



# NAS Requirements Services Update for the V&V Summit

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# Changes in NAS Requirements Management

## NAS Requirements Services Division

### Where We Are Today

- Viewed as oversight, a repository, an optional resource
- Others “check the box”
- “Throw over the fence” collaboration
- Unclear role and value
- Circumvented
- Limited involvement in technical information exchanges between organizations

### Where We Are Going

- Strategic involvement and active engagement with programs
- Tighter alignment and closer integration with other strategic groups
- Clear roles and responsibilities
- Provider of enterprise intelligence
- Key partner in developing solutions
- More sophisticated governance supporting consistency



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# Requirements Management Services & Initiatives

## ANG-B1

### Requirements Services Division

**NAS  
Program Support**

**Enterprise Requirements  
Management**

Requirements & Interface  
Management WG

Integrated Systems  
Engineering WG

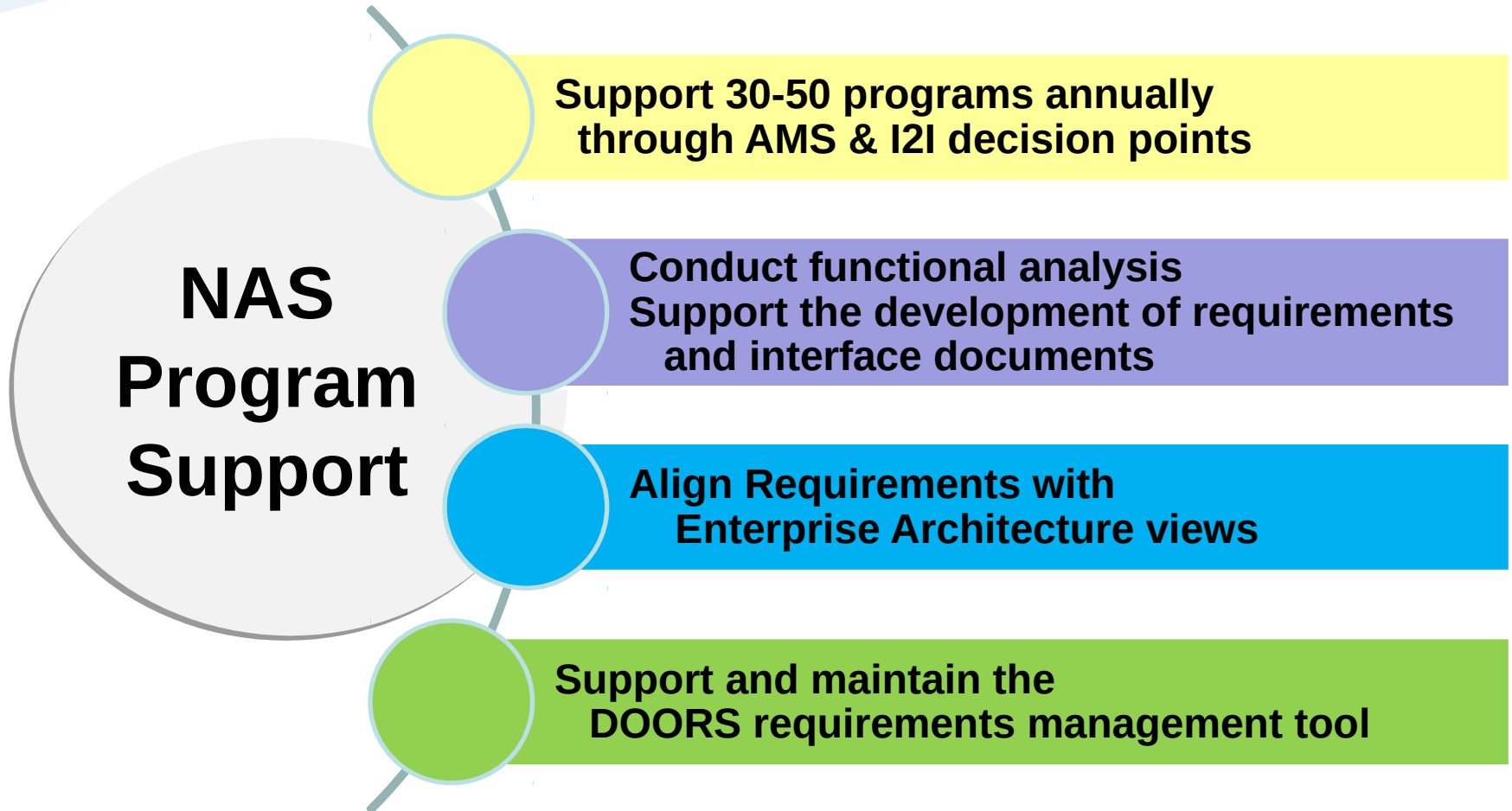
Systems Engineering  
Manual Update



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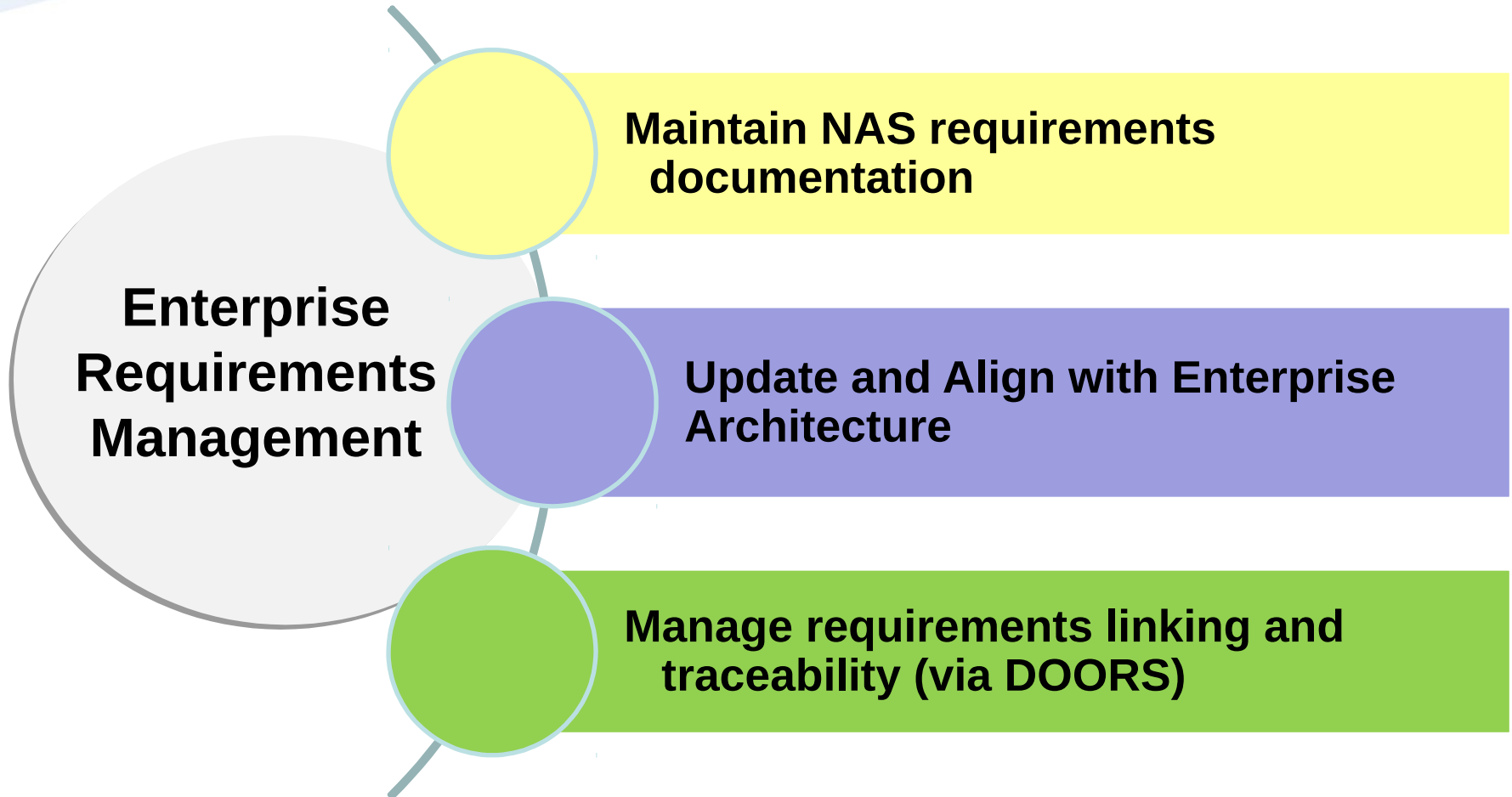
# ANG-B1 Services



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# ANG-B1 Services (2)



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# DOORS

## Requirements Management Tool

- DOORS requirements capabilities
  - ✦ Linking – enforces effective systems engineering practices at both program and enterprise levels
  - ✦ Traceability – enables V&V at any stage
  - ✦ Scripting – provides customizations for V&V
  - ✦ Compatibility – interfaces with Enterprise Architecture products for holist systems engineering perspective
- Training being developed
- Centralizing license management and building consistency of use in an integrated environment

# Requirements Management Initiatives

- **Integrated Systems Engineering WG (ISEWG)**
  - ✦ Co-champion with NAS Enterprise Architect (ANG-B2)
  - ✦ Developed the NAS Integrated Systems Engineering Framework
- **Requirements & Interface Management WG (RIMWG)**
  - ✦ Aligned the NAS hierarchy with CM, EA, and NAS Requirements Documents
  - ✦ Updated the Program Requirements Document template with CPRs (Critical Performance Requirements)
- **Systems Engineering Manual (SEM) Update**
  - ✦ Held 4 workshops to gain stakeholder feedback
  - ✦ Publishing an updated SEM in FY2013

# Requirements Management Interfaces with I2I Process



**NAS  
Operational  
Requirements**

**Preliminary Program  
Requirements (pPR)**

**Final Program  
Requirements (fPR)**

**Initial Program  
Requirements (iPR)**

**System Specification  
Documents**

**Final Program  
Requirements (fPR)**

**Functional Analysis,  
Interface Documents**

*NAS Requirements Database Management Tool*

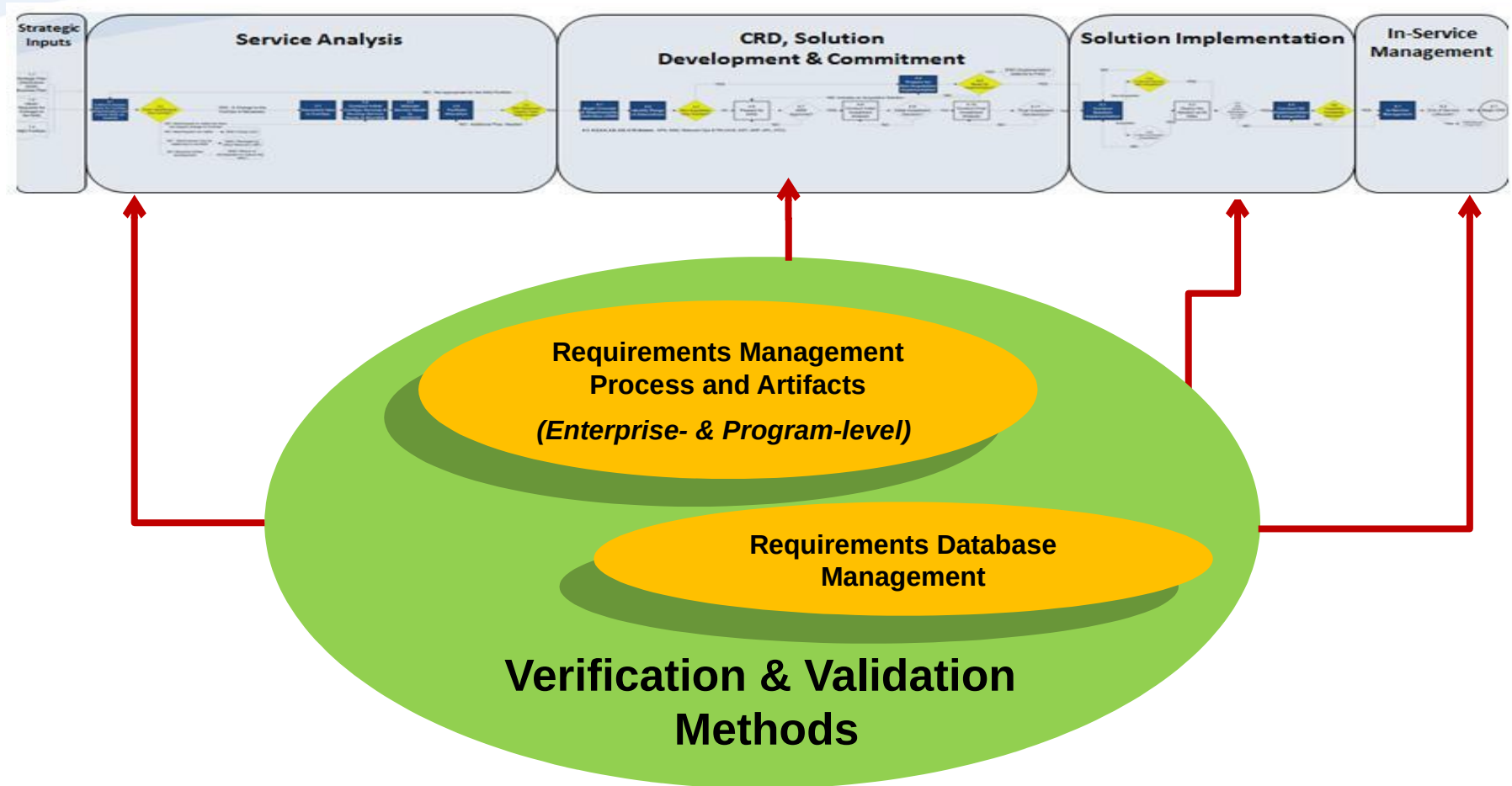


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# Requirements Management V&V in the I2I Process



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# Summary

The NAS Requirements Services Division exists to help you by providing guidance and support in the following areas:

- NAS Program Requirements
- Requirements Database Management (DOORS)
- NAS-RD-20XX Documents
- NAS SV-1 diagram and hierarchy (“simplified NAS diagram”)
- FAA Systems Engineering Manual (SEM)
- Requirements and Interface Management Working Group
- Integrated Systems Engineering Working Group

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