

PROJECT-OTR.ORG

# OpenBD-OTR.Local (v2.0)

Open Source Project

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2012

<http://www.project-otr.org/>

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# Oracle® Tablespace Report

## Open Source Project

### Introduction

Oracle Tablespace Report is used to gather various statistics e.g. tablespace usage (allocated, used and free) space. The statistics are stored centrally in the OTR Repository located in an OTR Instance.

This project got started out of a work from a Danish friend, Lars-Bo Vanting, at the time we worked together back in 2005.

Initially it was only based on Tables, Views and PL/SQL. The current version has expanded on the basis and added a web GUI (based on the excellent open source project Open BlueDragon (<http://www.openbd.org>)).

### OpenBD-OTR.Local

OpenBD-OTR.Local is built using a new tool from the Open BlueDragon project called OpenBD.Local.

OpenBD.Local Windows Runtime environment allows you to package up webapps as complete downloadable applications that will have a presence in the main System Tray.

It ships with everything you need, including the Java Runtime. All you need to do is to supply the OpenBD Web App folder.

OpenBD.Local is Windows Jetty Service container where you can deploy any Java application... and of course fits right in the hand of OpenBD and OTR!

OpenBD-OTR.Local has to be setup a little bit different than the OTR. OpenBD-OTR.Local is identical to the original OTR but what we don't want, is having more local workstations doing the scheduled jobs like the Friday snapshot or generating host/instance PDF Reports.

One way to use OpenBD-OTR.Local is to install the OpenBD-OTR.Local on every DBA's Workstation, configure the OTR datasources OTR\_OTRREP and OTR\_SYSMAN but only have 1 single Workstation acting like a master and have this workstation have the scheduled tasks defined.

One major problem with this type of setup is that usually a workstation gets shutdown during nights or weekends and won't be able to do its scheduled tasks.

A better way would be to install OTR on a central Linux/UNIX Server and configure it as described in the OTR Documentation. This way we can let the central OTR take care of all scheduled tasks.

## What's needed to get OpenBD-OTR.Local running?

- Basis for the Oracle® Tablespace Report, from here on simply OTR, tool is the Oracle® Enterprise Manager 10g or the Oracle® Cloud Control 12c, so this is the first thing to be installed if not already done. Anyone running 10 or more Oracle Instances should never be without the Enterprise Manager!!!
- The OTR.Local which can be found at <http://www.project-otr.org/>

The complete source is available on Google Code <http://code.google.com/p/oracle-tablespace-report/>

- The SQL files needed to setup the Repository on your OTR Repository Database. Also downloaded from <http://www.project-otr.org/>

**NOTE:** To avoid license problem with Oracle, the OTR Repository should NOT be installed in the Grid Control, Cloud Control or a RMAN Repository Database! The OTR can very well be run on a Standard Edition DB or even an Oracle XE instance. Future releases of OTR might even be possible to use MySQL as a Repository.

## What does it look like?

We're assuming the OTRREP schema and its objects have been created on the OTR Repository database.

### The Main screen.

Back to Main Customers DB Instances DB Hosts Tablespaces TBS Trend New Snapshot Del Snapshot Enterprise Manager

Last Snapshot: Nov 11, 2011

### My Company Inc. - Oracle Tablespace Report

Report Date: 11.11.2011

Customer: ALL

Include: ☒ Development DB's ☒ Internal DB's (GridControl & SnapManager for Oracle)

Run Report

**Current Status**

SID	Status
CFIDBT	TBS

SCFINDEX:  
Can Grow To: 66000 MB  
1237.5 MB Free, 98.13 used.

Updated every 5 Minutes  
For more Info...  
MouseOver  
the Status column.

[All](#) | [Trouble](#)

OpenBD Version: 2,0 - OpenBD Build: 2011-11-12 08:09:43 GMT  
[Open BlueDragon Administrator](#)

From here we will administrate our Customers, the Database Instances and the relationship of Customer/Database instance(s) and the Tablespaces used.

From here one will also generate reports of space usage at a defined point in time. This can be a report containing database instances for all customers or for a single customer. Reports can be stored as Excel files or as PDF files.

On the right side is the monitoring/alert pane where Instances with some sort of problem coming up will be listed. It will display if the Instance is down, in Blackout mode or if a Tablespace has a problem. With a mouse-over on a red alert the actual tablespace will be shown and how much free space in MB is still available and the "real" % used. With "real" means it's calculating the free space in % based on the "can grow to" value for the tablespace.

With a click on the red TBS alert, you get the possibility to adjust the tablespace with just one click.

Assuming we have a space problem on a BIGFILE tablespace.

Customers DB Instances DB Hosts Tablespaces TBS Trend New Snapshot Del Snapshot Enterprise Manager

OTR  
Last Snapshot: 22.11.2011

**My Company Inc. - Tablespace Adjustments**  
**CFINDEX**

Datafile	Can grow to	Used	Increase with
/u01/oradata/cfidbt_db/CFIDBT/cfindex.dbf	66,000 MB	65,400 MB	1GB 2GB

At the moment we have not used any extra storage but **Please** make sure that the storage have enough space available for this file to grow.

With just one click this tablespace will extend the “Can Grow to” with another 1 or 2GB.

If it would be a non-BIGFILE tablespace...

Customers DB Instances DB Hosts Tablespaces TBS Trend New Snapshot Del Snapshot Enterprise Manager

OTR  
Last Snapshot: Nov 11, 2011

**My Company Inc. - Tablespace Adjustments**  
**LEGDATASTANDARD**

Datafile	Can grow to	Used	Increase with
/u01/oradata/legmbcp_db/LEGMBCP/LEGDATASTANDARD117.dbf	2,048 MB	1,664 MB	1GB 2GB
/u01/oradata/legmbcp_db/LEGMBCP/LEGDATASTANDARD118.dbf	2,048 MB	128 MB	1GB 2GB

**This is not a BIGFILE Tablespace so the file should not get bigger than 32GB!**

There are currently **118** files in this Tablespace. Most likely you should add a new file to it.

/u01/oradata/legmbcp_db/LEGMBCP/LEGDATASTANDARD119.dbf	2,048 MB	128 MB	<a href="#">ADD FILE</a>
--	----------	--------	--------------------------

We have made our best effort to make sure this filename is not already used.  
At the moment we're only expanded the storage usage with 100MB but **Please** make sure there is enough space on the storage for this file to grow.

A list of the files within this tablespace, that have autoextend still on, will be displayed. You can select to increase the “Can grow to” on one of these datafiles with 1 or 2GB or add a new file which will have its initial size set to 128MB and the “Can grow to” set to 2GB.

If a valid Mail Server and Mail account is configured a mail will be sent to the DBA and/or Storage Team with a reminder about checking the storage to make sure you don’t run out of space.



## Customers

### Main screen for customers

Company ID	Company name	Edit	Delete	New
AAA	Company A			
BBB	Company B			
CCC	Company C			
DDD	Company D			
EEE	Company E			
FFF	Company F			
GGG	Company G			
MYC	My Company Inc.			
NNN	Company N			

From this screen we will administrate our customers. The company info contains Company ID or Mandator and a Customer name.

### Adding a new customer

Company ID:   
Name of Company:

Simply fill out the form and click on Save.

Customer ID is a 3 letter short name of the customer. This is later used as a connection to the database instance and the tablespaces used by this customer.

### Edit a customer

Company ID:   
Name of Company:

Note: Changing the Customer ID will bring a problem with the collected statistics and with the connection to the tablespaces, so try to keep this unchanged...

## DB Instances

In this module you will register all your Oracle Instances.

### Main screen for Oracle Instances

Customers

DB Instances

DB Hosts

Tablespaces

TBS Trend

New Snapshot

Del Snapshot

Enterprise Manager

DB Instances and the Type there of...  
SEE = Shared Enterprise Edition,  
DEE = Dedicated Enterprise Edition  
SSE = Shared Standard Edition  
DSE = Dedicated Standard Edition  
DEV = Development Servers or  
INT = Internally Used





Company Inc. - Oracle Instances

Last Snapshot: Nov 25, 2011

SID	Description	Environment	Host	Port	SYSTEM Password
ACOKDPP	ACO KDPrevent PROD	SEE	acokdpp.mycompany.com	1521	*****
AMCCRI	Amis CCR INT	SEE	amccri.mycompany.com	1521	*****
AMCCRP	Amis CCR PROD	SEE	amccrp.mycompany.com	1521	*****
AMDEPOTP	Amis DEPOT PROD	SEE	amdepotp.mycompany.com	1521	*****
AMMBCP	Amis MBC PROD	SEE	ammhcp.mycompany.com	1521	*****
AMZGKP	Amis ZGK PROD	SEE	amzgkp.mycompany.com	1521	*****
CFIDBI	CFIDB INT	SEE	cfidbi.mycompany.com	1521	*****
CFIDBP	CFIDB PROD	SEE	cfidbp-scan.mycompany.com	1530	*****
CFIDBT	CFIDB PROD Backup	DEE	cfidbt.mycompany.com	1521	*****
FD1	SAP FD DEV	SEE	fd1.mycompany.com	1521	*****
FFPMBCP	FFP MBC Prod	SEE	ffpmbcp.mycompany.com	1521	*****

It contains Info like Oracle SID, what type of instance this is, DEE = Dedicated Enterprise Edition, DSE = Dedicated Standard Edition, SEE = Shared Enterprise Edition, SSE = Shared Standard Edition, DEV = Development Instances or INT = Internal Enterprise or Standard Edition (might be the Enterprise Manager Instance, a RMAN Instance or a SnapManager for Oracle Instance as an example). It also contains a short description for the Instance. This is usually related to an Application and/or Production/Integration/Test Instance.

 Indicates that this is a Cluster (RAC),  indicates that it's a normal standalone Instance.

System password (used to monitor and increase Tablespaces). This password is encrypted in the OTR repository. To check if the password is OK, just click on the . It will turn  if OK otherwise . If there is an  icon this means that the Instance is in Blackout status and no snapshots or Tablespace checks will be done on the Instance.

When Adding or Editing an Instance you don't need to add hostname and listener port if you have an Enterprise Manager configured. This will be picked up twice a day with the current info directly from the Enterprise Manager repository. If you don't have any Enterprise Manager these entries are required to be defined otherwise OTR have no possibility to connect to the remote Instance.

During Setup of OTR and with Enterprise Manager configured and available these values will be available and stored on the OTR repository.

The screenshot shows the 'My Company Inc. - New Oracle Instance' form. The top navigation bar includes 'Customers', 'DB Instances', 'DB Hosts', 'Tablespaces', 'TBS Trend', 'New Snapshot', 'Del Snapshot', and 'Enterprise Manager'. The OTR logo and 'Last Snapshot: 18.11.2011' are in the top right. The form fields are: Oracle SID (empty), Environment (dropdown menu), Description (dropdown menu), SYSTEM Password (dropdown menu), Hostname (dropdown menu), Listener Port (dropdown menu), ASM Storage (dropdown menu), RAC Instance (checkbox), Service Name (text input), and Blackout (checkbox). The 'Save' and 'Reset' buttons are at the bottom.

The screenshot shows the 'My Company Inc. - Edit Oracle Instance' form. The top navigation bar and OTR logo are the same as the previous screenshot. The form fields are: Oracle SID (CFIDBP), Environment (dropdown menu), Description (CFIDB PROD), SYSTEM Password (masked with dots), Hostname (cfidbp-scan.mycompany.com), Listener Port (1530), ASM Storage (checked), RAC Instance (checked), Service Name (cfidbp.mycompany.com), and Blackout (checkbox). The 'Update' and 'Reset' buttons are at the bottom.

## DB Hosts

### Main screen for DB Hosts

[Customers](#) [DB Instances](#) [DB Hosts](#) [Tablespaces](#) [TBS Trend](#) [New Snapshot](#) [Del Snapshot](#) [Enterprise Manager](#)

  
Last Snapshot: 18.11.2011

DB Instances and the physical location... The report lists the location as of last Friday or the latest snapshot

**Company Inc. - Oracle Hosts & Instances**

Host	SID	Release
delios.mycompany.com	FFPMBCP	10.2.0.4.0
delios.mycompany.com	GWGMBCP	11.2.0.2.0
delios.mycompany.com	HYPMBCP	10.2.0.3.0
delios.mycompany.com	HYPZGKP	10.2.0.3.0
hyperion.mycompany.com	AMCCRI	10.2.0.4.0
hyperion.mycompany.com	AMCCRP	10.2.0.4.0
hyperion.mycompany.com	AMDEPOTP	10.2.0.4.0
hyperion.mycompany.com	AMZGKP	10.2.0.4.0
hyperion.mycompany.com	FD1	10.2.0.4.0
hyperion.mycompany.com	FI1	10.2.0.4.0
hyperion.mycompany.com	FP1	10.2.0.4.0

This is simply a list of which Instance is running on which physical host and which release it is as of the latest snapshot, usually the automated Friday snapshot. A pdf file will be generated on a weekly basis to keep track of where an Instance once where in case of DB Instances has to get moved around and you have had some setup or maintain scripts stuffed away on the previous server.

## Tablespaces

This is the heart of OTR. Here the connection between Customer, DB Instance and the Tablespaces are made.

### Tablespaces main screen

Here you define the relationships between Customers, Instances and one or more Tablespace(s)

**My Company Inc. - Oracle Customer/App/Tablespace**

Export Result as CSV - Export Result to Excel - Upload a new CSV or XLS(X)

#	Customer	Application	SID	Tablespace	Warning	Critical
1	AAA	ACO KDPrevent PROD	ACOKDPP	APPL_DATA	85	97
2	AAA	ACO KDPrevent PROD	ACOKDPP	APPL_IDX	85	97
3	AAA	ACO KDPrevent PROD	ACOKDPP	TSAL_DEFAULT	85	97
4	AAA	ACO KDPrevent PROD	ACOKDPP	TSAR_DEFAULT	85	97
5	AAA	ACO KDPrevent PROD	ACOKDPP	TSAR_TRANSACTION	85	97
6	AAA	ACO KDPrevent PROD	ACOKDPP	TSDR_DEFAULT	85	97
7	AAA	ACO KDPrevent PROD	ACOKDPP	TSDR_DYNAMIC	85	97
8	AAA	ACO KDPrevent PROD	ACOKDPP	TSET_DEFAULT	85	97
9	AAA	ACO KDPrevent PROD	ACOKDPP	TSKDMATCH_DEFAULT	85	97
10	AAA	ACO KDPrevent PROD	ACOKDPP	TSKDMATCH_IDX	85	97
11	AAA	ACO KDPrevent PROD	ACOKDPP	TSMD_DEFAULT	85	97

The source for this information can be a .CSV file or an Excel Document. This file will be uploaded to the OTR repository server. In case of an Excel source the file will be converted into a .csv file and stored on a defined location where it will be used as source for an external table.

### Upload CSV or XLS(X)

Upload a new CSV or XLS

Upload Tablespace Info from an Excel or a CSV File.

ACOKDPP APPL\_DATA

**My Company Inc. - Oracle Tablespace Usage CSV or XLS Upload**

CSV/XLS File:  Browse...

Upload Reset

The .CSV contains 6 fields/row and will have the following structure:

```
AAA;Amis CCR INT;AMCCRI;TSDATLARGE;85;97
AAA;Amis CCR INT;AMCCRI;TSDATNORM;85;97
AAA;Amis CCR INT;AMCCRI;TSDATSN;85;97
AAA;Amis CCR INT;AMCCRI;TSIDX;85;97
```

It contains the Customer ID, The Instance Description, OraSID, Tablespace name, Warning threshold and Critical threshold.

The other possibility and also the easiest way, is to keep this info in an Excel sheet.

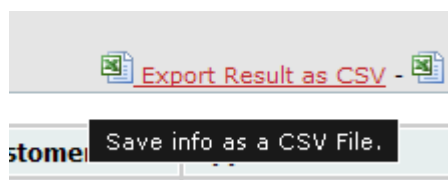
	A	B	C	D	E	F
1	AAA	ACO KDPrevent PROD	ACOKDPP	APPL_DATA	85	97
2	AAA	ACO KDPrevent PROD	ACOKDPP	APPL_IDX	85	97
3	AAA	ACO KDPrevent PROD	ACOKDPP	TSAL_DEFAULT	85	97
4	AAA	ACO KDPrevent PROD	ACOKDPP	TSAR_DEFAULTL	85	97
5	AAA	ACO KDPrevent PROD	ACOKDPP	TSAR_TRANSACTION	85	97
6	AAA	ACO KDPrevent PROD	ACOKDPP	TSDR_DEFAULT	85	97
7	AAA	ACO KDPrevent PROD	ACOKDPP	TSDR_DYNAMIC	85	97
8	AAA	ACO KDPrevent PROD	ACOKDPP	TSET_DEFAULT	85	97
9	AAA	ACO KDPrevent PROD	ACOKDPP	TSKDMATCH_DEFAULT	85	97
10	AAA	ACO KDPrevent PROD	ACOKDPP	TSKDMATCH_IDX	85	97
11	AAA	ACO KDPrevent PROD	ACOKDPP	TSMD_DEFAULT	85	97
12	AAA	ACO KDPrevent PROD	ACOKDPP	TXAL_DEFAULT	85	97
13	AAA	ACO KDPrevent PROD	ACOKDPP	TXAR_DEFAULT	85	97
14	AAA	ACO KDPrevent PROD	ACOKDPP	TXAR_TRANSACTION	85	97
15	AAA	ACO KDPrevent PROD	ACOKDPP	TXDR_DEFAULT	85	97
16	AAA	ACO KDPrevent PROD	ACOKDPP	TXDR_DYNAMIX	85	97
17	AAA	ACO KDPrevent PROD	ACOKDPP	TXET_DEFAULT	85	97
18	AAA	ACO KDPrevent PROD	ACOKDPP	TXMD_DEFAULT	85	97

The content in Excel is the same as for the .csv

Company ID, Instance description, OraSID, Tablespace name, Warning and Critical thresholds.

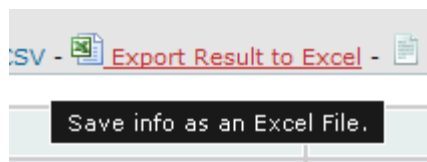
### Export as CSV

This info can also be exported locally as either a .csv file



### Export as XLS

Or as an Excel document



## TBS Trend

This will display the trend of growth graphically in a Bar chart.

### Main screen for Tablespace Usage Trends

Customers DB Instances DB Hosts Tablespaces **TBS Trend** New Snapshot Del Snapshot Enterprise Manager

Here you can see the Trend in growth of the tablespace usage as a Bar chart.

**My Company Inc. - Instance Tablespace Trend**

Instance:  Year:  From:  To:

Copyright © 2010 - 2011 NETWORK 23  
Powered By: OpenBD Version: 2,1 - OpenBD Build: 2011-11-22 01:00:56 GMT  
Open BlueDragon Administrator

OTR  
Last Snapshot: 18.11.2011

### Trend defined by 2 snapshots

Statistical data can be displayed from a time period between 2 snapshots.

**My Company Inc. - Instance Tablespace Trend**

Instance:  1 snapshot / Month: ☐ Year:  From:  To:

Copyright © 2010 - 2011 NETWORK 23  
Powered By: OpenBD Version: 2,1 - OpenBD Build: 2011-11-22 01:00:56 GMT  
Open BlueDragon Administrator

### Trend defined on a Monthly basis

This will pick the last snapshot from each month within the selected year.

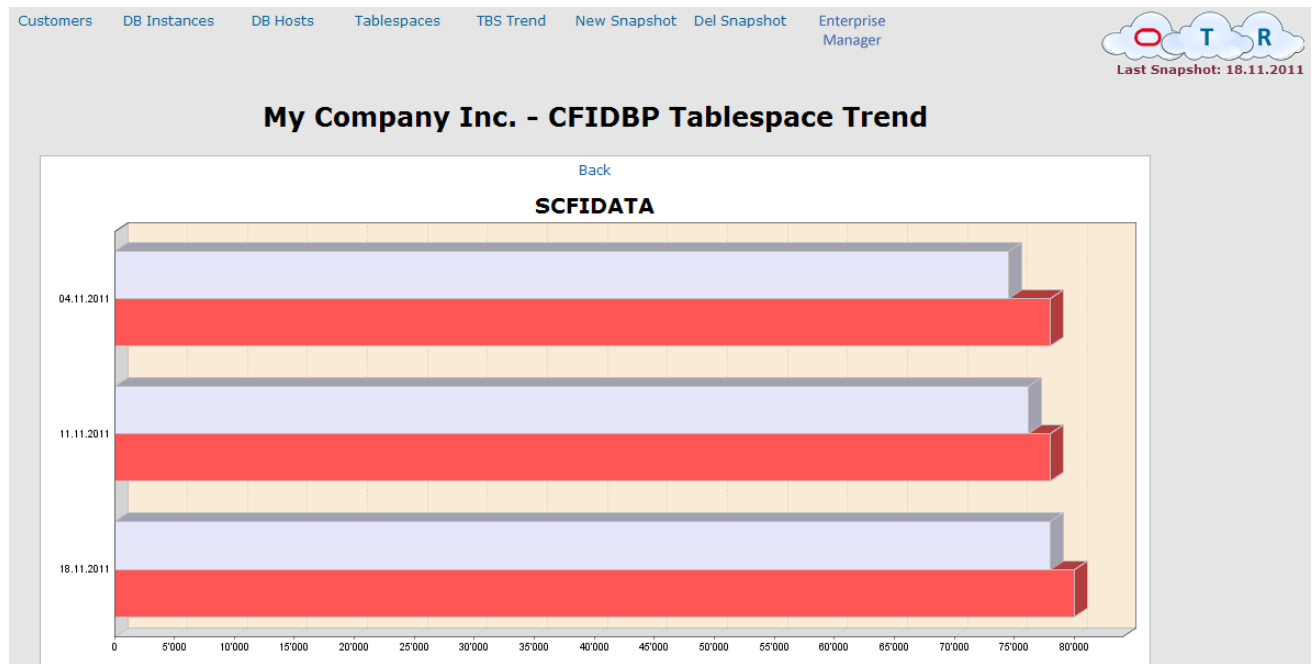
**My Company Inc. - Instance Tablespace Trend**

Instance:  1 snapshot / Month: ☒ Year:  From:  To:

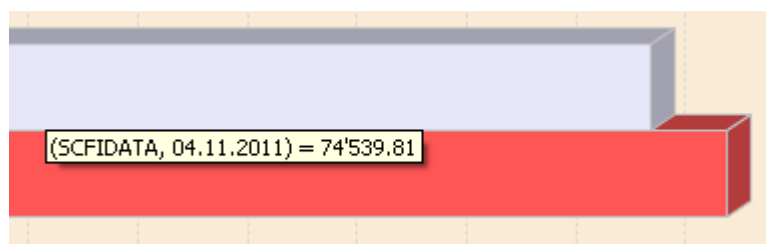
Copyright © 2010 - 2011 NETWORK 23  
Powered By: OpenBD Version: 2,1 - OpenBD Build: 2011-11-22 01:00:56 GMT  
Open BlueDragon Administrator

## Graphical Output

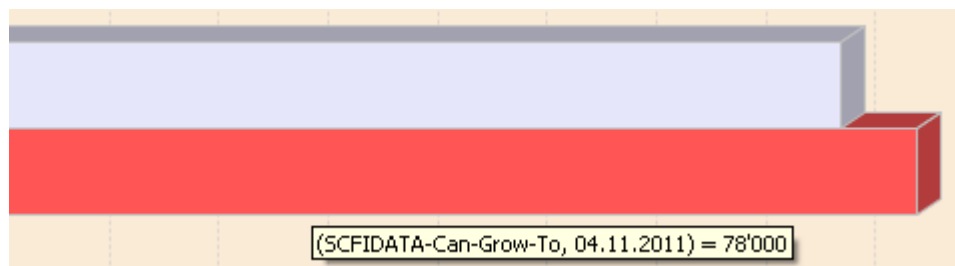
The output will display the output as a bar-chart.



The currently used space in the tablespace...



and the size the tablespace can grow to.





## Snapshots

The statistics is stored in the OTR repository as a snapshot. This is done as a weekly Scheduled job defined in the OpenBD Administrator. This job should be scheduled shortly before Friday Midnight.

Snapshots can also be generated manually.

The screenshot shows the 'New Snapshot' page for 'My Company Inc. - Oracle Tablespace Report'. The page has a navigation bar with links: Customers, DB Instances, DB Hosts, Tablespaces, TBS Trend, New Snapshot (active), Del Snapshot, and Enterprise Manager. A message box states: 'This will generate a new snapshot with today's date, containing Tablespace and NFS Storage usage.' The main form includes a 'Report Date' dropdown set to '18.11.2011', a 'Customer' dropdown set to 'ALL', and two checked checkboxes: 'Include: Development DB's' and 'Internal DB's (GridControl & SnapManager for Oracle)'. A 'Run Report' button is present. A 'Current Status' table shows 'SID: CFIDBT' and 'Status: TBS'. A note says 'Updated every 5 Minutes. For more Info... MouseOver the Status column.' with links 'All | Trouble'. The footer includes copyright information: 'Copyright © 2010 - 2011 NETWORK 23', 'Powered By: OpenBD Version: 2,1 - OpenBD Build: 2011-11-22 01:00:56 GMT', and 'Open BlueDragon Administrator'.

Only one snapshot / day will be stored, so creating a new snapshot again on the same day will simply delete the previous one and create a new snapshot for that day.

## No Friday snapshots!

This screenshot is similar to the previous one but includes a warning message: 'No manually generated snapshots on a Friday!'. The 'Report Date' dropdown is empty, and the 'Customer' dropdown is also empty. A cartoon illustration of a person looking at a calendar is shown. The status table remains the same. The footer is identical to the previous screenshot.

Since Fridays are our scheduled snapshot day you are not allowed to create manual snapshots on this day. It's possible to delete manually generated snapshots but not the Friday snapshots.

The screenshot shows the 'Delete Tablespace Snapshot' page. The navigation bar is the same. A message box states: 'Delete a specific snapshot. You can not delete Friday snapshots.' The main form has a 'Report Date' dropdown set to '22.11.2011' with a note 'Friday Snapshots are not listed'. A 'Delete Snapshot' button is present. The footer is identical to the previous screenshots.

## Enterprise Manager

Since we're DBA's we of course need access to our "real" toolbox. Therefore we have a direct link to the login for Oracle® Enterprise Manager.

[Customers](#) [DB Instances](#) [DB Hosts](#) [Tablespaces](#) [TBS Trend](#) [New Snapshot](#) [Del Snapshot](#) [Enterprise Manager](#)

  
Last Snapshot: 22.11.2011

This is a direct Link to the Oracle Enterprise Manager

### My Company Inc. - Oracle Tablespace Report

Report Date: 22.11.2011

Customer: ALL

Include: ☒ Development DB's ☒ Internal DB's (GridControl & SnapManager for Oracle)

Run Report

Current Status

SID	Status
CFIDBT	TBS

Updated every 5 Minutes  
For more Info...  
MouseOver  
the Status column.

[All](#) | [Trouble](#)

Copyright © 2010 - 2011 NETWORK 23

Powered By: OpenBD Version: 2,1 - OpenBD Build: 2011-11-22 01:00:56 GMT

Open BlueDragon Administrator

## How do we get started?

First of all we need to setup the repository OTR schema and the objects used for the repository, assuming of course that Enterprise Manager is already installed!

### DDL Scripts

These scripts are located under DOC\OTR-Reporting\Setup\DDL but since OTR.Local isn't installed yet you can download these scripts from <http://www.project-otr.org/> under the menu OTR.Local

```
OTR_TBS_UPGRADE.sql
OTR_DB_SPACE_REP_SCHEMA.sql
OTR_DB_SPACE_REP_DDL.sql
OTR_CR_VIEW_TBS_FREE.sql
OTR_CR_VIEW_DB_HOST.sql
OTR_DB_SPACE_REP_DROP_DDL.sql
OTR_DB_SPACE_REP_TBS+SCHEMA_CLIENT.sql
```

### OTR\_TBS\_UPGRADE.sql

If this is an upgrade and your old OTR is still using an EXTERNAL TABLE for the Customer/Instance/Tablespace relationship you need to run this upgrade script. It will create a new normal Table for the Customer/Instance/Tablespace relationship and also copy the old tablespace info from the old table over to this new Table. It will also add a new snapshot Table which will contain statistics about ASM Storage. Some of the other old tables will get some new fields.

```
>@OTR_DB_SPACE_REP_SCHEMA.sql
Enter Database Alias for the OTR Repository [OTR]: SMO
Enter Password for user OTRREP: ****
```

If this is a new setup then just run the scripts described below.

### OTR\_DB\_SPACE\_REP\_SCHEMA.sql

The first script to run is the OTR\_DB\_SPACE\_REP\_SCHEMA.sql which will create new tablespace(s) for the OTR Repository, Create the schema owner OTRREP and setup the grants needed.

It looks like it expects to place the Tablespaces for the OTRREP schema using normal mounts, typical NFS mounts. If Repository Database is using ASM one simple just enter the Disk Group name instead. E.g. +SMO\_DATA\_DG

**NOTE:** To avoid any license problems make sure not to use the Enterprise Manager Repository Instance for your OTR Repository!

```
>@OTR_DB_SPACE_REP_SCHEMA.sql
Enter Database Alias for the OTR Repository [OTR]: SMO
Enter Password for user SYS: ****
Enter path for the otr_rep_data01.dbf [/u01/oradata/otr_db/OTR]: /u01/oradata/smo_db/SMO
Enter path for the otr_rep_indx01.dbf [/u01/oradata/otr_db/OTR]: /u01/oradata/smo_db/SMO
OTR Datafiles will be placed under
/u01/oradata/smo_db/SMO/otr_rep_data01.dbf
/u01/oradata/smo_db/SMO/otr_rep_indx01.dbf
If this is correct press Enter otherwise Ctrl+C
```

Choose the OTRREP user's Temporary tablespace.

TABLESPACE_NAME	CONTENTS	DB	DEFAULT	TEMP	TABLESPACE
TEMP	TEMPORARY	*			

Pressing <return> will result in the database's default Temporary tablespace (identified by \*) being used.

Enter Temporary TABLESPACE Name: TEMP

... Creating OTRREP user

Entering SYSTEM or SYSAUX as Temporary Tablespace will generate an Error and the script stops.

### OTR\_DB\_SPACE\_REP\_DDL.sql

Next script to run is the OTR\_DB\_SPACE\_REP\_DDL.sql

```
>@OTR_DB_SPACE_REP_DDL.sql
Enter Database Alias for the OTR Repository [OTR]: SMO
Enter Password for user OTRREP: *****
```

This script will create all tables used to store the repository data.

This script will also call the 2 scripts OTR\_CR\_VIEW\_TBS\_FREE.sql and OTR\_CR\_VIEW\_DB\_HOST.sql.

### Done with Step 1

This rounds up the first part and we have to download the OTR.Local.

## Web Frontend using Open BlueDragon

For the Web frontend of OTR.Local we need the server software from the OpenBD project. OpenBD is the world's first truly open source GPL Java and Google App Engine CFML runtime. CFML is a powerful tag/script based language that takes away all the heavy lifting of producing highly scalable web and email based services and sites.

### Download OpenBD-OTR.Local

At <http://www.project-otr.org/> we need to download the OpenBD-OTR.Local. This contains OpenBD.Local, JRE, OpenBD and the OTR Web GUI all nicely packed up in a standard Windows Installer.

NOTE: If you have installed the old version of OpenBD-OTR.Local, please uninstall this before you install the release 2.0. Please make a notice of the changes you have made in the file C:\Network23\OpenBD-OTR\webapp\otr \Application.cfc before you run the uninstaller.



Agree to the GNU 3 License Agreement and select where to install OpenBD-OTR.

Default it will put OTR under C:\ProjectOTR\OpenBD-OTR.

The installation will create a Start Menu entry for you as well.

Before you start OpenBD-OTR you need to adjust one file in the Application folder.

In directory C:\ProjectOTR\OpenBD-OTR\webapp\otr locate the file Application.cfc

This file has to be adjusted to match your OTR and EM Repository.

## Make changes to the file Application.cfc to fit your Company and setup

Most all parameters for the OTR Application is defined in the file otr/Application.cfc

Update the following settings.

### Oracle Settings

```
<!--- SQLNET.DEFAULT_DOMAIN for DB-Links --->
<cfset Application.oracle.domain_name = "MYCOMPANY.COM" />
<!--- Datasource Settings --->
<cfset Application.datasource = "OTR_OTRREP" />
<cfset Application.dbusername = "OTRREP" />
<cfset Application.dbpassword = "otrrep4otr" />
```

The **Application.oracle.domain\_name** should correspond to the SQLNET.DEFAULT\_DOMAIN within your Oracle environment.

If you change the password for the Schema Owner OTRREP it needs to be changed here also.

### Mail Server Settings

```
<!--- MailServer Settings --->
<cfset Application.mailserver = "smtp.mycompany.ch" />
<cfset Application.mailport = "25" />
<cfset Application.mailtimeout = "60" />
<!--- Mail address for DBA or DBA Group --->
<cfset Application.dba_group_mail = "DB-Services@mycompany.com" />
```

**Application.mailserver** is the host of your mail server. If this parameter is left empty **no** mails will be sent when a Tablespace gets extended.

**Application.mailport** is the SMTP Port used by the mail server. Usually this is port 25.

**Application.mailtimeout** is the number of seconds to wait before timing out the connection to the SMTP server.

**Application.dba\_group\_mail** is the mail address for the DBA or a DBA Group mail account. The mail will also be sent from this account.

If the mail server is configured, OTR will send an E-mail each time a Tablespace is adjusted. The content of the mail will be something like:

Subject: Tablespace **TBSNAME** on **ORASID** just got another 2GB!

Tablespace **TBSNAME** on Instance **ORASID** was just extended with 2GB more.

**ORASID** is located on host **mydbhost.mycompany.com**

Please make sure there is enough storage space available for this tablespace to grow.

## Company Settings

```
<!-- Company Settings --->
<cfset Application.company = "My Company Inc." />
<!-- Excel Document Info --->
<!-- Foreign Characters for Excel
    ß = chr(223)
    å = chr(229)
    ä = chr(228)
    ö = chr(246)
    Å = chr(197)
    Ä = chr(196)
    Ö = chr(214) --->
<cfset Application.excel_doc_info_author = "Mats Str#chr(246)#mberg" />
<cfset Application.excel_doc_info_subject = "Customer Tablespace Usage" />
<cfset Application.excel_doc_info_title = Application.company & " - Tablespace Report" />
<cfset Application.excel_doc_info_lastauthor = "ustr" />
```

**Application.company** is Your Company Name. This will be displayed on every screen in the application.

**Application.excel\_doc\_info\_xxx** will be used as document info when generating Excel files. Some character values are provided for foreign character which Excel will understand.

## Snapshots

```
<!-- Snapshot Day / Sunday = 1 --->
<cfset Application.snapshot_day = 6 /><!-- 6 = Friday --->
```

It's possible to change the snapshot day but it's not really recommend.

The week starts on Sunday = 1 and stops on Saturday = 7

## General Settings

```
<!-- General Application Settings --->
<cfset Application.obd_host = "http://minerva:8080/" />
<cfset Application.obd_desktop_host = "http://localhost:8080/" />

<cfset Application.ogc_logon_url = "http://minerva:4889/em/console/logon/logon" />
<cfset Application.host_instance_pdf_dir = "/opt/OpenBD/tbsreports/" />
```

**Application.obd\_host** is the host of the OTR web server. If Jetty isn't re-configured for port 80 this should contain the correct port number. <http://YourServer:8080/>

**Application.obd\_desktop\_host** is the host of the the OpenBD-OTR Application... e.g. your PC.

**Application.ogc\_login\_url** is the URL for your Enterprise Manager login screen.

**Application.host\_instance\_pdf\_dir** is the location where the weekly PDF reports will be located.

## Tablespace Warning Settings

```
<!--- Tablespace Warning Levels --->
<cfset Application.tablespace.mb_left = 1800 />

<!--- Tablespace Warning Levels --->
<cfset Application.monitoring_cycle = 5 />
```

**Application.tablespace.mb\_left** is default set to **1800** MB.

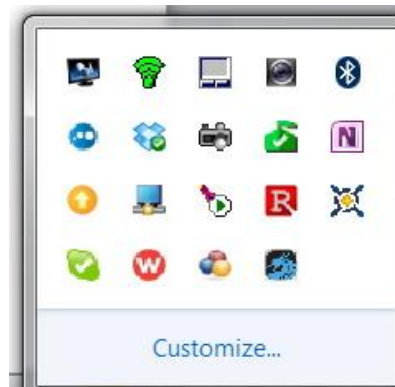
**Application.monitoring\_cycle** is the number of minutes between each tablespace check. Default is 5 Minutes.

With these settings correctly configured for your environment you are now ready to test the setup of OpenBD-OTR.Local.



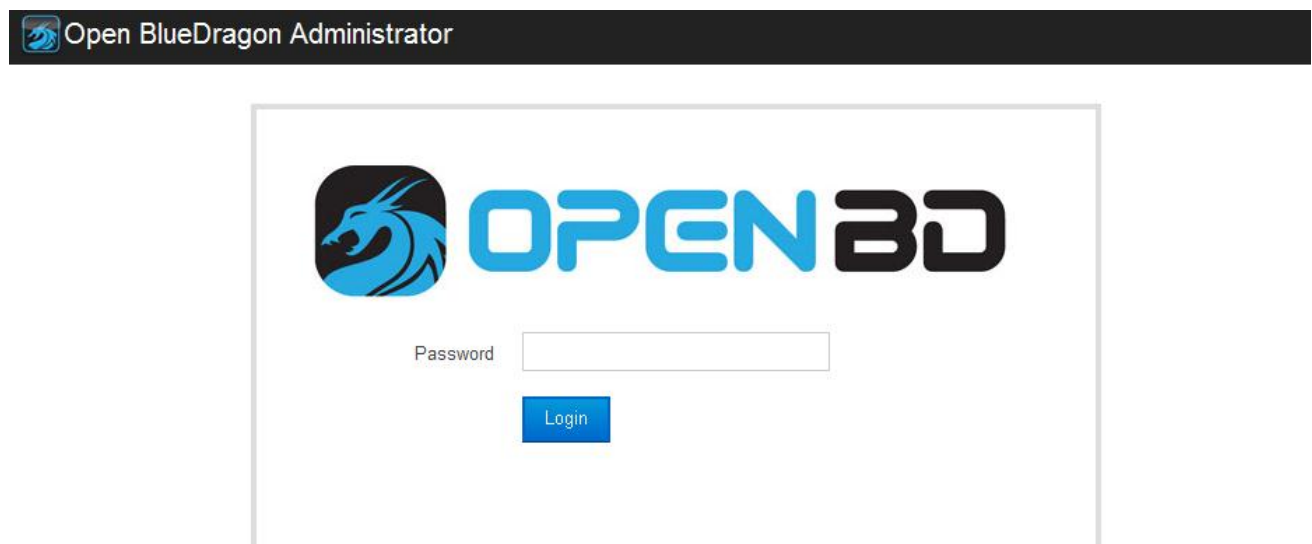
## Test your OpenBD Installation

Start the OpenBD-OTR from the start menu and you will see a new icon in the system tray.



You can either right-click on the OpenBD Icon and select Open... or manually start your web browser and goto the URL <http://localhost:8080>

You should on the Open BlueDragon Administrator login screen if your Installation was successful.



By default Jetty, like most every Java Server, is configured to use port 8080. You can easily change this to port to something else but be aware of that port 80 most likely will already be in use and you will have a conflict using this port.

## Change listener port for Jetty

If you prefer to use port 80 instead of port 8080 simple stop the OpenBD Server again by right-click on the Open BlueDragon Icon and select close.

Go into the C:\Program Files\OpenBD-OTR directory and edit the file openbd-local.ini

```
#
#
#
#
#
#
# http://openbd.org/local/
#
#
# The name of the application
app.title=OpenBD:OTR
#
# The port number of the local server
web.port=8080
#
# Restrict the server to only the local server
web.localonly=true
#
# The path of where the webapp lives
web.root=./webapp/
```

Change the web.port to 80 and start OpenBD-OTR again from the start menu.

From now on your OpenBD should respond on standard port 80

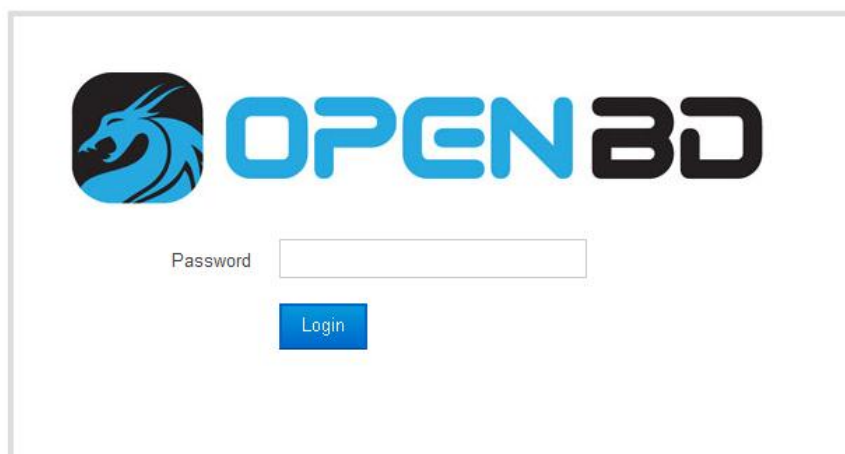
## Configuring OpenBD for OTR

First we need to define 2 Datasources for OTR to be able to communicate with the OGC and OTR Repositories.

### Login to OpenBD Administrator

Go to the URL, with or without the portnumber depending on if you reconfigured your OpenBD.Local Setup or not, [http:// localhost\[:8080\]](http://localhost[:8080])

 Open BlueDragon Administrator



The default Password is **admin**

## OpenBD Administrator Main Screen

### Welcome to the Open BlueDragon Administrator

Open BlueDragon is an open source (GPLv3), Java-based runtime engine for CFML. For more information on the Open BlueDragon project, please visit the [Open BlueDragon web site](#) and the [Open BlueDragon Google Group](#).

You may use the OpenBD Administrator to manage many OpenBD settings such as datasources, scheduled tasks, mail server settings, directory mappings, custom tag paths, and much more.

For more information on the Open BlueDragon Administrator or to obtain a newer version of the Administrator, please visit the [Open BlueDragon Admin Console project at Google Code](#).

#### Documentation

For the latest OpenBD documentation you may refer to the [OpenBD Manual](#) that is bundled with OpenBD and runs locally, or the following resources:

- [OpenBD Web Site](#)
- [OpenBD Wiki](#)
- [OpenBD CFML Manual](#) (generated from nightly builds)
- [OpenBD Cookbook](#)

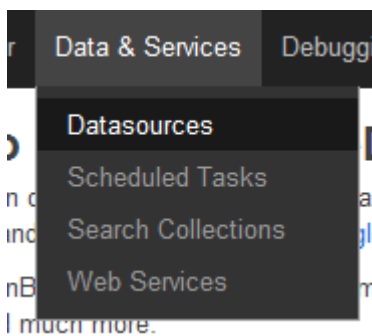
#### Requesting Features and Reporting Bugs

- [OpenBD Google Group](#)
- [OpenBD Issue Tracker](#)
- [OpenBD Admin Console project at Google Code](#)
- [CFML Conventional Wisdom](#) (general CFML language discussion group)

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Version 2.0 - Nov 11, 2011 12:00 AM

To add new Datasources select the menu Data & Services



### Add Datasource OTR\_OTRREP

#### Manage Datasources

[More Info](#)

##### Add a Datasource

Datasource Name

Database Type

#### Datasources

No registered datasources

*No datasources configured*

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Version 2.0 - Nov 11, 2011 12:00 AM

Datasource Name: **OTR\_OTRREP** and Type is of course **Oracle** and click **Add Datasource**

## Adding connection info

### Configure Datasource - Oracle (Oracle)

Datasource Details	
OpenBD Datasource Name	<input type="text" value="OTR_OTRREP"/>
Database SID	<input type="text" value="SMO"/>
Database Server	<input type="text" value="theia.mbczh.ch"/>
Server Port	<input type="text" value="1521"/>
User Name	<input type="text" value="OTRREP"/>
Password	<input type="password" value="....."/>
Description	<input type="text" value="OTR Oracle Tablespace Report"/>

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Version 2.0 - Nov 11, 2011 12:00 AM

Database SID: **<Your OTR OracleSID>**

Database Server: **<Host of your OTR Instance>**

Server Port: **<Listener Port for your OTR Instance>**

User Name: **OTRREP**

Password: **otrrep4otr**

Description: **OTR Oracle Tablespace Report**

## Manage Datasources

[More Info](#)

The datasource was created successfully.



### Add a Datasource

Datasource Name	<input type="text"/>
Database Type	<input type="text" value="- select -"/>

### Datasources

Actions	Datasource Name	Description	Database Type	Status
	OTR_OTRREP	OTR Oracle Tablespace Report	Oracle (Oracle)	

## Manage Datasources

[More Info](#)

The datasource was created successfully.



## Add a Datasource

Datasource Name

OTR\_SYSMAN

Database Type

Oracle (Oracle)

[Add Datasource](#)

## Datasources

Actions	Datasource Name	Description	Database Type	Status
	OTR_OTRREP	OTR Oracle Tablespace Report	Oracle (Oracle)	
<a href="#">Verify All Datasources</a>				

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Version 2.0 - Nov 11, 2011 12:00 AM

Datasource Name: **OTR\_SYSMAN** and the type **Oracle** and click **Add Datasource**

## Configure Datasource - Oracle (Oracle)

Datasource Details	
OpenBD Datasource Name	OTR_SYSMAN
Database SID	OGC2ICB
Database Server	theia.mbczh.ch
Server Port	1521
User Name	SYSMAN
Password	.....
Description	Used to generate TBS/NFS Space Usage Reports
<a href="#">Show Advanced Settings</a> <a href="#">Submit</a> <a href="#">Cancel</a>	

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Version 2.0 - Nov 11, 2011 12:00 AM

User Name: **SYSMAN** <User on your OGC Instance!!!>

Password: <**SYSMAN Password**>

Description: **Used to generate TBS/NFS Space Usage Reports**

## Test the new Datasources

### Manage Datasources

[More Info](#)

The datasource was created successfully.



#### Add a Datasource

Datasource Name

Database Type

- select -

Add Datasource

#### Datasources

Actions	Datasource Name	Description	Database Type	Status
	OTR_OTRREP	OTR Oracle Tablespace Report	Oracle (Oracle)	
	OTR_SYSMAN	Used to generate TBS/NFS Space Usage Reports	Oracle (Oracle)	
<p>Verify All Datasources</p>				

By clicking on [Verify All Datasources](#) you will get a confirmation of the settings and if they are OK

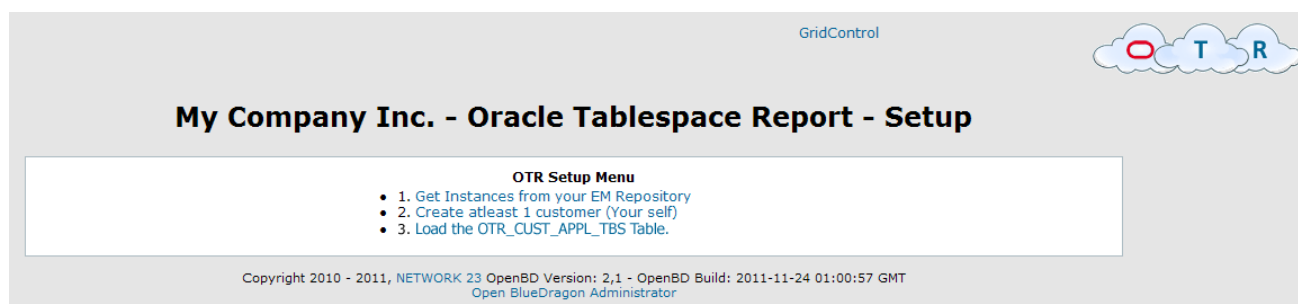
#### Datasources

Actions	Datasource Name	Description	Database Type	Status
	OTR_OTRREP	OTR Oracle Tablespace Report	Oracle (Oracle)	✓
	OTR_SYSMAN	Used to generate TBS/NFS Space Usage Reports	Oracle (Oracle)	✓
<p>Verify All Datasources</p>				

## Get your OTR ready for use

Now after the datasources are created you goto the <http://localhost:8080> again and the OpenBD-OTR.Local will need some basic setup (If this isn't done from some other client or the OTR Server)

To get your OTR ready to be used we now need to fill it with usable data.



## Get Instances from EM Repository

Since this is a new setup you won't have any database Instances in OTR. Start by selecting the menu [1. Get Instances from your EM Repository](#). When this step is done the link will be inactive.

## Create your first Customer

There are no customers in your OTR Repository. Select the menu [2. Create at least 1 customer \(Your self\)](#). When this step is done the link will be inactive.

## Create the Tablespace relationships

The relation between a Customer, DB Instance and a Tablespace is preferably done using an Excel sheet. As this is a new setup your external table source file doesn't exist yet.

By selecting the menu [3. Load the OTR\\_CUST\\_APPL\\_TBS Table](#) the system will connect to all your registered Instances (as user SYSTEM) and pick up all Tablespaces for each Instance. At this time Tablespaces SYSTEM, SYSAUX, TEMP and UNDO will not be selected.

Your setup is basically done now and you can use the menu Tablespaces and export this as XLS and edit this file locally on your PC.

Replace the Customer ID with correct Customer ID and save the Excel file. Finally upload the file again to OTR and your Tablespace list will now be usable.

## Add all your customers

Make sure to add all customers to your system and that the Customer ID is corresponding to your updated Excel file / External table source file. This will be needed when you create your first snapshot, may it be a manually created snapshot or the weekly generated snapshot.

## Define a Gather TBS/NFS Space Usage Statistics Job

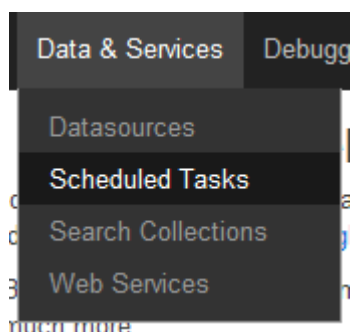
To get the weekly monitoring to collect the Tablespace usage statistics you should now define a Job in the OpenBD Administrator.

**NOTE:** Make sure only one workstation is doing this or using the Server Install of OTR for these jobs!!!

Login to the Administrator using the URL [http://your\\_server\[:port\]/bluedragon/administrator/](http://your_server[:port]/bluedragon/administrator/)

If you haven't changed the Administrator Password it will be **admin**.

Select the Menu Data & Services and the Scheduled Tasks



Enter **Gather TBS/NFS Space Usage Statistics** as Task Name.

A screenshot of the 'Edit Scheduled Task' form in the OpenBD Administrator. The form has several fields: 'Task Name' (Gather TBS/NFS Space Usage Statistics), 'Duration' (Start Date: 11/25/2011, End Date: ), 'Interval' (One Time, Recurring, Daily), 'Full URL' (http://minerv), and 'Port' ( ). A calendar pop-up is visible, showing November 2011, with the 25th (Friday) selected. The time field is set to 23:30.

The Job should be run on a Friday night so select a Date matching a Friday.

A screenshot of the 'Interval' section of the 'Edit Scheduled Task' form. The 'Recurring' radio button is selected. The frequency is set to 'weekly' and the time is set to '@ 23:30'. The 'Daily' option is also visible with fields for 'every' and 'seconds from'.

Define the job as a weekly recurring job starting at **23:30** (11:30 PM)



Enter [http://your\\_server\[:8080\]/otr/otr\\_friday\\_snapshot.cfm](http://your_server[:8080]/otr/otr_friday_snapshot.cfm) as Full URL

Full URL	<input type="text" value="http://minerva/otr/otr_friday_snapshot.cfm"/>
Port	<input type="text"/>

As request Timeout set the value to **120** seconds.

Request Timeout	<input type="text" value="120"/> seconds
<input type="button" value="Submit"/>	

### Define Job for creating Host/Instance PDF.

If you could like to have a weekly PDF generated containing info about which Instance is running on which Host, you can create this job over the OpenBD Administrator. The job should be generated on a weekly basis just as the Gather Statistics Job and be run just before or after Friday midnight, shortly after the [Gather TBS/NFS Space Usage Statistics](#) Job.

This step is not required but the information could be handy to have later on...

Define the Scheduling Task

Task Name: [Host Instance Report PDF](#). We'll define the Start Date to be on a Saturday.

Task Name	<input type="text" value="Host Instance Report PDF"/>	
Duration	Start Date: <input type="text"/>	End Date: <input type="text"/>
Interval	<div><input type="radio"/> One Time <input type="radio"/> Recurring <input type="radio"/> Daily every <input type="text"/></div>	
Full URL	<div><input type="text" value="http://"/> Port <input type="text"/></div>	

November 2011

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Set the Interval to **Weekly** at **01:00** which means that the job will be run on Saturday morning at 01:00 AM

Interval	<input type="radio"/> One Time @ <input type="text"/>
	<input checked="" type="radio"/> Recurring <input type="text" value="weekly"/> @ <input type="text" value="01:00"/>
	<input type="radio"/> Daily every <input type="text"/> seconds from <input type="text"/> to <input type="text"/>

The URL is: [http://your\\_server\[:port\]/otr/otr\\_db\\_host\\_pdf.cfm](http://your_server[:port]/otr/otr_db_host_pdf.cfm)

Full URL	<input type="text" value="http://your_server[:port]/otr/otr_db_host_pdf.cfm"/>
----------	--

Set the Request Timeout to **60** sec and click the Submit button.

Request Timeout	<input type="text" value="60"/>	seconds
<input type="button" value="Submit"/>		

Your job is now defined. You could test the job but since we don't have any statistical data collected yet it won't generate any PDF.

### Update Tablespace Thresholds from EM

Additionally you can setup a scheduled job for collecting the current thresholds of the tablespaces on your target DB's. This should be a daily job that could run at any time during the day. It will pick up any changes made to Tablespace thresholds done over the Enterprise Manager.

Task Name: [Update TBS Thresholds](#).

Starting Date could be set to Today.

The Interval should be set to Recurring daily and could be run @ 20:00

The URL is: [http://your\\_server\[:port\]/otr/otr\\_tbs\\_update\\_threshold.cfm](http://your_server[:port]/otr/otr_tbs_update_threshold.cfm)

And the Request Timeout should be set to **60**.

## Test your Setup.

As long as you're not testing your setup on a Friday you could now create your first Manual Snapshot. Required is of course that the relationship between Customer/Instance and Tablespace is done so the snapshot will have something to collect.

In the Web GUI of OTR select the menu option New Snapshot.

Customers DB Instances DB Hosts Tablespaces TBS Trend **New Snapshot** Del Snapshot Enterprise Manager

This will generate a new snapshot with today's date, containing Tablespace and NFS Storage usage.

**My Company Inc. - Tablespace Report**

Report Date: 18.11.2011

Customer: ALL

Include: ☒ Development DB's ☒ Internal DB's (GridControl & SnapManager for Oracle)

Run Report

**Current Status**

SID	Status
CFIDBT	TBS

Updated every 5 Minutes  
For more Info...  
MouseOver the Status column.

All | Trouble

Copyright © 2010 - 2011 NETWORK 23  
Powered By: OpenBD Version: 2,1 - OpenBD Build: 2011-11-22 01:00:56 GMT  
Open BlueDragon Administrator

Note: If no snapshots has been made you can't generate any usage reports!!!

If at least 1 Snapshot exists it's possible to run a Report.

First select the Report Date and for which Customer. It can be for All customers or for 1 specific customer. Also select to include (or not) Development DB's and/or Internal DB's like the Enterprise Manager or some other internal type of DB (SMO, RMAN etc.)

**My Company Inc. - Oracle Tablespace Report**

Report Date: 25.11.2011

Customer: My Company Inc.

Include: ☒ Development DB's ☒ Internal DB's (GridControl & SnapManager for Oracle)

Run Report

**Current Status**

SID	Status
-----	--------

Updated every 5 Minutes  
For more Info...  
MouseOver the Status column.

All | Trouble

Copyright © 2010 - 2011 NETWORK 23  
Powered By: OpenBD Version: 2,1 - OpenBD Build: 2011-11-22 01:00:56 GMT  
Open BlueDragon Administrator

The report output will contain info about Instance, Tablespace name, Used MB, Free MB, Can Grow To MB, Max Free MB, % Used and % Real used which reflects the Can grow to space.

<a href="#">Back to Main</a> <a href="#">Customers</a> <a href="#">DB Instances</a> <a href="#">DB Hosts</a> <a href="#">Tablespaces</a> <a href="#">TBS Trend</a> <a href="#">New Snapshot</a> <a href="#">Del Snapshot</a> <a href="#">Enterprise Manager</a>						
 Last Snapshot: Nov 25, 2011						
<h2 style="text-align: center;">My Company Inc. - Oracle Tablespace Reports</h2> <h3 style="text-align: center;">25.11.2011 - My Company Inc.</h3>						
AMCCRI AMCCRP AMDEPOTP CFIDBI CFIDBP CFIDBT HYPCCRP ICBCCRI ICBCCRP LEGCCRT OGC2ICB OTMSCCRT OTMSCCRX OTMSICBI OTMSICBP OTMSICNI OTMSICNX RECOMBCI RECOMBCP SMO SOL XENTISI XENTISP <a href="#">customer_report.xls</a> <a href="#">as PDF</a>						
<b>DB: AMCCRI      Client App(s): Amis CCR INT</b>						
<b>TABLESPACE</b>	<b>Used (MB)</b>	<b>Free (MB)</b>	<b>Can Grow To (MB)</b>	<b>Max Free (MB)</b>	<b>% Used</b>	<b>% Real Used</b>
TSDATLARGE	8,100	2,668.06	12,000	6,568.06	67 %	45 %
TSDATNORM	1,000	398.56	2,000	1,398.56	60 %	30 %
TSDATSN	500	373.44	2,000	1,873.44	25 %	6 %
TSIDX	8,900	3,444.31	10,000	4,544.31	61 %	55 %
Sub Total (MB):	<b>18,500</b>		<b>26,000</b>			Top
NFS Server: <b>kronos</b>	Mount: /u01/oradata/amccri_db		28,672	7,356	74 %	
NFS Server: <b>kronos</b>	Mount: /u02/oradata/amccri_log		6,144	4,621	25 %	
			<b>34,816</b>	<b>11,977</b>		
<b>DB: AMCCRP      Client App(s): Amis CCR PROD</b>						
<b>TABLESPACE</b>	<b>Used (MB)</b>	<b>Free (MB)</b>	<b>Can Grow To (MB)</b>	<b>Max Free (MB)</b>	<b>% Used</b>	<b>% Real Used</b>
TSDATLARGE	8,100	1,916.00	12,000	5,816.00	76 %	52 %
TSDATNORM	1,000	377.31	5,000	4,377.31	62 %	12 %
TSDATSN	500	368.44	2,000	1,868.44	26 %	7 %
TSIDX	8,900	1,317.00	10,000	2,417.00	85 %	76 %
Sub Total (MB):	<b>18,500</b>		<b>29,000</b>			Top

The report also contains NFS space usage in MB. How much space an NFS Volume has and how much free space is still available in MB. It also displays which NFS Server or Storage system is used.

One special feature for volumes created with NetApp's SnapManager for Oracle. The names of these volumes are usually not following your regular volume definition. If such a volume is used, it will be displayed with a dark red color. With a mouse-over on such a Mount name the real name of the volume will be displayed.

For example:

NFS Server: <b>kronos</b>	Mount: /u01/oradata/amccri_db	28,672	7,356	74 %
NFS Server: <b>kronos</b>	Mount: /u02/oradata/amccri_log	6,144	4,621	25 %
	<b>kronos:/vol/SnapManager_20100923141903532_vol_amccrp_db/qamccrp_db</b>	<b>16</b>	<b>11,977</b>	

This concludes the description of the basic Setup and usage of OTR.

Feel free to add functionality to OTR. Get the source code from Google code and join in on the development.

## Installing from SVN

Installing the OTR from Subversion

<http://code.google.com/p/oracle-tablespace-report/>

### Introduction

Development for the OTR Application is continuously underway, but if you want to try it out now (and we'd love it if you would!), you can grab the code from Subversion (SVN) and run it on your instance of OpenBD.

**NOTE:** Do NOT run bleeding edge code on a production or otherwise important instance of OpenBD! There is currently no security in place on the OTR, and any bugs that exist in the bleeding edge code could cause problems with your Oracle Databases.

### SVN Clients

If you don't have an SVN client, you'll need to get one. If you're a developer and you're already using [Eclipse](#), probably the simplest one to grab is [Subclipse](#). It will work on any platform (Linux, Mac, or Windows).

If you aren't on Eclipse, native clients are available for any platform, or you can run SVN from a terminal or DOS window.

One client that seems to be nice that is available for Linux, Mac, and Windows is [SyncroSVN](#). I haven't personally used it but a few Mac bloggers swear by it.

For Windows, the most popular client is [TortoiseSVN](#), which integrates directly into Windows file explorer.

For Mac, [Versions](#) looks very nice, but again, I haven't personally tried it. [svnX](#) is another popular client for Mac.

### Getting the Code from SVN

Once you have an SVN client installed, do a checkout from the SVN repository for this project. Details are available on the [checkout page](#). You'll want to grab the trunk.

### Where to Put the OTR

The OTR code resides in the webapps directory at the top of your OpenBD instance.

The easiest way to configure things is to have your local directory for the SVN project be the root of the instance of OpenBD on which you want to try out the OTR.

### Reporting Bugs

Since development is still happening rapidly at this point, expect to see a few bugs here and there, and also expect to be pulling the code down regularly to get the latest version of things.

If you do see a bug that's keeping you from using the admin console or think it might be something we aren't aware of, please report it on the [issues page](#).

## Requesting Features

If you have ideas for features you'd like to see in the admin console, no matter how big or small, we'd love to hear them! Please create an issue on the [issues page](#) and use the label Type-Enhancement

## OTR Philosophy

The group of people behind OTR (so far the group is only me and my dual personality 😊, hopefully this group will increase in the near future and preferably not the way where I have to incorporate a triple personality!), believe strongly in the ideals of the Open Source movement. We believe that software that is made available under an open source model, should always remain under that model, and never be abused or incorporated into products that would result in the harm of the original project.

To that end, we believe that any changes that anyone makes to the core engine should be contributed back to the community, for the benefit of the community as a whole. This is what the GPL license frames.

- How much does OTR cost?  
\$0.00 dollars/euros/pounds/yen. Zero. There is no cost for you to download, use, develop and extend OTR, deploy and ship your application.
- Can I sell OTR?  
No. You cannot sell OTR as it is not yours to sell. You may sell installation or consultancy services for OTR. You're also allowed to sell added functions to OTR, although we would prefer you would consider supporting the Open Source Project and contributing your added functionality.
- Okay, where's the catch? What features are you not shipping?  
There is no catch. All functionality in OTR is available to you the current release, or as and when they are developed. We believe in the power Oracle® and CFML language has to offer and we want to get it into the hands of as many DBA's and/or DB Engineers as possible.

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## Credits

OTR Web interface is using Drew Wilson's excellent TipTip jQuery Plugin

<http://code.drewwilson.com/entry/tiptip-jquery-plugin>

OTR Web interface is also using Christian Bach's excellent **tablesorter** jQuery Plugin

<http://tablesorter.com/docs/>

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