

Capability Maturity Models

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Software Capability Maturity Models

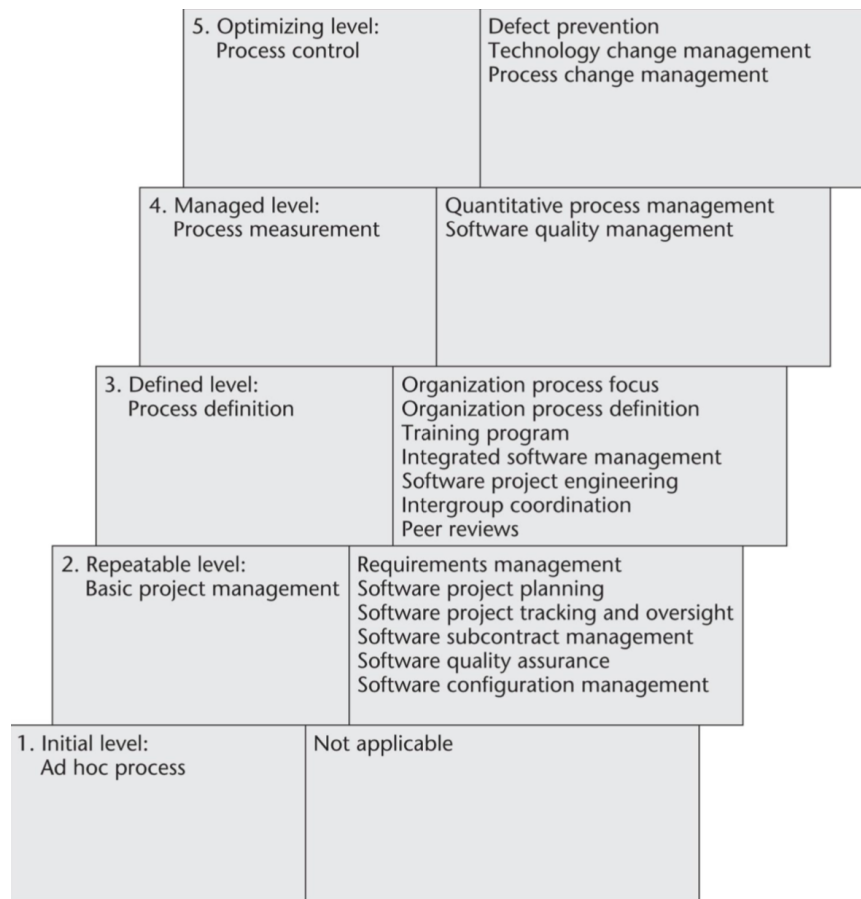


Figure 1: Software Capability Maturity Models

1. Initial Level - Ad hoc approach

- The entire process is unpredictable.
- Management consists of responses to crises.

2. Repeatable Level - Basic software management

- Management decisions should be made on the basis of previous experience with similar products.
- Measurements (“metrics”) are made.
- Problems are identified, immediate corrective action is taken.

3. Defined Level - The software process is fully documented

- The software process is fully documented.
- Managerial and technical aspects are clearly defined.
- Continual efforts are made to improve quality and productivity.
- Reviews are performed to improve software quality.
- CASE environments are applicable now.

4. Managed Level - Quality and productivity goals are set

- Quality and productivity are continually monitored.
- Statistical quality controls are in place.

5. Optimizing Level

- Statistical quality and process controls.
- Feedback of knowledge from each project to the next.