

Supporting Information Security Management with LeanIX

Dr. Kai Höfler Enterprise Architect DKMS Dennis Endert Manager GRC DKMS ABOUT DKMS 2

The Founding Of DKMS

Our story began in 1991, when our founder, Dr. Peter Harf, lost his wife Mechtild to leukemia. Peter set about delivering on the promise he had made to his wife: to find a matching donor for every blood cancer patient.

At that time, there were only 3,000 potential stem cell donors available to provide a transplant in Germany. Peter Harf founded DKMS Germany, and within just one year the number of stem cell donors increased to 68,000.

Today DKMS operates in Germany, the USA, Poland, the UK, Chile, in India together with DKMS and in South Africa with our partner The Sunflower Fund. We register more than 1 million new potential donors globally each year and so far have provided over 86,000 second chances at life.



DKMS KEY FACTS*

Bringing Hope To People All Over The World



10,213,281 active DKMS donors



Over 1 Million new donors registered per year

20 stem cell collections per day

27 percent of all potential blood stem cell donors worldwide are registered with DKMS

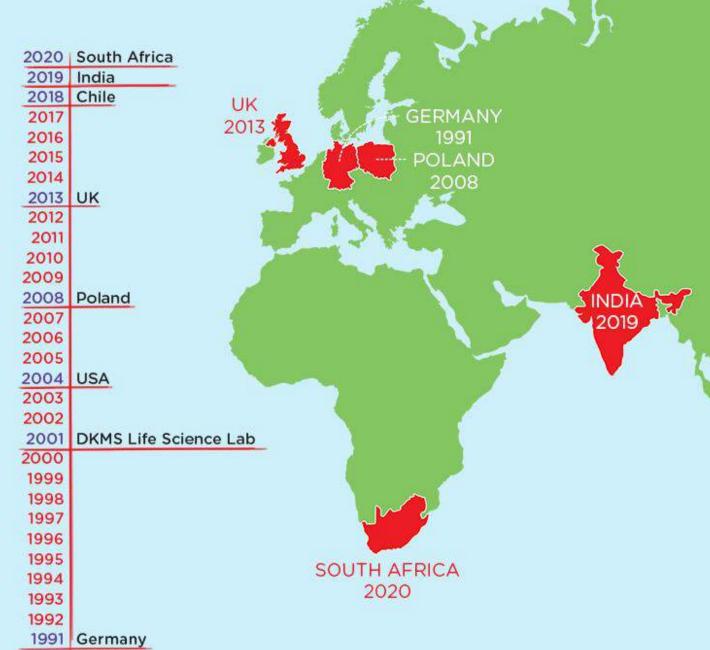
40 percent of all unrelated stem cell transplants worldwide are made possible by DKMS donors

75 percent of blood stem cell collections are sent abroad

We provide patients in 57 different countries a second chance at life







Vita

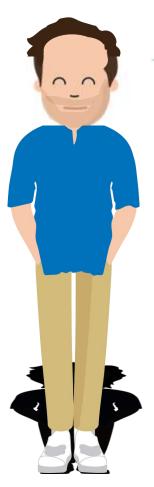


KAIHÖFLER

Software- and Enterprise Architecture are the professional passions of Kai.

As **Enterprise Architect** and Team Lead for Software Development he is introducing EAM in DKMS and is working together with the other enterprise functions to drive the digitalization of the DKMS.

He formerly worked for one of the leading IT consulting companies as principal architect and as enterprise architect for an insurance company.

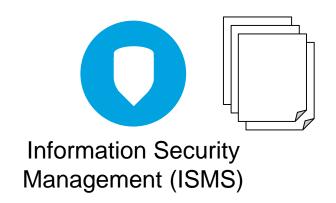


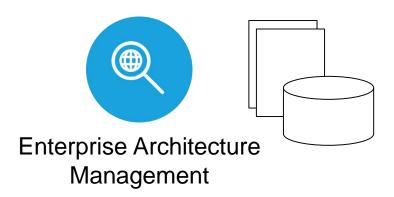
DENNIS ENDERT

Dennis Endert is the **Manager for IT-Security**, **Governance**, **Risk & Compliance** at DKMS and responsible for establishing and maintaining the Information Security Management System.

He formerly worked for an audit firm where he gained deep insights into a large number of financial service providers and advised them regarding IT compliance.

He holds CISA, TISP, ISO/IEC27001, ITIL and ITGCP certifications.

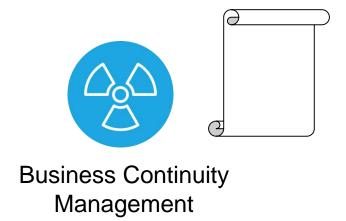
















Enterprise Architecture
Management



I have to risk

Provider Management



Quality Management (QM)

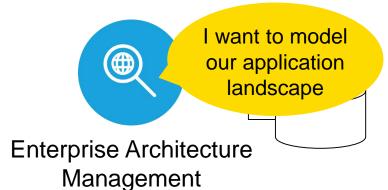


We should perform
BIAs and model
RPO and RTO for
our systems

Business Continuity

Management







Provider Management

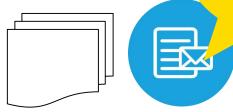


Quality Management (QM)

Why not integrate them?

(starting with ISMS and EAM)

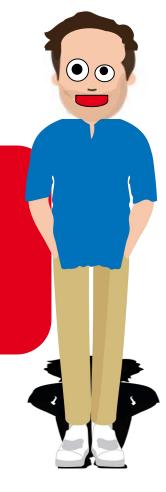
of processing activities



Data Protection Management We should perform
BIAs and model
RPO and RTO for
our systems

Business Continuity
Management

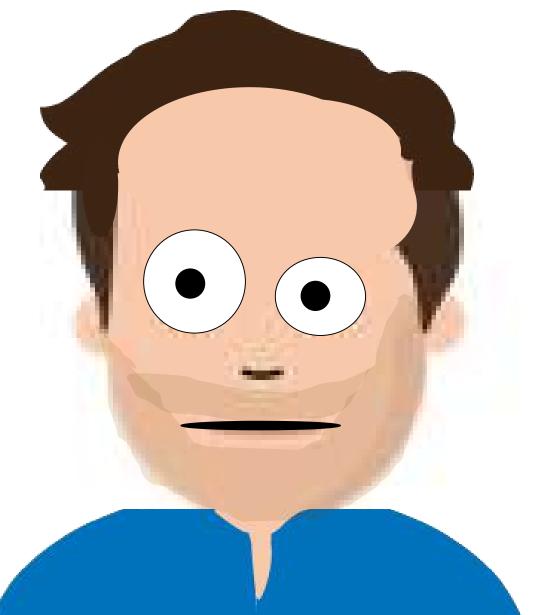












The basic principles of our information security management approach

ONFIDENTIALITY

Confidentiality "is the property, that information is not made available or disclosed to unauthorized individuals, entities, or processes."

- Public
- Sensitive
- c3 Restricted
- Confidential



Integrity means maintaining and assuring the accuracy and completeness of data over its entire lifecycle.

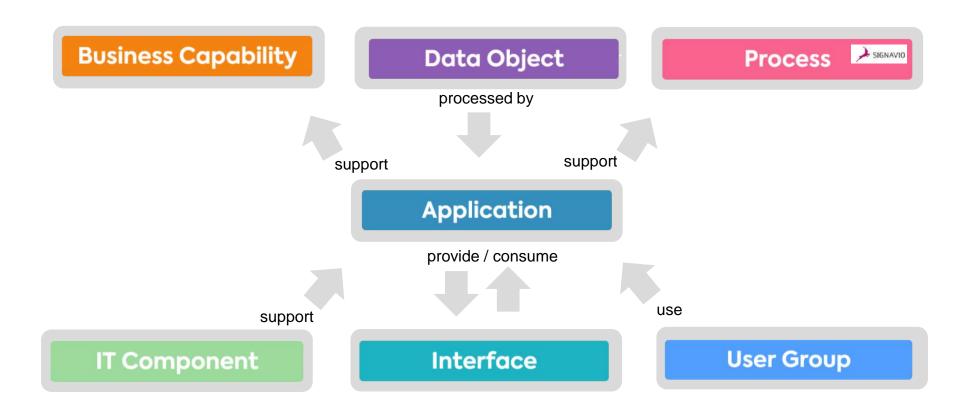
- **11** Low
- Normal
- 13 High
- Very High



Availability requires that information must be available when it is needed, to serve its purpose.

- Administrative Service
- Business Operational
- Business Critical
- Mission Critical

The core of our Enterprise Architecture Model is also the basis for our ISMS



The security goals are identified based on the requirements of Data Objects and Business Processes

Confidentiality and Integrity of Data Objects is documented in LeanIX:

Tag Confidentiality
(= Field "Data Classification")

Tag Integrity

Confidentiality
Integrity

Data Object

Availability

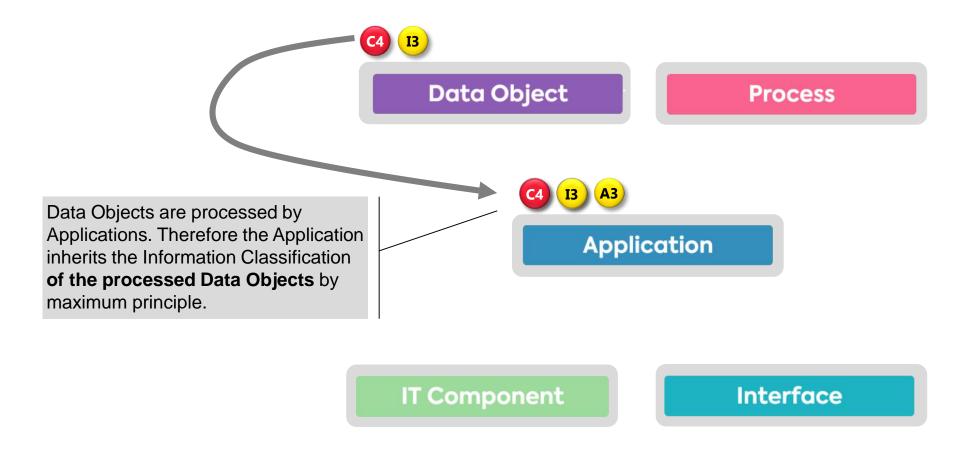
Process 2

Application

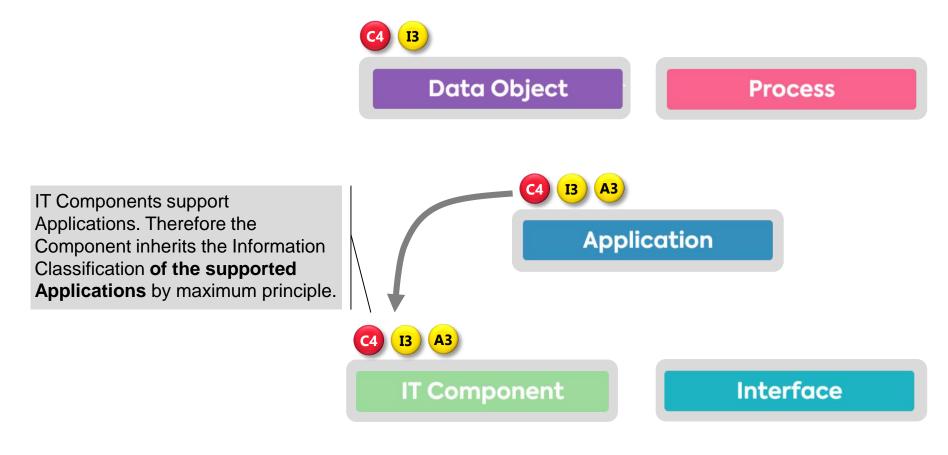
Availability of Applications is determined based on the supported Business Processes.

Tag Availability
 (= Field "Business Criticality")

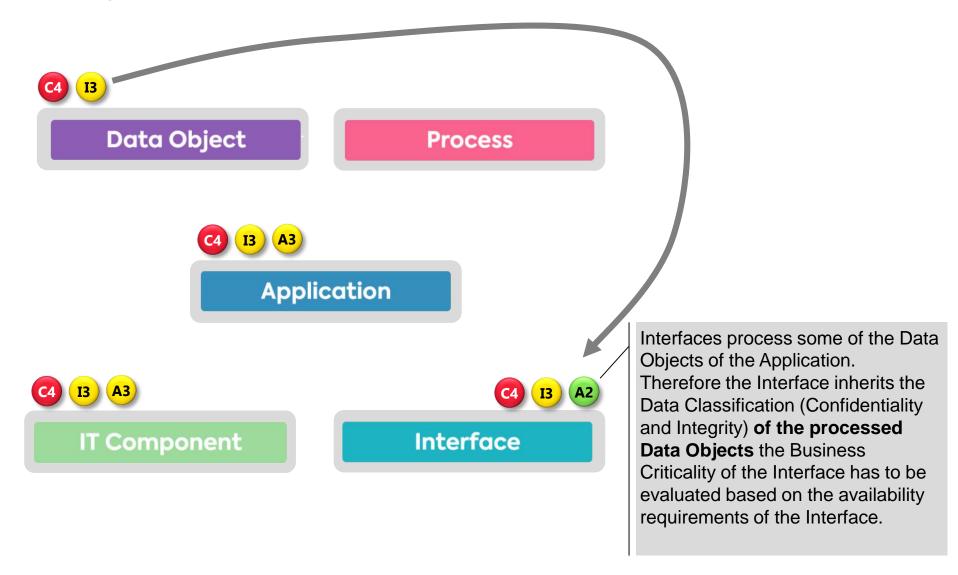
Inheritance of Information Classification



Inheritance of Information Classification



Inheritance of Information Classification



Policies govern the implementation based on the ISMS classification



Policies and Checklists for:

- Databases
- Storage
- Network
- Penetration Testing
- Patch Management
- System Hardening
- Service Provider Security Contracts
- Service Provider Audits
- ..



Policies and Checklists for:

- Software Architecture based on Application Type (e.g. Web Application)
- Software Development
- Testing
- Penetration Testing
- Access/Roles Concept
- ..



Policies for:

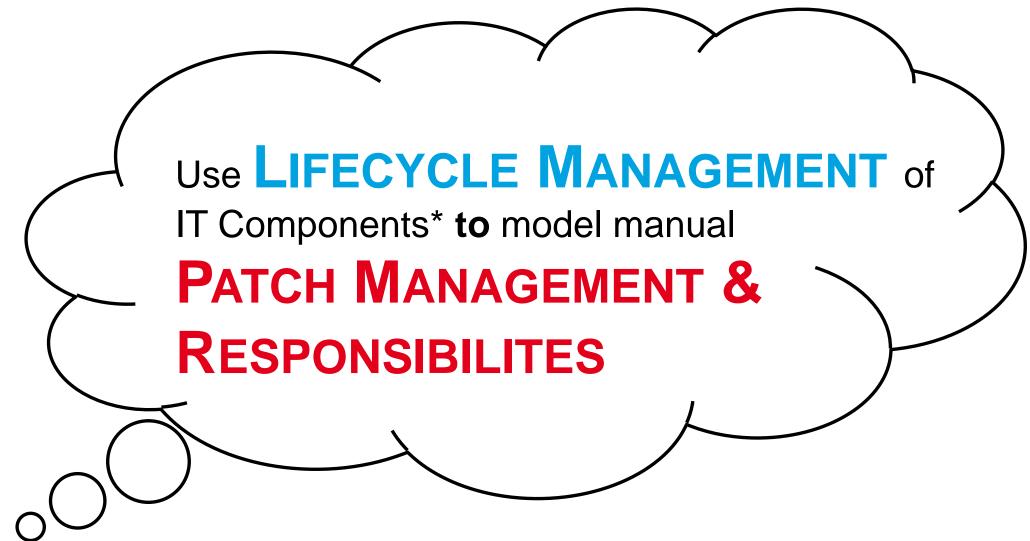
Protocols

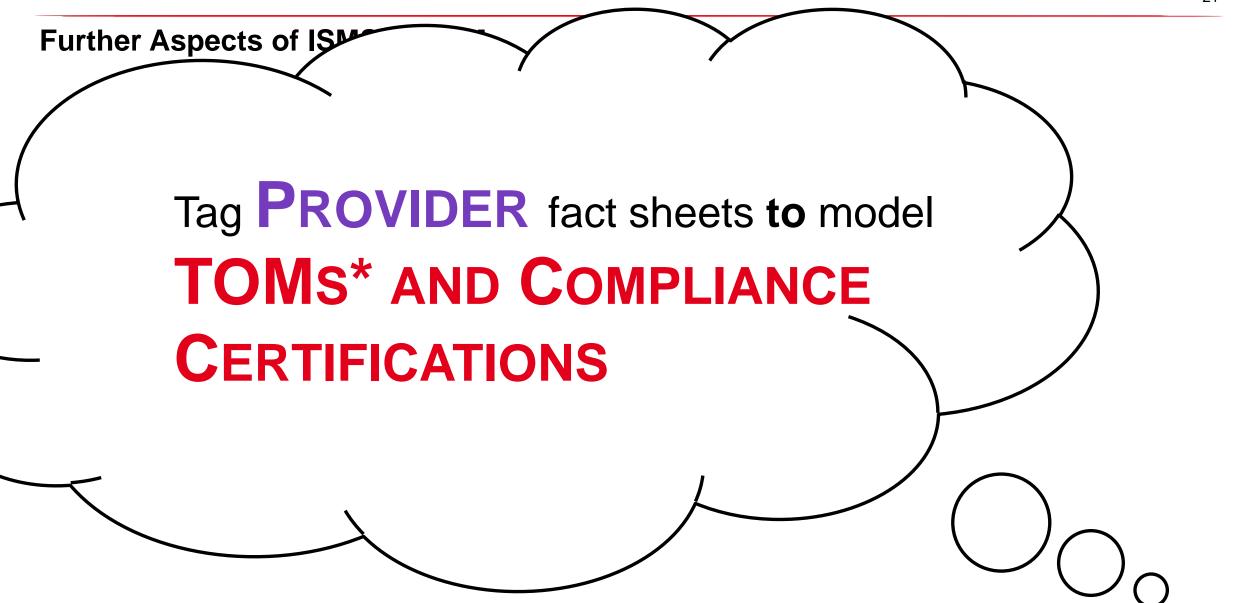
- Interface Technologies
- EncryptionKey Management

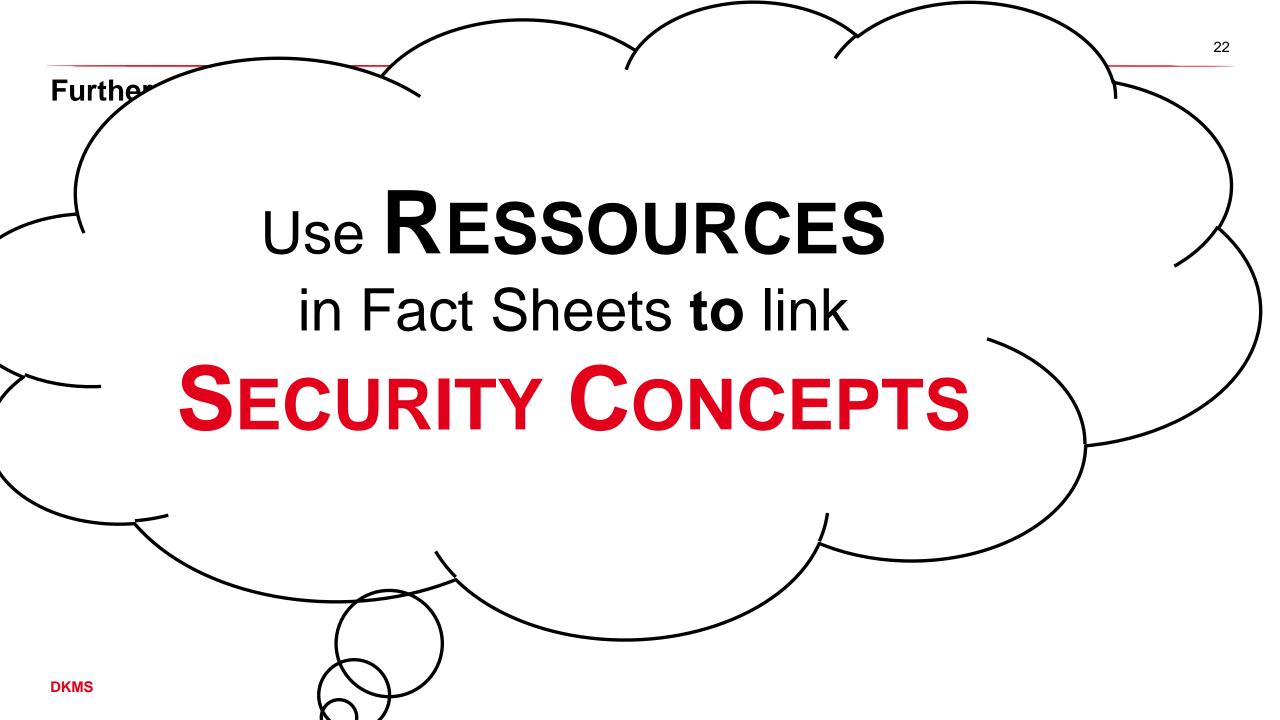
• ...



Further Aspects of ISMS in EAM







Use SELF SERVICE PORTAL* to provide

APPLICATION BLACK- & WHITELISTS

*brand new in LeanIX





Enterprise Architecture Management





Provider Management



Quality Management (QM)





Business Continuity
Management





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