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USING TURNOVER® FOR ISERIES V100 CREATE COMMANDS

This document describes how TURNOVER® for iSeries v100 handles create commands and how you can customize create commands when promoting objects.

There are two basic ways to promote an object in TURNOVER® for iSeries v100; either you compile it (**CSCO – Copy Source**, **Compile Object**) or you do not compile it (**CSMO – Copy Source**, **Move Object** and **CSCD – Copy Source**, **Create Duplicate Object**). This document focuses on the **CSCO** promotion method.

When you promote an object, TURNOVER® for iSeries v100 performs two actions, as follows:

1. Creates the object (see page 2).

2. Changes the object after compiling it to apply its original attributes (if TURNOVER® for iSeries v100 deems this necessary) - see page 4.

For detailed information, see the section entitled ***Line Defaults*** (specifically the information under the ***Create parameters*** bullet) in ***Chapter 1: Working with Application Definitions*** of the ***TURNOVER® for iSeries v100 User Guide***. Also see the section entitled ***Changing a form line*** in ***Chapter 6: Working with TURNOVER® for iSeries v100 Forms*** of the ***TURNOVER® for iSeries v100 User Guide***.

COMPILING AND CREATING THE OBJECT

TURNOVER® for iSeries v100 creates the object by compiling, moving, or copying it. When you use the **CSCO** promotion method, TURNOVER® for iSeries v100 creates the object by compiling it from promoted source.

When TURNOVER® for iSeries v100 compiles an object using the **CSCO** method, it first examines its global create command, which is in the type code for the object. If any of the create command parameters are not specified, TURNOVER® for iSeries v100 uses the command's default parameters. If the developer has overridden any of the parameter settings, TURNOVER® for iSeries v100 will use the new values *and only those new values*. In fact, the developer's overrides completely replace the global settings for this one object.

Additional information about create command overrides are provided in the following sections.

Restricting developers from overriding parameter settings in the create command

You can restrict the developer from overriding, in the development library, any parameter settings in the global create command. You do so by customizing the values in the following data areas and file:

- TPROTECT data area
- TKEYPRTF file
- TALWKEYOVR data area

Note: You should be aware that by imposing restrictions using these data areas and file, you are only controlling what the developer can override at the development level. Depending on the promotion method you are using and on the Create parameter (***Create Parms***) settings, these values can still change during the form run process. For more about how you can customize these data areas and file, see the section entitled ***Line Defaults*** (specifically the information under the ***Create parameters*** bullet) in ***Chapter 1: Working with Application Definitions*** of the ***TURNOVER® for iSeries v100 User Guide***.

TURNOVER® for iSeries v100's handling of create command overrides

Additional information about create command overrides follows:

- Suppose a TURNOVER® for iSeries v100 developer named Bill overrides the create command and promotes to QA. Then, another developer, Betty, checks out the object from QA to her development library (using ***PGMR**). Betty will NOT be prompted with Bill's overridden create command. In fact, Bill's object must make its way up to production before other developers will see his create command overrides. We are exploring a change to this. However, if Betty does not override the create command herself, when she builds her QA form, TURNOVER® for iSeries v100 knows enough to include Bill's custom create command and to change the Create parameter (***Create Parms***) to "**C**" for the form line.

- When Bill builds his level 10 form for promoting from development to QA, any object that has a custom create command will have a Creation parameter (***Create Parms***) of "**C**" (unless the TURNOVER® for iSeries v100 administrator has locked that setting). The developer can press **F4** on that form line to view the overridden create command being used.

- When Bill's form is copied, the resulting forms will also have, on this line, a value of "**C**" for ***Create Parms*** (unless the TURNOVER® for iSeries v100 administrator has locked that setting). This ensures that the object is created correctly at every level.

- Because of Bill's custom override, TURNOVER® for iSeries v100 assumes that this is exactly how Bill wants the object to look in production. By changing the value of ***Create Parms*** from "**P**" to "**C**", we ensure that no post-compile changes will be performed on the object to change it back to the original object that is being replaced.

CHANGING THE OBJECT AFTER PROMOTION

Additional information about post-creation (or post-compile) changes is provided in the following sections.

Controlling how TURNOVER® for iSeries v100 handles Create parameters

At each level of the application, the TURNOVER® for iSeries v100 administrator can control how TURNOVER® for iSeries v100 handles the Create parameters (***Create Parms***) for each object. Details about the possible ***Create Parms*** values follow:

- For **CSCO**, we typically recommend a value of "**P**" and no lock. A ***Create Parms*** value of "**P**" instructs TURNOVER® for iSeries v100 to use an existing object as the "base" for the attributes of the new object being promoted. This value indicates "**P**roduction," but TURNOVER® for iSeries v100 is actually using the libraries defined as targets in the current level and all higher levels, including locked levels. TURNOVER® for iSeries v100 uses the first object it finds as its "base" object. If it finds no object, TURNOVER® for iSeries v100 uses a reference object (if you have specified one). We call this "if it isn't broken, don't fix it."
- A ***Create Parms*** value of "**T**" is almost the direct opposite of what happens with "**P**." Instead of looking at the target and higher levels for values, "**T**" instructs TURNOVER® for iSeries v100 to use the "from" object as the base for the attributes of the new object being promoted. The new object replaces the target object's "broken" parameters.
- If the developer customized the create command, TURNOVER® for iSeries v100 automatically changes the ***Create Parms*** value for that line to "**C**" (unless the TURNOVER® for iSeries v100 administrator has locked that setting). If the value is locked, TURNOVER® for iSeries v100 ignores the custom create command and retains the locked setting.

Using the IBM Change command

If ***Create Parms*** has a value of "**P**" and no custom overrides were specified for this promotion, TURNOVER® for iSeries v100 first creates the object in the target location. After this, it executes the IBM **Change** command (for example, **CHGPF**, **CHGDSPF**, and so forth).

- TURNOVER® for iSeries v100 can only use the values of parameters that are available in the **Change** command. Therefore, some object attributes can only be specified during the creation step and are not available for a post-compile change.
- The **Change** command, when run, applies the final touch to the object, and settings previously made by the compile process could change. This could happen even if those parameters were pre-set in the global create command and "restricted" with the TALWKEYOVR setting.

If you have any questions about the information in this document, please contact a UNICOM Systems, Inc. Technical Support Representative by phone, fax, or email at the locations shown at the beginning of this document.