

What is ISO/IEC TR 15504?

International standard for assessing software processes

- Purpose:
- => Continuous process improvement
- => Capability determination
- Scope:

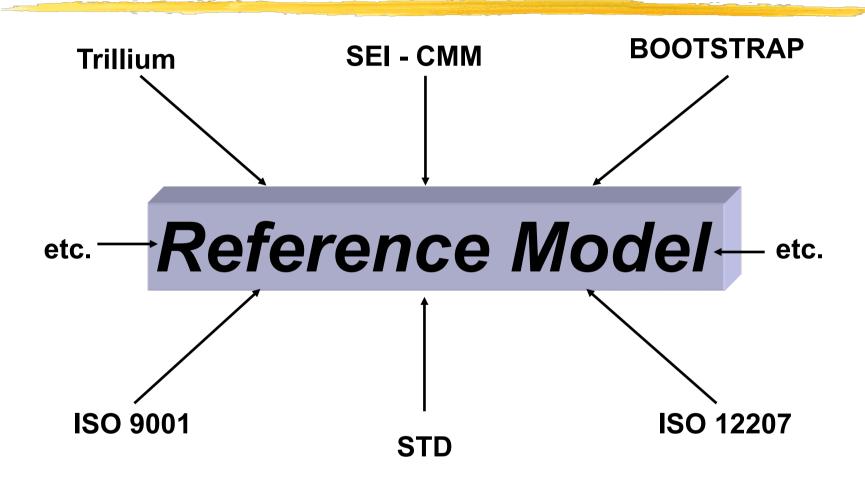
Processes include acquisition, supply, development, operation, maintenance and support

ISO/IEC TR 15504 is an emerging standard currently in transition to full International Standard status!

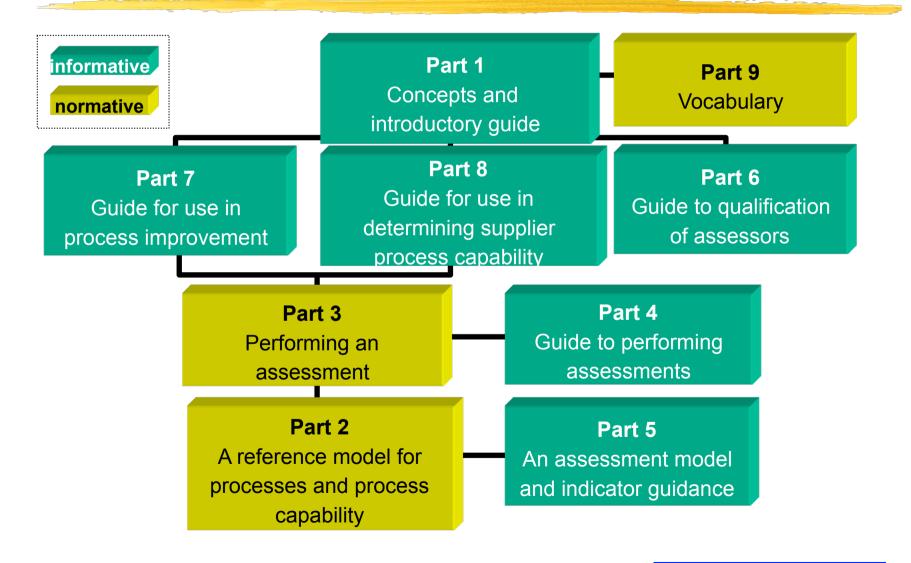
What is SPICE?

- SPICE Software Process Improvement and Capability dEtermination
- Development of an International Standard on Software Process Assessment (ISO 15504)
- The SPICE project (92-98 TR, 99-04) created to:
 - solicit opinions and input of world experts
 - carry out trials provide early feedback
 - create awareness of the new standard by conferences

Sources of Information



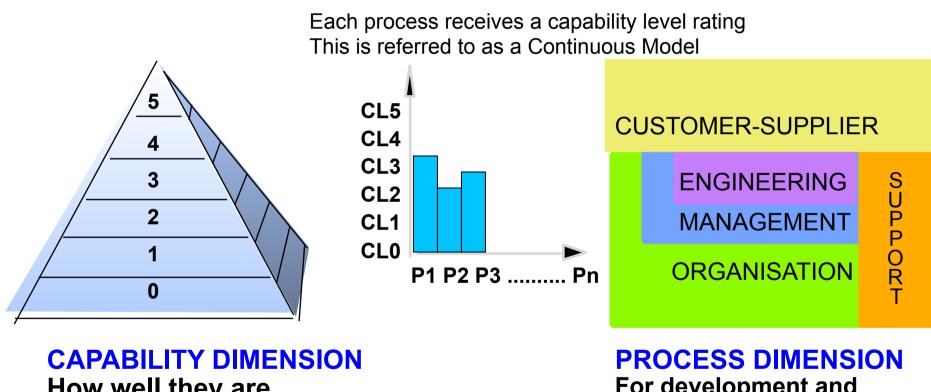
ISO TR 15504 documentation



The SPICE Model

- Two dimensional approach:
 - Process the processes associated with the development and support of software
 - Capability how well they are implemented and managed

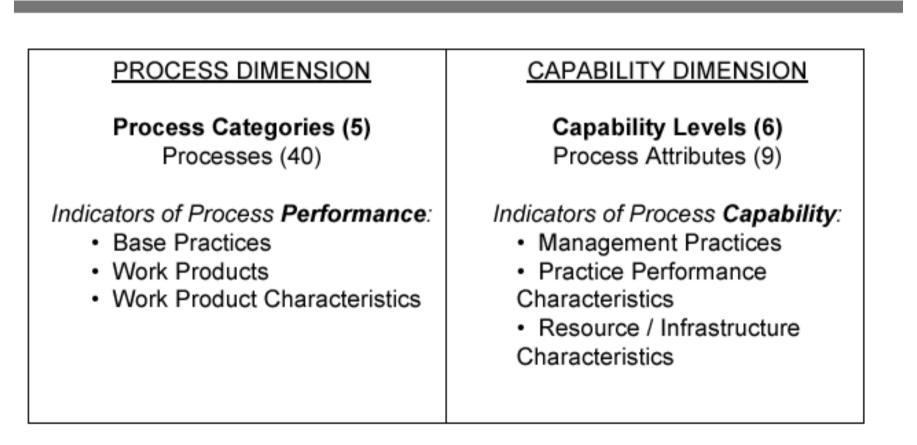
ISO 15504 Reference Model



How well they are implemented and managed?

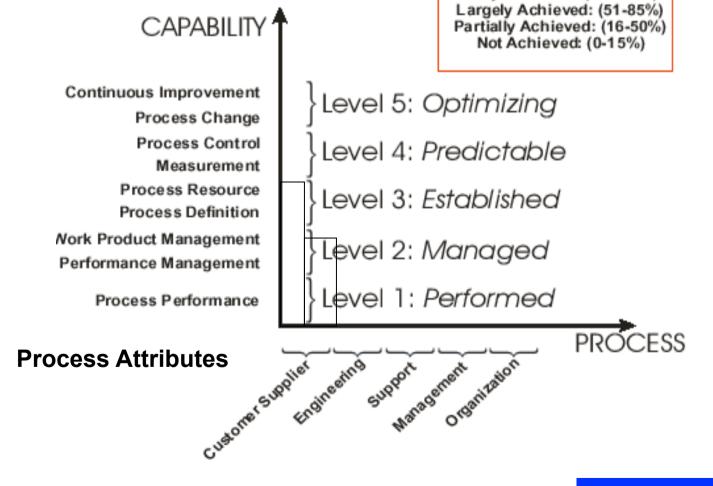
For development and support of software

SPICE (ISO/IEC 15504)

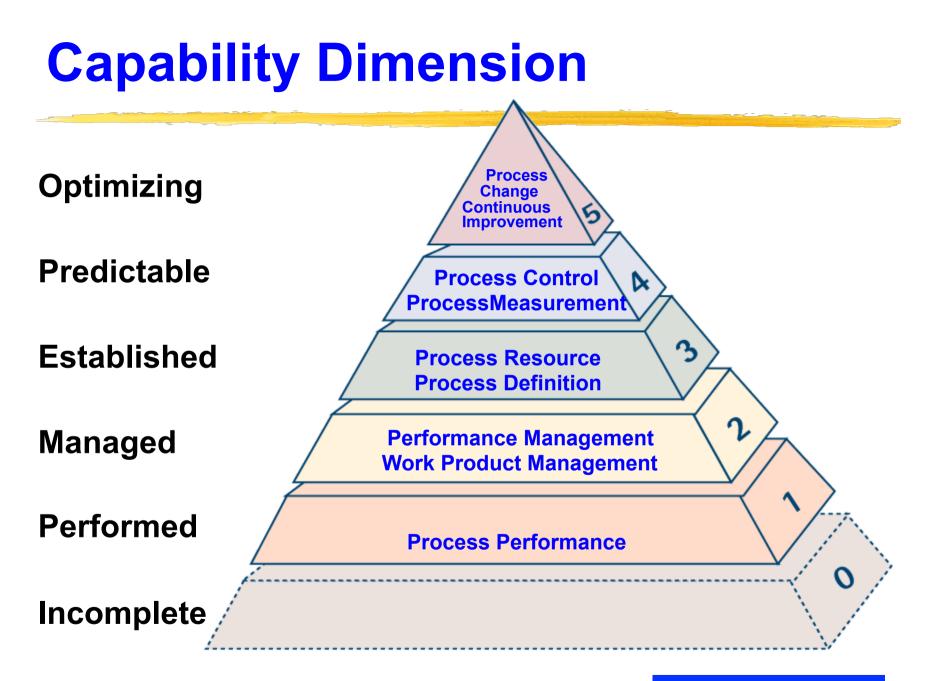


Source: ISO/IEC TR 15504-5- Part 5: An assessment model and indicator guidance

SPICE Architecture



Attribute Rating Scale Fully Achieved: (86-100%)



SPICE processes (summary)

Customer Supplier - those that impact the customer/ supplier relationship

- Engineering those that specify, implement or maintain a system or software product and its user documentation
- Support processes employed by any of the other processes during the Life Cycle
- Management processes used by anyone managing any project or activity within the Life Cycle
- Organisation processes that establish the business
 - goals

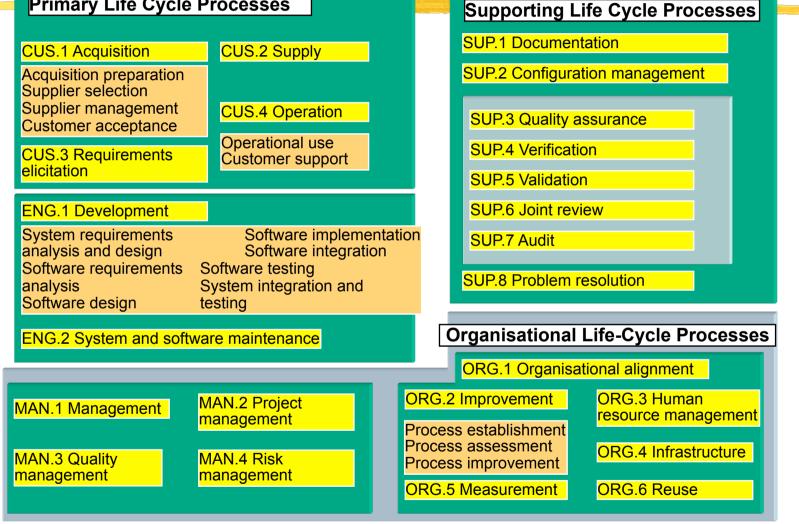
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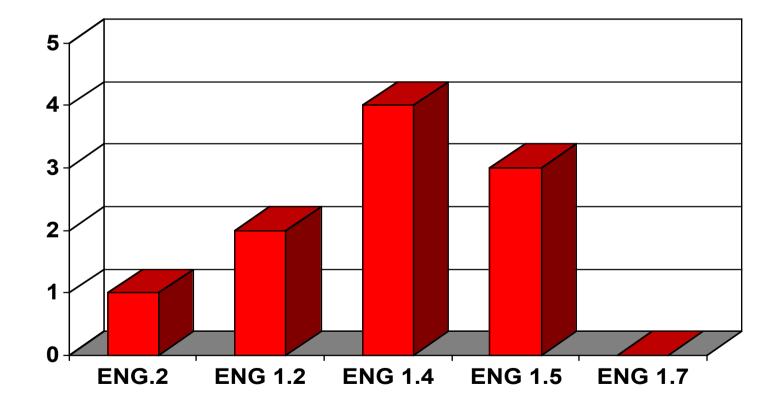
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SPICE structure - Process dimension

Primary Life Cycle Processes

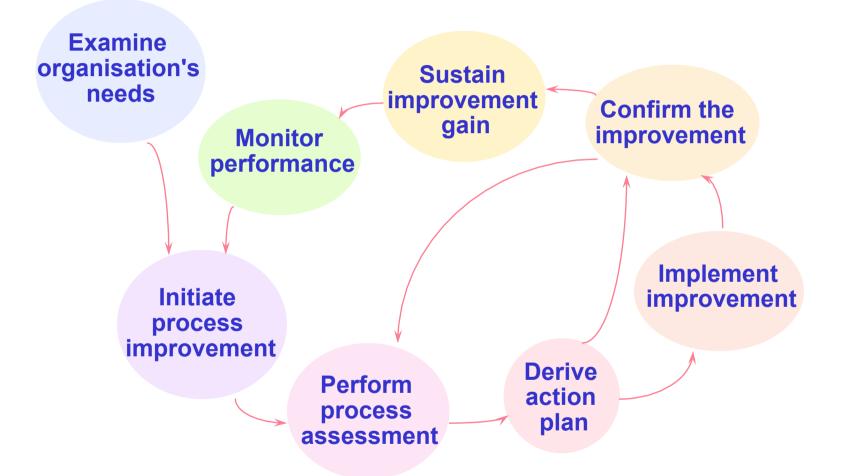


Capability Level Profile



Qualität & Informatik

Process Improvement Steps



Using ISO15504

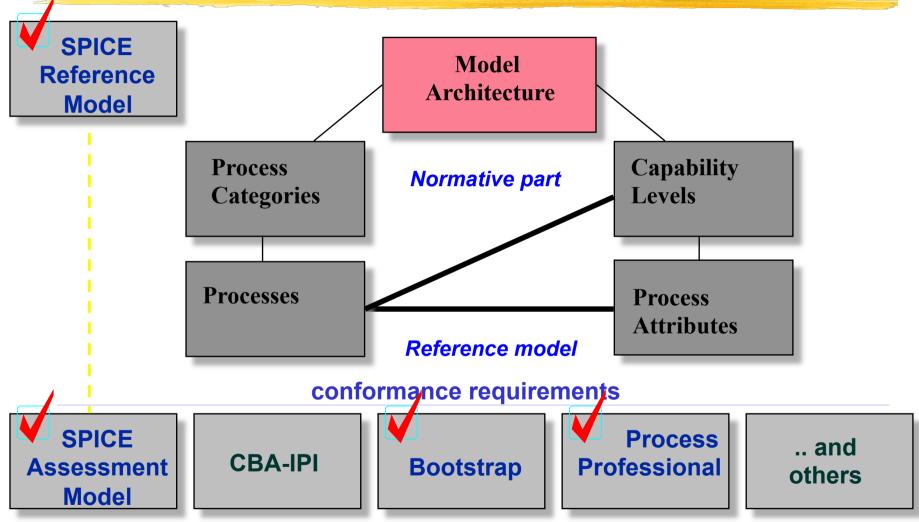
It provides a set of requirements for performing software process assessment using

A Reference Model for Processes and Process Cap.(p2)

Requirements for an assessment (part 3)

- It also provides additional guidance information to support use of the Standard
- In addition, it provides an Assessment model conformant to the SPICE Reference Model (part 5)

SPICE Conformant Models





- A. Welchen Nutzen können Sie aus einem Prozess-Referenzmodell ziehen?
- B. Welchen Nutzen können Sie aus dem SPICE-Verbesserungsprozess ziehen?
- C. Was deckt SPICE nicht ab?