

Java Dictionary Table Maintenance Utility Tool – Version 2.0



Applies to:

This tool has been tested on both NW04 and NW70 AS Java.

Summary

This is an update to the original table maintenance tool that I released last year (early 2007). The table maintenance tool allows you to view and modify table data in tables that were created via the Java Dictionary perspective in SAP NetWeaver Developer Studio and reside on the underlying database of the AS Java. It also allows you to export your table data as XML and then import it into another AS Java where the same table exists. I created this tool because I needed it for some internal development, but I figure it can also help the SAP NetWeaver Development Community as a whole. Hope you enjoy it!

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Company: SAP Labs

Created on: 12 June 2008

Author Bio



Jeff has been working with SAP for the past 10+ years. During this time he has held positions as Developer, Product Manager, and now is a senior member of the SAP NetWeaver Foundation RIG where he helps roll out new technologies both to internal (consultants & developers) and external (customers) audiences. Jeff has developed software in many different languages and platforms, from ABAP to Java, & Windows to AIX...as Jeff likes to say "learning a programming language syntax is relatively easy...learning how to program correctly is the hard part."

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Overview

Currently Java Developers must use a 3rd party client tool to connect to the underlying J2EE Engine database to view and/or modify the data there. Having developed much ABAP in the past I knew the value of having a tool (SE16) that let developers and administrators peer into table data for any table in the ABAP Data Dictionary. Unfortunately this same sort of tool is not yet available to Java Developers for tables that exist in the Java Dictionary.

This led me to develop just such a tool, a tool that would not only let one view the data in tables in the Java Dictionary, but also modify it, export it as XML, and import it as XML. This tool allows developers to maintain master data that exists in their Java Dictionary tables, as well as share test data with other developers in the form of XML files that can be exported and then imported.

Stipulation

This tool in no way is supported by SAP. It is provided to you free of charge, but there is no support for it available from SAP. It has been tested on both NW04 and NW04s J2EE Engines. If you have any questions about this tool you can contact the author of it, Jeff Gebo at jeff.gebo@sap.com. Jeff will consider making bug fixes and/or feature enhancements if time permits.

Installation

To install the tool you simply need to [download](#), unzip, and deploy the SCA (details below) to your AS Java using the SDM.

- 1) Download the zip file [here](#) containing the SCA to be deployed.
- 2) Unzip the content of the zip file (1 SCA named TABLEMAINT_SC.sca – details below) into a folder.
- 3) Use SDM to deploy the SCA to the AS Java you desire.
 - TABLEMAINT_SC.sca – contains the UI, business logic and database access code. **Note:** *in version 1.0 there were 2 SCAs...admittedly this was a little overkill on the DC separation so for simplicity sake I moved everything into a single SC.*

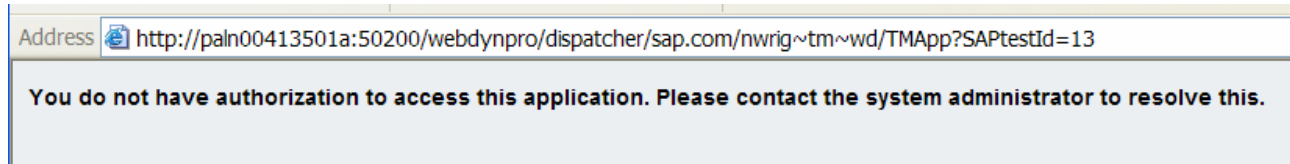
What's New

I received quite a few requests for fixes and improvements, from that the following features have been added and/or fixed:

- Ability to sort and filter the table data. Quite useful for getting to the rows that you need to work with.
- Ability to set default values for number of rows returned from the table, and number of rows to display in the Table UI.
- Add authentication, the user that logs on must be part of the *Administrator* role on a AS Java only stack, or the *GRUP.R3_ROLE_DS.SAP_J2EE_ADMIN* role on a AS Java + AS ABAP stack, where AS ABAP user store is used.
- Fixed bug with FLOAT types
- Fixed other random bugs.

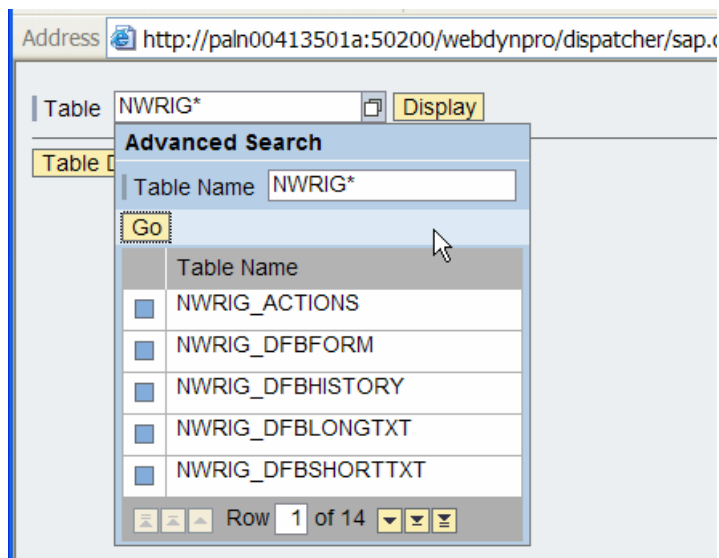
How to Use

First step to use is to make sure you user is has the role *Administrators* or *GRUP.R3_ROLE_DS.SAP_J2EE_ADMIN* assigned to it in the UME. If not, you will see this screen when you logon to the application:



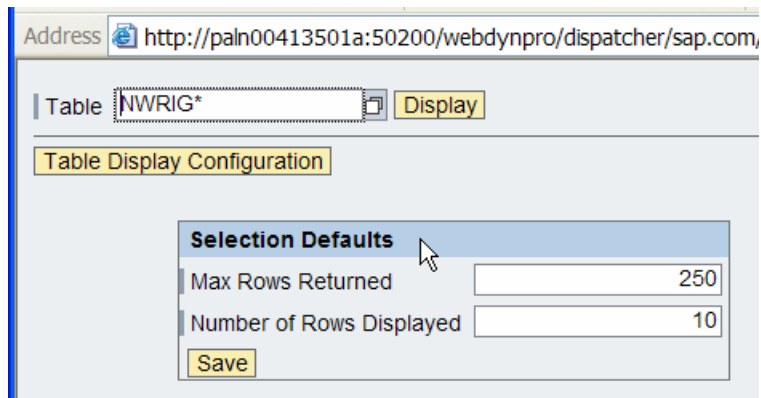
Once installed the application can be executed with the following URL: `http:<server name>:<port>/webdynpro/dispatcher/sap.com/nwrig~tm~wd/TMApp` – I suggest adding this to your favorites list.

On the initial screen you can enter a table name, or you can use the value help to search for a table. The value help search supports the '*' wildcard for its queries.



This image shows that the help value button was selected and a search was done for all tables that start with NWRIG.

You can also select the Table Display Configuration button to change the table selection/display defaults:



Once you have selected a table and clicked the Display button, the table definition and data will be retrieved and displayed.

Address <http://paln00413501a:50200/webdynpro/dispatcher/sap.com/nwrig~tm~>

[Return to Table Input](#)

NWRIG_DHFBTRACK - has 17 rows.

[New Row](#) [Export...](#) [Export Selected...](#) [Import...](#)

	ID	CREATEDBY	CREATIONDATE	LASTUPDATEDBY	LASTUPDATED
<input checked="" type="checkbox"/>	1	GEBO	4/4/2007	GEBO	4/4/2007
<input type="checkbox"/>	4	GEBO	4/5/2007	GEBO	4/5/2007
<input type="checkbox"/>	5	GEBO	4/6/2007	GEBO	4/6/2007
<input type="checkbox"/>	6	GEBO	4/6/2007	GEBO	4/6/2007
<input type="checkbox"/>	7	GEBO	4/10/2007	GEBO	4/10/2007
<input type="checkbox"/>	9	GEBO	4/11/2007	GEBO	4/11/2007
<input type="checkbox"/>	11	GEBO	4/12/2007	GEBO	4/12/2007
<input type="checkbox"/>	13	ANGEL	5/2/2007	ANGEL	5/2/2007
<input type="checkbox"/>	15	GEBO	6/28/2007	GEBO	6/28/2007
<input type="checkbox"/>	53	GEBO	1/11/2007	GEBO	1/11/2007

Row 1 of 17

Table data that is stored in NWRIG_DHFBTRACK.

You have the ability to sort and/or filter the table.

Address <http://paln00413501a:50200/webdynpro/dispatcher/sap.com/nwrig~tm~wd/TMApp?SAPtestId=13>

[Return to Table Input](#)


NWRIG_DHFBTRACK - has 17 rows.

[New Row](#) [Export...](#) [Export Selected...](#) [Import...](#)

	ID	CREATEDBY	CREATIONDATE	LASTUPDATEDBY	LASTUPDATED	FBSTATUS	STATUS_ESCALATED	PARTNERTYPE
<input type="checkbox"/>	61	GEBO	2/14/2007	GEBO	2/19/2007	P		SI
<input checked="" type="checkbox"/>	6	GEBO	4/6/2007	GEBO	4/6/2007	P		SI
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								

Row 1 of 2

Then you can enter new rows into the table, modify rows, and delete rows. To modify a row select it in the table.

Address  http://paln00413501a:50100/webdynpro/dispatcher/sap.com/nwrig~tm~wd/TMApp

[Return to Table Input](#)

NWRIG_FBSTATUS

[New Row](#) [Export...](#) [Export Selected...](#) [Import...](#)

ID	LANGU_ISO	STATUSTEXT	SORTORDER
C	en	Closed	2
N	en	New	0
O	en	Open	1
P	en	In Process	3


Row 1 of 4

ID: *
 LANGU_ISO: *
 STATUSTEXT: *
 SORTORDER: *

[Update](#) [Delete](#) [Close](#)

The 2nd row was selected and a form for editing it is then displayed.

You can also choose to export the entire table as an XML file, or export specific selected rows as an XML file.

Address  http://paln00413501a:50100/webdynpro/dispatcher/sap.com/nwrig~tm~wd/TMApp

[Return to Table Input](#)

NWRIG_FBSTATUS

[New Row](#) [Export...](#) [Export Selected...](#) [Import...](#)

ID	LANGU_ISO	STATUSTEXT	SORTORDER
C	en	Closed	2
N	en	New	0
O	en	Open	1
P	en	In Process	3

Row 1 of 4

Table Export

Right click on the link and select "Save Target As..." in the context menu.


[NWRIG_FBSTATUS.xml](#)

[Close](#)

- Open
- Open in New Window
- Save Target As...
- Print Target

Export... button was clicked and a view is displayed allowing the user to download the table content as an XML file.

The XML file can then be shared with other developers so that they can import the table data into their AS Java table.

Address  http://paln00413501a:50100/webdynpro/dispatcher/sap.com/nwrig~tm~wd/TMApp

Return to Table Input

NWRIG_FBSTATUS

New Row Export... Export Selected... Import...

ID	LANGU_ISO	STATUSTEXT	SORTORDER
C	en	Closed	2
N	en	New	0
O	en	Open	1
P	en	In Process	3

Row 1 of 4

Table Import

C:\Documents and Settings\i0058\ Browse... Import

Close

Import... was selected showing the Table Import view that allows you to import XML data for the displayed table.

Current Know Limitations

Following is a list of current limitations of the tool.

- Tables that contain binary columns are not allowed to have rows added. The binary fields are not viewable.
- Does not allow you to modify the J2EE engine tables that contain its configuration (there are currently 3, all which start with J2EE_).
- The filtering works for most data columns but there are some bugs here and there that I didn't have time to take care of. I based my table filter of the filter class provided [here](#) by Peter Vignet also of SAP Labs.

I am quite sure that there are other small bugs/features...feel free to email me if you find any.

The Future

I doubt I will release another version of this tool for NW04/NW70. I might think of porting it to CE 7.1 and NW 7.1 if I get requests for it. The thing is though that in the 7.1 NWDS is based on Eclipse 3.3 which comes with the open source Dali plug-ins that let you get a view on the data in your tables. It doesn't do everything that my tool does but it is very nice none the less...if I get a lot of requests for a 7.1 version I will most likely get one out there.

Thanks for all of you out there who have sent me emails commenting on the tool, I really appreciate it. I know a lot of you have requested the code; unfortunately there are some legal reasons that make it impossible for me to share it at this time. I will keep you posted if this changes. It would be nice to have an open source forge for tools such as this one.

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