CMMI and ISO 9001

A Registrar's Perspective

Objectives

- Explore Fundamental Differences
- How Differences Influence Operations
- Choosing a Criteria, Defending the Choice

Why Bother Thinking About It?

- More customers are forcing standards on suppliers

- Those customers don't live with the results of those decisions

- Understanding the differences can help defend choices to customers (and maybe influence them)

Differences are Fundamental

- CMMI - Developed by Systems / Software / Defense Professionals
- ISO 9001 – Developed by International Organization for Standardization

Dissimilar Scope and Focus

- CMMI - Systems Engineering, Software Engineering, Integrated Product and Process Development, and Supplier Sourcing

- ISO 9001 - Generic

- CMMI - "Improving Processes for Better Products"

- ISO 9001 - "Quality management systems – Requirements"

Requirements

- CMMI - Generic and specific practices, with discipline amplifications
- ISO 9001 - Requirements only. Same for all companies, industries, disciplines

Assessment Results

- CMMI – Determines Maturity
- ISO 9001 – Based on Conformity

- Size Does Matter
  - CMMI - 729 Pages
  - ISO 9001 - 33 Pages

Net Effects

- ISO 9001 more flexible and cheaper
- CMMI easier to claim (considering maturity)
- CMMI more appropriate for software, systems, product development
- Choosing what's appropriate, and explaining the differences to stakeholders is what's important

Selection Considerations

- Customer's requirements
- Management's desires
- Competitor's status
- Business objectives

Implementation Differences

- Identification of Requirements

- Documentation

- New Processes and Records

- "Claiming" Process (through assessments)

- Maintenance

- Infrastructure and Costs

Approaches (and Defenses)

- Nothing – Lean and mean
- ISO 9001 Compliant
- ISO 9001 Registered
- ISO 9001 Registered, Addressing Specific Guidance Documents
- ISO 9001 Registered, Developed for Selected CMMI Maturity
- CMMI SCAMPI Assessed

Closing Credits

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Conference Abstract

From the very first glance at the CMMI standard, it is obvious it is more comprehensive and detailed than ISO 9001. Due to the differences in structure, presentation, language, and detail, it can be difficult to identify exactly how different the standards are, and determine how those differences would influence the operation of a an organization that uses one standard over the other. This presentation will explore the differences between the two standards to provide insight that can help determine which standard is best for a given organization. The presentation will also provide information to help organizations explain to customers and other interested parties how both standards fit into the overall management processes of the organization, and how the use of both standards benefits them.