IBM Tivoli Monitoring V6.2

Installation and deletion of the agent for i5/OS 6.2

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IBM Tivoli® Monitoring V6.2, Installation and deletion of the agent for i5/OS® 6.2.

Assumptions

Before you proceed, the module designer assumes that you have the following skills and knowledge:

- General system administration of i5/OS or IBM i platform
- Ability to FTP from Windows®, UNIX® or Linux® systems to an i5/OS server

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The module developer assumes that you have the following skills and knowledge:

- General system administration skills on i5/OS or IBM i platform in order to perform the installation steps for the monitoring agent for i5/OS

- Ability to transfer files with File Transfer Protocol (FTP) from a Windows, UNIX, or Linux system to an i5/OS server

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Objectives

When you complete this module, you can perform these tasks:

- Install the Monitoring Agent for i5/OS
- Delete the Monitoring Agent for i5/OS

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Preparing for the installation

When you complete this section, you can perform these tasks

- Delete previous versions of the monitoring agent
- Verify the required authorities for the user profile performing the installation
- Set the QALWOBJRST system value correctly
- Determine the primary language of your i5/OS system
- Verify the TCP/IP configuration
- Transfer the software for the Monitoring Agent for i5/OS to the target i5/OS

These steps are necessary for the successful installation of the Monitoring Agent for i5/OS. These steps can be performed in any order, not necessarily in the specified order.

When you complete the steps in this section, you can perform the tasks described below:

__ Delete the previous version of the monitoring agent if already installed on the system.

__ Verify that the user profile performing the installation has the required authorities for the successful installation of the agent.

__ Set the QALWOBJRST system value to *ALL for restoring the files from a save file.

__ Determine the primary language of your i5/OS system. Installation commands change based on the primary language of the i5/OS system.

__ Verify the TCP/IP configuration for the proper functioning of the agent.

__ Transfer the installation software for the Monitoring Agent for i5/OS to the target i5/OS.

(1 of 2) Deleting the previous versions of the monitoring agent

After completing this step, you can delete a previous version of a Candle or IBM Tivoli Monitoring V6.1 monitoring agent, if it is installed

- You must delete the previous monitoring agent if it is installed before you can install the Monitoring Agent for i5/OS
- Sign on with the QSECOFR user profile or a user profile with *ALLOBJ special authority
- Determine if any of the licensed programs 0KA4430, 0KA4440, or 0KA4610 are installed by running the command GO LICPGM
- Select 10 to display the installed licensed programs
  - If any of the licensed programs 0KA4430, 0KA4440, or 0KA4610 are installed, continue to the next step
  - If none of the licensed programs 0KA4430, 0KA4440, or 0KA4610 are installed, no further action is necessary

After you complete this step, you can delete a previous version of a Candle or IBM Tivoli Monitoring V6.1 monitoring agent, if it is already installed.

You must remove any previous Candle or Tivoli Monitoring V6.1 monitoring agent on the system before you install the Tivoli Monitoring V6.2 monitoring agent.

Perform these steps:

1. Sign on to the system with the QSECOFR user profile or a user profile with *ALLOBJ special authority.

2. Determine if any of the licensed programs 0KA4430, 0KA4440, or 0KA4610 are installed by entering the command **GO LICPGM**.

3. Select **10** to display the installed licensed programs.

a. If any of the licensed programs 0KA4430, 0KA4440, or 0KA4610 is installed, continue to the next step to delete them.

b. If none of the licensed programs 0KA4430, 0KA4440, or 0KA4610 are installed, no further action is necessary, and you can move to the next step in the preparation for the installation.

(2 of 2) Deleting previous versions of the monitoring agent

- Create library **CCCINST** with the command `CRTLIB` if the CCCINST library does not exist

  `CRTLIB CCCINST`
- Create a save file to save the files and objects related to the existing installation

  `CRTSAVF CCCINST/PRE620KA4`
- Save the existing monitoring agent with the command `SAVLICPGM`
  `LICPGM(0KA4version_number) DEV(*SAVF) SAVF (CCCINST/PRE620KA4)`
      where version_number is either 430, 440, or 610
- Delete the existing monitoring agent with the command
  `DLTLICPGM 0KA4version_number` where version number is 430, 440, or 610

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If the CCCINST library does not exist, create it with the **CRTLIB** command. The CCCINST library name is typically used, however, it can be different.

Create a save file to save the files and objects related to the existing installation with the command **CRTSAVF <library name>/PRE620KA4**. For example, **CRTSAVF CCCINST/PRE620KA4**.

If the save file was created in a different library in the previous step, then that library must be specified instead of CCCINST.

Save the existing monitoring agent with the command **SAVLICPGM LICPGM(0KA4version_number) DEV(*SAVF) SAVF (<library name>/PRE620KA4)**. The version number is 430, 440, or 610.

Delete the existing monitoring agent with the command **DLTLICPGM <0KA4version_number>** where the version number is 430, 440, or 610.

Authorities required for the user profile performing the installation

- Log in with QSECOFR or with a profile with the listed special authorities (SPCAUT):

*ALLOBJ

*AUDIT,

*IOSYSCFG,

*JOBCTL

*SAVSYS

*SECADM,

*SERVICE,

*SPLCTL

Log in with the QSECOFR user profile or with a profile with the special authorities listed in this slide.

From an i5/OS command line, ensure that the QALWOBJRST system value is set to *ALL with these steps:

1. Enter the command **WRKSYSVAL QALWOBJRST**.

2. Select **5** to verify that the value is set to ***ALL** and press **Enter** to continue.

If the value of **QALWOBJRST** is set to ***ALL**, no further action necessary.

3. If the value of **QALWOBJRST** is not set to ***ALL**, perform these steps:

    a. On the Work with System Values window, enter **2** to change the values.

    b. On the Change System Value window, change the existing value to ***ALL** and press **Enter**.

    c. Press **F3** to exit the window.

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Determining the primary language of your i5/OS system

- From an i5/OS command line, run the command GO LICPGM

- Enter **20**
  - The installed secondary languages display
  - Note the primary language and description that is displayed in the upper left corner of the window

English language system
  - Primary language: **2924**
  - Description: **English**

The installation commands depend on the primary language of the i5/OS system. If English is not the primary language of the system, language objects need to be installed separately.

From an i5/OS command line, enter the command **GO LICPGM**.

Enter **20** to display the installed secondary languages. Make a note of the primary language and description. For an English language system, the primary language is 2924, and the description is English.

Verifying the TCP/IP configuration

Objectives
- To ensure that your TCP/IP network services are configured to return the fully qualified host name, for example, myhost.ibm.com
- The correct TCP/IP configuration is necessary to minimize the risk of inconsistent values being returned for the host name

- From an i5/OS command line, run the command: CFGTCP

- Select **Work with TCP/IP host tables entries**

- Confirm the first entry in the Host Name column
  - If it is the fully qualified host name that is associated with the IP address of the i5/OS where you plan to install the monitoring agent, that is correct
  - If it is not, change the entry to the fully qualified host name

- Return to the Configure TCP/IP menu and select **Change TCP/IP domain information**

- Confirm that a host name and domain name are provided and that they match the entry you just confirmed in the TCP/IP Host table

- Confirm that the first entry for **Host name search priority** is ***LOCAL**

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The correct TCP/IP configuration is necessary to minimize the risk of inconsistent values being returned for the host name.

From an i5/OS command line, run the command **CFGTCP** and select the **Work with TCP/IP host tables** entries.

Confirm that the first entry in the **Host Name** column is the fully qualified host name that is associated with the IP address of the i5/OS where you plan to install the monitoring agent. If it is not, change the entry to the fully qualified host name.

Return to the **Configure TCP/IP** menu and select **Change TCP/IP domain information**. Confirm that a host name and domain name are provided and that they match the entry you just confirmed in the **TCP/IP Host** table.

Confirm that the first entry for the host name search priority is ***LOCAL**.

(1 of 2) Transferring the software to the target i5/OS system

- Transfer the save file required for installation to the i5/OS system with FTP
- Create a library to save agent binary files on the target i5/OS system, typically named CCCINST, if does not exist already
- Create a save file on i5/OS system with the command CRTSAVF
  - Example, CRTSAVF CCCINST/ITMi623FP1 TEXT('ITM 623 FP1 i5/OS')
  - Name the save file and library name with any name up to 10 characters
- The **a4520cma.sav** file exists in the **i5/OS** directory of Tivoli Monitoring v 6.2 Agents package of any 6.2 base or fix pack package
- **a4520cma.sav** is a binary file in save file format and it is a compressed file.
  - Extract the Tivoli Monitoring V6.2 Agents package
  - Locate the **a4520cma.sav** file
- Open a command prompt on Windows systems or a shell session on UNIX or Linux systems

You can use FTP to transfer the save file required for the installation to an i5/OS system.

Create a library to save the agent binary files on the target i5/OS system.

Create a save file on the i5/OS system with the command shown in the slide. You can name the save file and library any thing up to ten characters.

Verify that the **a4520cma.sav** file exists in the **i5/OS** directory of the IBM Tivoli Monitoring V6.2 Agents package of any 6.2 base or fix pack package. The **a4520cma.sav** file is a binary file in the save file format; it is a compressed file. This format is the i5/OS way of storing files to be transferred to the other systems.

Extract the IBM Tivoli Monitoring V6.2 Agents package and locate the **a4520cma.sav** file.

Open a command prompt on Windows systems or a shell session on UNIX or Linux systems.

(2 of 2) Transferring the software to the target i5/OS system

- To start an FTP session, from the command prompt, run the command `ftp <computer_name>` where computer_name is the name of the target i5/OS
- To change the file type to binary, run the command `binary`
- if the **A4520CMA.SAV** file is not in the local directory, change to the directory where it is located
- To transfer the software for the monitoring agent, run the command `put A4520CMA.SAV CCCINST/ITMi623FP1 (replace`
- To end the FTP session, run the command `bye`
- To verify the transferred binary file, run the command `DSPSAVF`
    - Example: `DSPSAVF CCCINST/ITMi623FP1`
    - If the files transferred successfully, the object details of QM.000* display

Start an FTP session with the command **ftp <computer_name>** where computer name is the name of the target i5/OS.

Run the command **binary** to change the file type to binary.

If the **A4520CMA.SAV** file is not in the local directory, change to the directory that contains the file.

Transfer the software for the monitoring agent with the **put** command. For example, **put A4520CMA.SAV CCCINST/A4520CMA (replace …**

Run the **bye** command to end the FTP session.

The **DSPSAVF** command can be used to verify the transferred save file.

If the file transferred successfully, the object details of **QM.000*** display.

On the i5/OS 5250 session, if the primary language of the system is English, you run one command, if the primary language is not English, you run two commands as shown in this slide.

If the installation is successful, then messages indicating objects restored successfully display in the message line at the bottom of the screen. Place the cursor on the message line and press **page up** and **page down** to see more messages.

Verifying the installation

Verify that the monitoring agent installed correctly

- From the i5/OS command line, run the command GO LICPGM

- Type 10 on the command line at the bottom to see the license products installed on the system

- Verify that **5724C04 Tivoli Monitoring Agent for i5/OS** is in the installed products list

- If the product installed successfully, ***INSTALLED** or ***COMPATIBLE** displays for the license program 5724C04

- To access the main menu of this monitoring agent, run the command GO OMA

- If the agent is installed properly, the menu screen displays. The menu screen has options to start, stop, configure the agent, and to display messages related to the agent

From the i5/OS command line, run the command **GO LICPGM** and type **10** on the command line at the bottom. A list of license programs installed on the system displays.

Verify that **5724C04 Tivoli Monitoring Agent for i5/OS** is in the installed products list.

If the product installed successfully, either ***INSTALLED** or ***COMPATIBLE** displays for the license program 5724C04.

To access the main menu of this monitoring agent, run the command **GO OMA**. If it installed correctly, the menu screen displays where you can start, stop, configure, and display messages related to the agent.

Post installation steps

- If you plan to install other monitoring agents, leave the value of QALWOBJRST set to *ALL until you are finished

- When you are finished installing monitoring agents, change the value of QALWOBJRST to the values you noted in the "Set QALWOBJRST system value correctly" step in slide 8.

Optional

Run the `DLTLIB CCCINST` command to delete the installation library and objects in it, which are no longer needed

After the installation is complete, if you plan to install other monitoring agents, leave the value of QALWOBJRST set to *ALL until you are finished.

When you are finished installing monitoring agents, change the value of QALWOBJRST to the values you noted down in slide 8 previously.

Optional: If you want to delete the installation library and objects in it, which is no longer needed, run the command **DLTLIB CCCINST**.

Deleting the Monitoring Agent for i5/OS

- Sign on with QSECOFR or a user profile with *ALLOBJ authority
- Ensure that no other users are displaying the 'Tivoli Monitoring: i5/OS Agent' screen or screens associated with the CLI commands: `CFGOMA, DSPOMALOG, ENDOMA, STROMA`
- Stop the Monitoring Agent for i5/OS if it is running
- Stop the agent
    a. Run the command `GO OMA`
    b. Enter 3 (End Tivoli Monitoring: i5/OS Agent) and wait until the **OMA** menu refreshes to show the agent is stopped
    c. Press **F3** to exit the **OMA** menu
- From an i5/OS command line, run the command `DLTLICPGM LICPGM(5724C04)`

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To uninstall the Monitoring Agent for i5/OS, perform these steps:

1. Sign on with the QSECOFR or another user profile with *ALLOBJ authority.

2. Ensure that no other users are running the **Tivoli Monitoring: i5/OS Agent** screen or the screens associated with the command line interface commands listed.

3. If the Monitoring Agent for i5/OS is not already stopped, stop it with the following steps:

   a. Run the command **GO OMA**.

   b. Enter **3** and wait until the **Tivoli Monitoring: i5/OS Agent** screen refreshes to show the agent is stopped.

   c. Press **F3** to exit the **Tivoli Monitoring: i5/OS Agent** screen.

4. From the i5/OS command line, run the command **DLTLICPGM LICPGM(5724C04)**.

Summary

Now that you have completed this module, you can perform these tasks:

- Install the Monitoring Agent for i5/OS
- Delete the Monitoring Agent for i5/OS

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