

NETWORK 23

# OTR - Oracle Tablespace Report

Open Source Project

Mats Strömberg

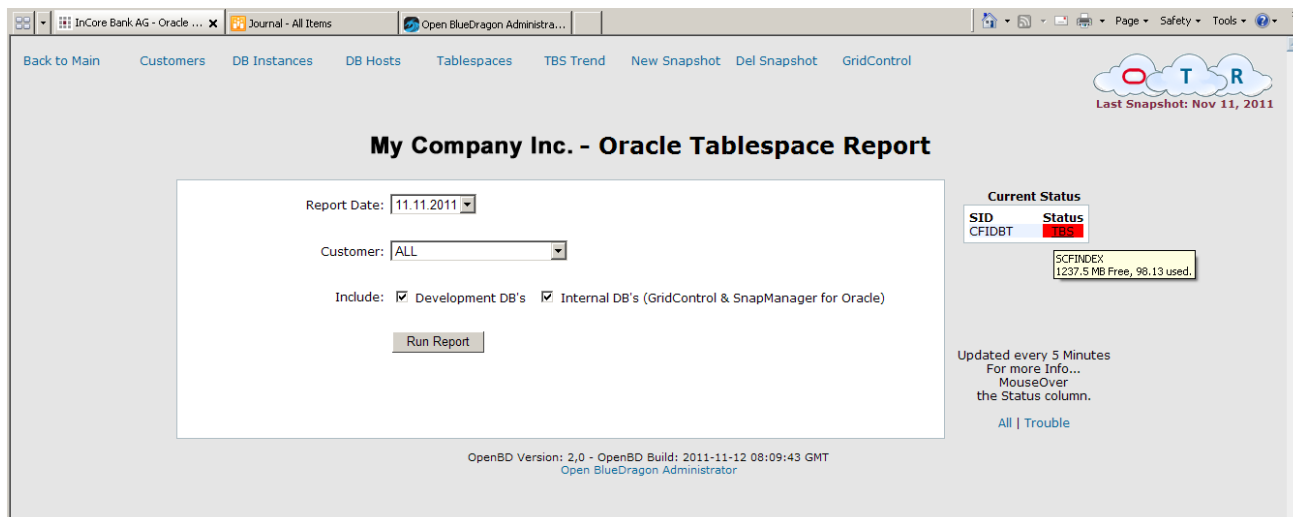
2011

<http://www.network23.net/otr/>

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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 at T-Systems Schweiz AG 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>)).

The need for the enhancement of this tool was due to the fact that I had roughly 80+ Oracle instances, about 100 Linux/Solaris Servers and 6 NetApp Storage systems to manage... all alone. (The advantage was that my Team meetings went very fast... didn't have to argue too much with my dual personality ☺).

This version of OTR does a bit more than just collect tablespace usage on a weekly basis. It monitors each database instance every 5 minutes and reports back if a tablespace is getting full and one can directly act on the upcoming problem, extend an tablespace or add a new tablespace file without the need to do this over the Enterprise Manager or manually.

Since I was all alone, having to manage this amount of databases, along with application servers and storage I needed a way of getting this kind of work as easy as possible. That way I could let anyone solve any acute problem coming up without me being around all the time. During 4 years in this company I haven't had more than roughly 2 weeks holiday/year... and those 2 weeks I get stuck having to solve issues over my Mobile phone.

The reason for putting this up as open source is thanks to the great Project run by the OpenBD Team. They have created a great tool which is a very serious alternative for Adobe ColdFusion and all at no cost. The team around this project is great and issues coming up are solved very fast. Support is done on Google Groups and there is always someone around helping out, core developers or regular users on the list... no matter who, you will always get help.

So if I can give something back to the OpenBD project and the community and at the same time help other DBA's making their work easier, this is a small step in that direction.

### **Short background about me...**

I've been working with ColdFusion since the mid 90'es back in the days when Jeremy and JJ Allaire were running the business. Started with Cold Fusion 2.0 and up to ColdFusion 4 (some time in the years between 3.1 and 4.0 the space disappeared in the ColdFusion name) and was, back then, an early adopter of the FuseBox framework.

In 1999 I moved from Sweden down to Switzerland and in 2001 came in contact with Oracle and for all with some really good Danish Oracle cracks like, Lars-Bo Vanting (now at BlueGecko in Denmark) and some of his Oracle friends, and have been working with Oracle 8.1.7 – 12g since then. I'm a big fan of the Oracle Enterprise Manager and later Oracle Grid Control (today Oracle Cloud Control). We still refer this as Enterprise Manager.

All these years though I never left the ColdFusion train. It has been more of a hobby since my daytime work has been around Oracle and System Administration, but the passion for the CFML world is there to stay.

## What's needed to get OTR running?

- Basis for the Oracle® Tablespace Report, from here on simply OTR, tool is the Oracle® Enterprise Manager 10g 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!!!

I'm about to do tests on the Oracle® Cloud Control 12c and make sure we're able to use this as well...

- Open Bluedragon release 2.0.1 can be downloaded at <http://www.openbd.org/download/>

The easiest installation is using the Ready2Run Jetty+OpenBD download. Recommended is to download the OpenBD Desktop as well. With this you will be able to simply test and make additions on your own on your local PC or workstation.

- JDK 6
- The otr.war which can be found at <http://www.network23.net/otr/>

The complete source will be 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.network23.net/otr/>

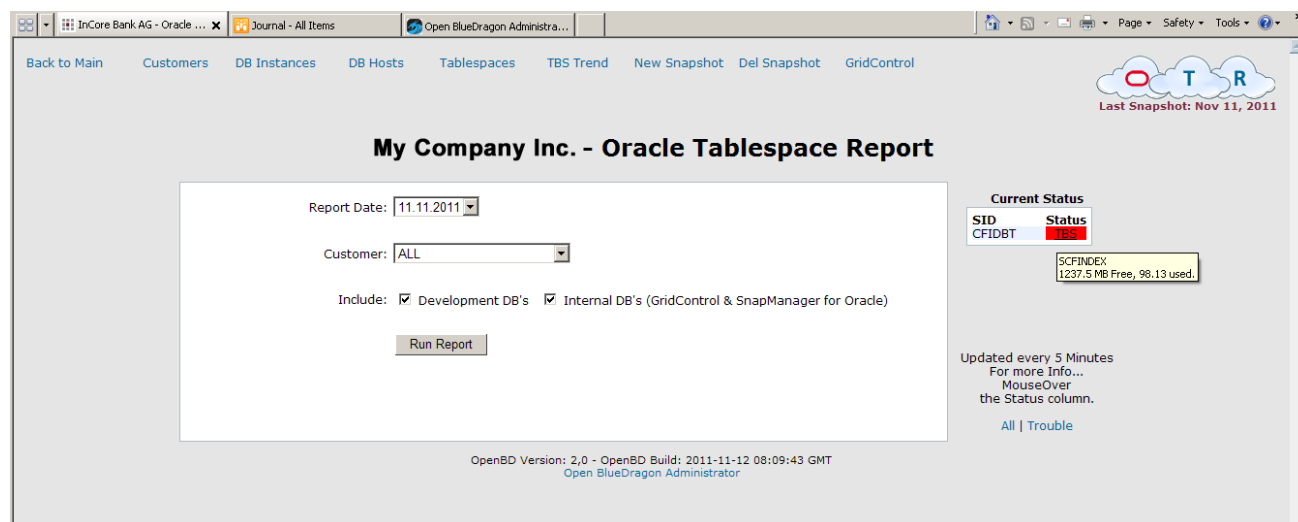
The SQL scripts are included in the otr.war and otr.zip and is located under otr\Doc\OTR-Reporting\Setup\DDL

**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.



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 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 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 GridControl

OTR  
Last Snapshot: 22.11.2011

### My Company Inc. - Tablespace Adjustments CFINDEX

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

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 2GB.

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

Customers DB Instances DB Hosts Tablespaces TBS Trend New Snapshot Del Snapshot GridControl

OTR  
Last Snapshot: Nov 11, 2011

### My Company Inc. - Tablespace Adjustments LEGDATASTANDARD

Datafile	Can grow to	Used	Increase with 2GB
/u01/oradata/legmbcp_db/LEGMBCP/LEGDATASTANDARD117.dbf	2,000 MB	1,500 MB	Yes
/u01/oradata/legmbcp_db/LEGMBCP/LEGDATASTANDARD118.dbf	2,000 MB	100 MB	Yes

**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	2,000 MB	100 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 or add a new 2GB file which will have its initial size set to 100MB and the “Can grow to” to 2GB.

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



## Customers

### Main screen for customers

Customers using one or more Oracle Services

**My Company Inc. - Oracle Customers**

Company ID	Company name	Edit	Delete	New
ABS	Company A			
ALP	Company B			
ACO	Company C			
FPB	Company D			
GCA	Company E			
PHZ	Company P			
ZGK	Company Z			
ICB	InCore Bank AG			
MBC	Maerki Baumann & Co. AG			

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

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

### Adding a new customer

**My Company Inc. - New Oracle Customers**

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

**My Company Inc. - Edit Oracle Customers**

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 GridControl

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

Last Snapshot: Nov 25, 2011

### Company Inc. - Oracle Instances

Environment	Description	SID	SYSTEM Password	Edit	Delete	New
SEE	ACO KDPrevent PROD	ACOKDPP	*****			
SEE	Amis CCR INT	AMCCRI	*****			
SEE	Amis CCR PROD	AMCCRP	*****			
SEE	Amis DEPOT PROD	AMDEPOTP	*****			
SEE	Amis MBC PROD	AMMBCP	*****			
SEE	Amis ZGK PROD	AMZGKP	*****			
SEE	CFIDB INT	CFIDBI	*****			
SEE	CFIDB PROD	CFIDBP	*****			
DEE	CFIDB PROD Backup	CFIDBT	*****			
SEE	SAP FD DEV	FD1	*****			
SEE	FFP MBC Prod	FFPMBP	*****			

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.

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 .

Customers DB Instances DB Hosts Tablespaces TBS Trend New Snapshot Del Snapshot GridControl

Last Snapshot: 18.11.2011

### My Company Inc. - New Oracle Instance

Oracle SID:

Environment: (SEE) Shared Enterprise Edition

Description: (DEE) Dedicated Enterprise Edition  
(DSE) Dedicated Standard Edition  
(SEE) Shared Enterprise Edition  
(SSE) Shared Standard Edition  
(DEV) Deevlopment Enterprise Edition  
(INT) Internal Enterprise Edition

SYSTEM Password:

Save

Customers DB Instances DB Hosts Tablespaces TBS Trend New Snapshot Del Snapshot GridControl

Last Snapshot: 18.11.2011

### My Company Inc. - Edit Oracle Instance

Oracle SID: CFIDBP

Environment: (SEE) Shared Enterprise Edition

Description: CFIDB PROD


SYSTEM Password: .....

Update Reset

## DB Hosts

### Main screen for DB Hosts

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

  
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
delios	FFPMBCP
delios	GWGMBCP
delios	HYPMBCP
delios	HYPZGKP
hyperion.mbczh.ch	AMCCRI
hyperion.mbczh.ch	AMCCRP
hyperion.mbczh.ch	AMDEPOTP
hyperion.mbczh.ch	AMZGKP
hyperion.mbczh.ch	FD1
hyperion.mbczh.ch	F11
hyperion.mbczh.ch	FP1

This is simply a list of which Instance is running on which physical host 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

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

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

Customer	Tablespace
ACOKDPP	APPL_DATA

CSV/XLS File:

The .CSV contains 4 fields/row and will have the following structure:

```
ICB;Amis CCR INT;AMCCRI;TSDATLARGE
ICB;Amis CCR INT;AMCCRI;TSDATNORM
ICB;Amis CCR INT;AMCCRI;TSDATSN
ICB;Amis CCR INT;AMCCRI;TSIDX
```

It contains the Customer ID, The Instance Description, OraSID and Tablespace name

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

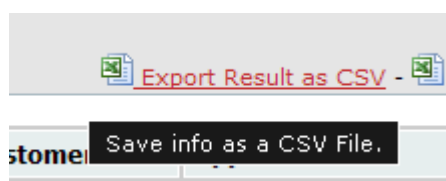
	A	B	C	D
1	ACO	ACO KDPprevent PROD	ACOKDPP	APPL_DATA
2	ACO	ACO KDPprevent PROD	ACOKDPP	APPL_IDX
3	ACO	ACO KDPprevent PROD	ACOKDPP	TSAL_DEFAULT
4	ACO	ACO KDPprevent PROD	ACOKDPP	TSAR_DEFAULT
5	ACO	ACO KDPprevent PROD	ACOKDPP	TSAR_TRANSACTION
6	ACO	ACO KDPprevent PROD	ACOKDPP	TSDR_DEFAULT
7	ACO	ACO KDPprevent PROD	ACOKDPP	TSDR_DYNAMIC
8	ACO	ACO KDPprevent PROD	ACOKDPP	TSET_DEFAULT
9	ACO	ACO KDPprevent PROD	ACOKDPP	TSKDMATCH_DEFAULT
10	ACO	ACO KDPprevent PROD	ACOKDPP	TSKDMATCH_IDX
11	ACO	ACO KDPprevent PROD	ACOKDPP	TSMD_DEFAULT
12	ACO	ACO KDPprevent PROD	ACOKDPP	TXAL_DEFAULT
13	ACO	ACO KDPprevent PROD	ACOKDPP	TXAR_DEFAULT
14	ACO	ACO KDPprevent PROD	ACOKDPP	TXAR_TRANSACTION
15	ACO	ACO KDPprevent PROD	ACOKDPP	TXDR_DEFAULT
16	ACO	ACO KDPprevent PROD	ACOKDPP	TXDR_DYNAMIC
17	ACO	ACO KDPprevent PROD	ACOKDPP	TXET_DEFAULT
18	ACO	ACO KDPprevent PROD	ACOKDPP	TXMD_DEFAULT
19	ICB	Amis CCR INT	AMCCRI	TSDATLARGE
20	ICB	Amis CCR INT	AMCCRI	TSDATNORM
21	ICB	Amis CCR INT	AMCCRI	TSDATSN
22	ICB	Amis CCR INT	AMCCRI	TSIDX
23	ICB	Amis CCR PROD	AMCCRP	TSDATLARGE
24	ICB	Amis CCR PROD	AMCCRP	TSDATNORM
25	ICB	Amis CCR PROD	AMCCRP	TSDATSN
26	ICB	Amis CCR PROD	AMCCRP	TSIDX

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

Company ID, Instance description, OraSID and Tablespace name.

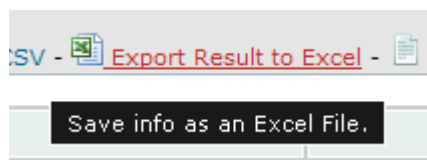
### Export as CSV

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 GridControl

OTR  
Last Snapshot: 18.11.2011

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

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

Instance:  Year:  From:  To:

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Open BlueDragon Administrator

### 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:

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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.

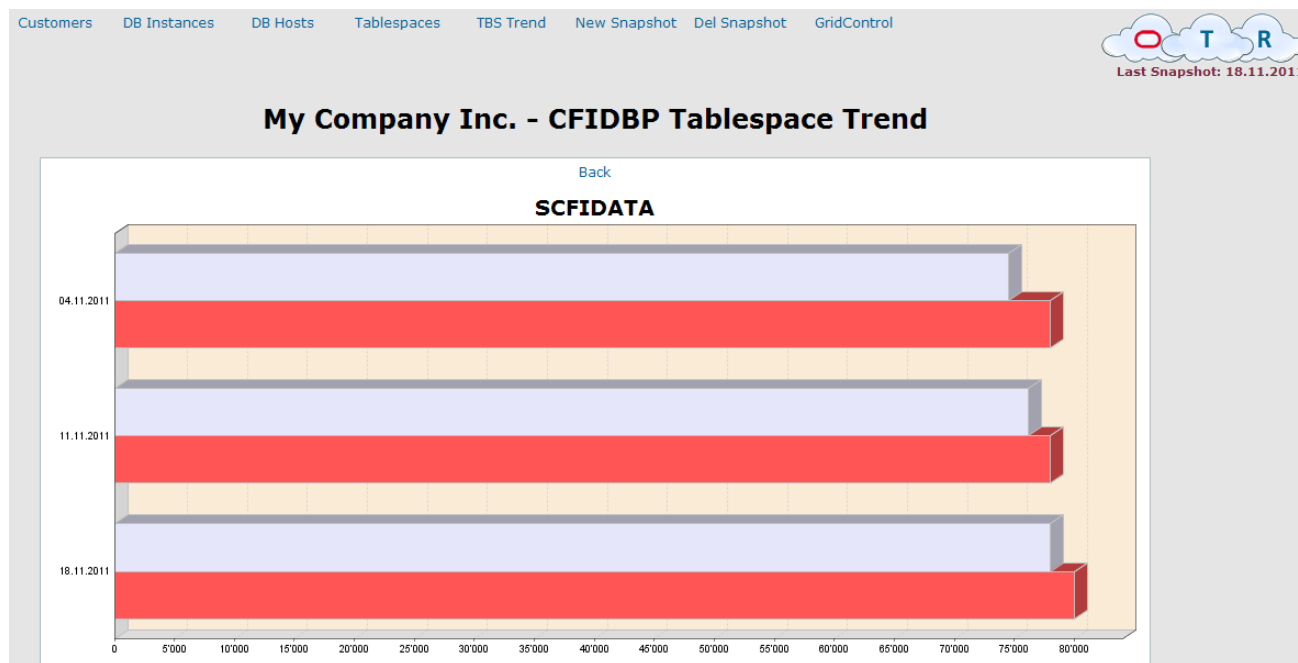
**My Company Inc. - Instance Tablespace Trend**

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

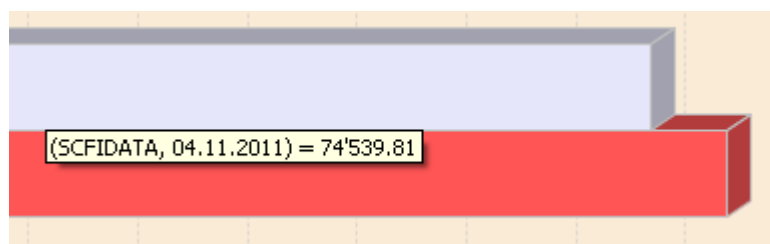
Copyright © 2010 - 2011 NETWORK 23  
Powered By: OpenBD Version: 2,1 - OpenBD Build: 2011-11-22 01:00:56 GMT  
Open BlueDragon Administrator

## Graphical Output

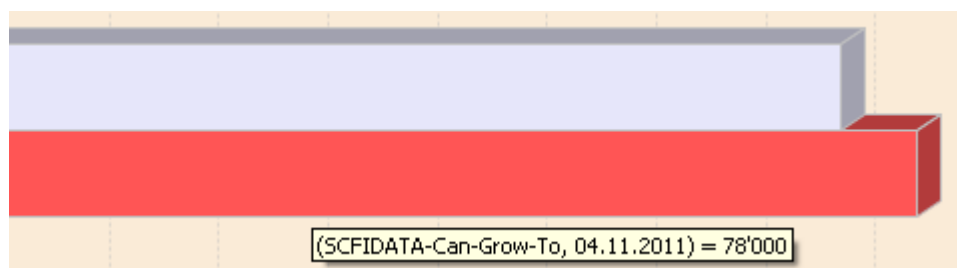
The output will display the output as a bar-chart.



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 GridControl. 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 for NETWORK 23 and OpenBD Version 2,1.

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 message box stating: '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 frustrated is shown. The 'Include' section is empty. A message at the bottom of the form says: 'No manually generated Snapshots on Fridays! 4 Sec'. The 'Current Status' table and footer information are the same as in 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 Snapshot' page for 'My Company Inc. - Delete Tablespace Snapshot'. 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 includes copyright information for NETWORK 23 and OpenBD Version 2,1.



## Enterprise Manager

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

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

This is a direct Link to the Oracle GridControl

Last Snapshot: 22.11.2011

### 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](#)

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[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

```
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\_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.

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
```

### 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 SYS: *****
Enter Password for user OTRREP: *****
NOTICE: Path for the External table must be LOCALLY on the OGC DB Server (no UNC path allowed!)
Path for the External Table [/orascripts/scripts/monitoring/xt/OTR]: /orascripts/scripts/monitoring/xt/OTR
Enter SQLNET.DEFAULT_DOMAIN [MBCZH.CH]: MBCZH.CH
```

This script will create a directory object for our external table, all other 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.

## OTR\_DB\_SPACE\_REP\_TBS+SCHEMA\_CLIENT.sql

This step is optional OTR\_DB\_SPACE\_REP\_TBS+SCHEMA\_CLIENT.sql. Installing an OTRREP Schema in your target DB's is not needed. This schema will only contain a few views used to display tablespace usage on the current instance. OTR will pick this info up without this schema!

```
>@OTR_DB_SPACE_REP_TBS+SCHEMA_CLIENT.sql
Enter Database Alias for the Target DB (TNSNAMES): HYPCCRP

Choose the Permanent (USER) tablespace for the OTRREP user
-----
Below is the list of online tablespaces in this database which can
can be used for storing data and objects.
Tablespace marked with a * is the default permanent tablespace.
selecting the SYSTEM tablespace as tablespace for OTRREP when
there is an USERS tablespace available don't make sense!!!
Select the OTRREP user's Standard tablespace.

TABLESPACE_NAME          CONTENTS  DB DEFAULT USER TABLESPACE
-----
DATA_ASSENTISDEF         PERMANENT
DATA_ASSENTISRT          PERMANENT
FFPMBCDATA               PERMANENT
FFPMBCINDX               PERMANENT
FFPZGKDATA               PERMANENT
FFPZGKINDX               PERMANENT
HYPICBDATA               PERMANENT
HYPICBINDX               PERMANENT
IDX_ASSENTISDEF          PERMANENT
IDX_ASSENTISRT           PERMANENT
INDX                     PERMANENT
SYSAUX                   PERMANENT
SYSTEM                   PERMANENT
USERS                     PERMANENT *
```

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

Enter USER TABLESPACE Name: **USERS**

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.

## Done with Step 1

This rounds up the first part and we have to download the WEB GUI and the OpenBD Server.

## Web Frontend using Open BlueDragon

For the Web frontend of OTR 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 Ready2Run Jetty+OpenBD

At <http://www.openbd.org/download> we need to download the Ready2Run Jetty+OpenBD. It's also possible to run OpenBD on a Tomcat Server. In this case we only need to download the openbd.war file and dump it in the webapps folder. Tomcat setup is not described in this document.

In this case we will use the OMS/EM Server to install the OTR Web GUI.

If we have internet access direct from the OTR Server and this is a Linux/UNIX Server we can use the `wget` command.

We will install the OpenBD under `/opt/OpenBD`

As user root

```
# cd opt
# mkdir OpenBD
# cd OpenBD
# wget http://www.openbd.org/download/2.0.1/jetty-openbd.zip
# unzip jetty-openbd.zip
```

### Download JDK or JRE 6 from Oracle

At <http://www.oracle.com/technetwork/java/javase/downloads/index.html>

At the time of this writing the release is Java SE 6 Update 29. Select the appropriate release for your platform.

In our case we're on a 64-bit Oracle Linux so our download would be `jdk-6u29-linux-x64-rpm.bin`

Installing this with

```
# ./jdk-6u29-linux-x64-rpm.bin
```

Making this as our default Java setup we will use the "alternatives" to maintaining symbolic links to our newly installed java.

```
# /usr/sbin/alternatives --install /usr/bin/java java /usr/java/jdk1.6.0_29/bin/java 16029
# /usr/sbin/alternatives --display java
```

## Fixing the start script for OpenBD

Create a file `/etc/default/jetty` to define the `JETTY_HOME`

```
# vi /etc/default/jetty

JETTY_HOME=/opt/OpenBD
```

Change the mod of the start/stop script

```
# chmod 755 /opt/OpenBD/bin/jetty.sh
```


And start the Jetty/OpenBD

```
# bin/jetty.sh start
```

## Test your OpenBD Installation

Open a web browser and goto the URL `http:// your_ogc_otr_server:8080`

You should get a message that your Installation was successful.

 OpenBD Basic CFML Advanced Tags Functions PlugIns Server Support

### Congratulations ...



... since you are reading this, means the installation went well and you are now ready to start using OpenBD CFML.

Some information about your current installation:

edition:	8
builddate:	2011-11-24 01:00:57 GMT
level:	GPL
state:	alpha
releasedate:	11 November 2011
version:	2.1
path_translated:	/opt/OpenBE/webapps/openbd/manual/index.cfm
server:	minerva:8080
current time:	{ts '2011-11-25 07:46:44'}

[Continue to the manual](#)

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By default Jetty, like most every Java Server, is configured to use port 8080. You can easily change this to port 80 since most likely you will not have any conflict using this port. Enterprise Manager usually, with a normal installation, will use a different port (typically 4889)

## Change listener port for Jetty

If you prefer to use port 80 instead of port 8080 simple stop the OpenBD Server again.

```
# bin/jetty.sh stop
```

Go into the etc folder

```
# cd /opt/OpenBD/etc
```

Edit the file jetty.xml

```
# vi jetty.xml
```

Look for the property jetty.port, change the default="8080" to default="80"

Also change the file jetty-fileserver.xml

```
# vi jetty-fileserver.xml
```

Look for the `<Set name="port">8080</Set>` and change this to

```
<Set name="port">80</Set>
```

Start the OpenBD Server again

```
# cd ..  
# bin/jetty.sh start
```

From now on your OpenBD should respond on standard port 80

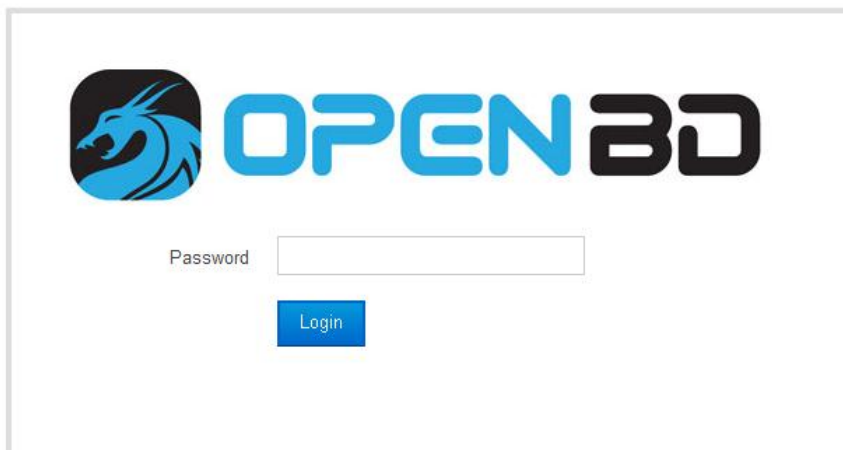
## Configuring OpenBD for OTR

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 Jetty Setup or not, `http:// your_ogc_otr_server[:8080]/bluedragon/administrator`

 Open BlueDragon Administrator



The image shows the login page of the OpenBD Administrator interface. At the top, there is a logo consisting of a blue dragon head inside a black circle, followed by the text "OPENBD" in a bold, blue, sans-serif font. Below the logo, there is a label "Password" to the left of a white text input field. Underneath the input field is a blue button with the word "Login" in white text.

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](#)

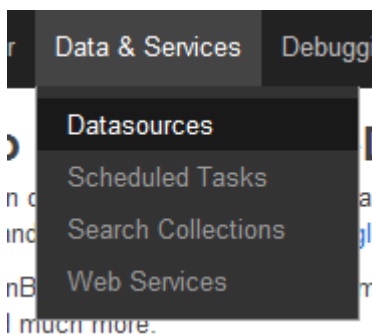
### Requesting Features and Reporting Bugs

- [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

[Add Datasource](#)

#### 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

Database Type

### 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>				

## Installing the OTR WebApp

In this section we will install the web application for OTR.

### Download the otr.war

The otr.war can be downloaded from <http://www.network23.net/otr> or get the complete source from Google Code <http://...>

### Copy the otr.war over to your server

Simply copy the otr.war to your server under /opt/OpenBD/webapps/openbd using WinSCP

Most likely is the Linux/UNIX server, where the OTR Web GUI is supposed to be running, not open for remote access for user root. So transfer the file into /tmp as user oracle. SSH connect to the server as user oracle and then with 'su -' change to root. Move the file from /tmp to /opt/OpenBD/webapps/openbd.

Jetty is not default configured for hot deploy so simply use unzip to unpack the content

```
# cd /opt/OpenBD/webapps/openbd
# unzip otr.war
```

Change the mod for the directory and its content so you, for future needs, can access the OTR application from outside the server with user oracle

```
# chmod -R 777 otr
```

### 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 = "MBCZH.CH" />
<!--- 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 = "My Company Inc. - 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/" />
<cfset Application.obd_desktop_host = "http://localhost/" />

<cfset Application.ogc_logon_url = "http://minerva:4889/em/console/logon/logon" />
<cfset Application.ogc_external_table = "/orascripts/scripts/monitoring/xt/OTR" />
<cfset Application.host_instance_pdf_dir = "/opt/pro/dir/ccr/oracle/" />
```

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

**Application.ogc\_external\_table** is the path where your external table source is located. This file contains info about your Customers, Instances and Tablespaces. (See chapter [Tablespaces](#))

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

## SFTP Settings

```
<!-- SFTP Settings for the host of the GridControl Repository -->
<cfset Application.sftpHost = "minerva.mbczh.ch">
<cfset Application.sftpUser = "oracle">
<cfset Application.sftpPass = "orambc">
```

The SFTP setting is important for the setup and updates of the External Table (Customer - Instance – Tablespace) relation. This file is located somewhere locally or on a NFS mountpoint where the server for the OTR Repository is installed. This doesn't have to be, and most likely won't be, the same server where the Web GUI for OTR is installed.

**Application.sftpHost** is name of the server where the access to the external table source file is located.

**Application.sftpUser** is normally **oracle** since your Oracle Instance most likely is running under the account oracle.

**Application.sftpPass** is your Oracle OS user password.

## Tablespace Warning Settings

```
<!-- Tablespace Warning Levels -->
<cfset Application.tablespace.prc_used = 98 />
<cfset Application.tablespace.mb_left = 1800 />
```

**Application.tablespace.prc\_used** is default set to **98%** (full)

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

With these settings correctly configured for your environment you are now ready to do the final setup of OTR.

## Restart Jetty/OpenBD

The values contained in the Application.cfc will only be activated at the time the OTR application is started. Changes done during the time the OpenBD/Jetty is running will not be visible.

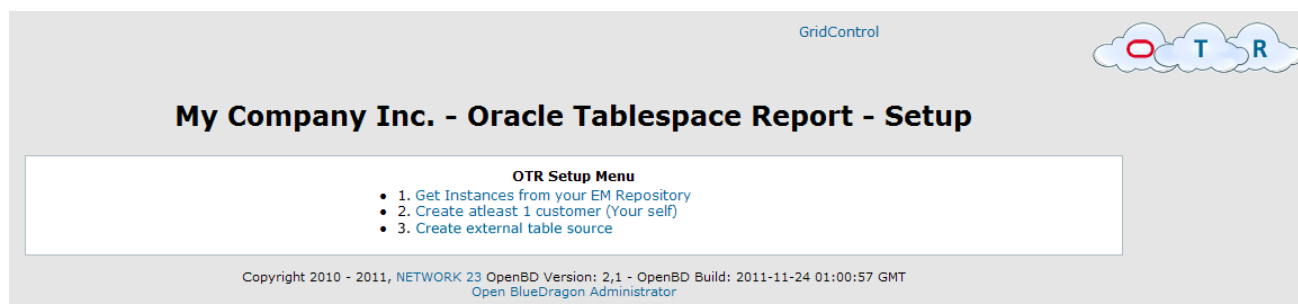
So to get this change you have just made, you simply stop and start Jetty again. (Make sure you're user root for this)

```
$ su -
# cd /opt/OpenBD
# bin/jetty.sh restart
```

Now when you go to the URL [http://yourserver\[:8080\]/otr](http://yourserver[:8080]/otr) you should see the Setup screen now, displaying your Company Name.

## Get your OTR ready for use

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. Create the external table source](#) and the system will create a new file for you that will contain all your instances and the description. Customer ID will be set to the Customer ID of the customer you just created and Tablespace will be set to the value <NOT\_DEFINED>.

Export this as XLS and edit this file locally on your PC.

Copy each row for as many Tablespaces you want to monitor for each Instance and customer. Replace the XYZ 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.

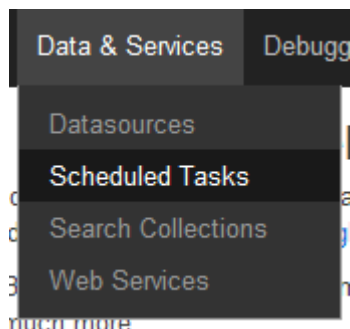
## Define a Gather TBS/NFS Space Usage Statistics Job

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

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 widget is open, showing November 2011, with the 25th (Friday) selected. The time '23:30' is entered in the 'to' field.

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' in a dropdown menu. The time is set to '23:30' in a text field. 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	<input type="text" value="http://"/> Port <input type="text"/>	<div><div>November 2011</div><table><tr><th>Su</th><th>Mo</th><th>Tu</th><th>We</th><th>Th</th><th>Fr</th><th>Sa</th></tr><tr><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr><tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr><tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr><tr><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td><td></td></tr></table></div>	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			
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.

## 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.

The screenshot shows the OTR web GUI. At the top, there is a navigation bar with links: Customers, DB Instances, DB Hosts, Tablespaces, TBS Trend, **New Snapshot**, Del Snapshot, and GridControl. On the right, there is a logo with the letters O, T, and R in clouds, and the text 'Last Snapshot: 18.11.2011'. The main content area has a header 'My Company Inc. - Tablespace Report'. Below this, there is a form with the following fields: 'Report Date:' with a dropdown menu showing '18.11.2011', 'Customer:' with a dropdown menu showing 'ALL', and 'Include:' with two checked checkboxes: 'Development DB's' and 'Internal DB's (GridControl & SnapManager for Oracle)'. There is a 'Run Report' button. A loading spinner is visible in the center of the form. On the right side of the form, there is a 'Current Status' section with a table showing 'SID' as 'CFIDBT' and 'Status' as 'TBS'. Below this, there is a note: 'Updated every 5 Minutes For more Info... MouseOver the Status column.' and a link 'All | Trouble'. At the bottom, there is a footer with copyright information: '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: InCore Bank AG

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](#)

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.

[Back to Main](#)
[Customers](#)
[DB Instances](#)
[DB Hosts](#)
[Tablespaces](#)
[TBS Trend](#)
[New Snapshot](#)
[Del Snapshot](#)
[GridControl](#)



Last Snapshot: Nov 25, 2011

## My Company Inc. - Oracle Tablespace Reports

### 25.11.2011 - InCore Bank AG

AMCCRI AMCCRP AMDEPOTP CFIDBI CFIDBP CFIDBT HYPCCRP ICBCCRI ICBCCRP LEGCCRT OGC2ICB OTMSCCRT OTMSCCRX OTMSICBI OTMSICBP OTMSICNI OTMSICNX RECOMBCI RECOMBCP SMO SOL XENTISI XENTISP  
[customer\\_report.xls](#) [as PDF](#)

DB: AMCCRI Client App(s): Amis CCR INT						
TABLESPACE	Used (MB)	Free (MB)	Can Grow To (MB)	Max Free (MB)	% Used	% Real Used
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):	18,500		26,000			<a href="#">Top</a>
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 %		
		34,816	11,977			

DB: AMCCRP Client App(s): Amis CCR PROD						
TABLESPACE	Used (MB)	Free (MB)	Can Grow To (MB)	Max Free (MB)	% Used	% Real Used
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):	18,500		29,000			<a href="#">Top</a>

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.

## Trademarks

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OTR is Copyright NETWORK 23.

## 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/>

## Disclaimer / Warranties

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