

107TH CONGRESS
2D SESSION

H. R. 2733

AN ACT

To authorize the National Institute of Standards and Technology to work with major manufacturing industries on an initiative of standards development and implementation for electronic enterprise integration.

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To authorize the National Institute of Standards and Technology to work with major manufacturing industries on an initiative of standards development and implementation for electronic enterprise integration.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. SHORT TITLE.**

2 This Act may be cited as the “Enterprise Integration
3 Act of 2002”.

4 **SEC. 2. FINDINGS.**

5 The Congress makes the following findings:

6 (1) Over 90 percent of United States companies
7 engaged in manufacturing are small and medium-
8 sized businesses.

9 (2) Most of these manufacturers produce goods
10 for assemblage into products of large companies.

11 (3) The emergence of the World Wide Web and
12 the promulgation of international standards for
13 product data exchange greatly accelerated the move-
14 ment toward electronically integrated supply chains
15 during the last half of the 1990’s.

16 (4) European and Asian countries are investing
17 heavily in electronic enterprise standards develop-
18 ment, and in preparing their smaller manufacturers
19 to do business in the new environment. European ef-
20 forts are well advanced in the aerospace, automotive,
21 and shipbuilding industries and are beginning in
22 other industries including home building, furniture
23 manufacturing, textiles, and apparel. This invest-
24 ment could give overseas companies a major com-
25 petitive advantage.

1 (5) The National Institute of Standards and
2 Technology, because of the electronic commerce ex-
3 pertise in its laboratories and quality program, its
4 long history of working cooperatively with manufac-
5 turers, and the nationwide reach of its manufac-
6 turing extension program, is in a unique position to
7 help United States large and smaller manufacturers
8 alike in their responses to this challenge.

9 (6) It is, therefore, in the national interest for
10 the National Institute of Standards and Technology
11 to accelerate its efforts in helping industry develop
12 standards and enterprise integration processes that
13 are necessary to increase efficiency and lower costs.

14 **SEC. 3. ENTERPRISE INTEGRATION INITIATIVE.**

15 (a) ESTABLISHMENT.—The Director shall establish
16 an initiative for advancing enterprise integration within
17 the United States. In carrying out this section, the Direc-
18 tor shall involve, as appropriate, the various units of the
19 National Institute of Standards and Technology, including
20 the National Institute of Standards and Technology lab-
21 oratories (including the Building and Fire Research Lab-
22 oratory), the Manufacturing Extension Partnership pro-
23 gram established under sections 25 and 26 of the National
24 Institute of Standards and Technology Act (15 U.S.C.
25 278k and 278l), and the Malcolm Baldrige National Qual-

1 ity Program. This initiative shall build upon ongoing ef-
2 forts of the National Institute of Standards and Tech-
3 nology and of the private sector, shall involve consortia
4 that include government and industry, and shall address
5 the enterprise integration needs of each United States
6 major manufacturing industry at the earliest possible
7 date.

8 (b) ASSESSMENT.—For each major manufacturing
9 industry, the Director may work with industry, trade asso-
10 ciations, professional societies, and others as appropriate,
11 to identify enterprise integration standardization and im-
12 plementation activities underway in the United States and
13 abroad that affect that industry and to assess the current
14 state of enterprise integration within that industry. The
15 Director may assist in the development of roadmaps to
16 permit supply chains within the industry to operate as an
17 integrated electronic enterprise. The roadmaps shall be
18 based on voluntary consensus standards.

19 (c) REPORTS.—Within 180 days after the date of the
20 enactment of this Act, and annually thereafter, the Direc-
21 tor shall submit to the Committee on Science of the House
22 of Representatives and the Committee on Commerce,
23 Science, and Transportation of the Senate a report on the
24 National Institute of Standards and Technology’s activi-
25 ties under subsection (b).

1 (d) AUTHORIZED ACTIVITIES.—In order to carry out
2 this Act, the Director may work with industry, trade asso-
3 ciations, professional societies, and others as
4 appropriate—

5 (1) to raise awareness in the United States, in-
6 cluding awareness by businesses that are majority
7 owned by women, minorities, or both, of enterprise
8 integration activities in the United States and
9 abroad, including by the convening of conferences;

10 (2) on the development of enterprise integration
11 roadmaps;

12 (3) to support the development, testing, promul-
13 gation, integration, adoption, and upgrading of
14 standards related to enterprise integration including
15 application protocols; and

16 (4) to provide technical assistance and, if nec-
17 essary, financial support to small and medium-sized
18 businesses that set up pilot projects in enterprise in-
19 tegration.

20 (e) MANUFACTURING EXTENSION PROGRAM.—The
21 Director shall ensure that the Manufacturing Extension
22 Program is prepared to advise small and medium-sized
23 businesses on how to acquire the expertise, equipment, and
24 training necessary to participate fully in supply chains
25 using enterprise integration.

1 **SEC. 4. DEFINITIONS.**

2 For purposes of this Act—

3 (1) the term “automotive” means land-based
4 engine-powered vehicles including automobiles,
5 trucks, busses, trains, defense vehicles, farm equip-
6 ment, and motorcycles;

7 (2) the term “Director” means the Director of
8 the National Institute of Standards and Technology;

9 (3) the term “enterprise integration” means the
10 electronic linkage of manufacturers, assemblers, sup-
11 pliers, and customers to enable the electronic ex-
12 change of product, manufacturing, and other busi-
13 ness data among all partners in a product supply
14 chain, and such term includes related application
15 protocols and other related standards;

16 (4) the term “major manufacturing industry”
17 includes the aerospace, automotive, electronics, ship-
18 building, construction, home building, furniture, tex-
19 tile, and apparel industries and such other industries
20 as the Director designates; and

21 (5) the term “roadmap” means an assessment
22 of manufacturing interoperability requirements de-
23 veloped by an industry describing that industry’s
24 goals related to enterprise integration, the knowledge
25 and standards including application protocols nec-
26 essary to achieve those goals, and the necessary

1 steps, timetable, and assignment of responsibilities
2 for acquiring the knowledge and developing the
3 standards and protocols.

4 **SEC. 5. AUTHORIZATION OF APPROPRIATIONS.**

5 There are authorized to be appropriated to the Direc-
6 tor to carry out functions under this Act—

- 7 (1) \$2,000,000 for fiscal year 2002;
8 (2) \$10,000,000 for fiscal year 2003;
9 (3) \$15,000,000 for fiscal year 2004; and
10 (4) \$20,000,000 for fiscal year 2005.

Passed the House of Representatives July 11, 2002.

Attest:

Clerk.