

WP07

Concerns

Design of Software Architectures

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Role of the software architecture



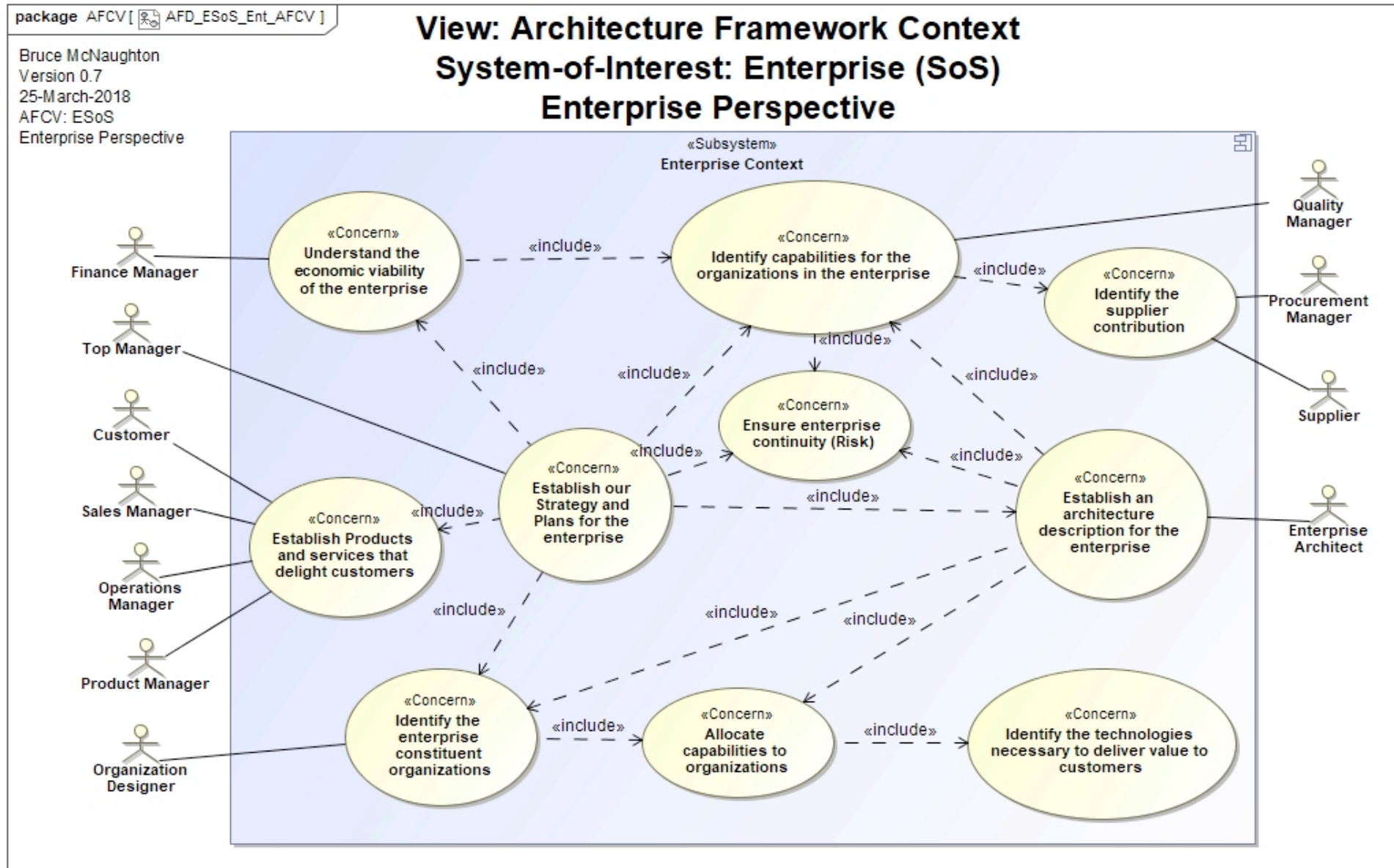
to provide
solution direction
for
most important properties
that are
the most difficult to realise



Concerns (drivers)

- Concern is
 - something a stakeholder *wants to achieve*
 - or *has interest* in
- Concerns are **statements** about one or more aspects
- **Every** stakeholder has concerns
 - otherwise, it is not a stakeholder
- Stakeholders take **decisions** which influence **concerns**
 - decisions are statements

Sample concerns



Concerns vs system properties



How to find usable concerns?

- Formulate concerns from stakeholder perspective (no **generic** terms!)
 - **goals** to achieve
 - **tasks/activities** to perform
 - information **needs** to satisfy
- Must be usable for trade-offs with other concerns:
 - be clear on **importance** for the stakeholder
 - **prioritise** per stakeholder, then overall
 - know which concerns are **non-negotiable**
- Concerns are the reason behind a **requirement**
- Cast doubt on concerns defined in system terms:
 - find out what the **real** concern is

Usable concerns

- Define stakeholder concerns
 - for **10+** most important stakeholders
- Apply the guidelines for acquiring **usable** concerns
- Brainstorm ideas
 - how to address/solve **top 5** concerns

