

Monarch 3.0 to 3.1 Upgrade Utility

Purpose

The Upgrade utility is provided to perform the necessary file maintenance to upgrade your Galleries from 3.0 to 3.1. You can run the upgrade manually after installing Monarch 3.1 but the upgrade will also run automatically whenever you open an older Gallery.

This document includes the instructions for **manually** upgrading existing Galleries to Monarch 3.1. The step-by-step instructions for the automatic upgrade are provided in the Cocoon help topics and can be located under the index "upgrade instructions".

Database changes introduced with Release 3.1

1. **"Activation Group" Name** (for Programs and Service Programs)
"Activation Group" Name is now collected automatically in a read-only field while the Gallery is discovered. Once collected, the "Activation Group" can only be changed in the migrated code in Visual Studio.
2. **Copybooks**
Copybook program references are stored in a new physical file – COPYREFCES instead of with the rest of the object references (PGM_REFCES).
3. **Exhibits and Clusters** (for Galleries)
A new sub-division of Exhibits, called a "Section" is being introduced. The physical files: EXHIBITS and CLUSTERS (and its corresponding logical files) have been replaced by the physical file CONTAINERS (and its corresponding logical files).
4. ***LIBL interpretation**
Objects in Galleries may have references to *LIBL instead of an explicit library name, when:
 - Dealing with Copybooks - to locate the member source.
 - Dealing with program references - to locate objects, especially when the same name is used in different libraries.
 - Dealing with externally described files - to find field definitions.

The library-list(s) used to resolve these *LIBL references has been refined to allow more flexibility. For example, it is now possible to indicate a library-list PER DataGate Database Name used when discovering Copybooks. In addition, the library-list used to create the Gallery is separate from the library-list used to create Cluster graphs, create GamePlans etc. A new physical file LIBL is added for this implementation.

5. ILE Multi-module Programs and Service Programs

New physical files are created for Galleries and GamePlans to store information that define the bindings between modules and programs (and service programs).

6. Artifacts

In addition to copybooks, Data-Structures are made external to allow individual selection and manipulation, as are Procedures to facilitate analysis of applications that use them. New physical files are created for Galleries and GamePlans to store information for these new "artifacts".

7. Additional minor changes in the Gallery and GamePlan database schema.

The physical file PGMCLUSTER (Gallery only) lost a column because the information was redundant. The physical file POSPECS gained a column to accommodate Service program and Module type as its container.

What the Upgrade process will do

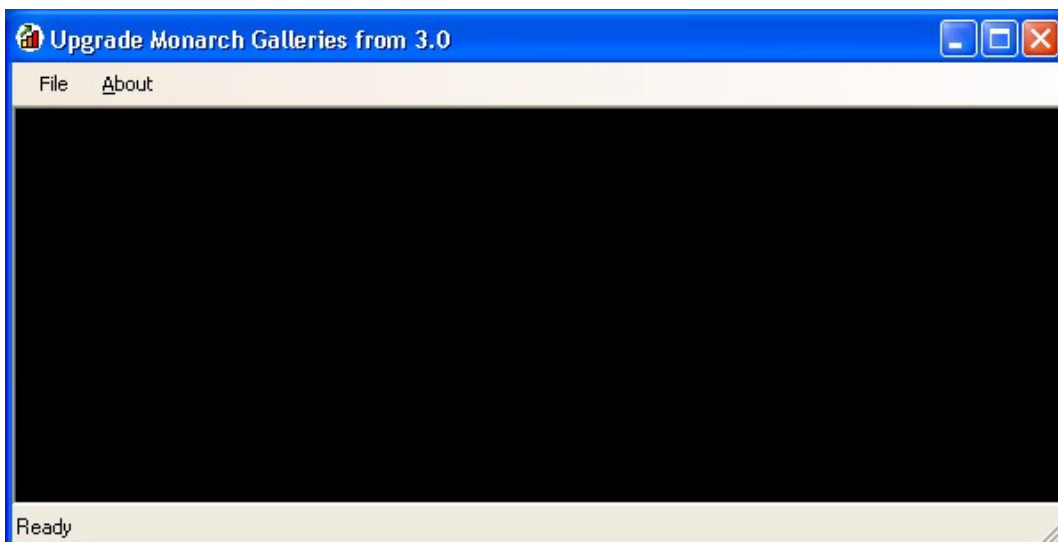
- Will only upgrade Galleries. It is assumed that old GamePlans have already been migrated prior to switching to Monarch 3.1
- Delete old Gallery files and create the new Gallery files as required.
- The Upgrade Utility will be launched automatically by Cocoon when any old Gallery is requested to be opened. The Migrator might run the utility manually; if that is the case, the Gallery will have to be selected using the "Select Gallery" menu option.
- For each Gallery selected, the collector may optionally run on each of the libraries used to create the Gallery to update the "Activation Group" name for all the programs and service programs. This process takes almost as long as the time it took to discover the Gallery initially. However, the advantage to using Upgrade compared to creating the Gallery again is that any changes in the directives are preserved.
- For each Gallery, copybooks and Printer O-Specs are deleted and the PGM_REFCES file modified to remove the references to them.
- The Upgrade utility may be used more than once on a particular Gallery, even when the Gallery has been upgraded. This is allowed for those that opted to not-discover the Activation groups the first time around. When selecting a Gallery that already has been upgraded, the "new" 3.1 files will not be cleared.

What the Upgrade process will *NOT* do

1. **Copybook re-discovery.** It is highly recommended to run this process manually from the menu within Cocoon AFTER the library lists on the "Objects *LIBL" and "Source Mappings" have been carefully reviewed and adjusted.
2. **Printer O-Spec re-discovery.** New O-Spec types are now recognized by the RPG Agent. It is highly recommended to run this process from the menu within Cocoon AFTER the library lists on the "Objects *LIBL" and "Source Mappings" have been carefully reviewed and adjusted.
3. **Exhibits re-generation** (including the "Big Picture"). It is highly recommended to run this process manually within Cocoon AFTER the definitions of the new "Sections" is carefully identified.
4. **Multi-module Programs and Service programs.** If the Applications being migrated contain heavy use of multi-module objects, it is highly recommended to manually create new Galleries. The Upgrade utility will not add this information to older Galleries.
5. **New Artifact discovery.** It is highly recommended to run this process manually from the menu within Cocoon AFTER copybooks have been successfully discovered.

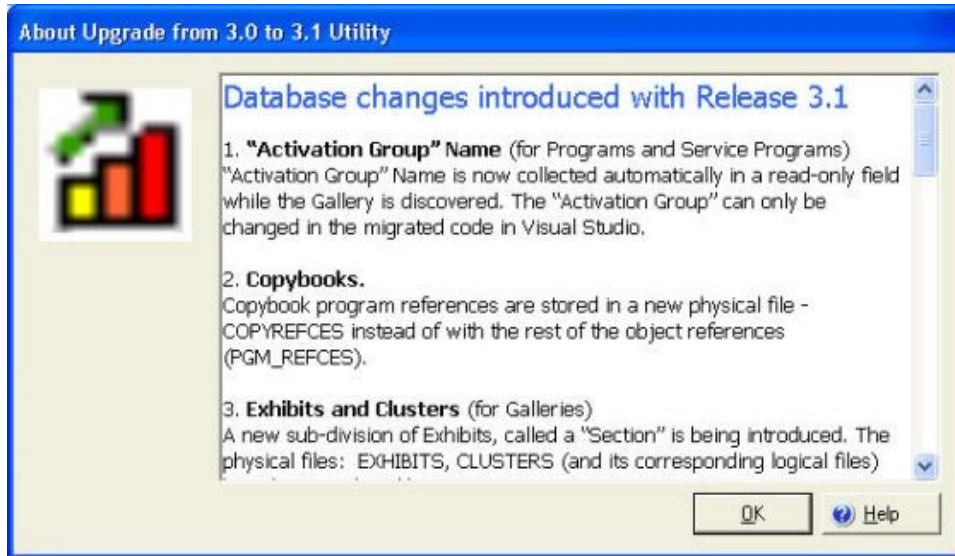
Step-by-Step Instructions

1. Locate and execute **UpgradeFrom3_0.exe** that located in your installation directory, usually C:\Program Files\ASNA\Monarch 3.1\Cocoon. The **Upgrade Monarch Galleries from 3.0** dialog box will display as shown below. As you proceed, this dialog box shows the operation messages.



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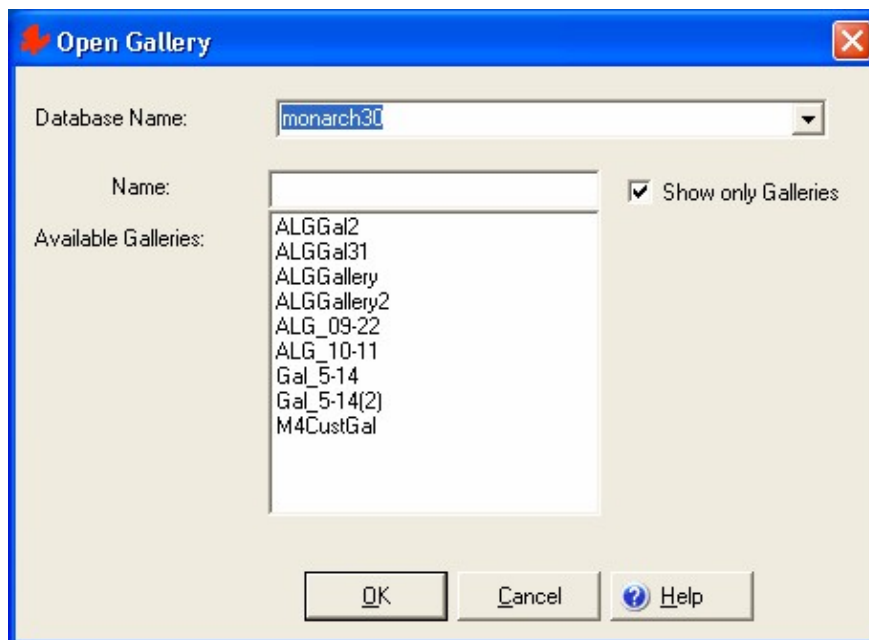
2. Select **A**bout to display the **About Upgrade from 3.0 to 3.1 Utility** dialog box to show the feature upgrades that will be performed by this utility.



Buttons

- **OK** - Select **OK** when finished reading the text.
- **Help** - Select **Help** to display help specific to this dialog.

3. Select **F**ile - **S**elect **G**allery and the **Open Gallery** dialog box will display as shown below.



Database Name

Select an existing *Database Name* from the drop-down listbox. The *Available Galleries* list will display.

Name

Select the desired Gallery from the *Available Galleries* list. The selected Gallery will display in the *Name* field.

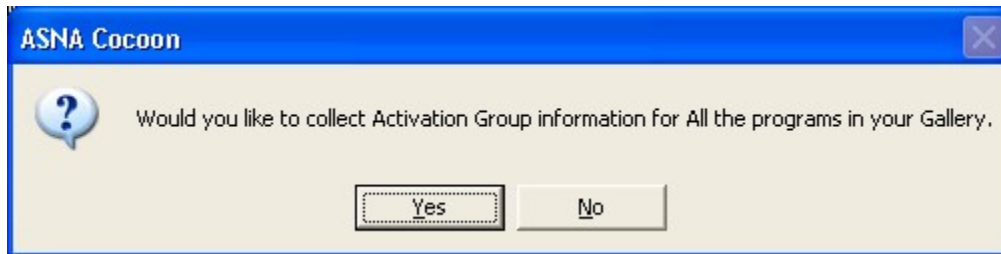
Show only Galleries

Uncheck this box to list all files in the *Available Galleries* column for the *Database Name*, otherwise, only Galleries will display.

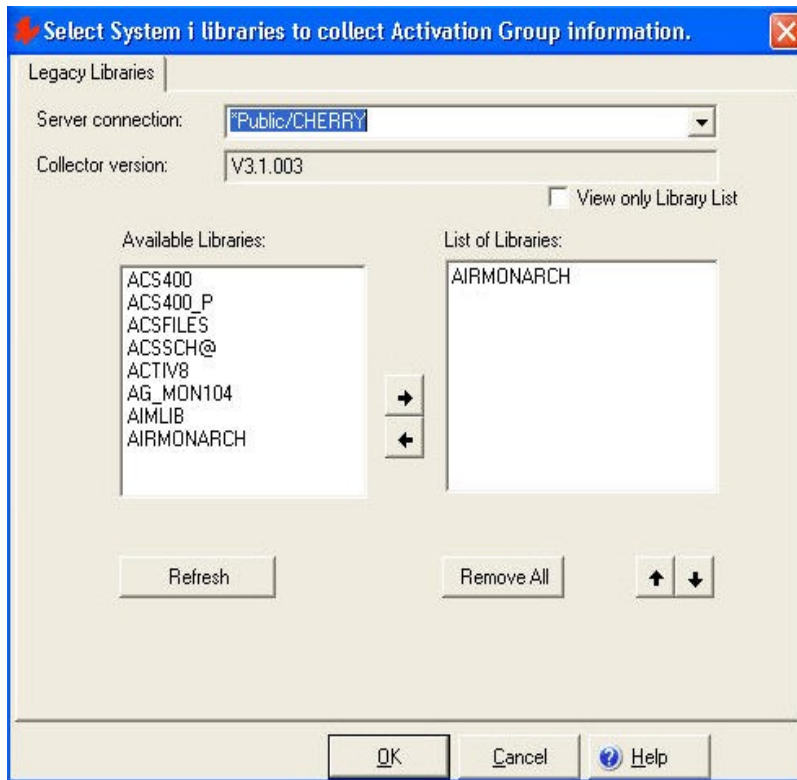
Buttons

- **OK** - Select **OK** to continue.
- **Cancel** - Select **Cancel** to cancel the upgrade process.
- **Help** - Select **Help** to display help specific to this dialog.

4. After pressing **OK**, the upgrade utility will delete and/or update files as needed then present the following dialog.

**Buttons**

- **Yes** - Select **Yes** to collect the Activation Group information.
 - **No** - Select **No** to indicate you do not want Activation Group information collected.
5. If you responded **Yes** to the previous dialog, the **Select System i libraries to collect Activation Group information** dialog box will display as shown below.



Server connection

Designates the connection to the server where the Legacy applications for the Gallery resides. Click on the arrow to the right to display a list of available database server connections.

Collector version

The Collector version will display. It is necessary to have the ASNA Monarch Collector program installed on the selected server.

View only Library List

Checked, this limits the available libraries shown to just the library list, otherwise, all database files are shown.

Available Libraries

All available libraries on the selected Server will display. Select each library from this column that you want the Gallery to collect its data from and then select the "right arrow" to add it to the *List of Libraries* column. Use the **Refresh** button to refresh the contents of the list.

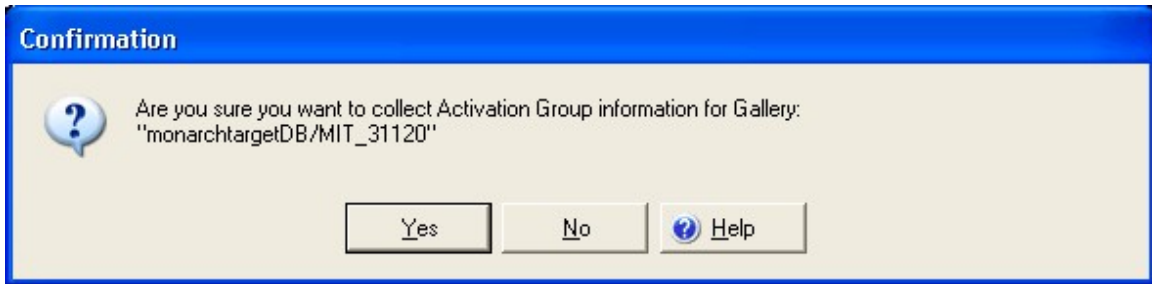
List of Libraries

This column will show the libraries selected. To remove an entry, select the library from the list then select the "left arrow". You can also press the **Remove All** button to remove all entries shown. Use the **Up** and **Down** arrows to move a library up or down to establish the proper sequence.

Buttons

- **OK** - Select **OK** to continue.
- **Cancel** - Select **Cancel** to cancel the operation.
- **Help** - Select **Help** to display a help specific to this dialog.

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6. The **Confirmation** dialog box will display as shown below to give you another chance to cancel the collection of Activation Group information.

**Buttons**

- **Yes** - Select **Yes** to continue.
- **No** - Select **No** to cancel the operation.
- **Help** - Select **Help** to display a help topic specific to this dialog.

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7. When the operation has completed, close the **Upgrade Monarch Galleries from 3.0** dialog or select **File – Exit** from the toolbar menu.

Filename: Manual Monarch Upgrade.doc
Directory: C:\Documents and Settings\agardner\My Documents\Monarch Upgrade_files
Template: C:\Documents and Settings\agardner\Application Data\Microsoft\Templates\Normal.dot
Title: You will need to run the upgrade process after installing Monarch 3
Subject:
Author: Anne Gardner
Keywords:
Comments:
Creation Date: 5/9/2007 10:25:00 AM
Change Number: 17
Last Saved On: 7/12/2007 2:22:00 PM
Last Saved By: Anne Gardner
Total Editing Time: 117 Minutes
Last Printed On: 7/12/2007 2:22:00 PM
As of Last Complete Printing
Number of Pages: 7
Number of Words: 1,398 (approx.)
Number of Characters: 7,288 (approx.)