



Information Security Management

The all in one software suite for an integrated management system

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Agenda

- € Management disciplines of an ISMS
- € Requirements to a state of the art ISMS
- € risk2value® as unified ISMS framework
- € Conclusion

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Management disciplines of an ISMS

Act

Management Reporting
Management Decisions
Continuous Improvement

Check

Gap Analysis
Audit Management
Incident Tracking
Exception Handling
Metrics / KPIs



PLAN

Policy Management
Control Frameworks
Compliance Frameworks

Do

Risk Management
Business Impact Analysis ---
Risk-Analysis ---
Control Self Assessments ---

Measure- / Activity-Management
Compliance Management

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Integration of the building blocks

- € Resilient results in the ISMS reporting by
 - Integrated evaluation methods
 - Combined views of the users and the operators of information systems
 - Straight forward process of evaluation
- € Risk-based compliance approach
- € Sustainable foundation for prioritization of security measures



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Isolated solutions result in isolated information

Challenges

- Administration of data
- Training cost
- Implementation cost

Challenges

- Media disruption
- Diverse methods
- Inconsistent results



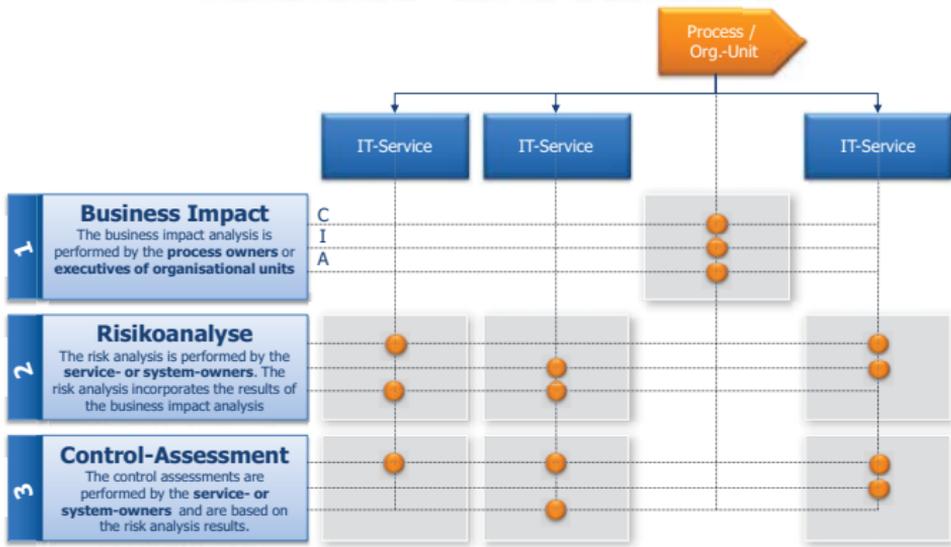
risk2value® integrated IS-GRC



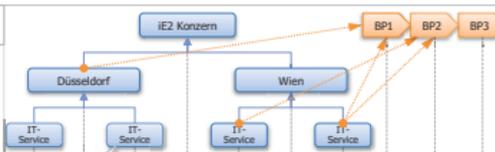
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risk2value® ISMS Scorecard



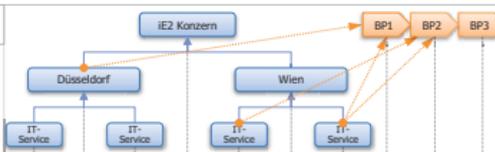
Implementation of the whole ISMS/IRM-Process:



Modeling of evaluation objects

- Definition of evaluation objects
- Modeling the hierarchy / network-structure
- An asset can be added multiple times to the tree but has only to be evaluated once
- In the hierarchy different views can be built:
 - Organization view
 - Process view
 - Asset hierarchy

Implementation of the whole ISMS/IRM-Process:



Questionnaire

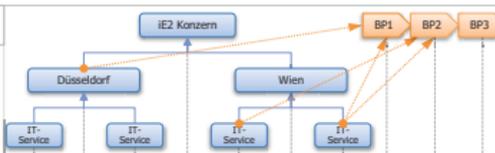
- Business Impact Analysis**
- Evaluation: Classification **Confidentiality**
 - Evaluation: Classification **Availability**
 - Evaluation: Classification **Integrity**

Fill the evaluation fields by the questionnaire

Business Impact Analysis (based on Asset-Types)

	1	2	3	4
Confidentiality Classification		X		
Availability Classification			X	
Integrity Classification	X			

Implementation of the whole ISMS/IRM-Process:

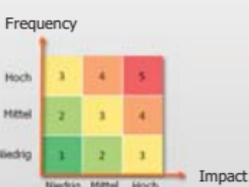


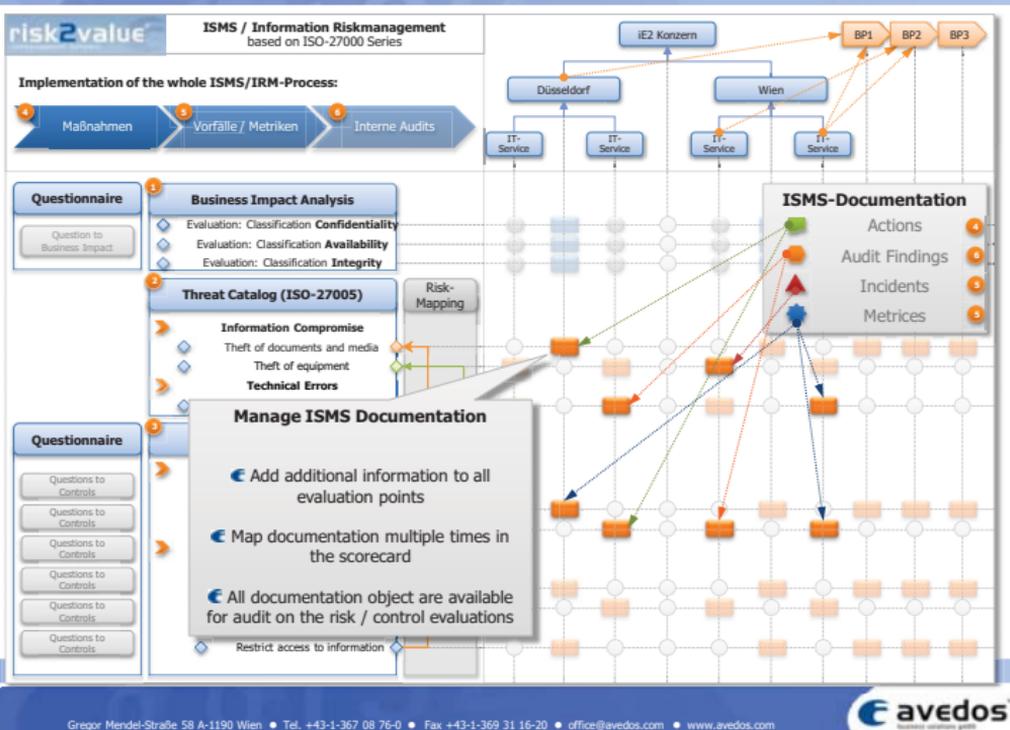
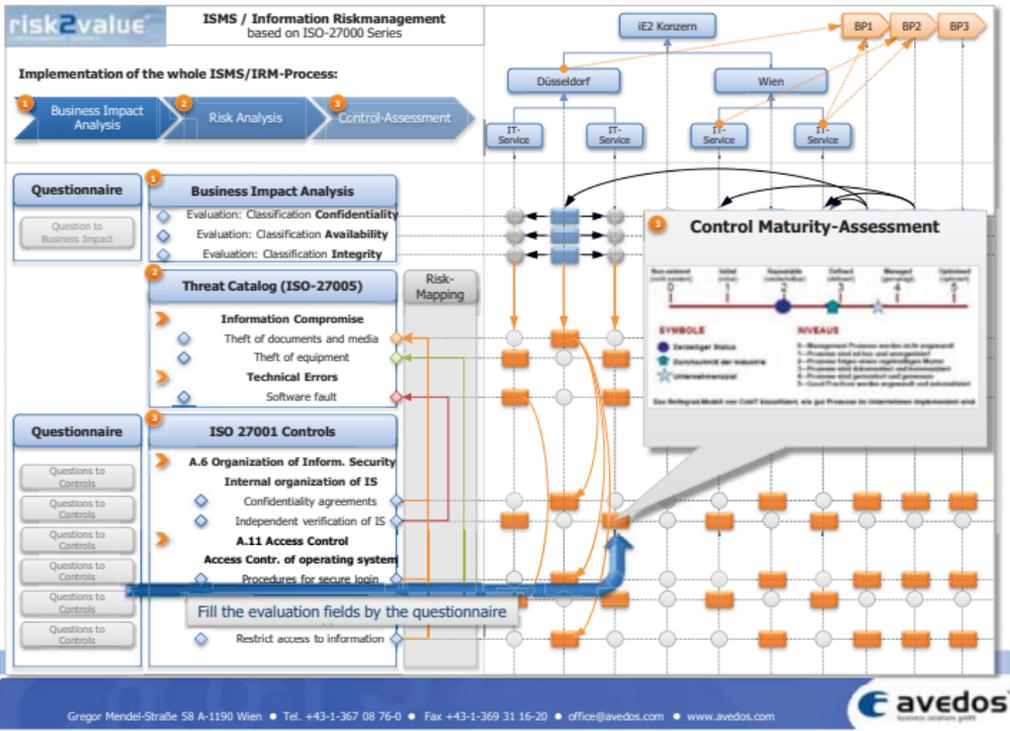
Questionnaire

- Business Impact Analysis**
- Evaluation: Classification **Confidentiality**
 - Evaluation: Classification **Availability**
 - Evaluation: Classification **Integrity**

- Threat Catalog (ISO-27005)**
- **Information Compromise**
 - Theft of documents and media
 - Theft of equipment
 - **Technical Errors**
 - Software fault

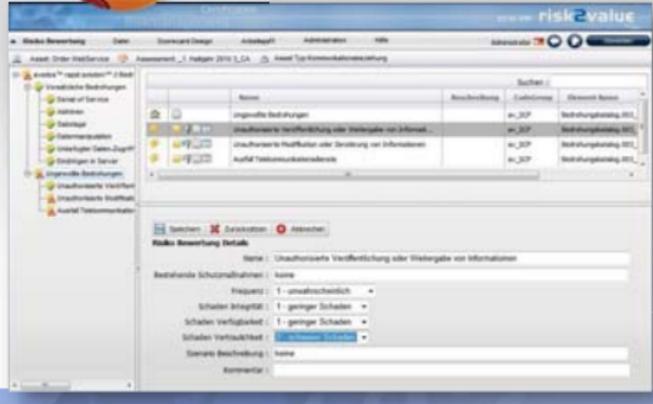
Risk Evaluation





risk2value® solution modules

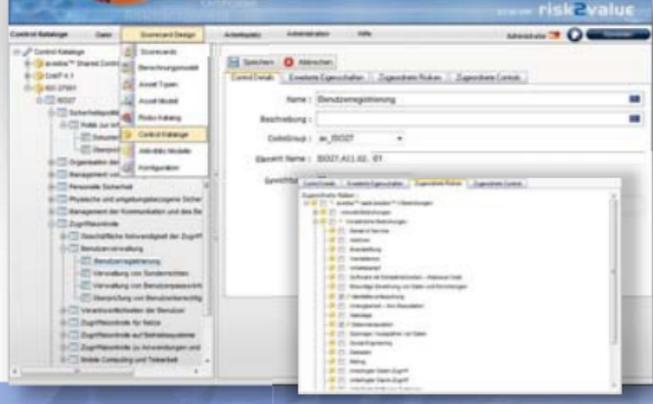
Risk Management



- Manage risk catalogs / risk registers
- Map risks to relevant controls & control objectives
- Map risks to assets for evaluation
- Configure customer-specific risk evaluation method and metric

risk2value® solution modules

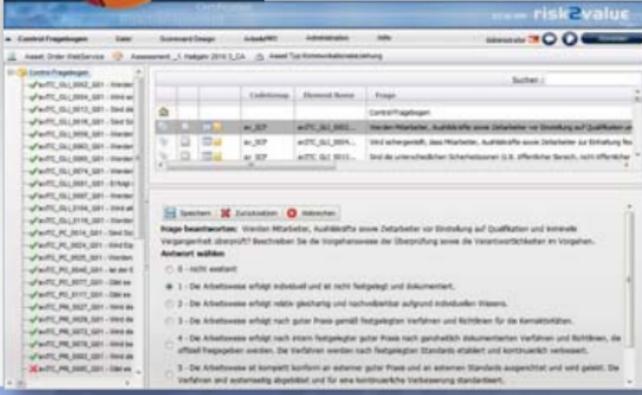
Control- / Compliance-Management



- Manage official and individual control-frameworks
- Map different frameworks to avoid redundancies
- Map controls to assets for evaluation
- Configure individual evaluation methods and metrics

risk2value® solution modules

Control-Evaluation

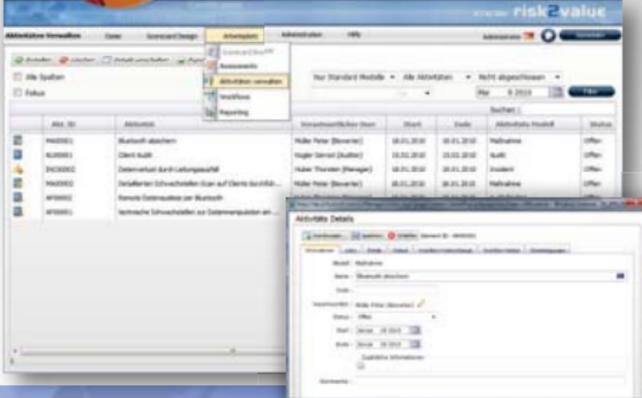


- Share maturity assessments for controls over the organization
- Perform compliance assessments within the organization
- Perform evaluation based on direct estimation of by questions & answers



risk2value® solution modules

Activity-Management

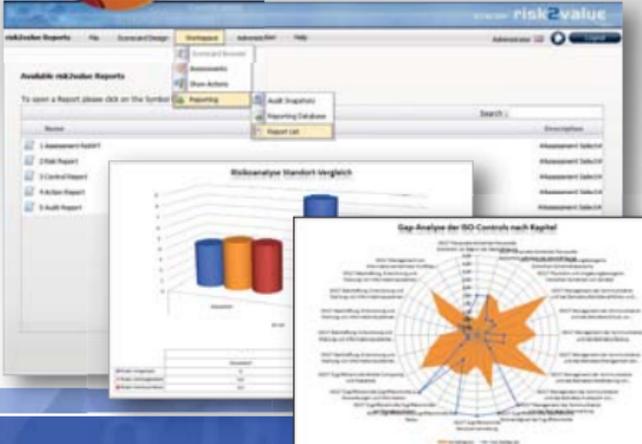


- Centrally manage
 - Actions / Measures
 - Audit Findings
 - Incidents
 - Exceptions
- Map activity items to risks / controls / assets
- Approval Workflows
- Email-Notifications



risk2value® solution modules

ISMS Reporting



- Analyze risks and controls
- Prioritize and report actions and activity items
- Perform Gap-Analysis
- Report on all detail-levels (drill-down):
 - Enterprise / Legal Entities
 - Processes
 - Services
 - Assets
 - etc.



risk2value® solution modules

Management Dashboards



- Automatically provide filtered management information
- Stakeholder specific granularity of information
- Integrate in various different dashboard solutions
- Dynamic application-integrated dashboards



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Why not use spreadsheets?

Analyze results easily and flexible

By default perform and track assessments

Flexible permission system

Involve a high number of stakeholders without a lot of rollout efforts

Easily and fast adopt your controls, risks, assets and mappings

Efforts using Spreadsheets :

- Maintain formulas and calculations
- Search calculation errors
- Manual integration of data sources
- Missing flexibility in permissions
- Missing workflow functionality
- High number of files to maintain

risk2value
riskmanagement software



risk2value® - Overview of the software

€ risk2value® - Technology

- Microsoft® .net Web application (via IE / Firefox)
- Database: MS SQL Server 2005/2008
- Reporting: MS SQL Server Reporting Services + OLAP

€ risk2value® - Features

- Multiple companies / group of companies
- Multi language
- Revision-secure – complete audit trail
- Evaluation can be documented (attachments, links, etc.)
- Flexible configuration – models and catalogues can be adopted in the user interface

€ risk2value® - Interfaces

- XML for importing/exporting data
- Backup configuration templates as XML
- Move configuration from installation to installation via XML
- Export Results via XML to use in Excel or Scorecard Systems



rapid solution™ fur ISRM (Information Security Risk Management)

€ Specific contents for ISMS

- List of template **Asset Types**
- Questionnaire** to evaluate the Business Impact
- Threat Catalog** based on the ISO-27005 App. C
- Control-Catalog** from ISO-27001 App. A / ISO-27002
- Questionnaire** for the evaluation of control maturity

€ Methodology templates

- Mappings** between the catalogs (e.g. threat catalog and control catalog)
- Evaluation-Model** template incl. formulas, aggregation methods and reports / analysis templates

€ Reports for ISMS Audits and the Security Management

- Reports on the Business Impact Analysis
- Reports on the Risk Analysis
- SoA (Statement of Applicability)
- Reports on Control-Maturity / Gap-Analysis Reports



avedos™ shared control framework™

- € Integrate multiple standards and compliances in one generic control-framework
- € Evaluate controls for redundant topics only once
- € Map these redundant controls to multiple standards incl. their evaluations
- € Report on these controls within the control-structure of different standards



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Conclusion

- € Integration of management systems...
 - ...reduces the overall efforts needed
 - ...improves the quality of results
- € A unified GRC-software...
 - ...avoids media disruptions
 - ...increases transparency in reporting
- € risk2value® enables to...
 - ...run your whole ISMS in one tool
 - ...avoid isolated running tools
 - ...implement the ISMS as recurring process



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Thanks for your attention!

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