



Network Centric Operations
Industry Consortium

The Role of NCOIC in Architecting the NetCentric Enterprise

May 2010

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NCOIC Assists Customers in Obtaining Interoperable Solutions

- “Unity of Effort”
 - Industry working together with customers to provide a network centric environment where all classes of information systems interoperate
- “Readiness for Action”
 - Available methods and tools
 - NCOIC Interoperability Framework (NIF™)
 - NetCentric Patterns, Guidance on application of standards to mission areas to achieve interoperability
 - Systems, Capabilities, Operations, Programs & Enterprises (SCOPE) and NetCentric Assessment Tool (NCAT™) - tools to plan for and assess netcentricity
- “Mission Success”
 - Our mission is to facilitate the success of your mission - global realization of Network Centric Operations.

The SCOPE Model



Typical Process Steps to Solutions:

- 1. Analysis of Alternatives**
- 2. Requirements Derivation**
- 3. Requirements Validation**
- 4. Design Synthesis**

Supports Layered Quality of Service

Network Centric Analysis Tool (NCAT™)

Building Blocks (BB)

- 5. Design Verification*
- 6. Deployment*
- 7. Support*
- 8. Upgrade or Disposal*

Systems, Capabilities, Operations, Programs & Enterprises (SCOPE) Model

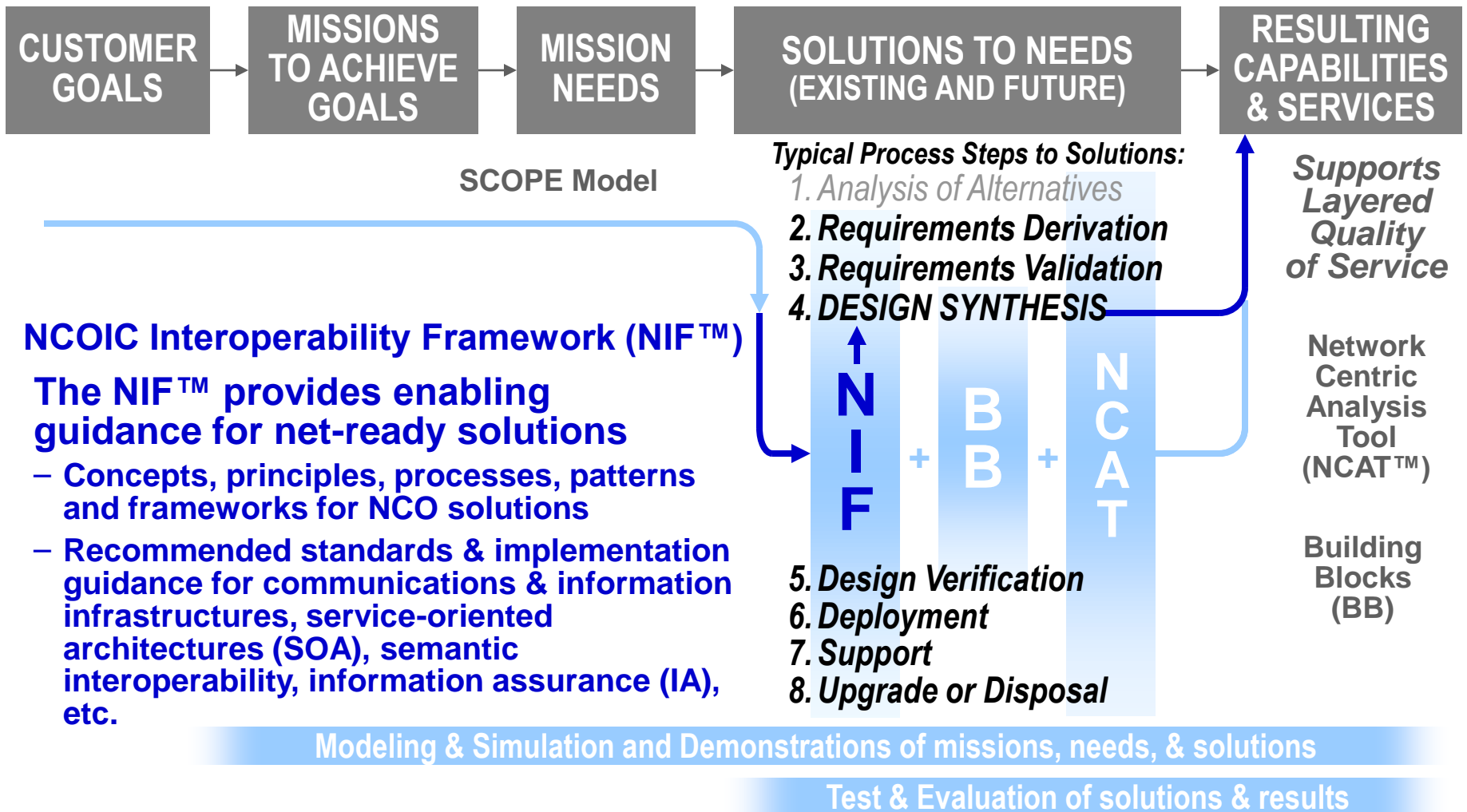
The SCOPE Model:

- An analytical tool that characterizes systems and organizations along interoperability dimensions
- Helps to understand gaps to be overcome and strengths to be leveraged
- Interoperability across various nodes (similar or dissimilar) can be assessed, especially for Legacy systems

Modeling & Simulation and Demonstrations of missions, needs, & solutions

Test & Evaluation of solutions & results

NCOIC Interoperability Framework (NIF™)

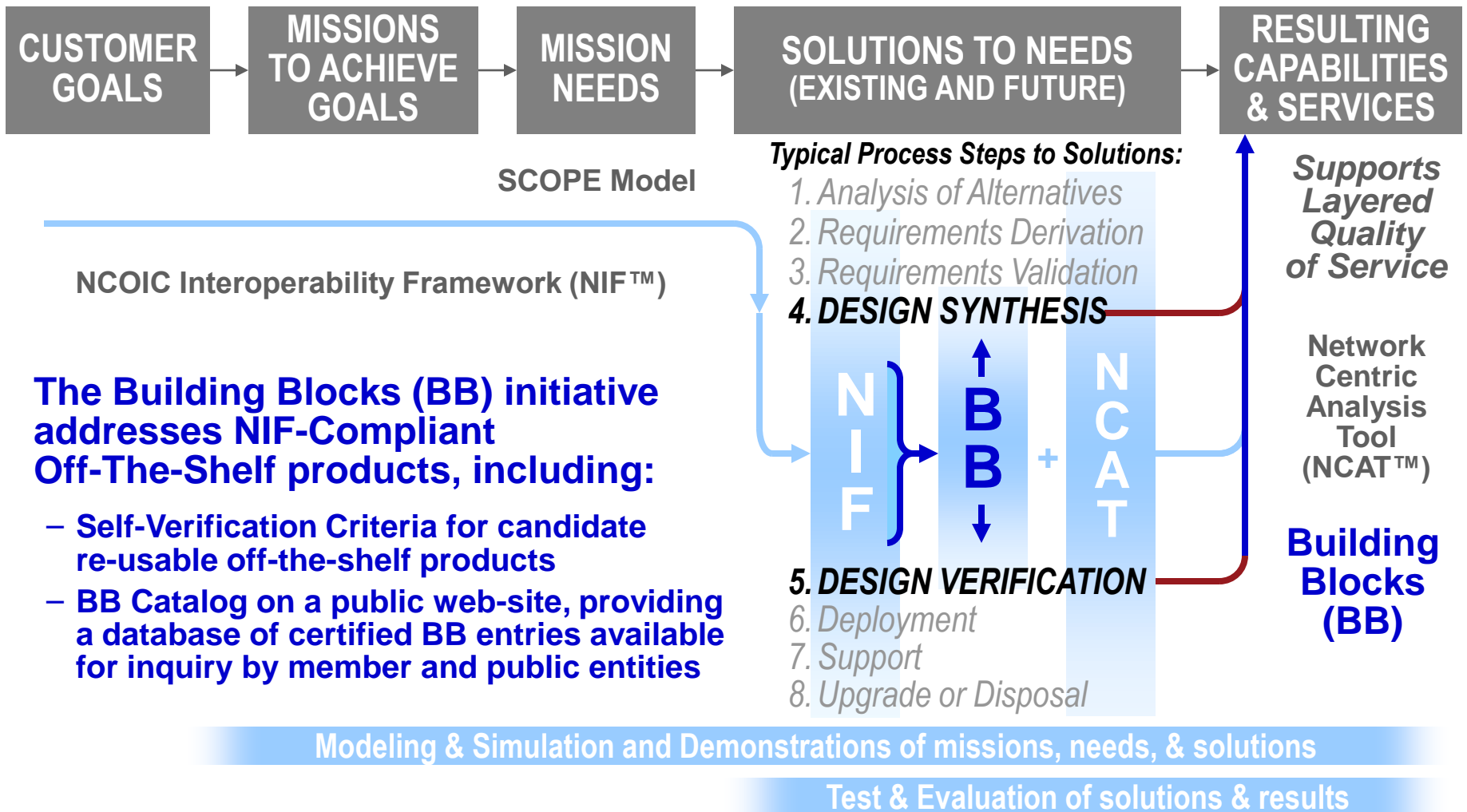


NCOIC Interoperability Framework (NIF™)

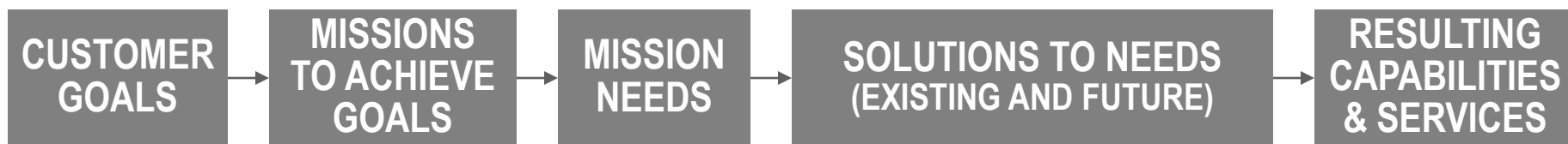
The NIF™ provides enabling guidance for net-ready solutions

- Concepts, principles, processes, patterns and frameworks for NCO solutions
- Recommended standards & implementation guidance for communications & information infrastructures, service-oriented architectures (SOA), semantic interoperability, information assurance (IA), etc.

Building Blocks Verification & Catalog



Network Centric Analysis Tool (NCAT™)



SCOPE Model

Typical Process Steps to Solutions:

1. *Analysis of Alternatives*
2. *Requirements Derivation*
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4. *Design Synthesis*

Supports Layered Quality of Service

Network Centric Analysis Tool (NCAT™)

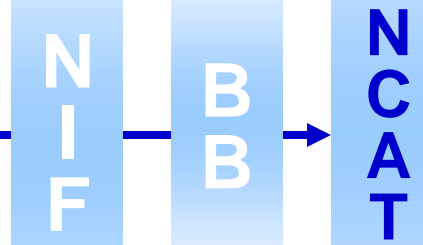
Building Blocks (BB)

5. *DESIGN VERIFICATION*
6. *Deployment*
7. *Support*
8. *Upgrade or Disposal*

NCOIC Interoperability Framework (NIF™)

The Network Centric Assessment Tool (NCAT™) provides an assessment of reaching interoperability goals

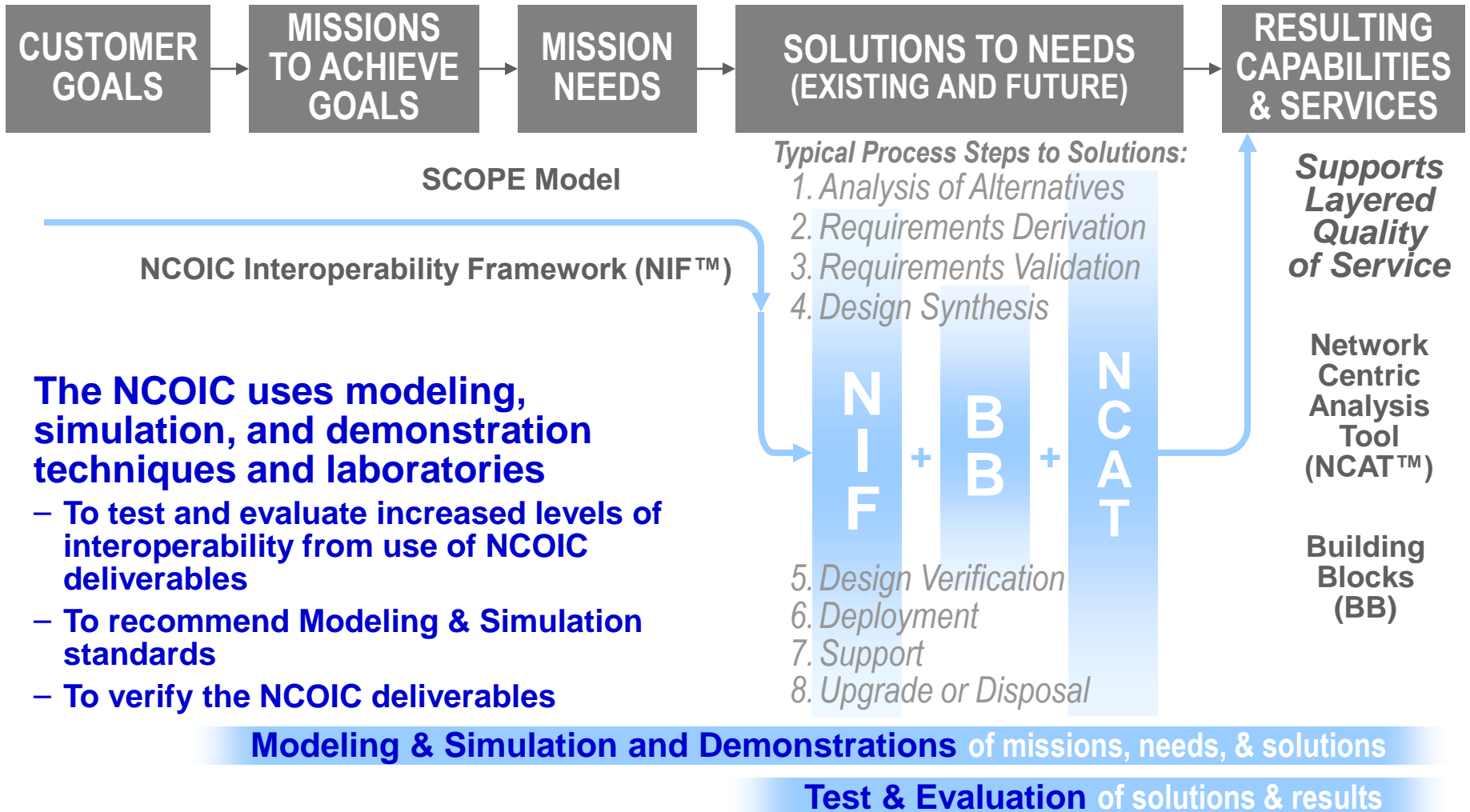
- Provides feedback in development and iterative improvements to assist design, implementation, and acquisition efforts
- A positive NCAT assessment provides ample confidence that the system can operate in a network centric environment



Modeling & Simulation and Demonstrations of missions, needs, & solutions

Test & Evaluation of solutions & results

Modeling & Simulation, Test & Evaluation



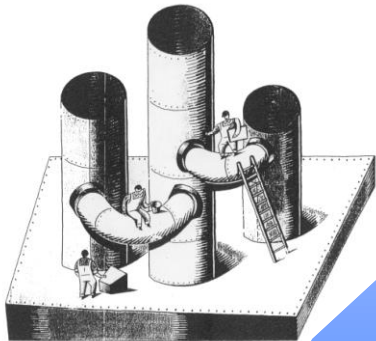
NCOIC™ Goal

*Net-Enabled
Future*



NCOIC™

*Stovepiped
Systems,
Point-to-Point
Networks*



www.ncoic.org