

# Abstract

Updates that apply to DB2 Automation Tool for z/OS Version 4.3 User's Guide (SC27-8893-00)

## Content

The most recent update is listed first.

### Update 3

**Date of change:** June 2017

**Topics:** Multiple

**Change description:** For APAR PI80149, a batch import/export facility was added to the Tools Customizer process. You can create jobs that export all or selected profiles from a subsystem to a data set, and then import them from the data set to one or more different subsystems. The following topics were updated:

- Topic: "Worksheets: Gathering parameter values for DB2 Automation Tool"
- Topic: "Messages"

#### 1. Topic: " Worksheets: Gathering parameter values for DB2 Automation Tool"

Add the following task to this topic:

##### **Task: Export and import profiles**

##### **Description**

This task creates batch jobs to export DB2 Automation Tool profiles from one SSID and import them to another SSID. Profiles are selected by a filter. The filter specifies profile creator, profile name, and profile type. The name and creator strings can contain wild card characters. Valid wild card characters include DB2 wild card characters (%) and (\_) and \* (which is treated as %). Specify the profile filters on the DB2 Parameters panel for the subsystem that you want to export or import. Profiles are converted from previous releases when required.

When selecting the export and import profiles task, if you enter the GENERATEALL command on the Customizer Workplace panel (CCQPWRK), an export and import job is generated for every subsystem that is associated. If you only want to export profiles from one subsystem and import into another, do the following:

1. Update the Product Parameters panel.
2. Select the **Export and import profiles** task and select the export step.
3. Update the DB2 Parameters panel for the SSID from which you want to export profiles. Specify the export fields in the **Export Import Parameters** section.
4. On the Customizer Workplace panel, enter the G (generate) line command next to the SSID from which you want to export the profiles. The export job is created.
5. Run the export job.
6. Update the Product Parameters panel.
7. Select the **Export and import profiles** task and select the import step.

8. Update the DB2 Parameters panel for each SSID that you want to import profiles to. Specify the import fields in the **Export Import Parameters** section.
9. On the Customizer Workplace panel, enter the G (generate) line command next to each SSID that you want to import profiles to. The import jobs are created.
10. Run the import jobs.
11. Update the Product Parameters panel and deselect the export and import tasks.

This task is *optional*.

### Jobs generated

This task generates the following jobs based on the template that is listed:

Job name	Template	Description
ssEXPdd	HAAEXP	Exports profiles to a data set.
ssIMPdd	HAAIMP	Imports profiles from a data set.

### Required authority

The user ID that runs the ssEXPdd and ssIMPdd jobs must have execute authority on DB2 Automation Tool plans.

Step or parameter	Required?	Discovered?	Default value	Your value
<b>Export and import profiles</b> Select this task to create batch jobs to export Automation Tool profiles on one SSID and import them on another SSID.	No	--	Not selected	
<b>Export profiles to file</b> This step exports profiles selected by a profile filter to an export data set. This export data set can be used as an import source to import the profiles to another SSID. The export data set must be a physically sequential (PS) data set with LRECL of 4096. This data set can optionally be a member of a PDS.	No	--	Not selected	
<b>Import profiles from file</b> This step imports profiles from an export	No	--	Not selected	

Step or parameter	Required?	Discovered?	Default value	Your value
data set. The profiles must have been previously exported to that data set. The data set must be a physically sequential data set (PS) with an LRECL of 4096. It can be a member of a PDS.				

Add the following to the “DB2 Parameters” section of this topic:

#### Export Import Parameters

Parameter	Required?	Discovered?	Default value	Your value
<p><b>Export profile creator name</b></p> <p>This parameter specifies the creator name. It is used in the filter that determines the profiles that are exported in the generated export job. This value can contain DB2 wild card characters (%,_). * is equivalent to %.</p>	Yes	No	%	
<p><b>Export profile name</b></p> <p>This parameter specifies the profile name. It is used in the filter that determines the profiles that are exported in the generated export job. This value can contain DB2 wild card characters (%,_). * is equivalent to %.</p>	Yes	No	%	

Parameter	Required?	Discovered?	Default value	Your value
<p><b>Export profile type</b></p> <p>This parameter specifies the profile type to be exported. Valid values are J (job profiles), O (object profiles), E (exception profiles), and U (utility profiles).</p> <p><b>Note:</b> Exporting a job profile also exports the included object, exception, and utility profiles.</p>	Yes	No	J	
<p><b>Export data set</b></p> <p>This parameter specifies the data set name that is used as the recipient of the exported profiles. This same data set name is used as the input to the Import profiles job. This data set must be a physically sequential (PS) data set with LRECL = 4096. If the data set name is longer than 42 characters, it must be enclosed in quotation marks. The default value is The data set can be a PDS if a member name is also specified in the Export member name parameter.</p>	Yes	No	HAA.EXPORT. DSN	
<p><b>Export member name</b></p> <p>This parameter specifies the member name of the export/import data set when that data set is a PDS.</p>	No	No	None	

Parameter	Required?	Discovered?	Default value	Your value
<p><b>Import profile creator name</b></p> <p>This parameter specifies the creator name to be used for the profiles being imported. It replaces the profile creator name(s) that were exported. If not specified, the profile creator names that were exported remain the same.</p>	No	No	None	
<p><b>Import update option</b></p> <p>This parameter specifies the update option to be used with the imported profiles. If this value is not specified, the update options of the exported profiles remain the same after import. Valid values are U (any user can view or update or the profile), V (only the profile creator can update the profile, but any user can view it), and N (only the profile creator can view or update the profile).</p>	No	No	None	
<p><b>Import replace option</b></p> <p>This parameter indicates whether a previously existing profile with the same name and type should be replaced with the imported profile. Valid values are Y (replace existing profiles) and N (keep existing profiles).</p>	Yes	No	N	

## 2. Topic: "Messages"

The following messages were added or changed:

**HAABE01E Error: Environment initialization failed. RC=16. Aborting.**

**Explanation:** Establishing the DB2 Automation Tool runtime environment failed.

**User response:** Ensure that the control file and configuration ID are correct. Ensure that plans have been correctly bound. Ensure that all data sets are correct.

**HAABE02E Error: Plan fetch failed. RC=16. Aborting.**

**Explanation:** The retrieval of DB2® Automation Tool plan names from the control file failed.

**User response:** Ensure that the control file update jobs have run, and the plan binds have been run. Ensure that the configuration ID is correct.

**HAABE03E Error: Call attach initialization failed. Return code: *return\_code*. Reason code: *reason\_code* Setting RC=12. Terminating.**

**Explanation:** Call attach facility initialization failed.

**User response:** Make sure the DB2 data sets for the SSID are correct by entering option 0.1 from the DB2® Automation Tool main menu.

**HAABE04E Error: Profile not found. RC=12. Terminating. Creator: *profile\_creator* Profile name: *profile\_name***

**Explanation:** The input profile creator and name was not found in the DB2® Automation Tool repository.

**User response:** Verify the profile name, creator, and profile type.

**HAABE05E Error: Export data set does not exist. RC=16. Aborting.**

**Explanation:** The export data set does not exist.

**User response:** Create a valid export data set with LRECL= 4096 and retry.

**HAABE06E Error: Export data set being used by another user. RC=12. Aborting.**

**Explanation:** The export data set is in use by another user.

**User response:** Export requires exclusive access. Retry when the data set is accessible.

**HAABE07E Error: Export data set does not exist. Please create an export data set with LRECL= 4096 and try again. RC=16.**

**Explanation:** The export data set does not exist.

**User response:** Create a valid export data set and try again.

**HAABE08E Error: Export data set is partitioned and no member was specified. RC=12. Aborting.**

**Explanation:** The member name for the export data set does not exist.

**User response:** Specify a member name and try again.

**HAABE09E Error: Export member already exists. RC=12. Aborting.**

**Explanation:** The member name for the export data set already exists.

**User response:** Select a member name that does not exist and try again.

**HAABE10E Error: Export member not allowed on a non-partitioned data set. RC=16. Aborting.**

**Explanation:** A member name was specified but the export data set is not a partitioned data set.

**User response:** Clear the member name and try again.

**HAABE11E Error: Export data set must have an LRECL of 4096. RC=16. Aborting.**

**Explanation:** The export data set has an incorrect LRECL. The incorrect data set may have been specified.

**User response:** Ensure the correct data set was specified. Use a data set with LRECL = 4096.

**HAABE12E Error: Open failed on export data set. RC=12. Aborting.**

**Explanation:** Opening the export data set failed.

**User response:** Ensure that the data set name is correct. Try to browse or edit the data set.

**HAABE13E Error: Invalid SSID. RC=16. Aborting.**

**Explanation:** The SSID that the profiles are being exported to is not available in the DB2® Automation Tool control file. The SSID must exist in the control file in order to export profiles.

**User response:** Use Tools Customizer to associate the SSID and regenerate the export jobs, or add the SSID via option 0.1 on the DB2 Automation Tool main menu.

**HAABE14E Error: This profile's data has been corrupted in the DLC tables. It must be re-created. RC=8. Creator: *profile\_creator* Profile name: *profile\_name***

**Explanation:** The profile that is listed in the message has been corrupted and cannot be exported.

**User response:** Try to edit the profile in the ISPF interface. You might have to delete the profile and re-create it.

**HAABE15E Error: Unable to export profile. RC=8. Creator: *profile\_creator* Profile name: *profile\_name***

**Explanation:** Export of the profile failed.

**User response:** Review related messages to determine the cause of the failure.

**HAABE16I Export successful. Creator: *profile\_creator* PROFNAME: *profile\_name***

**Explanation:** The profile that is listed in the message has been successfully exported.

**User response:** No action is required.

**HAABE17I Printing out the exported profiles:**

***Profile1 Profile2 Profile3...***

**Explanation:** This message displays the name of each profile that was exported.

**User response:** No action is required.

**HAABE18I Number of *profile\_type* profiles found: *nnnn***



**Explanation:** This message displays the number of profiles that were encountered. *profile\_type* is either job, exception, utility, or object.

**User response:** No action is required.

**HAABE19E Error: Invalid first record of HAA#DATA input file. RC=16. Terminating.**

**Explanation:** The HAA#DATA input data is damaged.

**User response:** Regenerate the job using Tools Customizer. If the error recurs, contact IBM® Software Support.

**HAABE20E Error: Internal parse routine failed. RC=16. Aborting.**

**Explanation:** The routine to parse the HAA#DATA input records failed.

**User response:** Contact IBM® Software Support.

**HAABE21E Error: Profile retrieve failed. RC=12. Terminating. Internal code: *error\_code* Creator: *profile\_creator* Profile name: *profile\_name***

**Explanation:** The profile that is listed in the message could not be found. It is likely that the profile filter did not return any profiles for export.

**User response:** Review the export profile filters.

**HAABE22E Export failed. Creator: *profile\_creator* PROFNAME: *profile\_name* RC=8. Internal code: *error\_code***

**Explanation:** The call to HAA\$IMPD had a non-zero return code.

**User response:** Review related messages to determine the cause of the failure.

**HAABE23I Number of *profile\_type* profiles successfully exported: *nnnn***

**Explanation:** This message displays the number of profiles that were successfully exported. *profile\_type* is either job, exception, utility, or object.

**User response:** No action is required.

**HAABE23I** Number of *profile\_type* profiles successfully exported: *nnnn*

**Explanation:** This message displays the number of profiles that were successfully exported. *profile\_type* is either job, exception, utility, or object.

**User response:** No action is required.

**HAABE24I** Number of errors found: *nnnn*

**Explanation:** This message displays the number of error messages issued.

**User response:** No action is required.

**HAABE25I** Number of warnings issued: *nnnn*

**Explanation:** This message displays the number of warning messages issued.

**User response:** No action is required.

**HAABI01E** Error: Environment initialization failed. RC=16. Terminating.

**Explanation:** Establishing the DB2® Automation Tool runtime environment failed.

**User response:** Ensure that the control file and configuration ID are correct. Ensure that plans have been correctly bound. Ensure all data sets are correct.

**HAABI02E** Error: Plan fetch failed. RC=16. Terminating.

**Explanation:** The retrieval of DB2® Automation Tool plan names from the control file failed.

**User response:** Ensure that the control file update jobs have run, and the plan binds have been run. Ensure that the configuration ID is correct.

**HAABI03E** Error: Call attach initialization failed. Return code: *return\_code*. Reason code: *reason\_code* Setting RC=12. Terminating.

**Explanation:** Call attach facility initialization failed.

**User response:** Make sure the DB2 data sets for the SSID are correct by entering option 0.1 from the DB2® Automation Tool main menu.

**HAABI04E Error: The import data set could not be allocated. RC=16. Terminating.**

**Explanation:** The import data set could not be allocated.

**User response:** Ensure that the data set name is correct. Try to browse or edit the data set.

**HAABI05E Error: Import data set is partitioned and no member was specified. RC=12. Aborting.**

**Explanation:** The member name was not specified for the import data set, which is partitioned.

**User response:** Specify a member name and try again.

**HAABI06E Error: A member name is not allowed on a non-partitioned data set. RC=16. Aborting.**

**Explanation:** A member name was specified, but the import data set is not a partitioned data set.

**User response:** Clear the member name and try again.

**HAABI07E Error: Import data set must have an LRECL of 4096. RC=16. Aborting.**

**Explanation:** The import data set has an incorrect LRECL. The incorrect data set may have been specified.

**User response:** Ensure that the correct data set was specified.

**Start of change**

**HAABI08E Error: Member does not exist in the partitioned data set. RC=12. Aborting.**

**Explanation:** The member name for the import data set does not exist.

**User response:** Locate or create the exported member name.

**HAABI10E Error: Open of import data set failed. RC=12. Aborting.**

**Explanation:** Opening the export data set failed.

**User response:** Make sure the data set name is correct. Try to browse or edit the data set.

**HAABI12E Error: Invalid SSID. RC=16. Aborting.**

**Explanation:** The SSID that the profiles are being imported to is not available in the DB2® Automation Tool control file. The SSID must exist in the control file in order to import profiles.

**User response:** Use Tools Customizer to associate the SSID and regenerate the import jobs, or add the SSID via option 0.1 on the DB2 Automation Tool main menu.

**HAABI13W Warning: Import successful but the RECOVER RBA/LRSN was not found in SYSCOPY. This value will be discarded. RC=4. Creator: *profile\_creator* Profile name: *profile\_name***

**Explanation:** The imported profile contained a recovery scenario that contained a 6-byte recovery RBA or LRSN, and the new SSID has 10-byte RBA/LRSN values. DB2® Automation Tool attempted to convert the RBA/LRSN from 6 to 10 bytes, but the program to convert the value failed.

**User response:** Create this profile from scratch.

**HAABI14I Import successful. Creator: *profile\_creator* PROFNAME: *profile\_name***

**Explanation:** The import was successful.

**User response:** No action is required.

**HAABI15W Warning: Import file contains an incompatible version. RC=8. Skipping. Creator: *profile\_creator* Profile name: *profile\_name***

**Explanation:** Import does not support profiles from DB2® Automation Tool Version 1.3 and earlier.

**User response:** Create this profile from scratch.

**HAABI16I Printing out imported profiles:**

***Profile1 Profile2 Profile3...***

**Explanation:** This message displays the name of each profile that was imported.

**User response:** No action is required.

**HAABI19E Error: Unknown utility type. RC=8. Aborting.**

**Explanation:** This is an internal error.

**User response:** Contact IBM® Software Support.

**HAABI20E Error: Object function create call failed. RC=8. Aborting. Creator: *profile\_creator* Profile name: *profile\_name***

**Explanation:** This is an internal error.

**User response:** Contact IBM® Software Support.

**HAABI21I Number of *profile\_type* profiles found: *nnnn***

**Explanation:** This message displays the number of profiles that were encountered. *profile\_type* is either job, exception, utility, or object.

**User response:** No action is required.

**HAABI22E Error: Import data set is not a valid export data set. RC=16. Aborting.**

**Explanation:** The data set that was specified as the source for profiles to be imported is not a valid export data set.

**User response:** Make sure the import data set contains at least one exported profile.

**HAABI23E Error: Internal parse routine failed. RC=16. Aborting.**

**Explanation:** The routine to parse the HAA#DATA input records failed.

**User response:** Contact IBM® Software Support.

**HAABI24E Error: Invalid first record of HAA#DATA input file. RC=16. Terminating.**

**Explanation:** The HAA#DATA input data is damaged.

**User response:** Regenerate the job using Tools Customizer. If the error recurs, contact IBM® Software Support.

**HAABI25E Import failed. Creator: *profile\_creator* PROFNAME: *profile\_name* return code: *return\_code*.**

**Explanation:** A call to HAA\$IMPD received a non-zero return code. The call failed.

**User response:** Review related messages to determine the cause of the failure.

**HAABI26I Number of *profile\_type* profiles successfully imported: *nnnn***

**Explanation:** This message displays the number of profiles that were successfully imported. *profile\_type* is either job, exception, utility, or object.

**User response:** No action is required.

**HAABI27I Number of errors found: *nnnn***

**Explanation:** This message displays the number of error messages issued.

**User response:** No action is required.

**HAABI28I Number of warnings issued: *nnnn***

**Explanation:** This message displays the number of warning messages issued.

**User response:** No action is required.