

SESSION 208 Wednesday, November 2, 11:30 AM - 12:30 PM Track: The Specialist

### Frameworks and ISO Standards

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### **Session Description**

As global commerce and the IT that powers communication and business continue to grow, the frameworks and standards that protect the organization's stakeholders have become increasingly critical. This session will give you an overview of these frameworks and standards while providing you with the opportunity to explore COBIT 5, CMMI, and ITIL, in addition to ISO management, audit, and process assessment standards. *(Experience Level: Advanced)* 

### **Speaker Background**

**Robert Meyer** has been a member of itSMF USA for the past eight years, and has served as president of the Ohio Valley LIG since 2015. A highly decorated ITSM professional, Robert is an expert at assessing the relationships between frameworks, including ITIL, COBIT 5, CMMI, and the US federal regulations. Robert also holds ISACA's Certified Information Systems Auditor credential.

THE NEXT GENERATION OF SERVICE MANAGEMENT

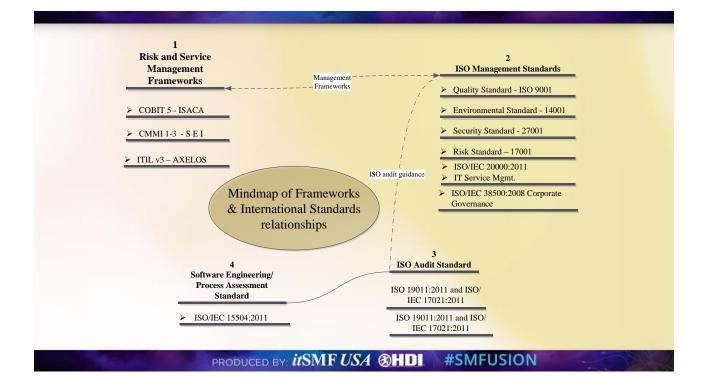
# Frameworks and ISO Standards

Robert A. Meyer

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## Frameworks and ISO Standards

- 1. Mindmap
- 2. Literature Review
- 3. Framework publications and revisions
- 4. ISO by the numbers
- 5. ISO Standards
  - 1. Principles
  - 2. Quality Management Principles
  - 3. Audit Standards
  - 4. Process Maturity Standards
- 6. Discussion



## Summary of Frameworks Literature Review

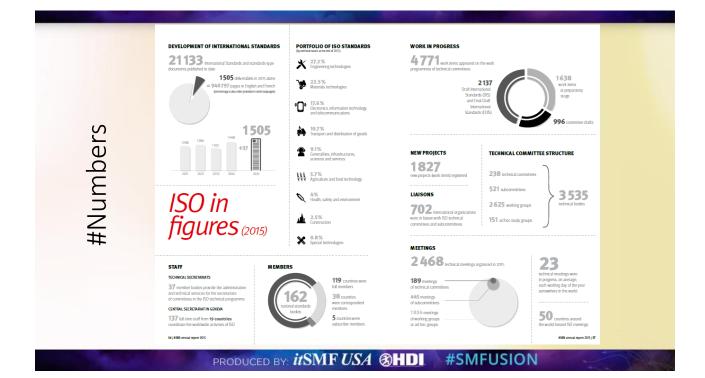
| Publications in<br>Searched Categories | Scholarly Journals | Trade Journals | Dissertations | Books | Government Documents |
|--|--------------------|----------------|---------------|-------|----------------------|
| СММІ                                   | 247                | 93             | 236           | 222   | 83                   |
| СОВІТ                                  | 133                | 23             | 93            | 157   | 5                    |
| ПІ                                     | 59                 | 6              | 71            | 252   | 6                    |

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## Framework publication and revision dates

| Organizations | Title    | Introduced | Prior Updates       | Major Revision | Latest Release | Year |
|---------------|----------|------------|---------------------|----------------|----------------|------|
| SEI           | CMMI-SVC | 1987       | 1997, 2002          | V1.2 2006      | V1.3           | 2012 |
| ISACA         | СОВІТ    | 1996       | 1998, 2003,<br>2005 | COBIT4.1 2007  | COBIT5         | 2012 |
| APMG          | ITIL     | 1988       | 2007                | V3             | ITILV3r        | 2011 |

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## ISO strategic direction 2016-2020

Road Maps – published every 5 years

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## ISO and developing countries

- Three-quarters of ISO members are from developing countries
- Administered at the ISO Central Secretariat (ISO/CS)
- Key Outcome is to support the development or strengthening of the national quality infrastructure
- Benefit Contribute access to
  - World markets
  - Technical progress
  - Sustainable development

## ISO Management Standards

- Quality management standard: ISO 9001:2015 (QMS, ISO 9001) -
- Environmental management standard: ISO 14001:2004 (EMS, ISO 14001)
- Food safety management system (FSMS, ISO 22000)
- Energy management system (EnMS, ISO 50001)
- Information Technology Service Management: ISO/IEC 20000-1:2011
- Information Security Management Standard: ISO/IEC 27001:2005
- Risk Management Standard: ISO 31000:2009
- Corporate Governance Management Standard: ISO/IEC 38500:2008

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## ISO 9000 - Quality management

Standards in the ISO 9000 family include:

•ISO 9001:2015 - sets out the requirements of a quality management system

- •ISO 9000:2015 covers the basic concepts and language
- •ISO 9004:2009 focuses on how to make a quality management system more efficient and effective
- •ISO 19011:2011 sets out guidance on internal and external audits of quality management systems.

## ISO/IEC 20000 - Information technology --Service management

- ISO/IEC 20000-1:2011
  - Information technology -- Service management -- Part 1: Service management system requirements
- ISO/IEC 20000-2:2012
  - Information technology -- Service management -- Part 2: Guidance on the application of service management systems
- ISO/IEC 20000-3:2012
  - Information technology -- Service management -- Part 3: Guidance on scope definition and applicability of ISO/IEC 20000-1
- ISO/IEC TR 20000-4:2010
  - Information technology -- Service management -- Part 4: Process reference model

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## ISO/IEC 20000 - Information technology --Service management

- ISO/IEC TR 20000-5:2013
  - Information technology -- Service management -- Part 5: Exemplar implementation plan for ISO/IEC 20000-1
- ISO/IEC TR 20000-9:2015
  - Information technology -- Service management -- Part 9: Guidance on the application of ISO/IEC 20000-1 to cloud services
- ISO/IEC TR 20000-10:2015
  - Information technology -- Service management -- Part 10: Concepts and terminology
- ISO/IEC TR 20000-11:2015
  - Information technology -- Service management -- Part 11: Guidance on the relationship between ISO/IEC 20000-1:2011 and service management frameworks: ITIL<sup>®</sup>

## IT service management - ISO/IEC 20000 eases transition to cloud computing for Orange

- Cloud computing the delivery of computation, software applications, data access, management and storage resources "from the cloud", i.e from infrastructure at a remote location, has grown into a multi-billion euro market since its birth in 2007.
- Finding a global information and communications technology (ICT) provider certified to ISO/IEC 20000-1:2011, Information technology – Service management – Part 1: Service management system requirements, is one way to mitigate the doubts and fears of organizations evaluating their entrée into the world of cloud computing.

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## Principle defined

- A basic belief, theory or rule that has a major influence on the way in which something is done.
- "Quality management principles" are a set of fundamental beliefs, norms, rules and values that are accepted as true and can be used as a basis for quality management.
  - Statement
  - Rationale
  - Key Benefits
  - Actions you can take

## Quality management principles

- QMP 1 Customer focus
- QMP 2 Leadership
- QMP 3 Engagement of people
- QMP 4 Process approach
- QMP 5 Improvement
- QMP 6 Evidence-based decision making
- QMP 7 Relationship management

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### ISO Conformity Assessment and Audit Standards

### • ISO/IEC TS 17021-4:2013

 Conformity assessment -- Requirements for bodies providing audit and certification of management systems --Part 4: Competence requirements for auditing and certification of event sustainability management systems

### • ISO/IEC TS 17021-5:2014

 Conformity assessment -- Requirements for bodies providing audit and certification of management systems --Part 5: Competence requirements for auditing and certification of asset management systems

### ISO/IEC TS 17021-6:2014

 Conformity assessment -- Requirements for bodies providing audit and certification of management systems --Part 6: Competence requirements for auditing and certification of business continuity management systems

### • ISO/IEC TS 17021-7:2014

 Conformity assessment -- Requirements for bodies providing audit and certification of management systems --Part 7: Competence requirements for auditing and certification of road traffic safety management systems

### • ISO / IEC 17021:2011

 Conformity assessment -- Requirements for bodies providing audit and certification of management systems -- Part 7: Competence requirements for auditing and certification of road traffic safety management systems

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### ISO Conformity Assessment and Audit Standards

#### • ISO 50003:2014

Energy management systems -- Requirements for bodies providing audit and certification of energy management systems

#### ISO 19011:2011

Guidelines for auditing management systems

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## ISO Process Maturity Standard

### ISO/IEC 15504-3:2004

 Information technology -- Process assessment -- Part 3: Guidance on performing an assessment

### • ISO/IEC 15504-4:2004

 Information technology -- Process assessment -- Part 4: Guidance on use for process improvement and process capability determination

# Multiple management standards

Leveraging integration

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## Conclusion

Relationships

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## References

- ISO Homepage <u>http://www.iso.org/iso/home.html</u>
- ISO Figures http://www.iso.org/iso/home/about/iso-in-figures.htm
- Strategic Plans
  - http://www.iso.org/iso/iso\_strategic\_plan\_2011-2015.pdf
  - http://www.iso.org/iso/iso\_strategy\_2016-2020.pdf
- Quality Management principles <u>http://www.iso.org/iso/pub100080.pdf</u>
- <u>http://www.iso.org/iso/home/news\_index/news\_archive/news.htm?refid=</u> <u>Ref1577</u>
- ISO Standards catalogue -<u>http://www.iso.org/iso/home/store/catalogue\_ics.htm</u>

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