

## ISO/IEC JTC1/SC7 /N3503

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# Process Matters

SWG 5 & WG 7

# Process

- *“set of interrelated or interacting activities which transforms inputs into outputs”*
- Models of practice for practice
- Only models not reality
- Attempts to impose structure on a complicated mess
- Identification of patterns
- Made from a viewpoint

# Use of process standards

- Implementation of organizational or project methods and lifecycle processes
- Assessment of conformance and/or capability
- Norms of “Professional practice” for interest groups
- Standards development - achieving agreement

# User requirements - 1

- Clearly defined scope
- Simple and clear description
- Complete and consistent
- Facilitate communication
- (Guidance available)

# User requirements - 2

- Use process standards together
  - Multiple users of one standard
  - Combination of several standards
- Needs
  - Described the same way
  - Structured the same
  - Non-overlapping
  - Defined level of abstraction/detail
  - Defined viewpoint

# Process in SC7

- Most WGs are defining processes
- To meet requirements we need consistency in SC7
- Two tools to achieve this:
  - Process reference models ISO/IEC 15288 & 12207
  - Process definition guide ISO/IEC TR 24774
- Both produced by WG7

# To encourage consistency

- SWG5 and WG7 representatives are available to brief your WG



# Topics - basic

- What is a process (and what is a lifecycle)
- How processes are defined
- How and why to define processes
- Why have process reference models
- The WG7 process models, intent and coverage
- Relating your processes/process models to the WG7 process reference models

# Topics - FAQs

- How to build lifecycle models - especially how to address iteration
- Other views on systems and projects (and the issue of process models as views of the world in general)
- What is systems engineering?
- How emergent properties are dealt with in 15288 (the old matrix diagram)
- How assurance of critical properties works in our process models
- How integration (in its entirety) is addressed

# When to find out

- Send a representative (s) to the SWG5 room on:
  - Monday 15:30 – 16:30
  - Tuesday 13:30 – 14:30
- Or ask Cheryl for a presentation to your WG
- Further consultancy if necessary