


**Oracle Forms Upgrade 2.3 bis 11g**  
Erfahrungen aus dem Umgang mit Oracle  
Forms Upgrade


*Roadshow Oracle Forms A - Z*  
*Jan-Peter Timmermann*

The Oracle Modernization Experts



- Umstellung Client Server auf das Web
- Kann PITSS.CON dabei unterstützen ?
- Überblick Oracle Fusion Middleware 11g
- Unterschiede Oracle Applikation Server 10g zu Fusion Middleware 11g
- Vorgehen



**“I am using Forms Client/Server today, what is my path forward?”**



**“I’ve heard Forms is going away, is that true?”**



**“Is Oracle providing a path to J2EE for Forms developers?”**

## Was muss ich eigentlich tun:

- Wenn ich von C/S in Richtung Web gehe.
- Wenn ich vom OAS 10gR2 auf 11g wechsele
- Wenn ich die Entwicklungs-Arbeitsplätze aufsetze
- Damit die Administratoren in der Lagen sind die neue Umgebung zu beherrschen

- **Mouse Events (Mouse\_move, Mouse\_enter, Mouse\_leave)**
  - not supported because of Network Traffic
- **Icons in OS specific formats**
  - changing to GIF or JPG
- **VBX Controls**
  - not longer supported Windows technology
- **ActiveX (OCX) Controls**
  - has to be replaced by Java-Beans
- **Sound Items**
  - out of support
- **Image Control Palette**
  - doesn't exist any longer
- **GET\_FILE\_NAME Built-In**
  - can be handled by WebUtil

### ■ Host and ORA\_FFI Built-Ins, User Exits, Java Importer (ORA\_JAVA)

- functions are supported but are working on the Server now
- ... examine if they are essential r

### ■ Interactions with the local File System

- READ\_IMAGE\_FILE, TEXT\_IO, TOOL\_RES
- functions are supported but are working on the Server now
- ... examine if they are essential

### ■ HOST Built-In

- calls something on the Client or can work on the Server

### ■ Case Sensitivity

- switching from Windows C/S to UNIX/Linux requires attention

### ■ Fonts

- mostly Java supported Fonts

### ■ OLE

- has to be replaced by Java-Beans
- or WebUtil

## ■ SYNCHRONIZE Built-In

- refreshes and creates a Network Roundtrip

## ■ Timers

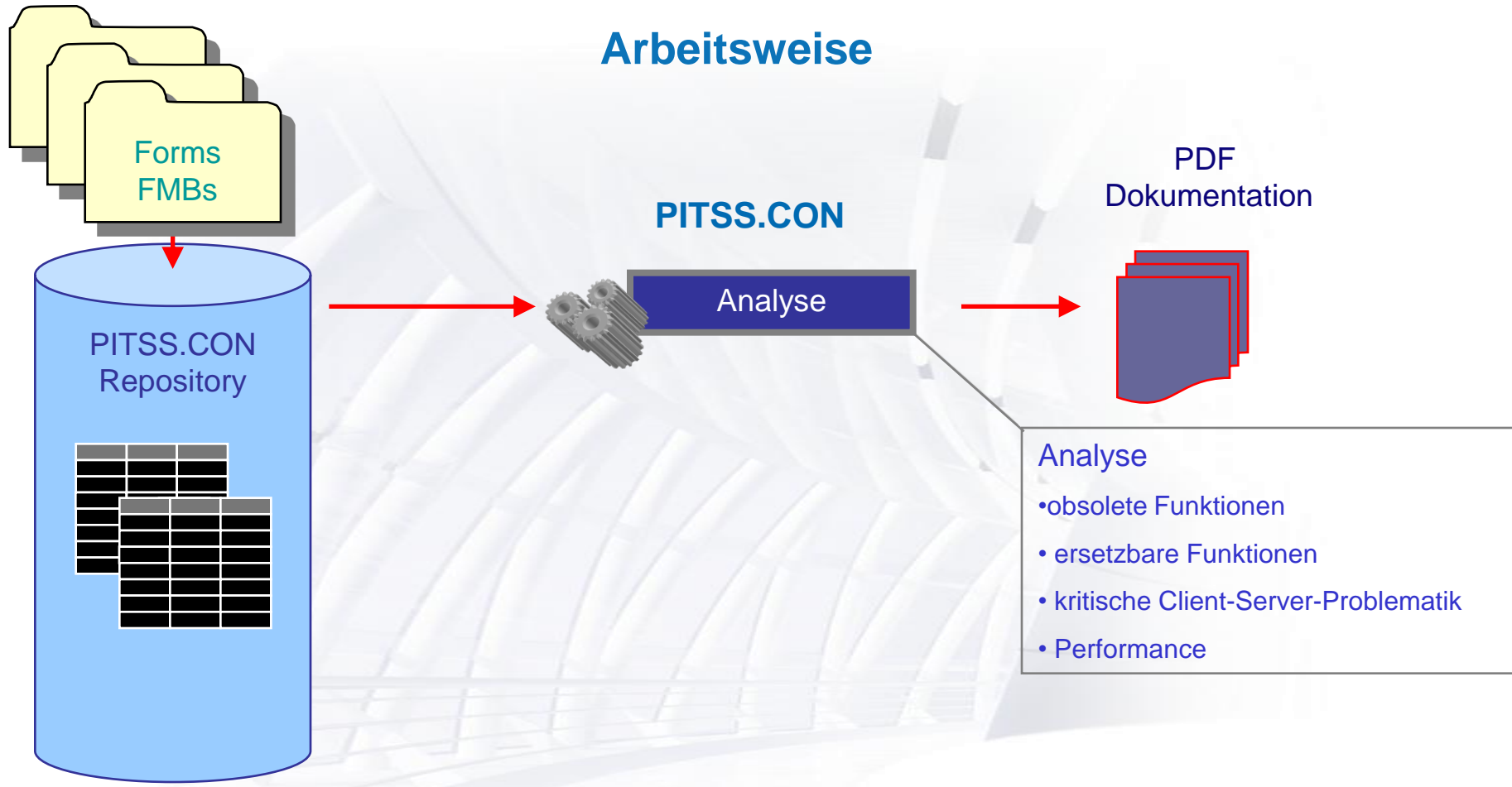
- creates a Network Roundtrip

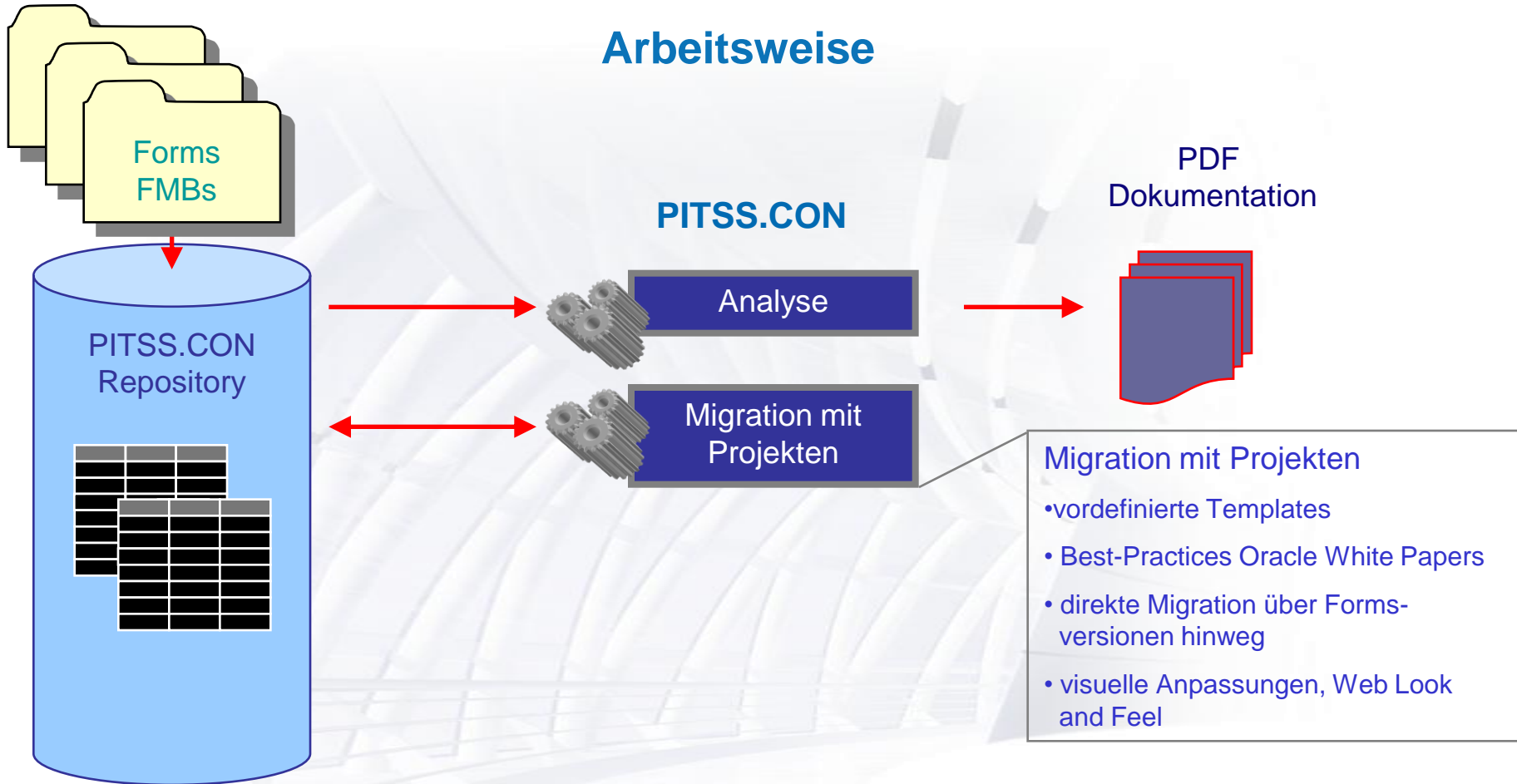
## ■ Tabbed Canvases

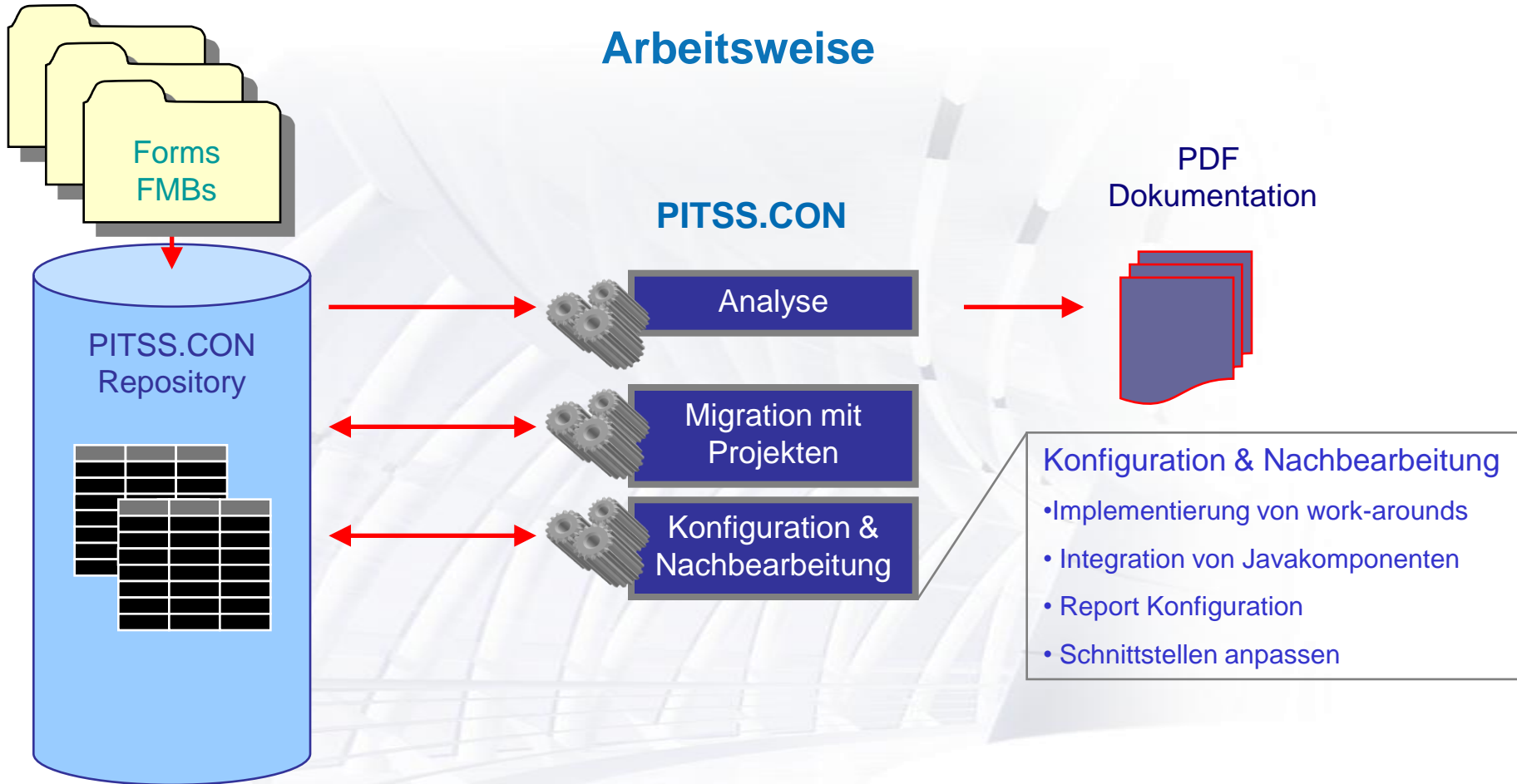
- increase the initial Loading,  
because of loading of all object information of a Tabbed-Canvas
- Solution: Stacked Canvases or Visible = No

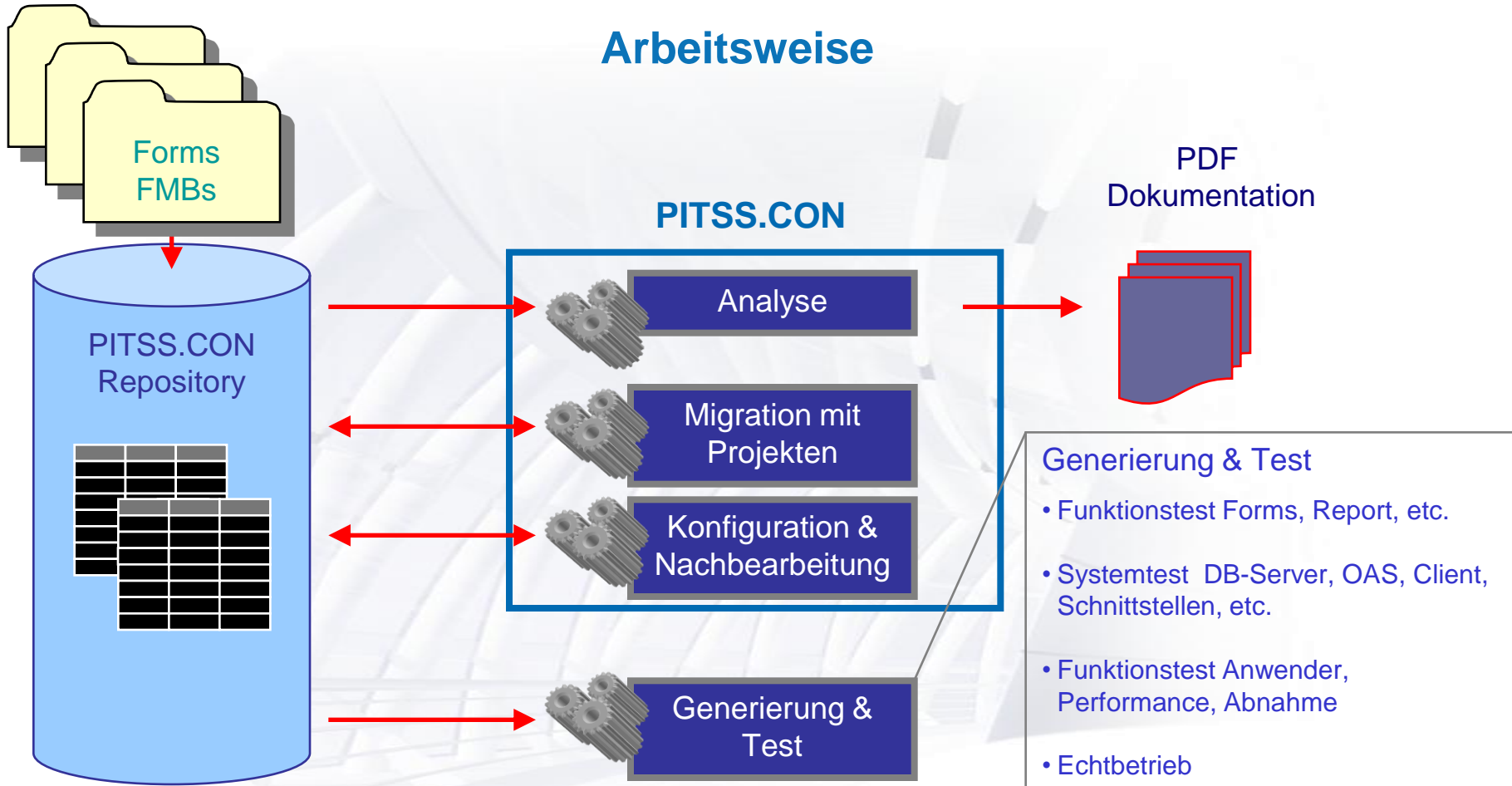
## ■ SQL-Logik in Forms

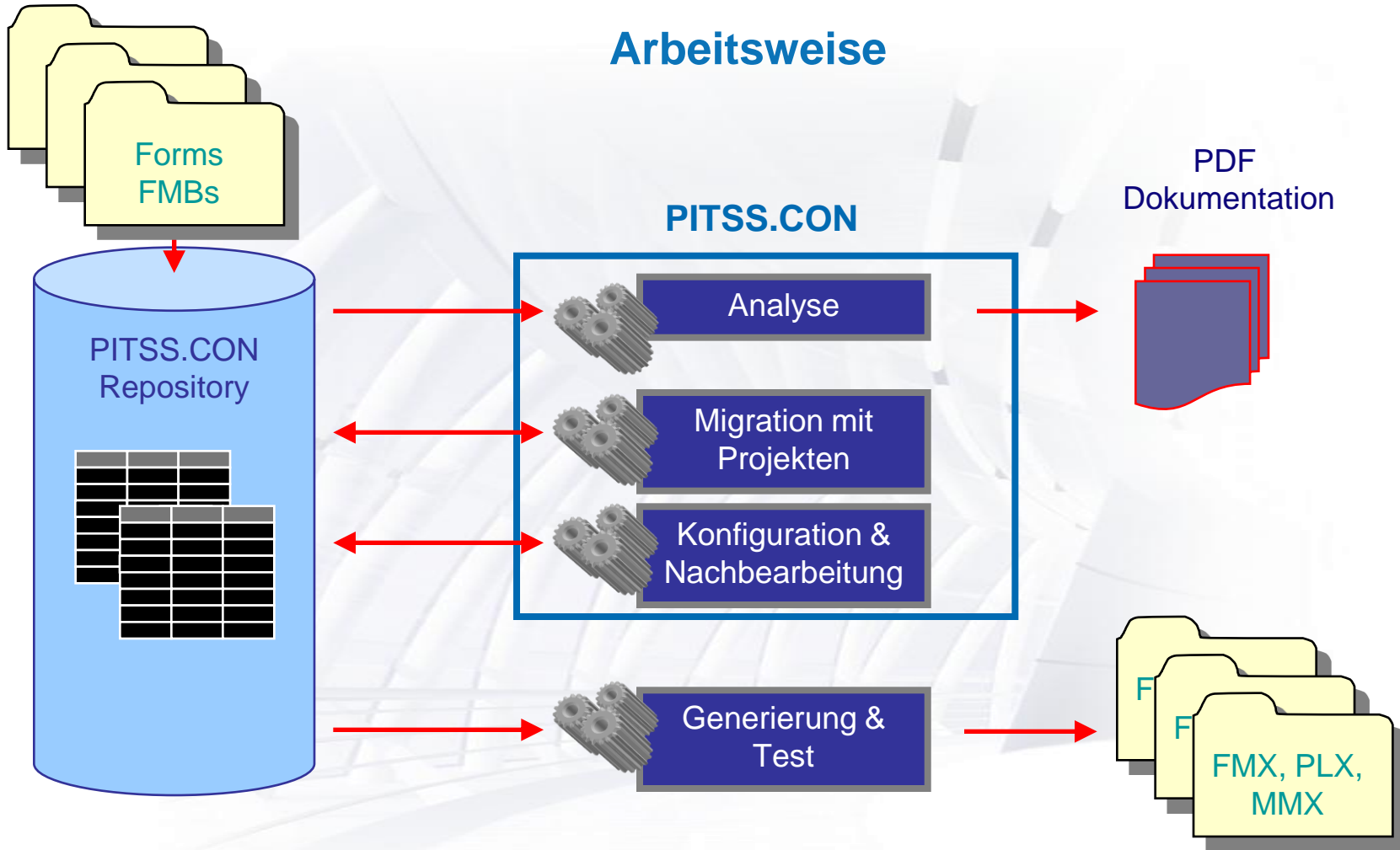
- Gibt es Unterschiede wenn SQL in Forms anstatt in der Datenbank ausgeführt wird?











Search And Replace Code

- APPLICATION
  - FORM MODULES (120)
  - PL/SQL LIBRARIES (34)
  - MENU MODULES (3)
  - OBJECT LIBRARIES (6)
  - REPORT MODULES (1)
  - DATABASE OBJECTS (1554)
  - ASCII FILES

### General Settings

Search Text

Context Index

Replace Text

**Searching For**  Multiple Text

String

Word

Statement Without Parameters

Statement With Parameters

**Replace Type**

Replace String

Insert Behind String

Insert Before String

Custom

PITSS.CON User  
 U1

Match Case

Avoid Comments

Avoid Text Variables

[Custom Settings](#)

**Task**

Search     Show Results     Add New Program Unit     Add New Statement

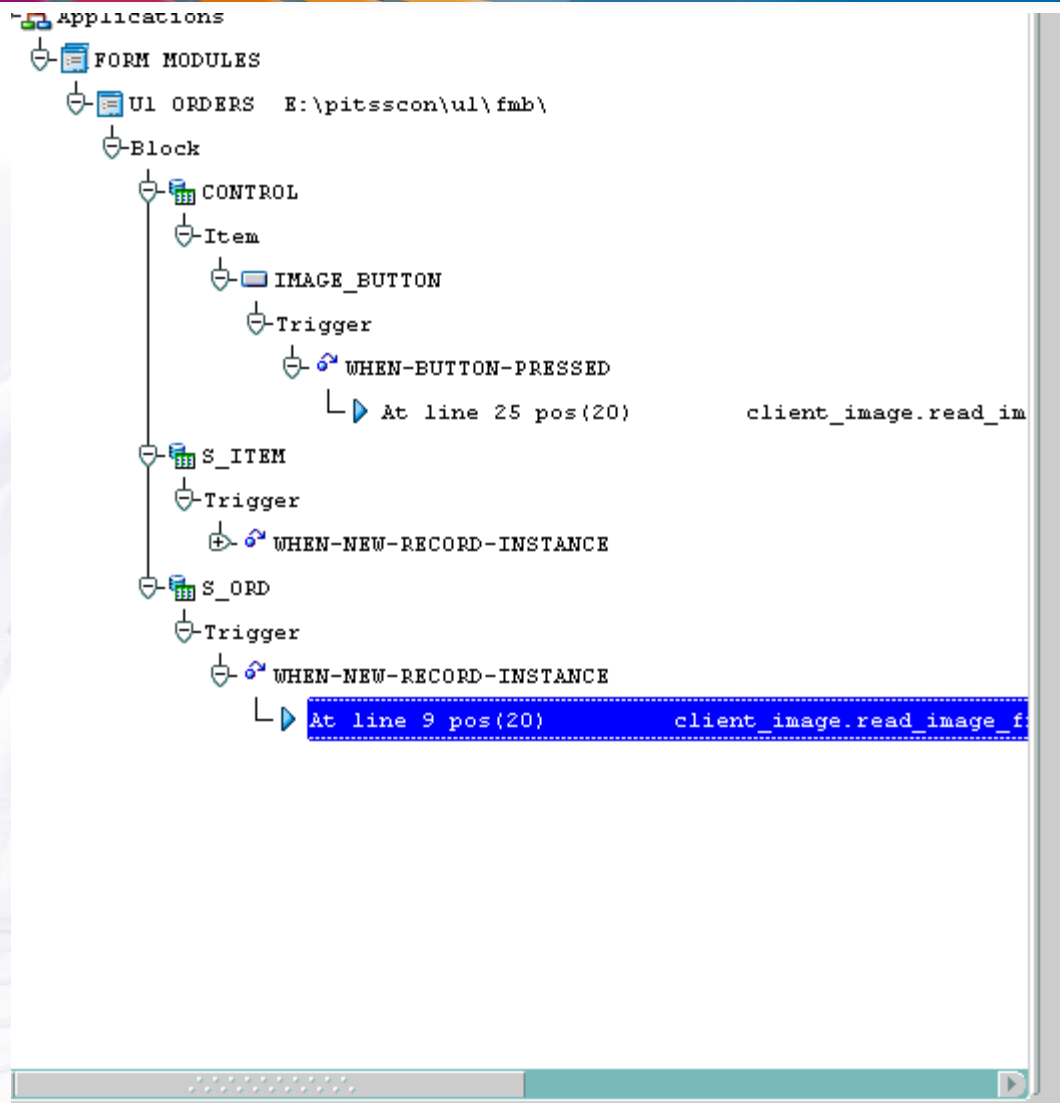
Form Modules
Libraries / Menus / Reports
Database And ASCII Files
Find Multiple Text

	Search Text	Pre Query	
1	Get_file_name		6
2	Host		188
3	Read_image_file		16
4	write_image_file		14
5	OLE2		99
6	Text_io		81
7	Run_Product		50

**Action**

Pool - OFF
Filter FMB - OFF
Filter MMB - OFF

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- Datenbank mit 5 Millionen Datensätzen
- Aufgabe : Pro Firma eine Summe bilden. Jede Firma kommt x- Mal vor
- Kein Index auf irgendwelche Spalten

```
SQL> select count(1) from adressen;
```

```
COUNT(1)
```

```
-----
PROCEDURE get_wert IS
BEGIN
:adressen.start_time:=to_date(to_char(sysdate,'ddmmyyyy HH24:MI:ss'),'ddmmyyyy
HH24:MI:SS');
select sum(id)
into :adressen.wert
from adressen
where firma=:adressen.firma;
:adressen.ende_time:=to_date(to_char(sysdate,'ddmmyyyy HH24:MI:ss'),'ddmmyyyy
HH24:MI:SS');
berechnediff:=
```

```
END PROCEDURE get_wert_db IS
v_ergebnis perf_test.T_ergebnis;
BEGIN
v_ergebnis := perf_test.adresse_summ (p_firma => 'Logan D. Forbes');
:adressen.db_start_time:=v_ergebnis.start_time;
:adressen.db_wert :=v_ergebnis.wert;
:adressen.db_ende_time:=v_ergebnis.ende_time;
berechnediff;
```

Firma	Plz	Ort	Start Timer	Wert	Ende Time	Start Timer	Wert	Ende Time
Logan D. Forbes		Ap #944-2532 M	31.10.2012 23:21:49	18273232	31.10.2012 23:21:59	31.10.2012 23:21:59	18273232	31.10.2012 23:22:08
Andrew J. Howard		P.O. Box 153, 44	31.10.2012 23:22:09	18433288	31.10.2012 23:22:17	31.10.2012 23:22:17	18273232	31.10.2012 23:22:23
Kasimir Baldwin		7224 Nec Ave	31.10.2012 23:22:29	18471804	31.10.2012 23:22:37	31.10.2012 23:22:37	18273232	31.10.2012 23:22:48
Lester Vang		Ap #306-6575 Lt	31.10.2012 23:22:49	18310240	31.10.2012 23:22:58	31.10.2012 23:22:58	18273232	31.10.2012 23:23:04
Erich Alexander		Ap #343-3805 M	31.10.2012 23:23:09	18268988	31.10.2012 23:23:17	31.10.2012 23:23:17	18273232	31.10.2012 23:23:24
Angelica Wolfe		6028 Arcu. Ave	31.10.2012 23:23:29	18422652	31.10.2012 23:23:36	31.10.2012 23:23:36	18273232	31.10.2012 23:23:43
Chelsea Peters		527-9820 Magna	31.10.2012 23:23:49	18300432	31.10.2012 23:23:56	31.10.2012 23:23:56	18273232	31.10.2012 23:24:03
Peter Ray		5347 Aliquam Av	31.10.2012 23:24:09	18699876	31.10.2012 23:24:20	31.10.2012 23:24:20	18273232	31.10.2012 23:24:26
Petra Gibson		Ap #166-3332 N	31.10.2012 23:24:29	18502236	31.10.2012 23:24:37	31.10.2012 23:24:37	18273232	31.10.2012 23:24:43
Chancellor G. Fitzpatrick		Ap #967-3032 N	31.10.2012 23:24:49	18492012	31.10.2012 23:24:56	31.10.2012 23:24:56	18273232	31.10.2012 23:25:03
Christen B. Workman		911 Scelerisque	31.10.2012 23:25:09	18549064	31.10.2012 23:25:17	31.10.2012 23:25:17	18273232	31.10.2012 23:25:24

BL Assistant

Program Unit

- BUILD\_BETRAEGE\_REC
- BUILD\_BETRAEGE\_REC
- BUILD\_BETRAEGE\_REC
- BUILD\_SEQ\_RECHNR
- BUTTON\_HELP
- CG\$WHEN\_NEW\_FORM\_I
- CGBS\$MESSAGE\_QUERY
- CGBS\$SET\_QUERY\_MOD
- CGBS\$TOGGLE
- CGDV\$POPULATE\_DYNA
- CGFK\$CHK\_FAKT2\_FKT
- CGFK\$CHK\_REL\_ABO\_I
- CGFK\$CHK\_REL\_ABO\_I
- CGFK\$QRY\_REL\_ABO\_I**
- CGLY\$CANVAS\_MANAGE
- CGLY\$DISPLAY\_CANVA
- CGLY\$GET\_RELATED\_C
- CGLY\$RAISE\_CANVAS
- CGNV\$AI\_WINDOW\_ABO
- CGNV\$AI\_WINDOW\_ABO
- CGNV\$AI\_WINDOW\_ABO
- CGRI\$CHK\_ABO\_RECH
- CGRI\$CHK\_FAKTURA\_F
- CGSF\$CLRLU\_REL\_ABO
- CGTE\$CHECK CONSTRA

Object Name	Type	SQL	Call Intern	BI	Used	Activity
<input type="checkbox"/> 1 CGFK\$CHK_REL_ABO_RL_IFO_PROD_F	PROCEDURE	1	0	0	0	1
<input type="checkbox"/> 2 <b>CGFK\$QRY_REL_ABO_RL_ABO_RPR_F</b>	PROCEDURE	1	0	0	1	1
<input type="checkbox"/> 3 CGFK\$CHK_REL_ABO_RL_ABO_RPR	PROCEDURE	1	0	0	0	1
<input type="checkbox"/> 4 CGUV\$CHK_FKTO_PK	PROCEDURE	1	0	0	0	1
<input type="checkbox"/> 5 CGFK\$CHK_FAKT2_FKTO2_FKTO_FK	PROCEDURE	1	0	0	0	1
<input type="checkbox"/> 6 CGUV\$CHK_FKTO2_PK	PROCEDURE	1	0	0	0	1
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						

ALL  ALL  ALL  ALL  > 0  = 0  = 0  ALL  ALL

**Details** **SQL Details**

New Object Name:

Type	Object Name	Data Type	New Object name

Type	Location	Object name	Reference

Object Name	Type	SQL	Call Intern	BI	Used	Activity
<input type="checkbox"/> 1 CGFK\$CHK_REL_ABO_RL_IFO_PROD_F	PROCEDURE	1	0	0	0	1
<input type="checkbox"/> 2 CGFK\$QRY_REL_ABO_RL_ABO_RPR_FI	PROCEDURE	1	0	0	1	1
<input type="checkbox"/> 3 CGFK\$	PROCEDURE	1	0	0	0	1
<input type="checkbox"/> 4 CGUV\$	PROCEDURE	1	0	0	0	1
<input type="checkbox"/> 5 CGFK\$	PROCEDURE	1	0	0	0	1
<input type="checkbox"/> 6 CGUV\$	PROCEDURE	1	0	0	0	1

Object Name	Type	SQL	Call Intern	BI	Used	Activity
<input type="checkbox"/> 1 CGFK\$CHK_REL_ABO_RL_IFO_PROD_F	PROCEDURE	1	0	0	0	1
<input type="checkbox"/> 2 CGFK\$QRY_REL_ABO_RL_ABO_RPR_FI	PROCEDURE	1	0	0	1	1
<input type="checkbox"/> 3 CGFK\$						

Object Name	Type	SQL	Call Intern	BI	Used	Activity
<input type="checkbox"/> 1 POST-QUERY	TRIGGER	0	1	2	0	0

- View Code
- Transfer Object to DB
- Transfer Object to DB (Preview)
- View Dependent Objects

- View Code
- Transfer Object to DB
- Transfer Object to DB (Preview)
- Synchronize object ( replace migrated objects in code)
- Calculate logic dependencies

PITSS.CON Editor

File Edit Window

Search:  Replace:

Trigger: POST-QUERY Block: REL Module:  ASCII File: \_test.SQL PITSS.CON Owner: U1

```

1  /* CGFK$QRY_LOOKUP_DATA */
2  /* Query lookup data for the foreign key(s) */
3  BEGIN
4  IF (name_in('REL.ABO_RPR_PREIS_ID') IS NOT NULL) THEN
5  BEGIN
6  CGFK$QRY_REL_ABO_RL_ABO_RPR_FK(
7  :REL.L_ABO_RPR_PORTO_WELT_LUFT      /* MOD: Value in Item
8  ,:REL.L_ABO_RPR_PORTO_WELT        /* MOD: Value in Item
9  ,:REL.L_ABO_RPR_PORTO_EUROPA_LUFT /* MOD: Value in Item
10 ,:REL.L_ABO_RPR_PORTO_EUROPA     /* MOD: Value in Item
11 ,:REL.L_ABO_RPR_PORTO_INL       /* MOD: Value in Item
12 ,:REL.L_ABO_RPR_MIT_MWST        /* MOD: Value in Item
13 ,:REL.L_ABO_RPR_MWST_SATZ       /* MOD: Value in Item
14 ,:REL.L_ABO_RPR_MWST_GRUNDL     /* MOD: Value in Item
15 ,:REL.L_ABO_RPR_PREIS_S         /* MOD: Value in Item
16 ,:REL.L_ABO_RPR_PREIS_I         /* MOD: Value in Item
17 ,:REL.L_ABO_RPR_PREIS_E         /* MOD: Value in Item
18 ,:REL.L_ABO_RPR_GUELTIGKEIT    /* MOD: Value in Item
19 ,:REL.ABO_RPR_PREIS_ID         ); /* IN : Value in Item
20
21 EXCEPTION
22 WHEN NO_DATA_FOUND THEN
23   MESSAGE('Error: This Preis, Id-Nr. does not exist');
24 WHEN OTHERS THEN
25   CGTE$OTHER_EXCEPTIONS;
26 END;
27 SET_RECORD_PROPERTY(:SYSTEM.TRIGGER_RECORD, 'REL', STATUS ,
28 END IF;
29 END;
    
```

```

1  /* CGFK$QRY_LOOKUP_DATA */
2  /* Query lookup data for the foreign key(s) */
3  BEGIN
4  IF (name_in('REL.ABO_RPR_PREIS_ID') IS NOT NULL) THEN
5  BEGIN
6  JPT_ADR.CGFK$QRY_REL_ABO_RL_ABO_RPR_FK(
7  :REL.L_ABO_RPR_PORTO_WELT_LUFT      /* MOD: Value in Item
8  ,:REL.L_ABO_RPR_PORTO_WELT        /* MOD: Value in Item
9  ,:REL.L_ABO_RPR_PORTO_EUROPA_LUFT /* MOD: Value in Item
10 ,:REL.L_ABO_RPR_PORTO_EUROPA     /* MOD: Value in Item
11 ,:REL.L_ABO_RPR_PORTO_INL       /* MOD: Value in Item
12 ,:REL.L_ABO_RPR_MIT_MWST        /* MOD: Value in Item
13 ,:REL.L_ABO_RPR_MWST_SATZ       /* MOD: Value in Item
14 ,:REL.L_ABO_RPR_MWST_GRUNDL     /* MOD: Value in Item
15 ,:REL.L_ABO_RPR_PREIS_S         /* MOD: Value in Item
16 ,:REL.L_ABO_RPR_PREIS_I         /* MOD: Value in Item
17 ,:REL.L_ABO_RPR_PREIS_E         /* MOD: Value in Item
18 ,:REL.L_ABO_RPR_GUELTIGKEIT    /* MOD: Value in Item
19 ,:REL.ABO_RPR_PREIS_ID         ); /* IN : Value in Item
20
21 EXCEPTION
22 WHEN NO_DATA_FOUND THEN
23   MESSAGE('Error: This Preis, Id-Nr. does not exist');
24 WHEN OTHERS THEN
25   CGTE$OTHER_EXCEPTIONS;
26 END;
27 SET_RECORD_PROPERTY(:SYSTEM.TRIGGER_RECORD, 'REL', STATUS ,
28 END IF;
29 END;
    
```

FORM MODULES (120)

- UI-ABOAUFL
- UI-ABO\_AUFTR\_DET
- UI-ABO\_AUFTR\_LST
- UI-ABO\_AUFTR\_PART\_LST
- UI-ABO\_PARTPROD\_LST
- UI-ABO\_PROD\_LST
- UI-ABO\_RECH
- UI-ABO\_RECH\_LAUF
  - Trigger
  - Alert
  - Attached Library
  - Block
    - TOOLBAR
    - PRD
    - REL
      - Trigger
        - PRE-INSERT
        - KEY-DUPREC
        - POST-QUERY
        - KEY-DELREC
        - ON-ERROR
        - KEY-HELP
      - Item
      - Relation
      - Query Data Source Col

**PITSS.CON Editor (read only)**

File Edit Window

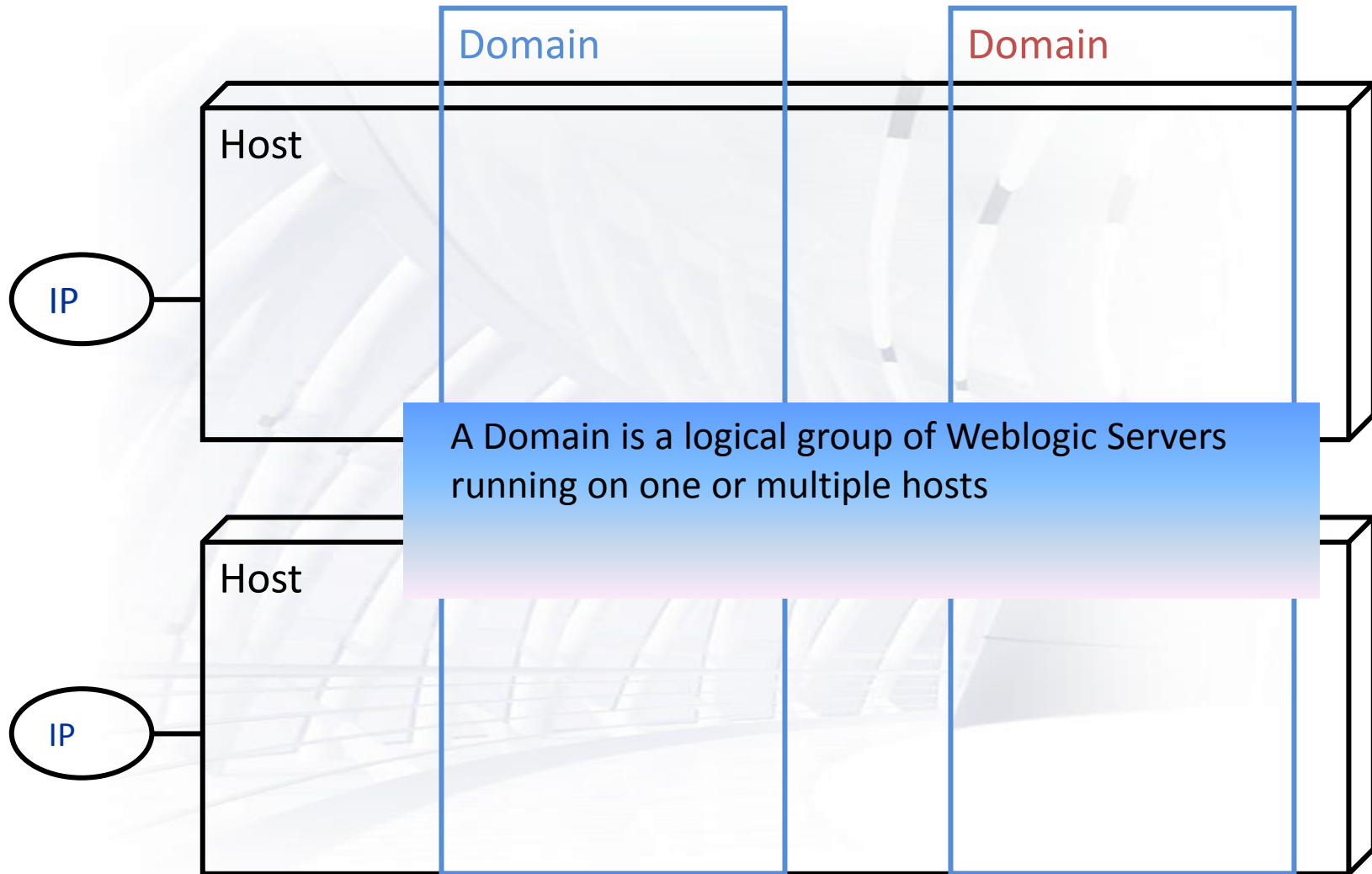
Search:  Replace:

Trigger: POST-QUERY Block: REL Module: ABO\_RECH\_LAUF

```

1  /* CGFK$QRY_LOOKUP_DATA */
2  /* Query lookup data for the foreign key(s) */
3  BEGIN
4    IF (name_in('REL.ABO_RPR_PREIS_ID') IS NOT NULL) THEN
5      BEGIN
6        JPT_ADR.CGFK$QRY_REL_ABO_RL_ABO_RPR_FK(
7          :REL.L_ABO_RPR_PORTO_WELT_LUFT /* MOD: Value in Item :REL.L_ABO_RPR_PORTO_WELT_LUFT.
8          ,:REL.L_ABO_RPR_PORTO_WELT /* MOD: Value in Item :REL.L_ABO_RPR_PORTO_WELT.
9          ,:REL.L_ABO_RPR_PORTO_EUROPA_LUFT /* MOD: Value in Item :REL.L_ABO_RPR_PORTO_EUROPA_LUFT.
10         ,:REL.L_ABO_RPR_PORTO_EUROPA /* MOD: Value in Item :REL.L_ABO_RPR_PORTO_EUROPA.
11         ,:REL.L_ABO_RPR_PORTO_INL /* MOD: Value in Item :REL.L_ABO_RPR_PORTO_INL.
12         ,:REL.L_ABO_RPR_MIT_MWST /* MOD: Value in Item :REL.L_ABO_RPR_MIT_MWST.
13         ,:REL.L_ABO_RPR_MWST_SATZ /* MOD: Value in Item :REL.L_ABO_RPR_MWST_SATZ.
14         ,:REL.L_ABO_RPR_MWST_GRUNDL /* MOD: Value in Item :REL.L_ABO_RPR_MWST_GRUNDL.
15         ,:REL.L_ABO_RPR_PREIS_S /* MOD: Value in Item :REL.L_ABO_RPR_PREIS_S.
16         ,:REL.L_ABO_RPR_PREIS_I /* MOD: Value in Item :REL.L_ABO_RPR_PREIS_I.
17         ,:REL.L_ABO_RPR_PREIS_E /* MOD: Value in Item :REL.L_ABO_RPR_PREIS_E.
18         ,:REL.L_ABO_RPR_GUELTIGKEIT /* MOD: Value in Item :REL.L_ABO_RPR_GUELTIGKEIT.
19         ,:REL.ABO_RPR_PREIS_ID ); /* IN : Value in Item :REL.ABO_RPR_PREIS_ID.
20      EXCEPTION
21        WHEN NO_DATA_FOUND THEN
22          MESSAGE('Error: This Preis, Id-Nr. does not exist');
23        WHEN OTHERS THEN
24          CGTE$OTHER_EXCEPTIONS;
25      END;
26      SET_RECORD_PROPERTY(:SYSTEM.TRIGGER_RECORD, 'REL', STATUS , QUERY_STATUS);
27    END IF;
28  END;
```

Line 1 Column 1 Insert ColorT



## ■ Grundidee

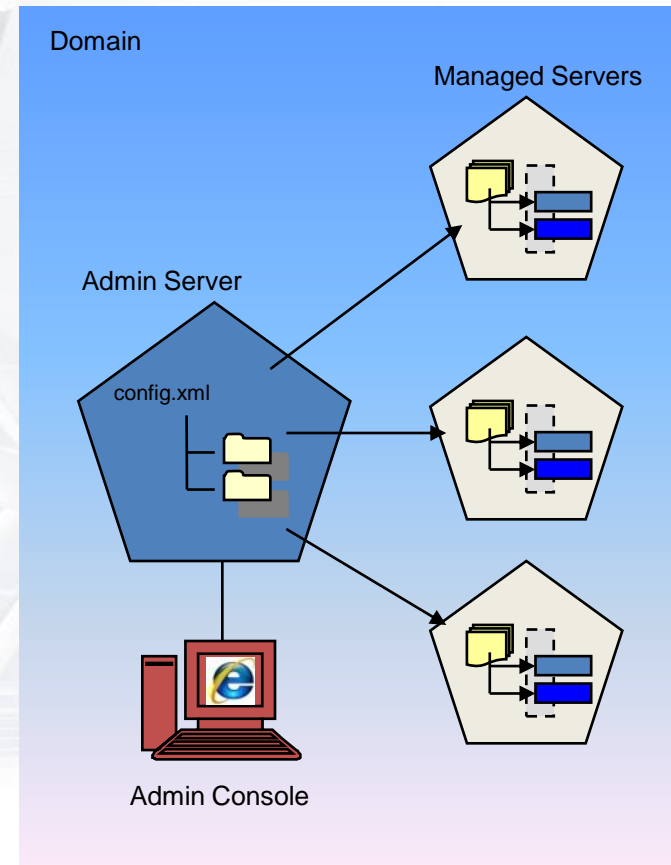
- Zentrale Konfigurations und Administrations Einheit

## ■ Aufgaben

- Admin-Console
- Monitor aller Ressourcen
- Start and Stop
- Deployment von Anwendungen

## ■ Regeln

- Nur ein Admin Server / Domain
- In Produktions-Umgebungen den Admin Server nicht als Applikation Server nutzen
- Admin Server ist kein SPOF



## ■ Grundidee

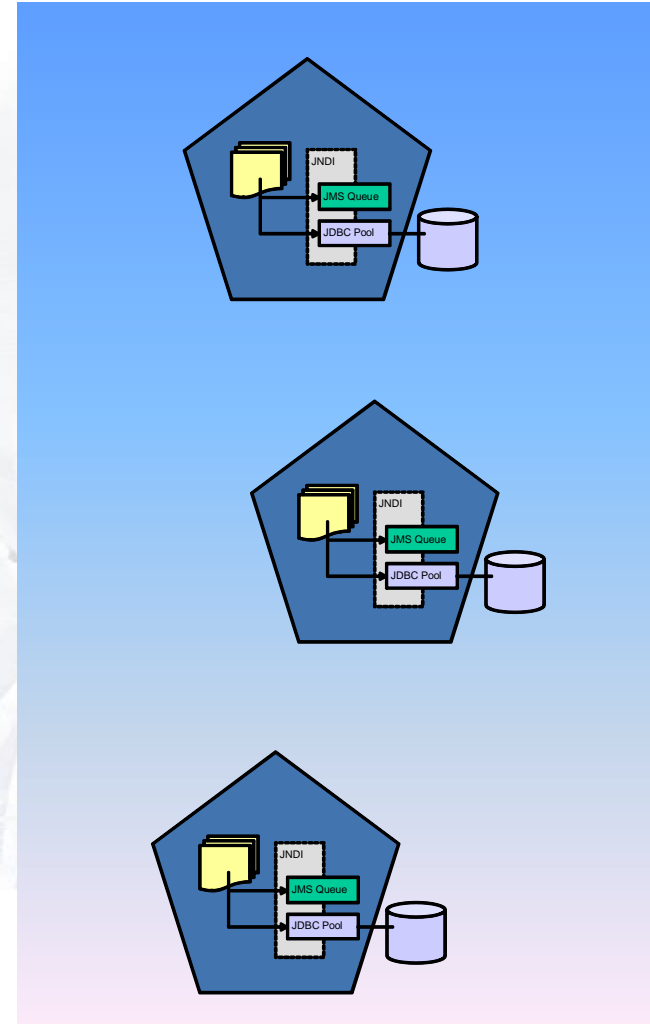
- Stellt die Ressourcen bereit wie Anwendungen, Komponenten etc.

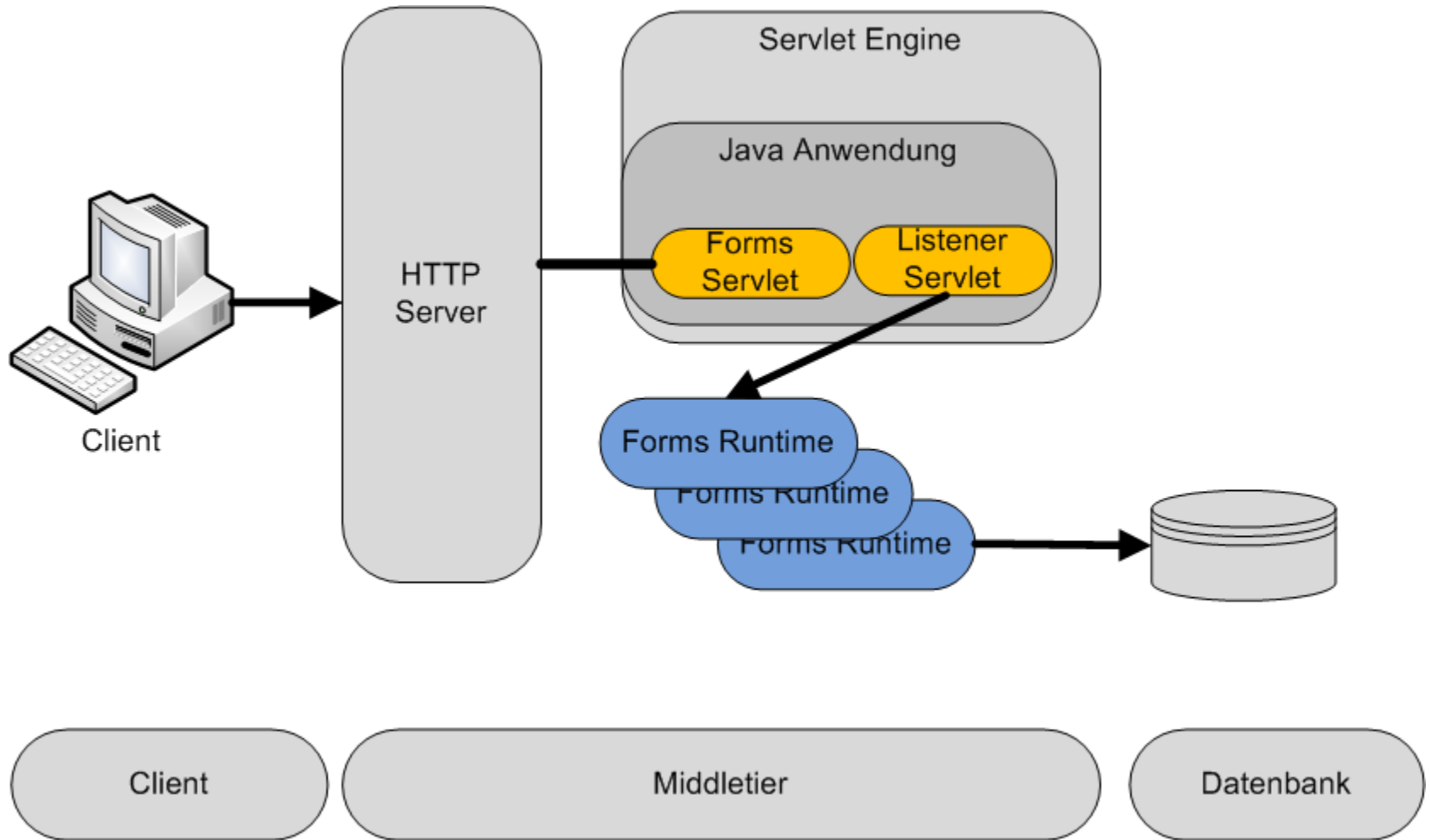
## ■ Aufgaben

- „Arbeitstier“
- Betreiben, Skalieren oder Optimieren von JEE Anwendungen und Layer

## ■ Regeln

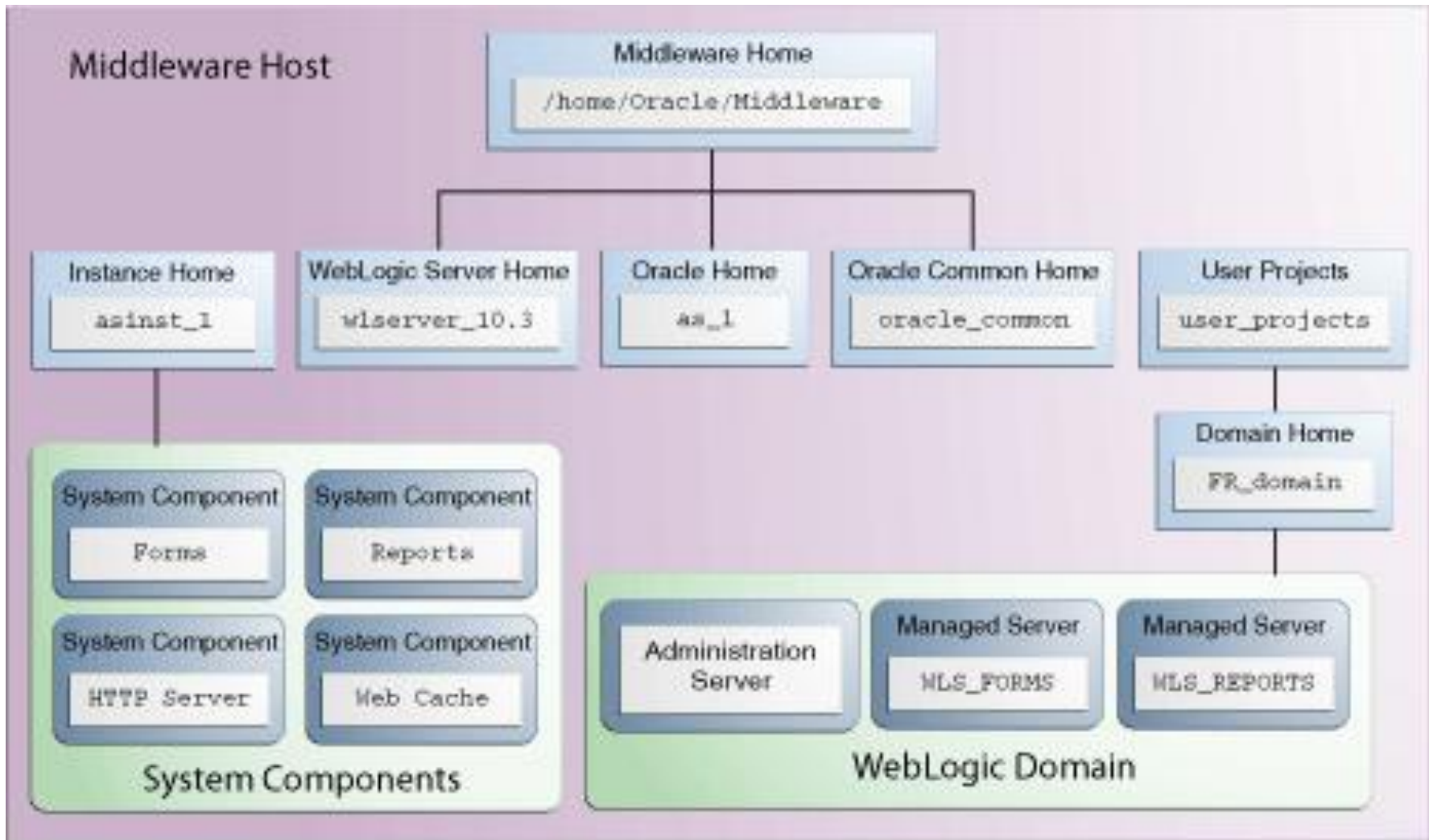
- eine JVM pro Server
- Administration erfolgt mit dem Admin Server
- "Read-Only" kopie der Domain Konfiguration
- Keine Beschränkung in der Anzahl der Managed Server

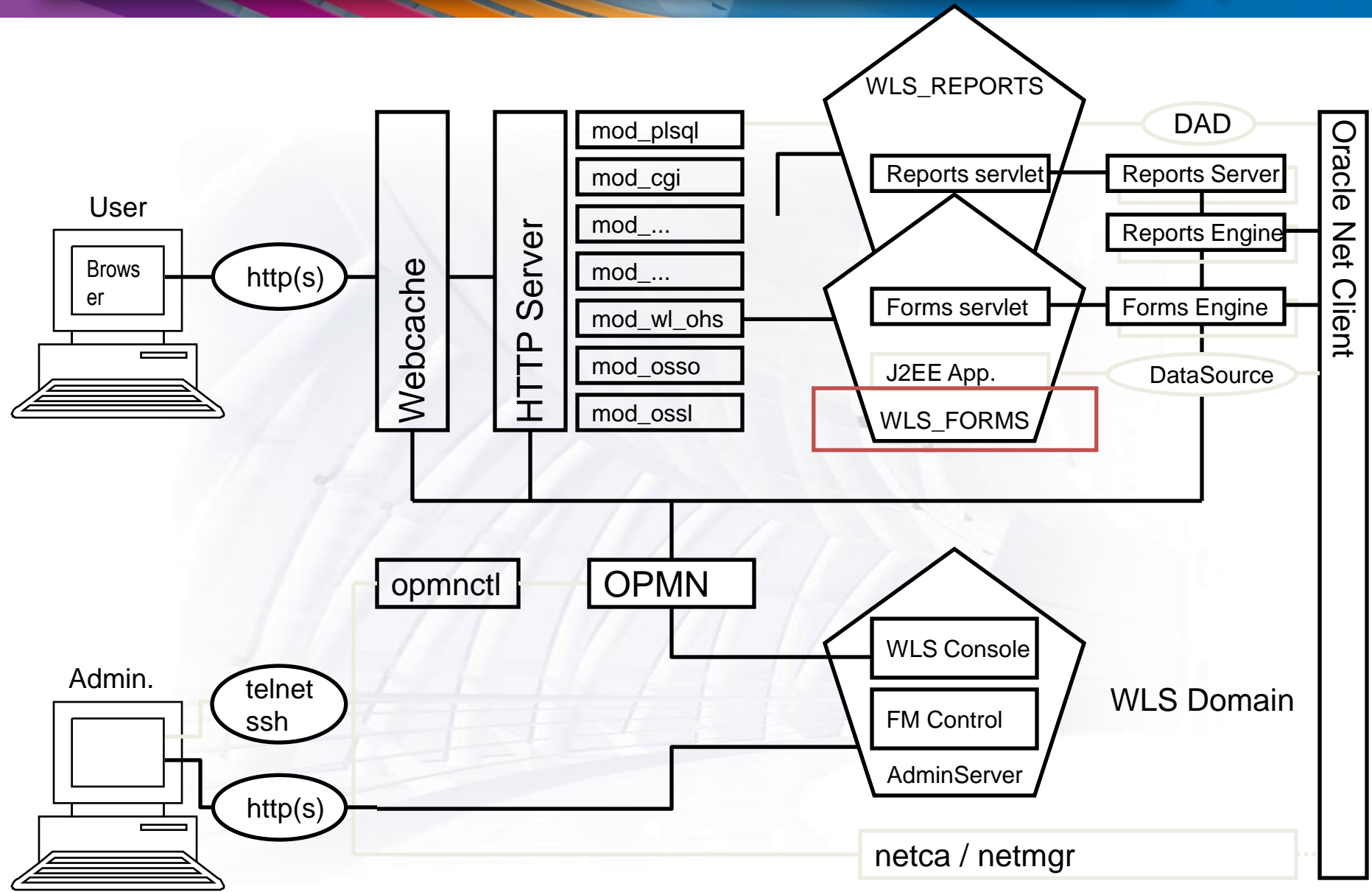


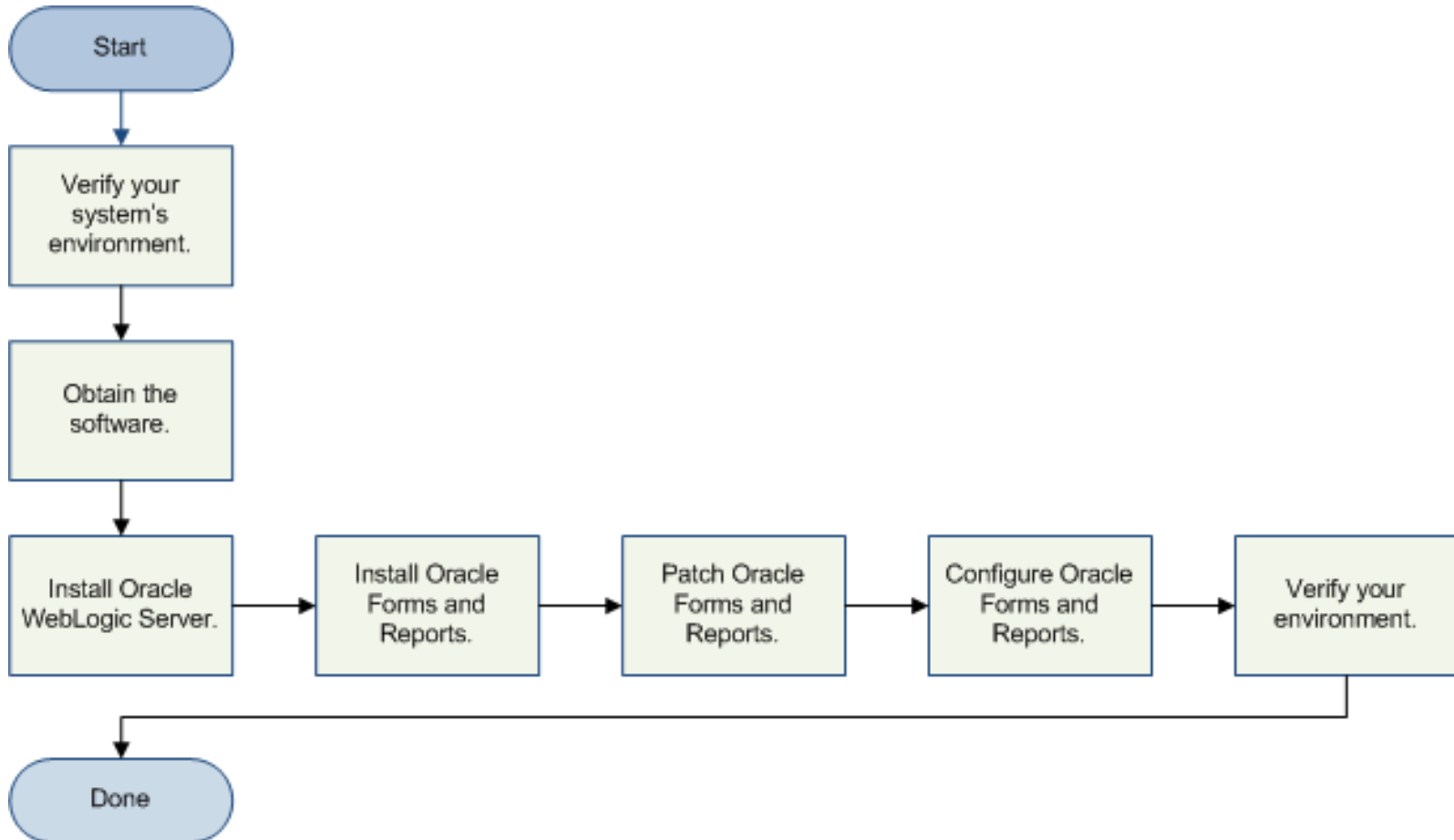


- A **Java component**, which is an Oracle Fusion Middleware component that is deployed as one or more Java EE applications and a set of resources. Java components are deployed to an Oracle WebLogic Server domain as part of a domain template. Examples of Java components are the Oracle SOA Suite and Oracle WebCenter components
- A **system component**, which is a manageable process that is not deployed as a Java application. Instead, a system component is managed by Oracle Process Manager and Notification (OPMN). The system components are

10g	11g
<ul style="list-style-type: none"><li>■ Eine Installation</li></ul>	<ul style="list-style-type: none"><li>■ Bis zu drei Installationen</li></ul>
<ul style="list-style-type: none"><li>■ Einen OC4J bei Bedarf default_island anpassen</li></ul>	<ul style="list-style-type: none"><li>■ Nur einen WLS_FORMS</li></ul>
<ul style="list-style-type: none"><li>■ HTTP Server / WebCache</li></ul>	<ul style="list-style-type: none"><li>■ HTTP Server/ WebCache optional</li></ul>
<ul style="list-style-type: none"><li>■ Applikation Server Control (ias_admin)</li></ul>	<ul style="list-style-type: none"><li>■ Je nach Aufgabe Console/EM-Console</li></ul>
<ul style="list-style-type: none"><li>■ Nur 32-Bit Systeme</li></ul>	<ul style="list-style-type: none"><li>■ 32/64 Bit Systeme</li></ul>
<ul style="list-style-type: none"><li>■ Jinitiator</li></ul>	<ul style="list-style-type: none"><li>■ Nur noch Sun Java Plugin</li></ul>
<ul style="list-style-type: none"><li>■ Nur ein Verzeichnis ORACLE_HOME</li></ul>	<ul style="list-style-type: none"><li>■ Neue Verzeichnisstruktur ORACLE_HOME, ORACLE_INSTANCE, DOMAIN</li></ul>







Update Guide for Portal, Forms, Reports and Discoverer 11gR1

[http://docs.oracle.com/cd/E23943\\_01/upgrade.1111/e10130/toc.htm](http://docs.oracle.com/cd/E23943_01/upgrade.1111/e10130/toc.htm)

Quick Install Guide for Portal, Forms, Reports and Discoverer

[http://docs.oracle.com/cd/E23943\\_01/install.1111/e12003/toc.htm](http://docs.oracle.com/cd/E23943_01/install.1111/e12003/toc.htm)

Installation Guide for Oracle Portal, Forms, Reports and Discoverer

[http://docs.oracle.com/cd/E23943\\_01/install.1111/e10421/toc.htm](http://docs.oracle.com/cd/E23943_01/install.1111/e10421/toc.htm)

Update Guide for Forms, Reports 11gR2

[http://docs.oracle.com/cd/E24269\\_01/doc.11120/e23975/toc.htm](http://docs.oracle.com/cd/E24269_01/doc.11120/e23975/toc.htm)

Install Guide for Forms, Reports

[http://docs.oracle.com/cd/E24269\\_01/doc.11120/e23960/toc.htm](http://docs.oracle.com/cd/E24269_01/doc.11120/e23960/toc.htm)

## How to Check Oracle Fusion Middleware 11g and WebLogic Component Versions? [ID 1151602.1]

WebLogic Server	Repository Creation Utility	Fusion Middleware Products	JDeveloper
10.3.6	11.1.1.6	11.1.1.6	11.1.1.6
10.3.5	11.1.1.5 / 11.1.1.6	11.1.1.5 / 11.1.1.6 / 11.1.2.0.0	11.1.1.5 / 11.1.1.6
10.3.4	11.1.1.4	11.1.1.4	11.1.1.4
10.3.3	11.1.1.3	11.1.1.3	11.1.1.3
10.3.2	11.1.1.2	11.1.1.2	11.1.1.2
10.3.1	11.1.1.1	11.1.1.1	11.1.1.1

## Oracle® Fusion Middleware

Upgrade Guide for Oracle **Oracle® Fusion Middleware**

11g Release 1 (11.1.1)

E10130-01

May 2009

Upgrade Guide for Oracle | **Oracle® Fusion Middleware**

11g Release 1 (11.1.1)

E10130-02

October 2009

Upgrade Guide for Oracle F **Oracle® Fusion Middleware**

11g Release 1 (11.1.1)

E10130-03

April 2010

**Oracle® Fusion Middleware**  
 Upgrade Guide for Oracle Portal, Forms, Reports, and Discoverer  
 11g Release 1 (11.1.1)  
**E10130-04**  
 January 2011

Oracle WebLogic Server Product Documentation

Oracle WebLogic Server 11g Release 1

Part Number	Link	Download	Description
E14571-01	<a href="#">View Library</a>	<a href="#">Download</a> (0.94 GB)	Oracle WebLogic Server Online Documentation Library 11g Release 1 (10.3.3)
E15523-01	<a href="#">View Library</a>	<a href="#">Download</a> (865.73 MB)	Oracle WebLogic Server Online Documentation Library 11g Release 1 (10.3.2)
E12839-01	<a href="#">View Library</a>	<a href="#">Download</a> (701.91 MB)	Oracle WebLogic Server Online Documentation Library 11g Release 1 (10.3.1)
E12840-01	<a href="#">View Library</a>	<a href="#">Download</a> (185.34 MB)	Oracle WebLogic Server Online Documentation Library 11g Release 1 (10.3)

## 11.1.1.1

default.env Location: <DOMAIN\_DIR>/servers/WLS\_FORMS/stage/formsapp/11.1.1/formsapp/config

formsweb.cfg Location: <DOMAIN\_DIR>/servers/WLS\_FORMS/stage/formsapp/11.1.1/formsapp/config.

## 11.1.1.2

default.env Location:

\$DOMAIN\_HOME/config/fmwconfig/servers/<MANAGED\_SERVER>/applications/<appname>\_<appversion>/config

formsweb.cfg Location:

\$DOMAIN\_HOME/config/fmwconfig/servers/<MANAGED\_SERVER>/applications/<appname>\_<appversion>/config

## 11.1.1.3

default.env Location:

\$DOMAIN\_HOME/config/fmwconfig/servers/<MANAGED\_SERVER>/applications/<appname>\_<appversion>/config

formsweb.cfg Location:

\$DOMAIN\_HOME/config/fmwconfig/servers/<MANAGED\_SERVER>/applications/<appname>\_<appversion>/config

## 11.1.1.4

default.env Location:

\$DOMAIN\_HOME/config/fmwconfig/servers/<MANAGED\_SERVER>/applications/<appname>\_<appversion>/config

formsweb.cfg Location:

\$DOMAIN\_HOME/config/fmwconfig/servers/<MANAGED\_SERVER>/applications/<appname>\_<appversion>/config

## Dr Jürgen Menge:

### ■ Installation von Oracle Fusion Middleware 11g - Forms & Reports vom 22.07.2009

- Loopback-Adapter
- 4,5 GByte Plattenplatz
- 2 GByte Hauptspeicher

### ■ Domain vom Typ Classic

- klassischen Produkte von Oracle

### ■ Erweiterung

- Hinzufügen von Komponenten
  - Oracle Instance

- Oracle liefert mit der Installation den Migration Assistant. Dieser bietet die Möglichkeit das Zielsystem automatisiert zu konfigurieren
- Voraussetzung dafür
  - Source und Target befinden sich auf demselben Host
- Die Konfiguration wird manuell angepasst

- Die notwendigen Schritte können selber gesteuert werden
- Probleme sind besser nachvollziehbar
- Größere Flexibilität
- Bei Umzug auf andere Hardware zwingend notwendig
- Für Einsteiger besser „Lerneffekt“

## Bei jeder Installation wiederkehrende Fragen

- Wieviel Forms Server brauche ich?
- Wieviel RAM brauche ich bei 100 Usern (Hardware)?
- Wieviele Report Server benötige ich?
- Wie viel Heapsize sollte der Forms Server bekommen (mehr als 1024 MB) ?

- **Oracle has no specific documents that state**
  - "if you have X number of users you will need Y amount of RAM and Z amount of CPU speed".
  
- **Oracle Application Server Forms Services 10g (9.0.4) Capacity Planning Guide**

Seite 14 "The only **true** way to test the scalability for your application is to run your own benchmarking tests"

Total memory = Memory for the operating system + Base Application Server memory + Memory consumed per user \* # of Users + Average free memory

Memory consumed per user = ( Total Memory - Memory for the operating system - Base Application Server memory - Average free memory ) / # of Users

### Timing and event controls

**Start the load test**

- When the start button is pressed
- After a delay of (hh:mm:ss)  :  :
- At a specific time (hh:mm:ss)  :  :
- Synchronize VU start up

**Stop the load test**

- When the stop button is pressed
- Iterations played by each user:
- After a delay of (hh:mm:ss)  :  :
- At a specific time (hh:mm:ss)  :  :

**Virtual user (VU) ramp-up**

Add per step      After every

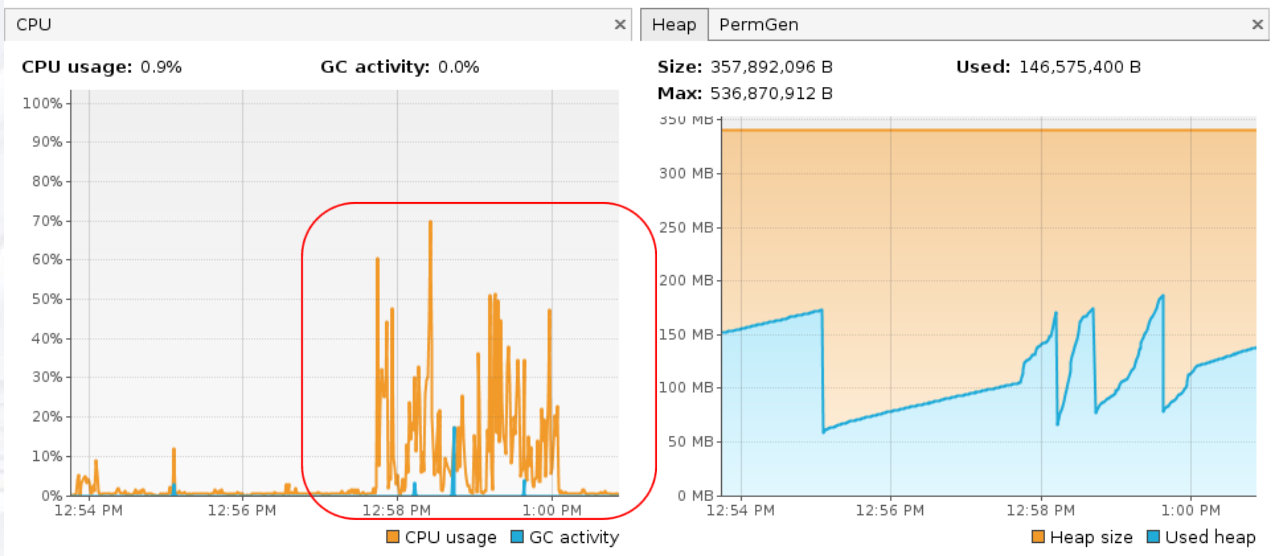
- 100 users       10 seconds
- 10 percent       10 iterations

Overview | **Monitor** | Threads | Sampler | Profiler

At  :  :  **WebLogic (pid 5998)**

Monitor  CPU  Memory  Classes  Threads

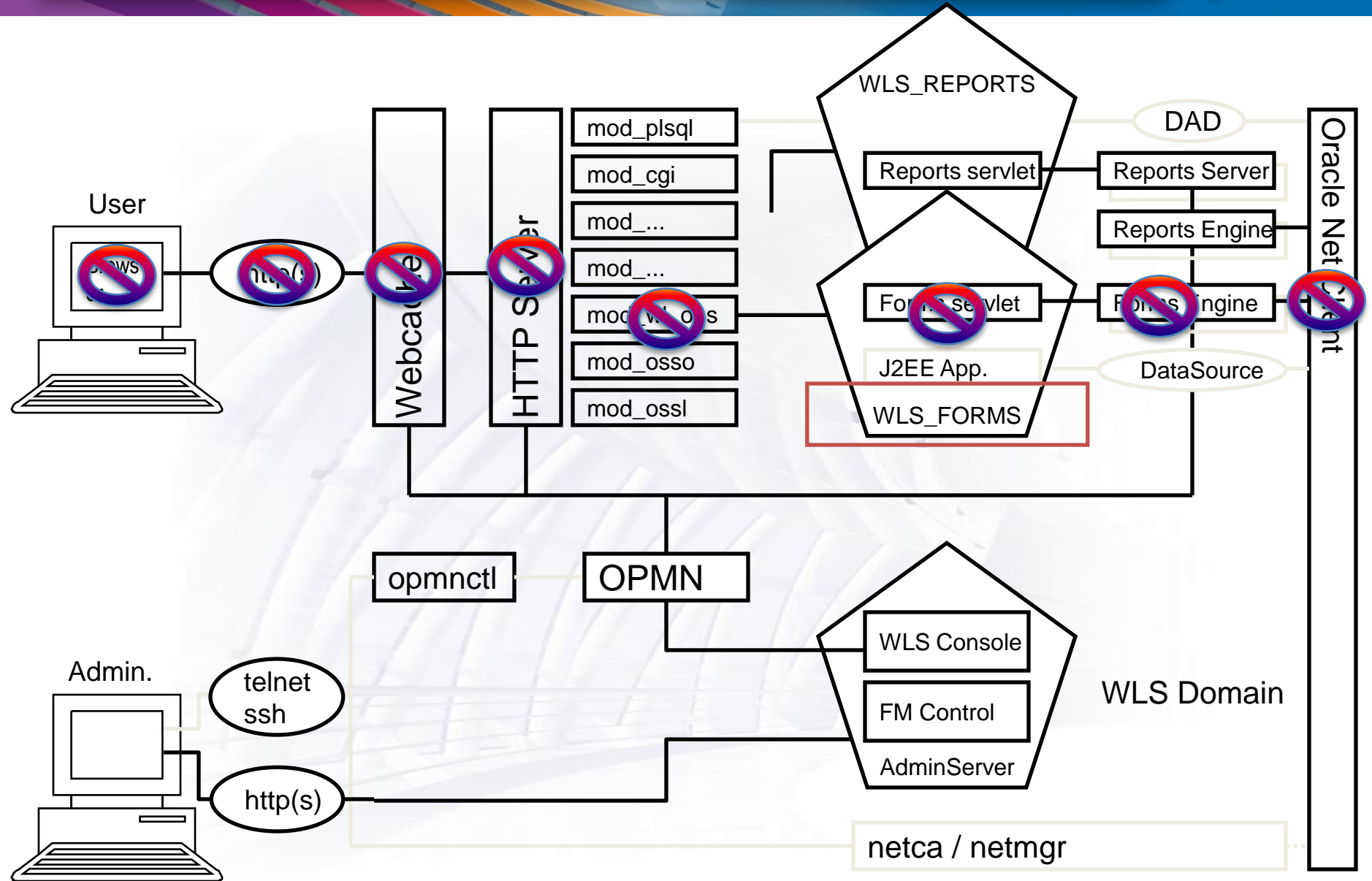
Uptime: 13 min 05 sec Perform GC   Heap Dump



- Unter 10g Möglichkeit im laufenden Betrieb zweite JVM hinzuzufügen
  
- Unter 11g nur noch über “Clone” oder “config.bat/sh” möglich
  - Neue Instance
  - Nur machbar wenn bei der ersten Konfiguration “Cluster” gesetzt ist
  
- Achtung Lizens “Falle”

- Es gab bis 2011 keine Schulung bei Oracle
- Habe den Kurs für Administratoren erstellt
  - Mittlerweile über 150 Teilnehmer
- Unwissenheit der Administratoren
- Alles was den Namen „Oracle“ schreiben kann wird für den Applikation Server zuständig (häufig DBA's)

<http://www.pitss.de/services/trainings/administration/weblogicserver-forms-reports-fuer-administratoren/>



## Anwendung für Inkasso Unternehmen

- Es gab bis 2011 keine Schulung bei Oracle
- Vorher C/S nur sichtbar für die 20 Anwender die die Software auf ihrem Client hatten
- Umstellung auf 10gR2 für alle Mitarbeiter im Unternehmen per URL sichtbar
- **Projekt wurde eingestellt**

## Chemie Konzern

- Nach der Umstellung auf Webserver waren die Rezepturen per URL abrufbar.
- Drei Tage vor Produktivsetzung **PANIK!**

**Thank You**

**For Your Attention!**

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**The Oracle Modernization Experts**