

# Informix Operational Guide SOP

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## Informix Operational Guide

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## Knowledge Document Version History

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## Distribution list

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## Intended Audience

The document is relevant to following teams.

- TSSC ADBA Team
- ADBA Team Germany

## Source Documents Reference

S.NO	Title	Link
1.	Confluence	<a href="#">Informix Database - TIDE_ADBA - Vodafone Global Confluence</a>
2.	IBM	<a href="#">IBM Informix V14.10 documentation - IBM Documentation</a>

## Project: Epos Informix

### 1. Introduction

This document should give a short introduction to the RDBMS Informix Dynamic Server (Workgroup Edition). Important things regarding architecture, connectivity and often used commands and applications are described.

Beside this technical view the implementation in the workflow as part of the mobile business cases at Vodafone is also described.

Tramo is part of the Vodafone Germany's activation channel for all mobile phone order types. All Vodafone shops (branches), all partner agencies and all retailers distributing Vodafone products process their orders via the so-called ePOS client. (ePOS: = electronic point of sale)

Here - simplified - the chain of involved systems :

CSM60	Epos-Client	KIAS	VAS/Tramo	Epos-Server

The Tramo environment was introduced in 1999 together with the legacy system KIAS.

## 2. Topology

### 2.1. Oracle Topology

The OL1 and OL3 databases are involved in the order flow. From EPOS, order is passed to VAS(Vodafone Activate Server) and from embedded Informix instances they were picked up by daemons belonging to KIAS and are passed to OL3 and OL1. Complete Oracle topology is not in scope of this document.

### 2.2. Informix Topology

We have four production database instances running on cluster servers adetrmdb1 and adetrmdb2 and all are critical, whereas pre-prod instances are on server adetrm1s. On server adevas3s we have 2 important instances one is for BSM monitoring and other one is for blob counter tool: which gives information about amount of order types.



```
arsoc@ratakt1_vm      tochgreq@ratakt1_vm
erwerb@ratakt1_vm    tochgval@ratakt1_vm
misc@ratakt1_vm
subvent@ratakt1_vm
subventmulti@ratakt1_vm
sysadmin@ratakt1_vm
sysmaster@ratakt1_vm
sysuser@ratakt1_vm
sysutils@ratakt1_vm
```

#### **ratakt1\_vm:**

```
=====
arsoc@ratakt1_vm
tochgreq@ratakt1_vm
erwerb@ratakt1_vm
tochgval@ratakt1_vm
misc@ratakt1_vm
subvent@ratakt1_vm
subventmulti@ratakt1_vm

sysadmin@ratakt1_vm
sysmaster@ratakt1_vm
sysuser@ratakt1_vm
sysutils@ratakt1_vm
```

#### **ratakt2\_vm:**

```
=====
aktiv_imp@ratakt2_vm
port_aktiv@ratakt2_vm
tausch@ratakt2_vm
wechsel@ratakt2_vm

sysadmin@ratakt2_vm
sysmaster@ratakt2_vm
sysuser@ratakt2_vm
sysutils@ratakt2_vm
```

#### **ratakt4\_vm:**

```
=====
rueckmeldung@ratakt4_vm
benutzer@ratakt4_vm
```

sysadmin@ratakt4\_vm  
sysmaster@ratakt4\_vm  
sysuser@ratakt4\_vm  
sysutils@ratakt4\_vm

#### ratcalp2\_vm:

=====

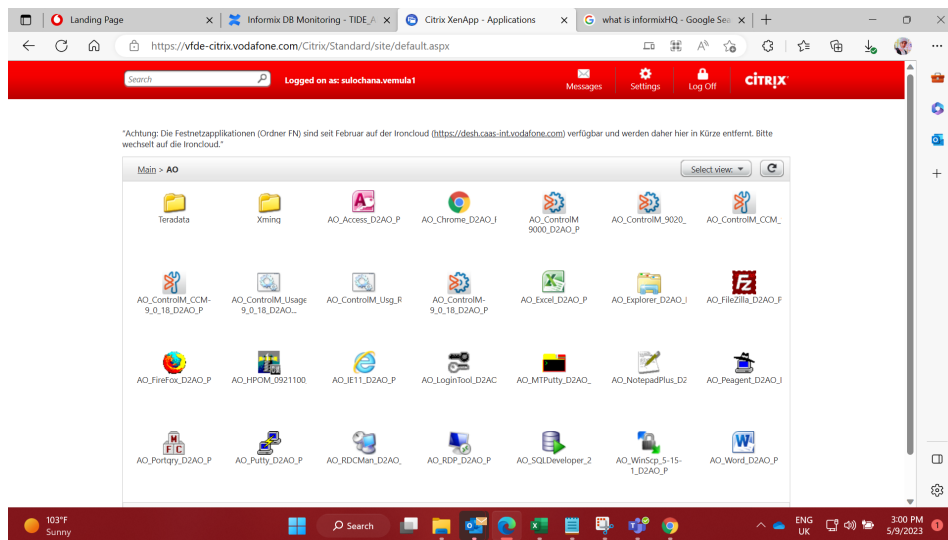
debtch@ratcalp2\_vm  
port\_reg@ratcalp2\_vm  
reg@ratcalp2\_vm  
reg\_imp@ratcalp2\_vm

sysadmin@ratcalp2\_vm  
sysmaster@ratcalp2\_vm  
sysuser@ratcalp2\_vm  
sysutils@ratcalp2\_vm

## 2.3. Monitoring

### 2.3.1. InformixHQ (Monitoring Tool)

**Step1:** Login into the link by using your DE credentials: [Citrix XenApp - Applications \(vodafone.com\)](https://vfd-citrix.vodafone.com/Citrix/Standard/site/default.aspx)



**Step2:** Open any of the Web Browser & Enter the following link: <http://tramo-vm1:8090/login>

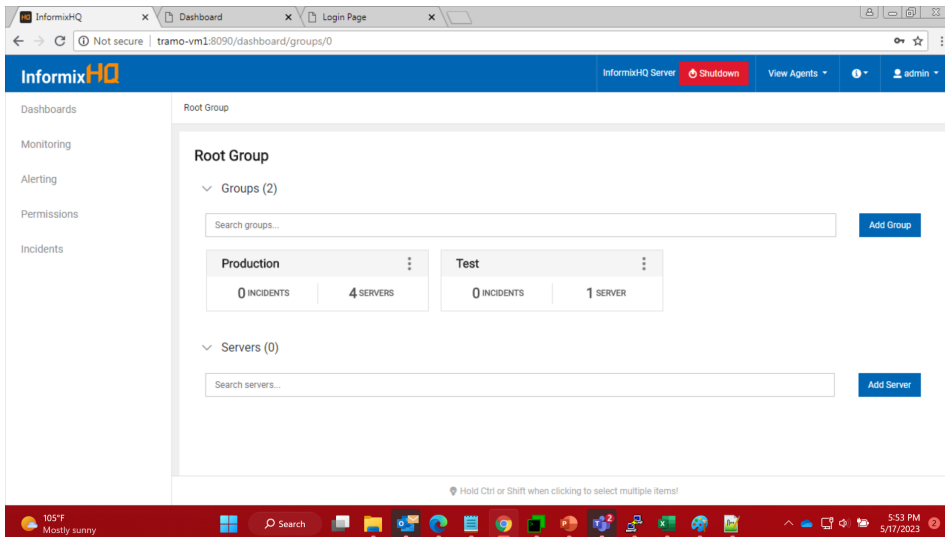


**Step3:** Login into the tool by using username & password.

Username: informix

Password: Informix@1234

**Step4:** Here is the Web Console of InformixHQ tool.



For complete information of monitoring the InformixHQ, please visit below link:

[Informix HQ Monitoring - TIDE\\_ADBA - Vodafone Global Confluence](#)

For Monitoring the Particular instance in InformixHQ, please visit below link:

[Instance Monitoring in InformixHQ - TIDE\\_ADBA - Vodafone Global Confluence](#)

## 2.3.2. Informix DB Monitoring

We will be monitoring Informix databases through below link with complete commands:

[Informix DB Monitoring - TIDE\\_ADBA - Vodafone Global Confluence](#)

[Basic Monitoring Commands - TIDE\\_ADBA - Vodafone Global Confluence](#)

# 3. Informix Operational Aspects

## 3.1. Operational Concept

We will be handling L1 level tasks listed below :

### L1 Task:

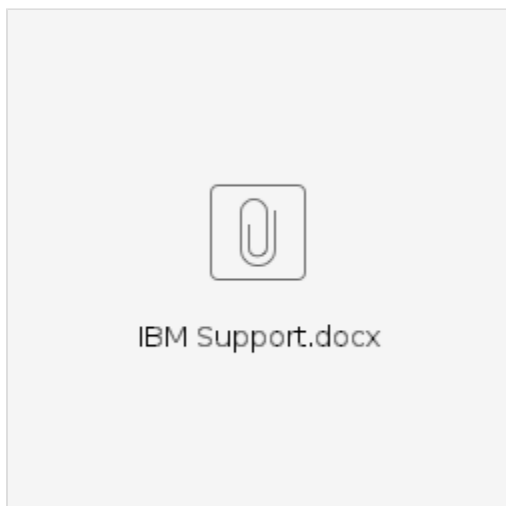
- **Health check**
- Disk space check
- Session utilization check
- Server load check
- Instance & Logical log Backup check for success & time taken
- Logical log generation frequency & backup check

- Oninit process count check
- Kill session
- Ticket handling
- Hotline
- **House Keeping task**
- Flush memory stats (onstat -z)
- Purging of important log file : online.log, batact.log
- Table fragmentation check
- **Passport advantage : Request progress monitoring** ([https://www.ibm.com/software/passportadvantage/pao\\_customer.html](https://www.ibm.com/software/passportadvantage/pao_customer.html))

## 3.2. Informix Support

IBM provides support for Informix under <https://www.ibm.com/account/de/de/>

Please refer below document for creating IBM Informix support account.



**For creating the care, please refer below page:**

[How To Open Case - TIDE\\_ADBA - Vodafone Global Confluence](#)

## 3.3. Vodafone Internal Support

Any issue related to Informix will be reported by means of an incident ticket to TIMD, TTWOS categories are not yet finalized. (We will be adding information regarding this as we agree to all the process)

We can also open a case to IBM passport advantage portal as mentioned in 3.2(yet to finalize). (OPEN)

## 3.4. Project Related Access

We are having all the project related accesses.

### 1. Informix Login:

From sylt3

ssh <Your\_LDAP\_ID>@adetrddb1 OR adetrddb2 (Check Active Host & Connect)

Note: ADBM UNIX user has no access on server

## 2. Copy switch file from /opt/informix to your home directory

cd /opt/informix

### Files:

switch\_ratakt1\_vm.sh  
switch\_ratakt2\_vm.sh  
switch\_ratakt4\_vm.sh  
switch\_ratcalp2\_vm.sh  
switch\_ratakt6\_vm.sh

## 3. Now switch to desired instance as below

1. Whenever we can login into server (ssh informix@adetrmdb1) we need to do the "bash"

```
adbm@de0922yr:~ $ ssh informix@adetrmdb1
Last login: Tue May 16 10:27:38 2023 from 198.18.108.244
Oracle Corporation      SunOS 5.11      11.4      March 2021
You have mail.
informix@adetrmdb1:~$ aa
-ksh: aa: not found
informix@adetrmdb1:~$ bash
informix@adetrmdb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrmdb1:/opt/informix> ss
ratakt1_vm
informix@adetrmdb1:/opt/informix> █
```

2. If we want to Switch from one Instance to another, we can use below command.

```
informix@adetrmdb1:/opt/informix> ss
ratakt1_vm
informix@adetrmdb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrmdb1:/opt/informix> . ./switch_ratakt4_vm.sh
informix@adetrmdb1:/opt/informix> ss
ratakt4_vm
informix@adetrmdb1:/opt/informix> █
```

## 3.5. To Start/Stop Informix Services

Please note that we need to do these tasks in co-ordination with Application Team so communicate with them before and after each task. Here we have just mentioned ADBA tasks. Refer document for this Section from section 5 (SOP-Informix -START-STOP-new.DOCX) for when to co-ordinate Application Team.

While stopping Informix we need to disable Informix monitoring by stopping all subscripsts and the main process

**Decide whether it is necessary to make a full backup for all instances:**

1. Stop the Informix Database Servers

Switch to every instance and stop the instance:

1a. Switch to instance ratakt1\_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix>
informix@adetrddb1:/opt/informix>
informix@adetrddb1:/opt/informix> . ./switch_ratakt1_vm.sh
informix@adetrddb1:/opt/informix> ss
ratakt1_vm
informix@adetrddb1:/opt/informix> █
```

./stop\_ratakt4.sh

1b. Switch to instance ratakt2\_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix> . ./switch_ratakt2_vm.sh
informix@adetrddb1:/opt/informix> ss
ratakt2_vm
informix@adetrddb1:/opt/informix> █
```

./stop\_ratakt2.sh

1c. Switch to instance ratakt4\_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix> . ./switch_ratakt4_vm.sh
informix@adetrddb1:/opt/informix> ss
ratakt4_vm
informix@adetrddb1:/opt/informix> █
```

./stop\_ratcalp2.sh

1d. Switch to instance ratcalp2\_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix> . ./switch_ratcalp2_vm.sh
informix@adetrddb1:/opt/informix> ss
ratcalp2_vm
informix@adetrddb1:/opt/informix> █
```

./stop\_ratakt1.sh

Remark:



If the shutdown of one or more Informix instances will not work properly, the procedure 'onclean' has to be called (but this should not happen). Refer document for 'onclean' from section 5 (onclean-utility.docx).

#### Deactivate all crontab jobs for user tramo (application task) and informix on adetrmdb2 (OR) adetrmdb1

1. Start Informix Services
2. Activate all crontab jobs for user tramo.(Application Task)
3. Verify all necessary devices
4. As user Informix in \$HOME directory start the Informix Database Servers

Switch to each instance before starting the Instance ( do it one by one )

1a. Switch to instance ratakt1\_vm like below:

```
informix@adetrmdb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrmdb1:/opt/informix>
informix@adetrmdb1:/opt/informix>
informix@adetrmdb1:/opt/informix> . ./switch_ratakt1_vm.sh
informix@adetrmdb1:/opt/informix> ss
ratakt1_vm
informix@adetrmdb1:/opt/informix> █
```

. ./start\_ratakt1.sh =====> do this ratakt1\_vm

1b. Switch to instance ratakt2\_vm like below:

```
informix@adetrmdb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrmdb1:/opt/informix> . ./switch_ratakt2_vm.sh
informix@adetrmdb1:/opt/informix> ss
ratakt2_vm
informix@adetrmdb1:/opt/informix> █
```

. ./start\_ratakt2.sh =====> do this ratakt2\_vm

1c. Switch to instance ratakt4\_vm like below:

```
informix@adetrmdb1:/opt/informix> aa
. ./switch_ratakt1_vm.sh == ratakt1 PROD INSTANCE
. ./switch_ratakt2_vm.sh == ratakt2 PROD INSTANCE
. ./switch_ratakt4_vm.sh == ratakt4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrmdb1:/opt/informix> . ./switch_ratakt4_vm.sh
informix@adetrmdb1:/opt/informix> ss
ratakt4_vm
informix@adetrmdb1:/opt/informix> █
```

. ./start\_ratakt4.sh =====> do this ratakt4\_vm

1d. Switch to instance ratcalp2\_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_rataktpl1_vm.sh == rataktpl1 PROD INSTANCE
. ./switch_rataktpl2_vm.sh == rataktpl2 PROD INSTANCE
. ./switch_rataktpl4_vm.sh == rataktpl4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix> . ./switch_ratcalp2_vm.sh
informix@adetrddb1:/opt/informix> ss
ratcalp2_vm
informix@adetrddb1:/opt/informix> █
```

./start\_ratcalp2.sh =====> do this ratcalp2\_vm

## Take level 0 backup

Switch to each instance before taking backup ( do it one by one )

1a. Switch to instance rataktpl1\_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_rataktpl1_vm.sh == rataktpl1 PROD INSTANCE
. ./switch_rataktpl2_vm.sh == rataktpl2 PROD INSTANCE
. ./switch_rataktpl4_vm.sh == rataktpl4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix>
informix@adetrddb1:/opt/informix>
informix@adetrddb1:/opt/informix> . ./switch_rataktpl1_vm.sh
informix@adetrddb1:/opt/informix> ss
rataktpl1_vm
informix@adetrddb1:/opt/informix> █
```

onbar -b -L 0 =====> do this rataktpl1\_vm

1b. Switch to instance rataktpl2\_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_rataktpl1_vm.sh == rataktpl1 PROD INSTANCE
. ./switch_rataktpl2_vm.sh == rataktpl2 PROD INSTANCE
. ./switch_rataktpl4_vm.sh == rataktpl4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix> . ./switch_rataktpl2_vm.sh
informix@adetrddb1:/opt/informix> ss
rataktpl2_vm
informix@adetrddb1:/opt/informix> █
```

onbar -b -L 0 =====> do this rataktpl2\_vm

1c. Switch to instance rataktpl4\_vm like below:

```
informix@adetrddb1:/opt/informix> aa
. ./switch_rataktpl1_vm.sh == rataktpl1 PROD INSTANCE
. ./switch_rataktpl2_vm.sh == rataktpl2 PROD INSTANCE
. ./switch_rataktpl4_vm.sh == rataktpl4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrddb1:/opt/informix> . ./switch_rataktpl4_vm.sh
informix@adetrddb1:/opt/informix> ss
rataktpl4_vm
informix@adetrddb1:/opt/informix> █
```

onbar -b -L 0 =====> do this rataktpl4\_vm

1d. Switch to instance ratcalp2\_vm like below:

```
informix@adetrmdb1:/opt/informix> aa
. ./switch_rataktp1_vm.sh == rataktp1 PROD INSTANCE
. ./switch_rataktp2_vm.sh == rataktp2 PROD INSTANCE
. ./switch_rataktp4_vm.sh == rataktp4 PROD INSTANCE
. ./switch_ratcalp2_vm.sh == ratcalp2 PROD INSTANCE
. ./switch_adetrtest_vm.sh == adetrtest TEST
informix@adetrmdb1:/opt/informix> . ./switch_ratcalp2_vm.sh
informix@adetrmdb1:/opt/informix> ss
ratcalp2_vm
informix@adetrmdb1:/opt/informix> █
```

onbar -b -L 0           =====> do this ratcalp2\_vm

cat /opt/Informix/IDS/12.10/tmp/bar\_act1.log | grep "Archive on rootdbs, datadbs1, datadbs2 Completed (Requested Level 0)"  
(with actual timestamp)

- 1. Activate all crontab jobs for user Informix
- 2. Check if all activate daemons are up and running

```
onstat -
onstat -D
onstat -l
onstat -m
```

- 1. Enable Informix monitoring from TSSC-DBA-Team
- Starting all subscripts and the main process

# 4. Project and Contacts

	Contact Numbers	Email Id
Oncall and Hotline Details	+492115334959	
ePOS Hotline	+491737257322	
ePOS OnCall	+919168667516	
TSSC OnCall		
EPOS Team E-Mail Address	EPOS_APPL	<a href="mailto:DL-DE TISF_ePos_Support [ZV] - MXL &lt;TISF-ePos-Support-ZV.de@vodafone.com&gt;">DL-DE TISF_ePos_Support [ZV] - MXL &lt;TISF-ePos-Support-ZV.de@vodafone.com&gt;</a>
EPOS Team's TTWOS Group		
Group leader TIMP		

<p>TIMP Team Members</p> <p>Group leader TIMP</p> <p>EPOS SO</p>	<p>Stefan Jörg Siering</p> <p>Hans-Joachim Aberle</p> <p>Jürgen Grosch</p> <p>Jörg Franken</p> <p>Alexander Hartmann</p> <p>Martin Jordan</p> <p>Dieter Moulin</p> <p>Jürgen Grosch</p>	<p><a href="mailto:stefan.siering@vodafone.com">stefan.siering@vodafone.com</a></p> <p><a href="mailto:hans-joachim.aberle@vodafone.com">hans-joachim.aberle@vodafone.com</a></p> <p><a href="mailto:juergen.grosch@vodafone.com">juergen.grosch@vodafone.com</a></p> <p><a href="mailto:joerg.franken@vodafone.com">joerg.franken@vodafone.com</a></p> <p><a href="mailto:alexander.hartmann@vodafone.com">alexander.hartmann@vodafone.com</a></p> <p><a href="mailto:martin.jordan@vodafone.com">martin.jordan@vodafone.com</a></p> <p><a href="mailto:dieter.moulin@vodafone.com">dieter.moulin@vodafone.com</a></p> <p><a href="mailto:Juergen.Grosch@vodafone.com">Juergen.Grosch@vodafone.com</a></p>
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<p>Contact for Vodafone Group / VTIS Service Desk</p>	<p>+492102972575</p>	
<p>Backup Team DL</p> <p>Contact person</p>	<p>DL-VISPL-BCK-COP</p> <p>Dinesh Sakhuja</p> <p>Megha Prapanna</p>	<p><a href="mailto:DL-INFRA-BACKUP-TSSC &lt;DL-INFRA-BACKUP-TSSC@vodafone.com&gt;">DL-INFRA-BACKUP-TSSC &lt;DL-INFRA-BACKUP-TSSC@vodafone.com&gt;</a></p>

## 5. References

### 5.1. Informix@Tramo

Please refer below document for basic architecture and commands.



## 5.2. Application Flow

Please find below the document for Application flow and involved systems.



TRAMO-5.2.docx

## 5.3. Migration Task

Refer below text for migration task.



M-Taks-5.3.docx

## 5.4. SOP-Informix -START-STOP



START-STOP-5.4.docx

## 5.5. Onclean Utility



Onclean5.5.docx