OMV Aktiengesellschaft

Challenges for Information Security

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FH St. Pölten, Jänner 2013



Sec_rity is not complete without U!













Business areas within OMV Group



Refining & Marketing



Exploration & Production



Gas & Power

Global Solutions an integrated Competence Center within OMV



Business Unit IT

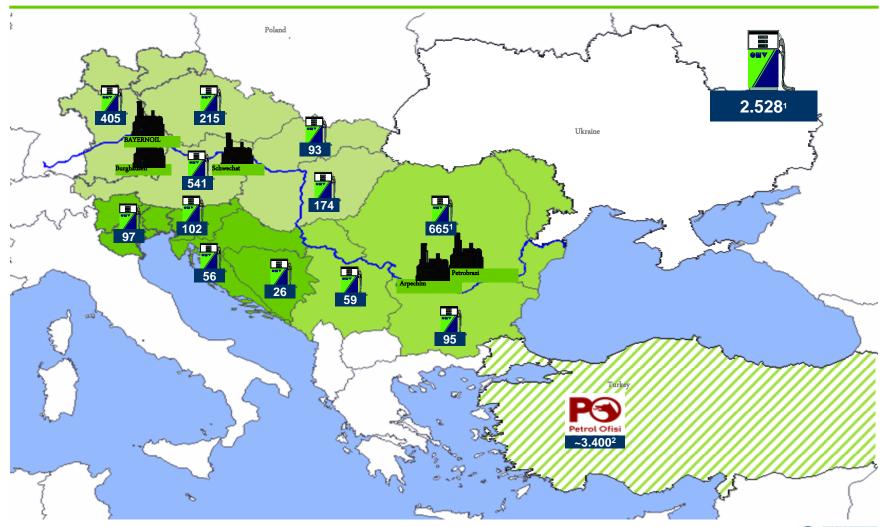
Business Unit Finance

Business Unit Business Support

~ 30 000 employees; ~ 2.100 server; ~ 18.000 clients



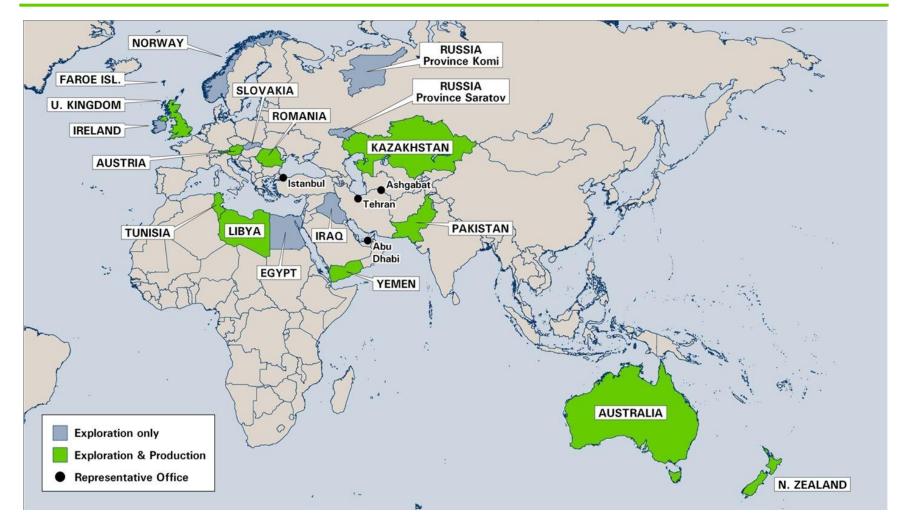
Refining & Marketing activities (R&M)







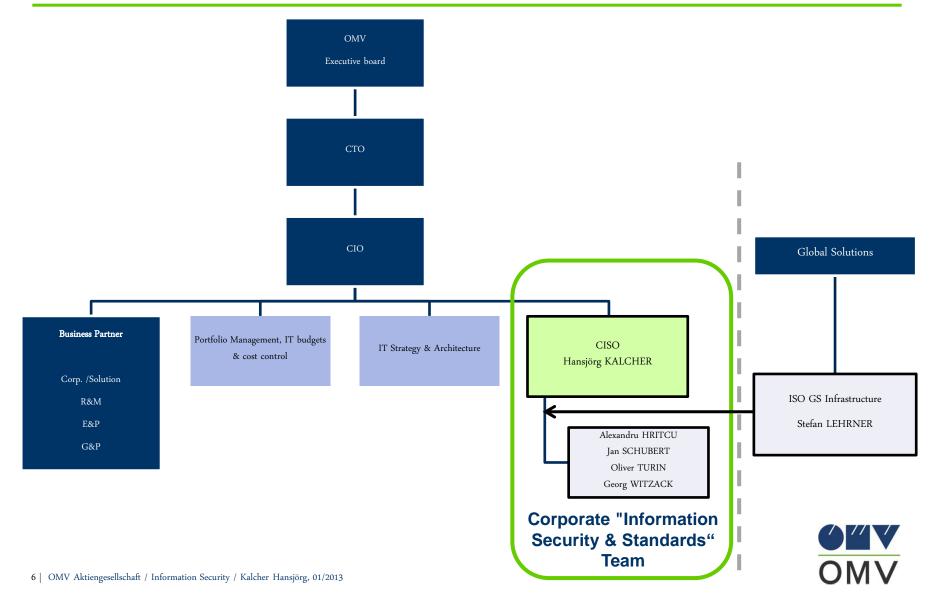
Exploration & Production activities (E&P)







Corporate Information Security...where are we?









Information Security - Department personnel and responsibilities



Key responsibilities:

- ISMS (manage the enterprise's information security organization)
- · Selective involvement in any key area
- Communication to CIO, Head of Departments, Stakeholder (Legal, Security, CIA, etc..)

Information Security
CISO

Global Solutions

Risk Mgmt Info Sec Manager

Key responsibilities:

- Information Security
 Risk Management
 (Based on Availability,
 Confidentiality, Integrity,
 Legal Compliance)
- BIA Analysis
- Service Quality Checks
- Tracking implementation of defined initiatives

ISMS Info Sec Manager

Key responsibilities:

- IT Security Projects i.e.
 ISO Certification, access
 Mgmt & Technical
 requirements (focus on
 confidential data),
 Encryption Set Up –
 Evaluation to be
 addressed! (focus PKI)
- IT Security Audits i.e. NF-admin reduction to a minimum, VPN reduction, penetration tests/health check, Controls to be checked!

Policy & Standards Info Sec Manager

Key responsibilities:

- Policy Methods & Standards *)
- Information Security
 Awareness (Virtual
 Training, welcome
 package training,
 awareness training on
 request (Safety Hour,
 etc...), updates on
 existing Information
 Security News (Portal),
 updates on Training
 Materials)

IT Security Info Sec Manager

Key responsibilities:

- Technical & permanent auditing
- Technical IT Security support
- Information Security
 Mailbox with Information
 Security approval
- Trouble Tickets for Information Security
- RADAR Checklist approval

Global Solutions Info Sec Manager

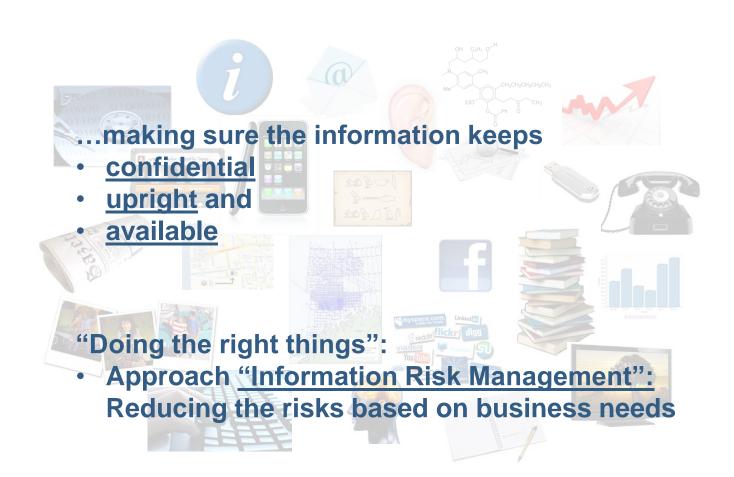
Key responsibilities:

- execution/gatekeeping of IT Security projects within IT Delivery
- IT Infrastructure requirement specifications for IT Sec
- alignment of Information Security topics in all infrastructure departments (ISO 27001)and build up strong link to Corporate Information Security
- Quality assurance for IS Control Point "Controls"





Information Security – Way forward...



Ensure Information Security Risk Management



Safeguarding information according to its protection requirements

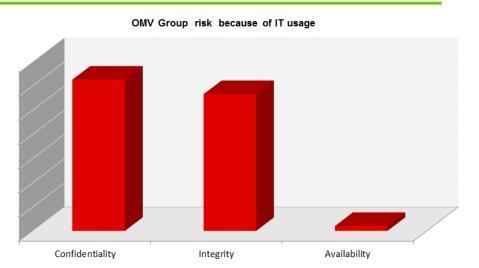
2012 2013 2014 Facts & Figures 2012: **Risk Management Focus 2013** 7000 IT technical audits done: (central computing) 45 Risk Assessments for critical IT Services done **RISK MANAGEMENT** 600 measures addressed 150 BIA awareness sessions top management done; 160 detailed BIA interviews done **MANAGEMENT SYSTEM** crisam® Business Impact Analysis RISK POLICY corporate strategy risk policy, target value protection requirement for process and nformation and applications based BUSINESS IMPACT **POLICY & STANDARDS** information owner Risk Analysis on supported business processes state of the art, risk tree structure. **RISK ANALYSIS** standards, best practices risk actual value Risk Management risk policy, actual state, RISK MANAGEMENT strategic change target-actual deviation GAP analysis package of measures actual state, technological operative measure prioritisation **TECHNICAL INFO SEC** strategic and operative change **Measure Implementation** technology, organisation, cost projection and investment law, budget, resources, nlan immediate measures IMPLEMENTATION appointments implementation projects

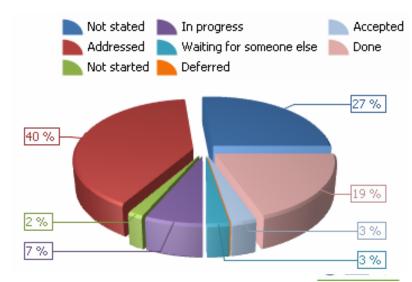




Examples of areas with highest risk

Main Information Security Area ■ PHYSICAL AND ENVIRONMENTAL SECURITY Building Server room ■ COMMUNICATIONS AND OPERATIONS MANAGEMENT SLA Security Management Change Management ■ ACCESS CONTROL Windows-Client Other application Remote Access, VPN ■ COMPLIANCE Unix-Server-operating system Virtual server (VMWare, etc) Other application ■ ASSET MANAGEMENT User Configuration Management ■ INFORMATION SYSTEMS ACQUISITION, DEVELOPMENT AND MAINTENANCE PDA/Smartphone Windows-Client Internet connection ■ HUMAN RESOURCES SECURITY User ■ INFORMATION SECURITY INCIDENT MANAGEMENT Problem Management Incident Management ■ ORGANIZATION OF INFORMATION SECURITY





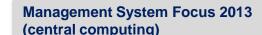
Security Management

Ensure Information Security Management System



Safeguarding information according to its protection requirements

2012 2013 2014





RISK MANAGEMENT

MANAGEMENT SYSTEM

POLICY & STANDARDS

TECHNICAL INFO SEC

- ▶ Plan Do Check Act steering and quality assurance
- ▶ ISO 27001 annual certification support
- Awareness increase
 - Portal
 - Trainings
 - Info Screens
 - Newsletter
 - Promotion virtual training
 - "Exhibition booth" (high level topics, Live Demos, non-technical focus, private focus, etc..)
- ▶ **Networking** with security relevant organisations (BKA, CERT, AkSiGo, Sec Researchers, Engergy Sector Companies





Ensure Information Security Policy Methods & Standards



Safeguarding information according to its protection requirements

2012 2013 2014



MANAGEMENT SYSTEM

POLICY & STANDARDS

TECHNICAL INFO SEC

Policy Methods & Standards Focus 2013 (central computing)



Standards:

Revamping and consolidation of existing IT and security standards in functional alignment with new IT strategy (at present 47 standards to be revised);

► PCI Assessment:

Ensuring successful Payment Card Industry Data Security Standard (PCI DSS)

▶ IS Training:

Enhancing the Virtual Training Platform regarding both function and content

► AD-Hoch measures:

Responding to short-term emerging legal or business requirements by releasing corresponding regulatory documents (i.e. work instructions)



Ensure Information Security Policy Methods & Standards **Examples**



Defining group wide, high level Standards for Information Security

Standards (Examples)

ISS 01_Information Classification - Confidentiality

establishing an OMV group wide classification scheme, definining categories based on types of information needing certain level of protection

ISS 02 Classified Information Handling - Confidentiality

defining handling instructions for classified information, in accordance with standard ISS 01

ISS 03 Media Disposal

guideline for erase and destruction, i.e. disposal of non-electric and electronic media incl data it contains

ISS 04 Passsword Standard

establishing an OMV group wide password instruction. outlining both password structure, properties and the appropriate use

ISS 05_ISMS Improvement and Audit

defines the general IS Management System, its relevant roles & responsibilities and the corresponding audit approach within OMV group

Working instructions (Examples)

WI for IPhone & IPads for SVP's

►Usage of iPhones & iPhads due to a not existing mobile device management system - nevertheless being compliant to information security requirements

WI for Information handling BO's E&P

due to a BIA data with high criticality in regard to confidentiality, integrity and availability have to be handeld different

WI for IT Service Desk

Within the scope are operational information security decisions & processes which have to be executed via ITSD

WI for Password management on clients

Processdefinition regarding admin rights on clients and its prerequisites for approval



Ensure Information Security Policy Methods & Standards Best practise



Transferring the code of practice from ISO 27k into standardisational guidelines based on a feasible approach by considering business needs and general workability aspects

ISO 27002 CODE OF PRACTICE - GIVEN TOPICS
Acceptable Use of IT Client Devices
Asset Management
Classified Information Handling
Client Device Security Management
■ IT Security Awareness
■ Malware Protection Management
Password Management

OMV CLIENT DEVICE MANAGEMENT STANDARD CONSISTING OF 2 PARTS:	
Procedural Standard	Covering the procedural settings as required by ISO on high level for the entire OMV client device landscape, including configurationally settings as well as acceptable use.
Technical Standard	covering the technical standard setup of specific devices, in example for Blackberry devices, Notebooks etc.



Ensure Technical Information Security

2013

Safeguarding information according to its protection requirements

2011 2012





RISK MANAGEMENT

MANAGEMENT SYSTEM

POLICY & STANDARDS

TECHNICAL INFO SEC

▶ Project support and implementation e.g.:

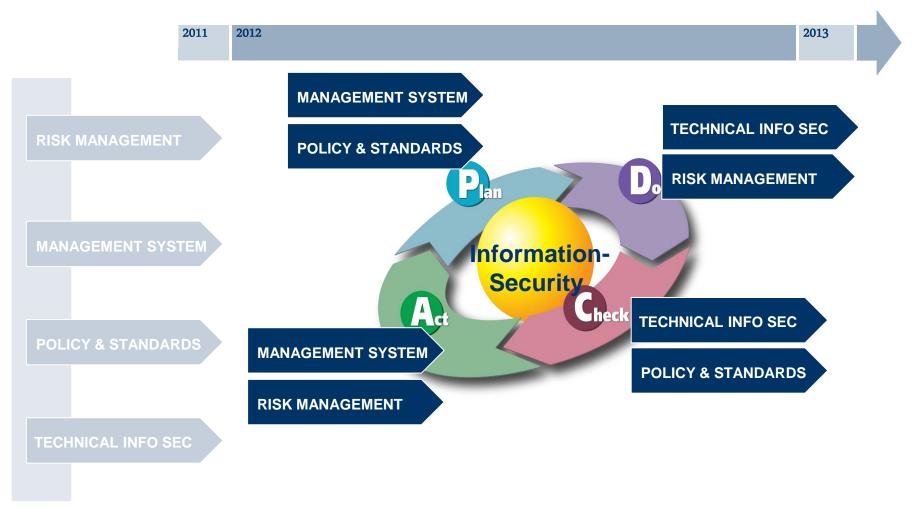
- Mobile Device Management
- Win7 Bit Locker
- Unified Access Gateway
- Identity & Access Management System
- Web Application Firewall
- MS Direct Access
- Global Vulnerability Management-
- Reporting and auditing mechanism
- ▶ Organisational interaction with OGS to be enhanced



Ensure Information Security by the PDCA cycle



Safeguarding information according to its protection requirements













Awareness within OMV Group





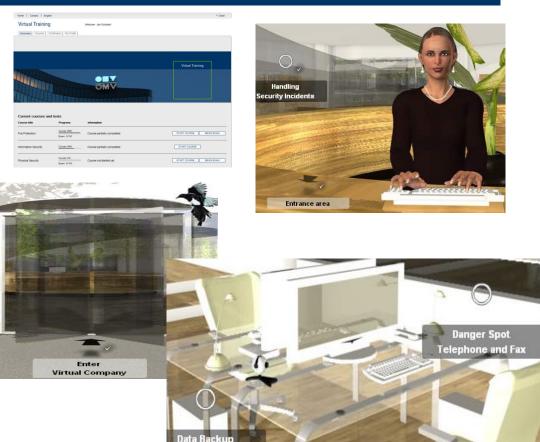


Awareness with a virtual training

Creating Awareness by empowering the Virtual Training Platform

http://vtc.omv.com

- Interactive course about Information Security, available in the Intranet
- Possibility to get a certificate
- Intended to integrate the virtual training mandatorily in the personal performance and development cycle (PDS)







Information Security is more than just IT Security







Information Security Day 2012





Ensure Information Security

Safeguarding information according to its protection requirement

IT and non-IT



There was an important job to be done and Everybody was sure that Somebody would do it.

Anybody could have done it, but Nobody did it.

Now when Somebody got angry about that, because it was Everybody's job, Everybody thought Anybody could do it, but Nobody realized that Everybody would not do it.

It ended up that Everybody blamed Somebody when Nobody did what Anybody could have done!

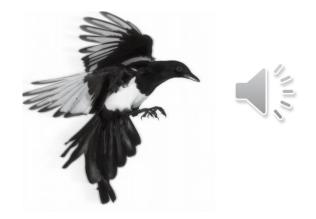
Sec_rity is not complete without U!





THANK YOU FOR YOUR ATTENTION!

OR IN THE WORDS OF A MAGPIE:







Questions?



