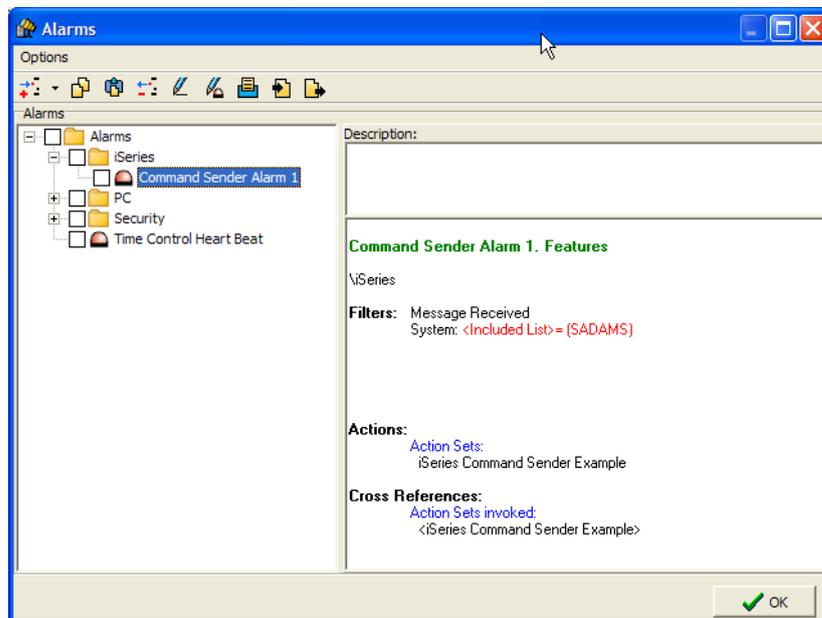


Figure 7 – The new 'Command Sender' alarm in the Alarms list

## Appendix A

# Contacting Tango/04

### North America

Tango/04 North America  
PO BOX 3301  
NH 03458 Peterborough  
USA

Phone: 1-800-304-6872 / 603-924-7391  
Fax: 858-428-2864  
sales@tango04.net  
www.tango04.com

### Italy

Tango/04 Italy  
Viale Garibaldi 51/53  
13100 Vercelli  
Italy

Phone: +39 0161 56922  
Fax: +39 0161 259277  
info@tango04.it  
www.tango04.it

### Sales Office in Switzerland

Tango/04 Switzerland  
18, Avenue Louis Casai  
CH-1209 Genève  
Switzerland

Phone: +41 (0)22 747 7866  
Fax: +41 (0)22 747 7999  
contact@tango04.net  
www.tango04.fr

### EMEA

Tango/04 Computing Group S.L.  
Avda. Meridiana 358, 5 A-B  
08027 Barcelona  
Spain

Phone: +34 93 274 0051  
Fax: +34 93 345 1329  
info@tango04.net  
www.tango04.com

### Sales Office in France

Tango/04 France  
La Grande Arche  
Paroi Nord 15ème étage  
92044 Paris La Défense  
France

Phone: +33 01 40 90 34 49  
Fax: +33 01 40 90 31 01  
contact@tango04.net  
www.tango04.fr

### Latin American Headquarters

Barcelona/04 Computing Group SRL (Argentina)  
Avda. Federico Lacroze 2252, Piso 6  
1426 Buenos Aires Capital Federal  
Argentina

Phone: +54 11 4774-0112  
Fax: +54 11 4773-9163  
info@barcelona04.net  
www.barcelona04.com

## Sales Office in Peru

Barcelona/04 PERÚ  
Centro Empresarial Real  
Av. Víctor A. Belaúnde 147, Vía Principal 140  
Edificio Real Seis, Piso 6  
L 27 Lima  
Perú

Phone: +51 1 211-2690  
Fax: +51 1 211-2526  
info@barcelona04.net  
www.barcelona04.com

## Sales Office in Chile

Barcelona/04 Chile  
Nueva de Lyon 096 Oficina 702,  
Providencia  
Santiago  
Chile

Phone: +56 2 234-0898  
Fax: +56 2 2340865  
info@barcelona04.net  
www.barcelona04.com

## About Tango/04 Computing Group

Tango/04 Computing Group is one of the leading developers of systems management and automation software. Tango/04 software helps companies maintain the operating health of all their business processes, improve service levels, increase productivity, and reduce costs through intelligent management of their IT infrastructure.

Founded in 1991 in Barcelona, Spain, Tango/04 is an IBM Business Partner and a key member of IBM's Autonomic Computing initiative. Tango/04 has more than a thousand customers who are served by over 35 authorized Business Partners around the world.

### Alliances



### Partnerships

- IBM Business Partner
- IBM Autonomic Computing Business Partner
- IBM PartnerWorld for Developers Advanced Membership
- IBM ISV Advantage Agreement
- IBM Early code release
- IBM Direct Technical Liaison
- Microsoft Developer Network
- Microsoft Early Code Release

### Awards



The information in this document was created using certain specific equipment and environments, and it is limited in application to those specific hardware and software products and version and releases levels.

Any references in this document regarding Tango/04 Computing Group products, software or services do not mean that Tango/04 Computing Group intends to make these available in all countries in which Tango/04 Computing Group operates. Any reference to a Tango/04 Computing Group product, software, or service may be used. Any functionally equivalent product that does not infringe any of Tango/04 Computing Group's intellectual property rights may be used instead of the Tango/04 Computing Group product, software or service

Tango/04 Computing Group may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents.

The information contained in this document has not been submitted to any formal Tango/04 Computing Group test and is distributed AS IS. The use of this information or the implementation of any of these techniques is a customer responsibility, and depends on the customer's ability to evaluate and integrate them into the customer's operational environment. Despite the fact that Tango/04 Computing Group could have reviewed each item for accurateness in a specific situation, there is no guarantee that the same or similar results will be obtained somewhere else. Customers attempting to adapt these techniques to their own environments do so at their own risk. Tango/04 Computing Group shall not be liable for any damages arising out of your use of the techniques depicted on this document, even if they have been advised of the possibility of such damages. This document could contain technical inaccuracies or typographical errors.

Any pointers in this publication to external web sites are provided for your convenience only and do not, in any manner, serve as an endorsement of these web sites.

The following terms are trademarks of the International Business Machines Corporation in the United States and/or other countries: iSeries, iSeriese, iSeries, i5, DB2, e (logo)@Server IBM ®, Operating System/400, OS/400, i5/OS.

Microsoft, SQL Server, Windows, Windows NT, Windows XP and the Windows logo are trademarks of Microsoft Corporation in the United States and/or other countries. Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and/or other countries. UNIX is a registered trademark in the United States and other countries licensed exclusively through The Open Group. Oracle is a registered trade mark of Oracle Corporation.

Other company, product, and service names may be trademarks or service marks of other companies.