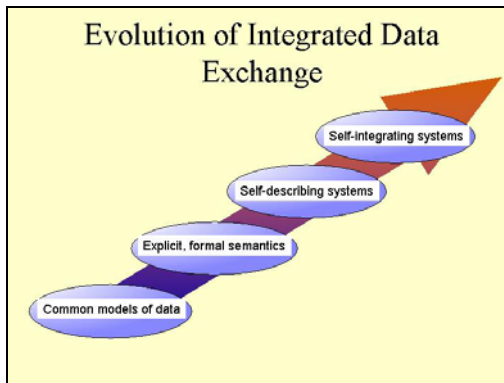


THE SEMANTIC WEB & SELF-INTEGRATING SYSTEMS

In "Weaving the Web," Tim Berners-Lee speaks of a dream for the Web:

"In the first part, the Web becomes a much more powerful means for collaboration between people... In the second part of the dream, collaborations extend to computers... A 'Semantic Web' which should make this possible, has yet to emerge, but when it does, the day-to-day mechanisms of trade, bureaucracy, and our daily lives will be handled by machines talking to machines, leaving humans to provide the inspiration and intuition... The first step is putting data on the Web in a form that machines can naturally understand, or converting it to that form."¹



¹ "Weaving the Web: The Original Design and Ultimate Destiny of the World Wide Web," by Tim Berners-Lee, Mark Fischetti (Contributor), Michael L. Dertouzos, Harperbusiness, 2000.

"The Manufacturing Engineering Laboratory at NIST can help DOD systems interoperate by developing interface standards, modeling tools, and test methods to capture and exchange the semantics of information."

Dr. Steven R. Ray, Manufacturing Interoperability Program Manager

NIST

National Institute of Standards and Technology
Technology Administration, U.S. Department of Commerce



Manufacturing Interoperability Program

For more information Contact: Sharon J. Kemmerer

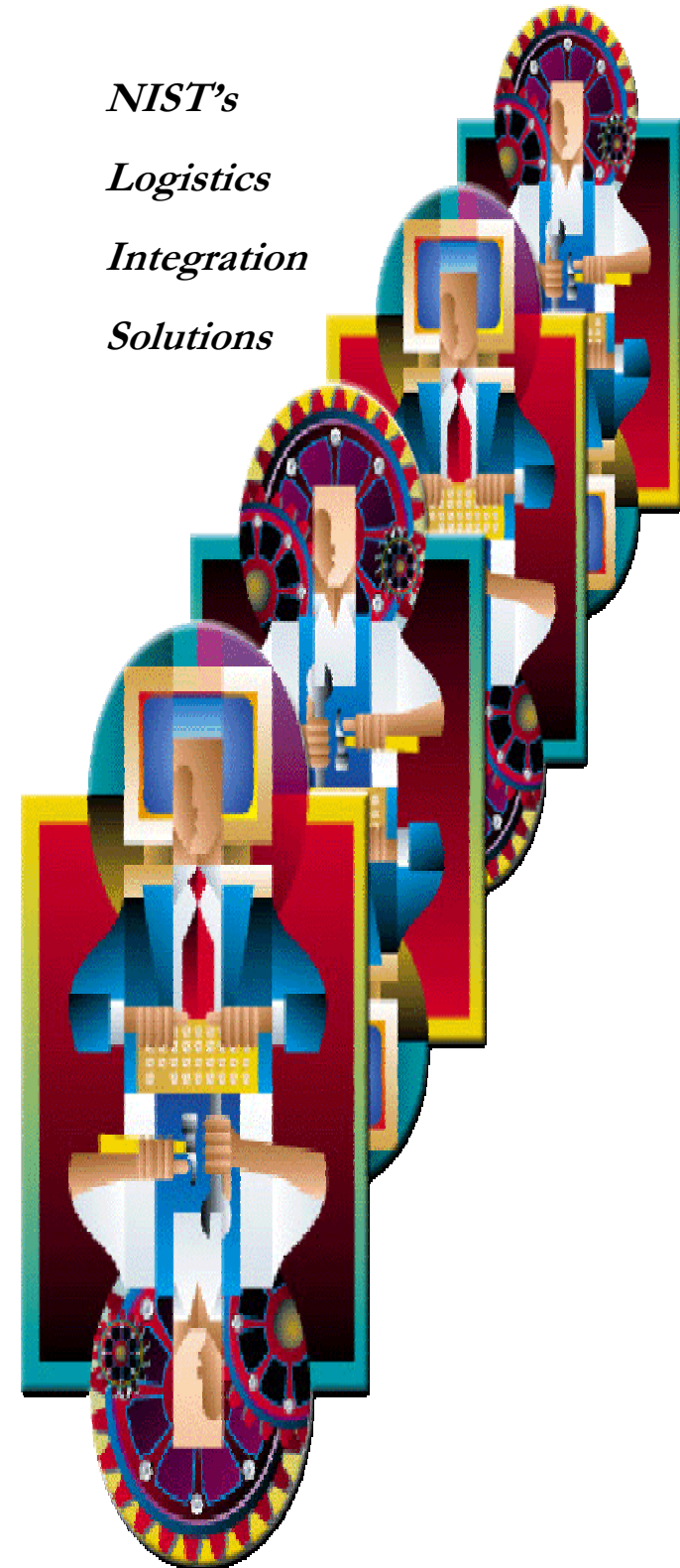
NIST
100 Bureau Drive, M/S 8260
Gaithersburg, MD 20899-8260
phone: 301-975-3508
fax: 301-258-9749
kemmerer@nist.gov
<http://www.nist.gov/msid/>
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NIST's

Logistics

Integration

Solutions



DO YOU...?

Want to become more net-centric with your enterprise and supply chain?

Have trouble integrating the battle space for effective response?

Need to access and integrate intelligence information found on disparate systems?

Love the idea of using standards to integrate logistics but keep buying proprietary solutions to save time?

Need to test to ensure products meet their claims but find it expensive to develop and run test beds?

Still let your current contractor dictate your future integration?

WORKING **NOW**TOWARDS INTEGRATED SOLUTIONS FOR THE FUTURE

Globalization is today's reality, and dealing in a productive manner with this reality is trying at best. At worst, it is impossible. Hours are lost, deliveries not made, what you receive is not what you need; the commanders in the field pay the price. To make matters worse, your technology infrastructure and attempted solutions are evolving faster than ever; the means and time to test your tentative solutions is almost non-existent; and standardized solutions either don't exist or exist and are conflicting.

To equip tomorrow's logistics process with the capability to provide you with the right information and parts at the right time and the right place, we must speculate on what the dominant and determining trends will likely be. If, indeed, your ability to manage your information and partners turns out to be the critical determinant of success, then neutral, manufacturing-related standards for the vast amount of data shared among your partners will become of paramount importance.

"NIST is providing the infrastructure and resources to speed development and implementation of new interface specifications." David Connelly, President Open Applications Group

NIST HAS ANSWERS!

The NIST Manufacturing Interoperability Program staff has years of experience developing standards, validating solutions, and providing interoperability results in the field of manufacturing. Building on this experience, we can:

- *Work with industry to develop the specifications necessary for **your** standards-based solutions.
- * Establish validation, conformance, and interoperability testing and demonstration capabilities.
- * Concentrate on collaborative, definitive solutions for high-priority interoperability problems such as supply chain management, distributed design and engineering, production management, and shop floor processes.
- * Develop new semantic- and ontology-based techniques for standards specification, software implementation, and systems integration.

"A new form of Web content that is meaningful to computers will unleash a revolution of new possibilities." Berners-Lee, Hendler and Lassila