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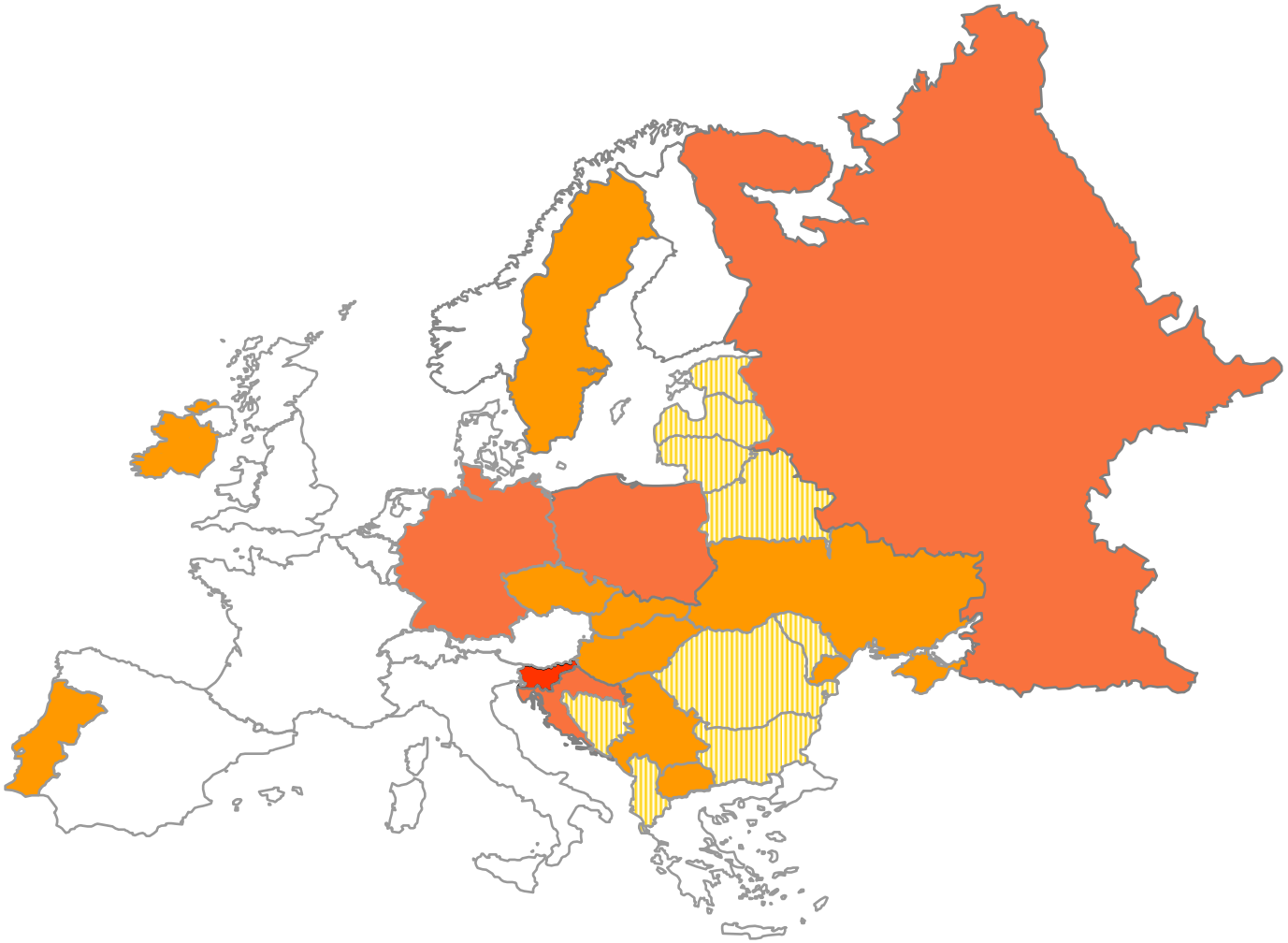
Living a healthy life.

Upravljanje dostopov in avtorizacij v SAP okolju z uporabo SAP GRC Access Control

Robert Biličič

Junij 2008

Covering the markets from Vladivostok to Lisbon



Subsidiaries abroad

GERMANY: TAD Pharma GmbH, Cuxhaven
RUSSIAN FEDERATION: OOO KRKA - RUS, Moscow,
OOO KRKA FARMA, Sergiev Posad
POLAND: KRKA - POLSKA, Sp. z o.o., Warsaw
UKRAINE: DP KRKA UKRAINA, Kiev
CZECH REPUBLIC: KRKA ČR, s. r. o., Prague
SLOVAKIA: KRKA Slovensko, s.r.o., Bratislava
CROATIA: KRKA - FARMA, d.o.o., Zagreb
HUNGARY: KRKA Magyarorszag Kft., Budapest
SERBIA: KRKA - FARMA, d.o.o., Novi Sad
IRELAND: Krka Pharma Dublin Limited., Dublin
MACEDONIA: KRKA - FARMA DOOEL, Skopje
SWEDEN: KRKA SVERIGE AB, Stockholm
USA: KRKA USA LLC, Delaware
PORTUGAL: KRKA Farmacêutica Lda., Estoril

Representative offices

Albania
Azerbaijan
Belarus
Bosnia and Herzegovina
Bulgaria
China
Estonia
Georgia
India
Kazakhstan
Kosovo
Latvia
Lithuania
Moldova
Romania
Russian Federation
Serbia
Slovakia
Ukraine
Uzbekistan

production subsidiaries | other subsidiaries | representative offices

Source: company information

Upravljanje tveganj

- **Sarbanes-Oxley Act 2002** - zagotavljanje ažurnega finančnega poročanja (Enron, Artur Andersen, WorldCom) – velja tudi za Evropska podjetja, ki poslujejo na US tržišču – ***SOX Compliant; COSO in ISO 17799*** – enterprise risk management framework
- **Basel II** – access control, configuration control, user monitoring and management, …(Society General, Bearings, UBS)
- Slovenija: finančna zakonodaja, dostop do notranjih informacij (pravila borze), varovanje osebnih podatkov, HR
- Farmacevtska industrija:GxP zahteve; CFR 21 Part 11
- **ISO 27001** – Information Security Management

SAPPHIRE 2008 Berlin

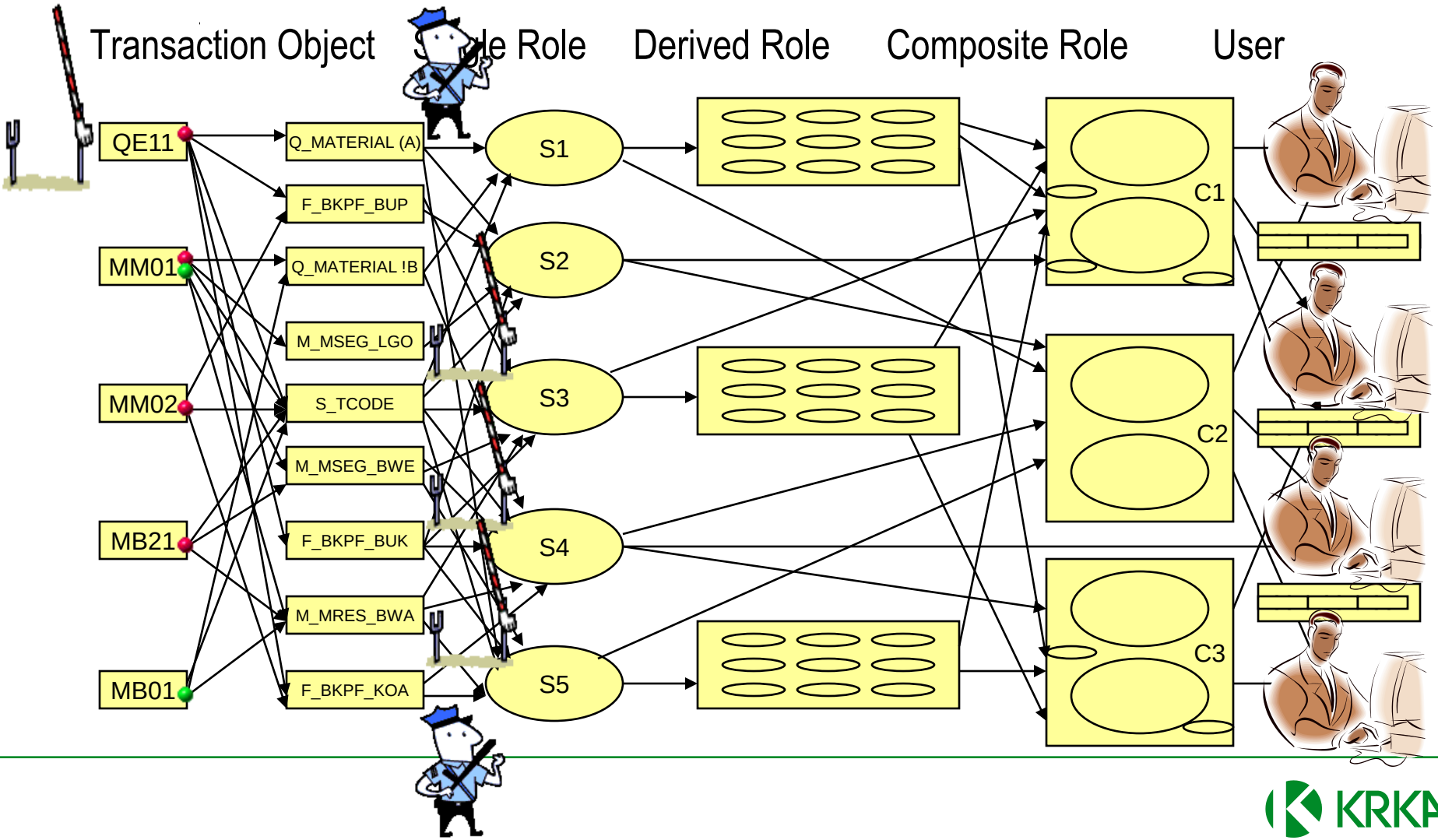
Cilji implementacije

- **Controlled Environment**
- **Transparent and Reliable End-User Provisioning**
  - Central System for all User Change Requests (R/3, BI, SCM)
  - "What-if" simulation / Proactive Risk Analysis
- **Reduced and Reliable Authorization Validation Testing**
- Easier Role Maintenance Support
- **Transaction Ownership – Business Process Owners responsibility**
- **Transparent and Accurate List of Users with Business- and GMP-Critical Transactions**
  - Alerts and Monitoring
  - Super-User Controlled Access for External and Internal Support
- Easier and Transparent Documentation of Business- and GMP-Critical Roles and Transactions
- **Enabling efficient environment, capable adopting quick changes in business process**

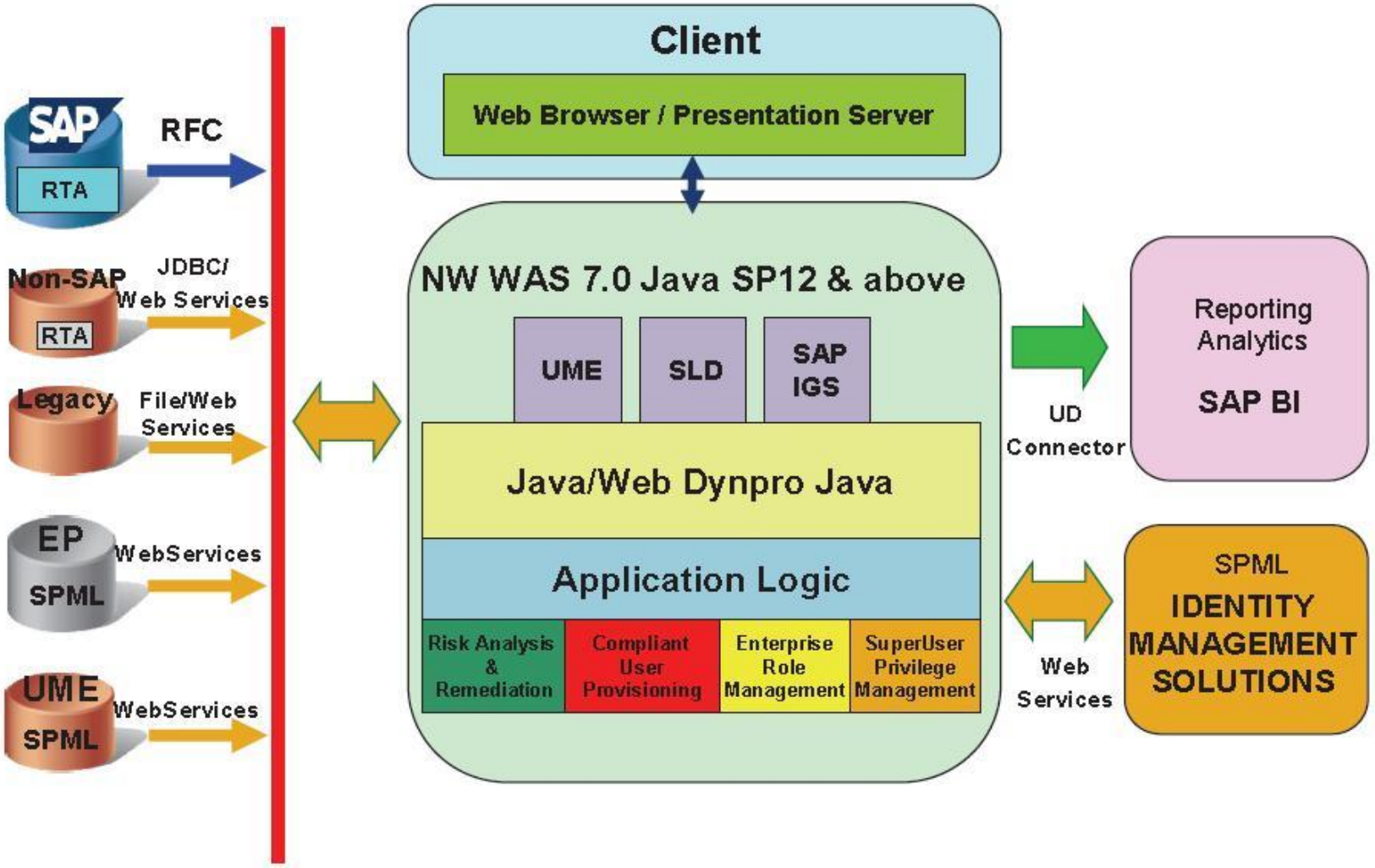
Tehnični izzivi

- 77.833 Transactions (276 /KRKA/…)
- 1.540 Authorization Objects
- 1500 Users
- 963 Roles
  (701 Single Roles, 262 Composite Roles)
- Complex Matrix

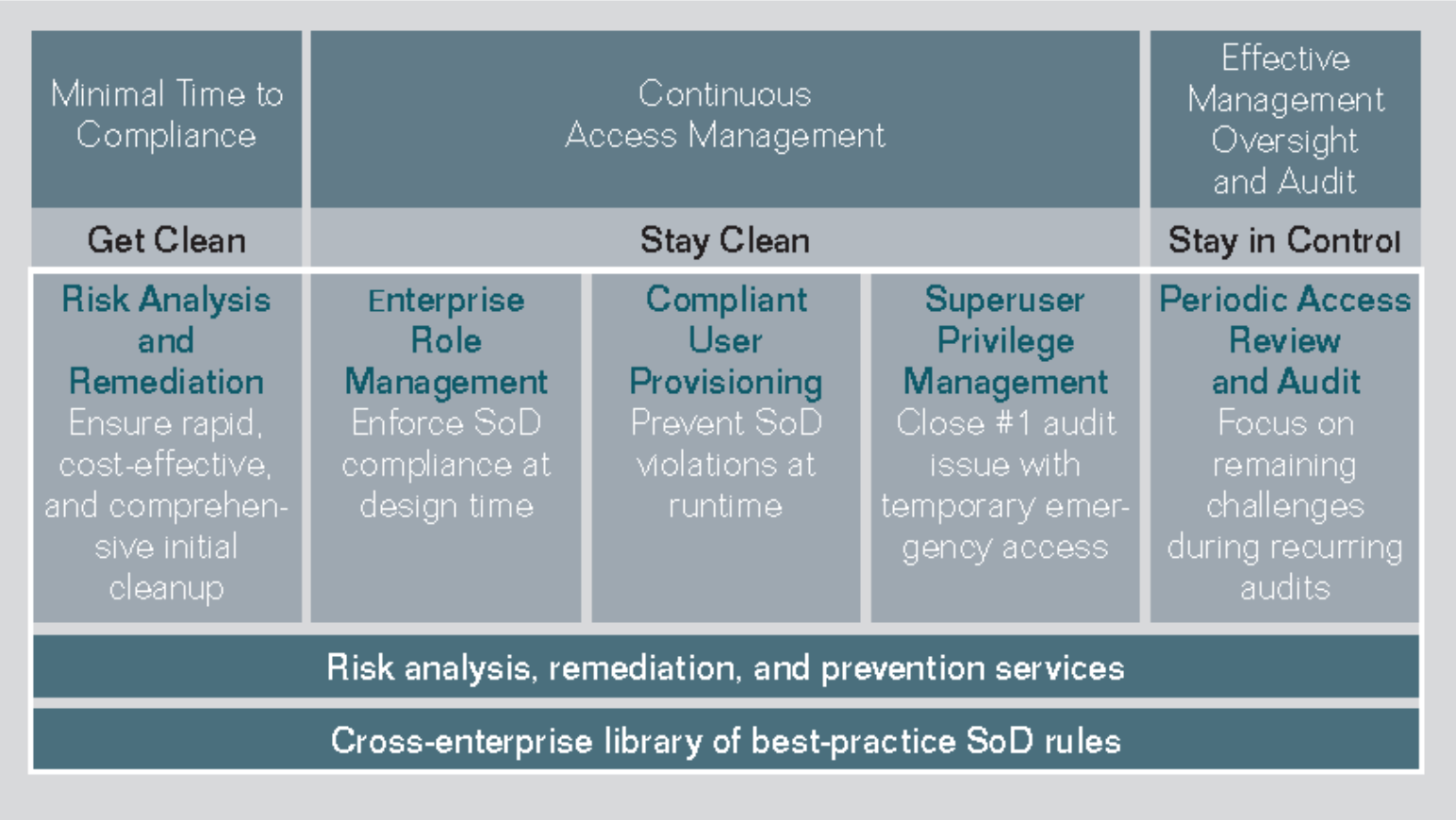
Real-time Compliance 24x7…



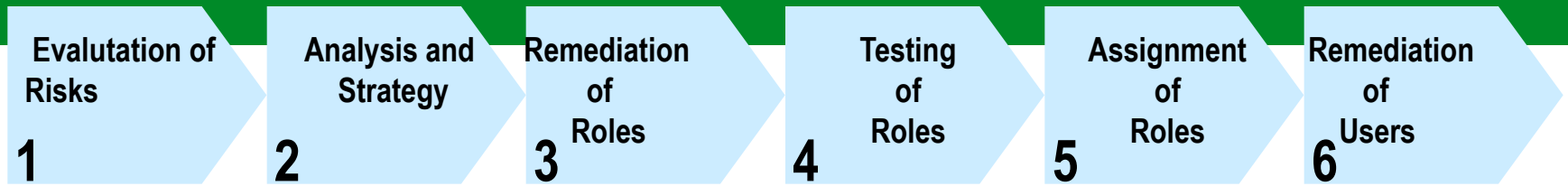
Access Control Component Architecture



SAP GRC Access Control



Implementation of SAP GRC Access Control Suite



- **Risk Analysis And Remediation**
  (Compliance Calibrator)
- **Enterprise Role Management**
  (Role Expert)
- **Superuser Privilege Manager**
  (FireFighter)
- **Compliant User Provisioning**
  (Access Enforcer)

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Rezultati

- Maintenance and Documentation of Business- and GMP-Rules
- Implementation of Information Source Ownership (Transactions and Authorization Objects)
- Defined workflows for User-, Role and Risk-Change Requests including the usage of electronic signature according to the requirements of CFR 21 part 11

Produkcijske izkušnje

Reduced Maintenance Effort for User- and Role- Change Requests :

- Average time until request is processed and closed: 1 week before versus 1 day after Implementation
- No Interference by the Technical Team now versus min. half an hour before the Implementation
- Business is now responsible for Change Requests, not the Technical Team any more

FireFighter:

- Less Effort by Technical Team for Maintenance of Emergency-User
- Less Effort by Auditors to review the Audit Logs

Produkcijske izkušnje - nadaljevanje

Reduced Auditing Effort for Risks in User and Role Access Rights:

- Average time per Audit: 2 weeks for collecting the information versus a couple of minutes to collect
- Risk Awareness was created: Risks were known before but Business Process Owners were not AWARE of risks

Ramp-Up 5.2 and 5.3 - Razlogi

Ramp-up 5.2

- Special Characters / Unicode Support
- Role Expert

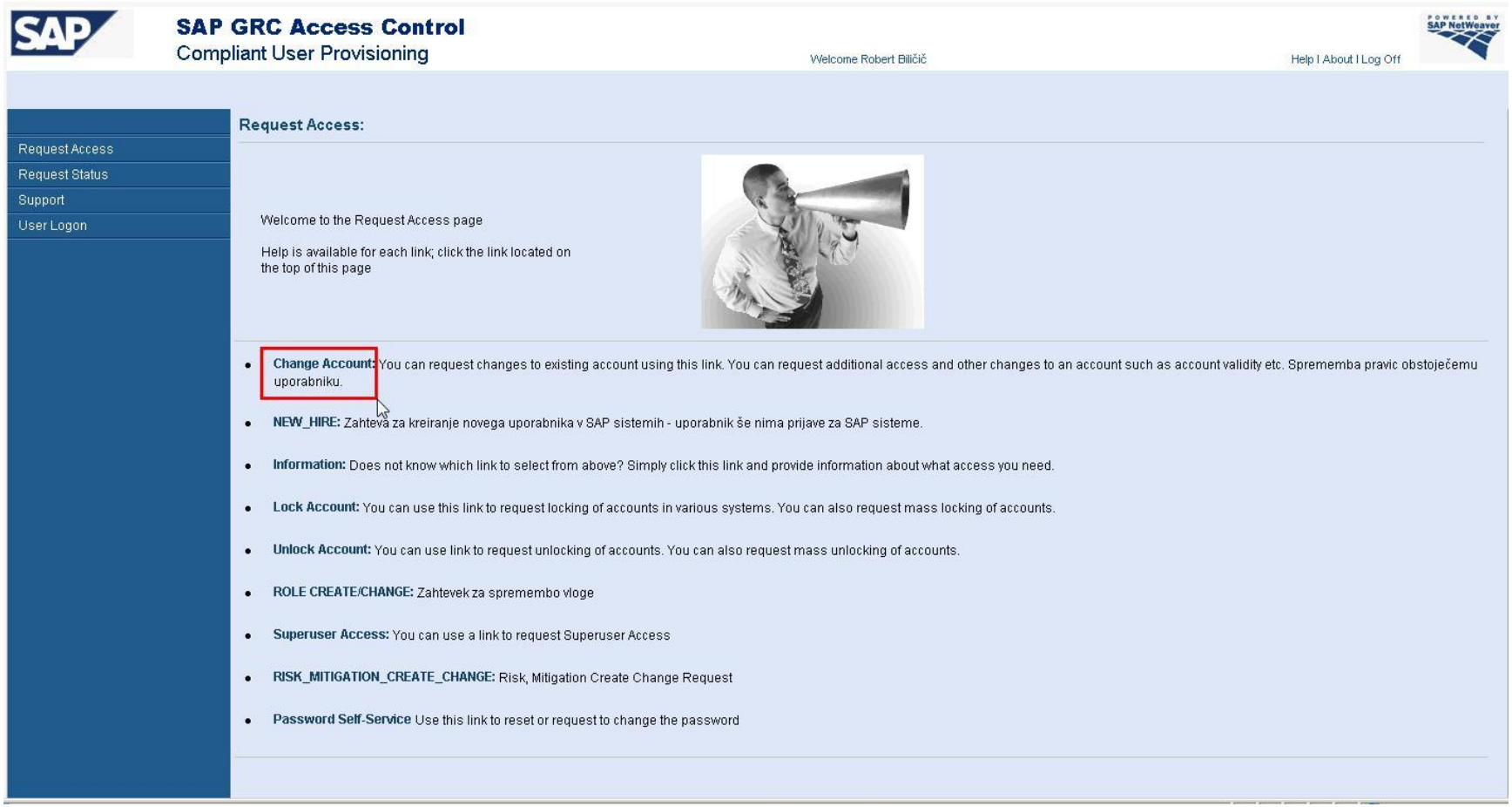
Ramp-up 5.3

- All fields in SU01 are now fully supported
- UME / Portal Authorizations are now supported
- SSO to all GRC AC Applications - Launch-Pad
- Role Expert: Direct Connection to PFCG

Still Missing:

- All requests starts in AE (for risk, role, user, FF) change

Vnos zahtevka



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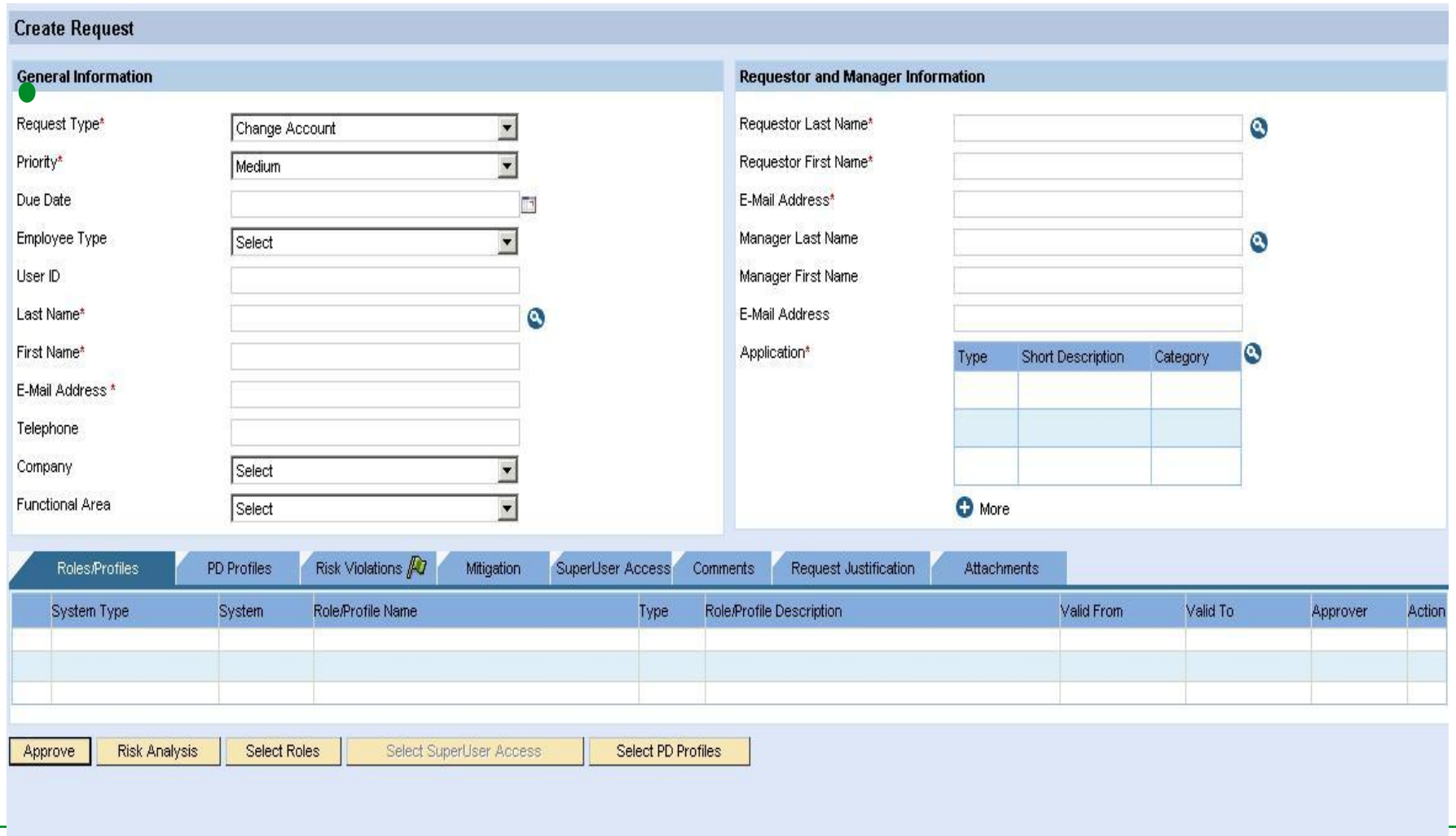
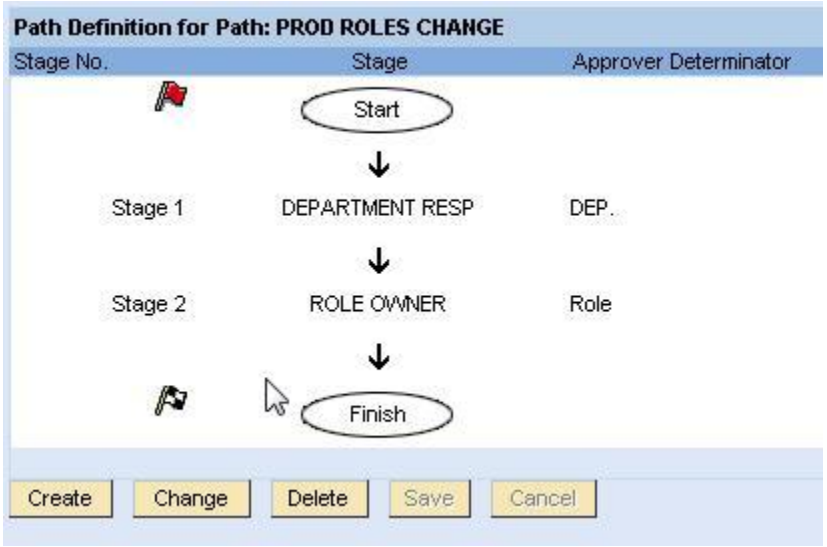
Vnos zahtevka - nadaljevanje



Pot potrjevanja



Potrjevanje

Approval Path Status

PROD CHANGE (Status : APPROVE)

1. DEPARTMENT RESP (Status : Approved)
[Sonja Kermc(KERMCS)]

2. ROLE OWNER (Status : Approved)
[Tomaž Mikec(MIKEC)]

Request Status

Request Number	3610	**Status**	Closed	**Approval Due Date**	12/31/9999

General Information

Request Type	Change Account	**User Name**	Viktorija Čatić(CATIC)
Priority	Medium	**E-mail address**	Viktorija.Catic@krka.biz
Employee Type	Enduser	**Position**	
Application	R3PCLNT400	**Org. Unit**	
Department	107216	**Requestor**	Tadej Grampovčan(GRAMPOVCAN)
Business Process		**E-mail address**	tadej.grampovcan@krka.biz
Company		**Manager**	Sonja Kermc(KERMCS)
Valid From	04/16/2008	**E-mail address**	Sonja.Kermc@krka.biz
Valid To	12/31/9999		

Additional information

Job		**Cost Center**	
Personnel Number		**Business Area**	
Personnel Area		**Request Category**	
Location		**Request Reason**	
Telephone	2173	**Functional Area**	

Custom Fields

Department1	107216

Roles/Profiles

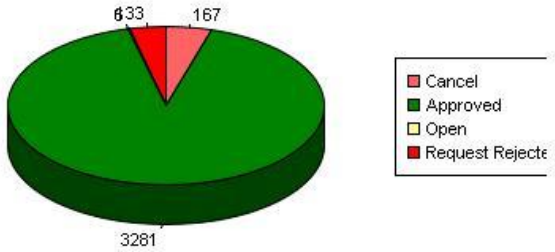
	System	Role/Profile Name	Type	Role/Profile Description	Valid From	Valid To	Approver	Action
☑	R3PCLNT400	MM:A:REZERVACIJE:1000		Rezervacije 1000	04/16/2008	12/31/9999	Tomaž Mikec(MIKEC)	ADD

Upravljanje uporabnikov - poročila

Management Reports

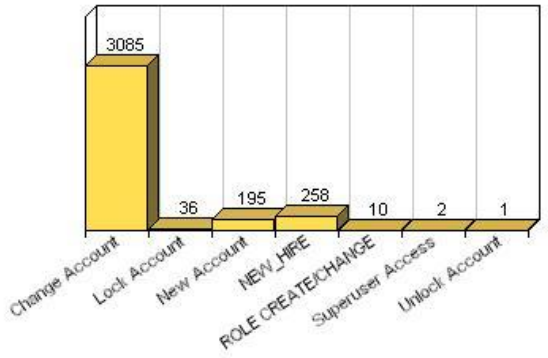
Access Requests

Date From 03/06/2006
To Date 06/11/2008
System All
Request Type All
Priority All
Functional Area All
Workflow Type Access Enforcer
Archived Requests
Go
Total Number of Requests:3587



Request by Type

Date From 03/06/2006
To Date 06/11/2008
System All
Status All
Priority All
Functional Area All
Workflow Type Access Enforcer
Archived Requests
Go
Total Number of Requests:3587



Risk Analiza - Poročila

Management View - Risk Violations

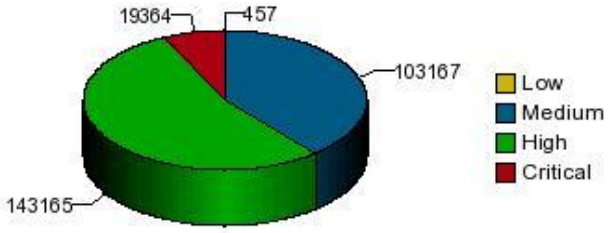
Summary as of 06-jun-2008

Risk Violations

Month/Year	06/2008
System	R3PCLNT400
Analysis Type	User
User Group	All
Violation Count by	Permission

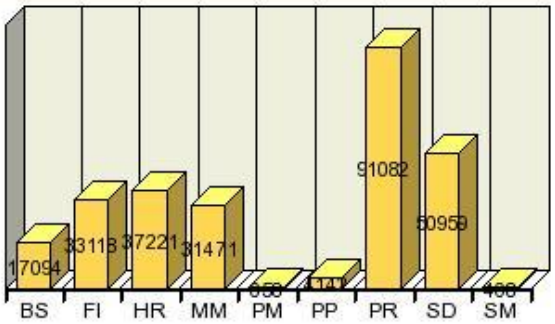
Go

Number of Users Analyzed	1,859
Total Number of Violations	266,153



Risk Violations by Process

Basis	17,094	6%
Finance	33,118	12%
HR and Payroll	37,221	14%
Materials Management	31,471	12%
PM - Vzdrzevanje	658	0%
PP - Production planning	4,142	2%
Procure to Pay	91,082	34%
Order to Cash	50,959	19%
Supply Chain Management	408	1%



Vprašanja ?

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