

# ISO/IEC JTC 1/SC 32 N 0402

Date: 1999-12-20

REPLACES: --

## ISO/IEC JTC 1/SC 32

### Data Management and Interchange

Secretariat: United States of America (ANSI)

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<b>DOCUMENT TYPE</b>	Other document (Open)
<b>TITLE</b>	Liaison Report - JTC 1/SC 31
<b>SOURCE</b>	Sandy K. Paul
<b>PROJECT NUMBER</b>	
<b>STATUS</b>	<p>As liaison to and from SC 31, I presented the SC 32 Business Plan at their most recent Plenary (July, 1999) for comment, concerns, etc. None were received. I also circulated the Draft Agenda for the upcoming SC 32 Plenary (ISO/IEC JTC1/SC 31N0581) to SC 31 members on 1999-09-24 for comment, concerns, areas of common interest, etc.</p> <p>Having received no responses, I am attaching the SC 31 Business Plan with a comparable request for input, comments, concerns and areas of common interest to the SC 32 Plenary in January, 2000.</p>
<b>REFERENCES</b>	
<b>ACTION ID.</b>	FYI
<b>REQUESTED ACTION</b>	
<b>DUE DATE</b>	
<b>Number of Pages</b>	14
<b>LANGUAGE USED</b>	English
<b>DISTRIBUTION</b>	P & L Members SC Chair WG Conveners and Secretaries

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available from the JTC 1/SC 32 WebSite <http://bwonotes5.wdc.pnl.gov/SC32/JTC1SC32.nsf>

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## Business Plan for ISO/IEC JTC1/SC31

**PERIOD COVERED:** August 1999 – April 2000.

**SUBMITTED BY:** Alan L. Haberman (US), Chair, ISO/IEC JTC1/SC31  
Maria Schneider (US), Secretariat, ISO/IEC JTC1/SC31

### 1. MANAGEMENT SUMMARY:

#### 1.1 JTC1/SC31 STATEMENT OF SCOPE

**Title:** Automatic Identification and Data Capture Techniques

**Area of Work:** Standardization of data formats, data syntax, data structures, data encoding, and technologies for the process of automatic identification and data capture. Excluded are work areas assigned to another international subcommittee or international technical committee, including:

- ISO TC104/SC4/WG2 in the area of work on Automatic Electronic Identification for containers and container related applications.
- ISO TC23/SC19/WG3 in the area of work on identification of animals.
- ISO TC204 in the area of work on RFID for Transportation and Control Systems.
- ISO/IEC JTC1/SC17 in the area of work on Identification Cards.
- ISO TC68/SC6 in the area of work on Financial Transaction Cards, Related Media, and Operations.
- ISO TC122/WG4 in the area of work on Packaging Bar code Labels.

### 1.2 PROJECT REPORT

**A. Work Group on Data Carrier (WG1)**  
**Convenor - Mr. Sprague Ackley (US)**

**Work Projects Assigned:**

Title	Project Number	Project Editor	WD Date	CD Date	FCD Date	FDIS/DIS Date
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - EAN/U.P.C.	NP 15420	S. Ackley	Jan 97	Aug 98	Aug 99	Nov 99
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - Code 128.	NP 15417	C. Swindin	Jan 97	Aug 98	Mar 99	Aug 99
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - PDF 417	NP 15438	H. Clark	Jan 97	Sep 98	Aug 99	Nov 99
Information Technology - AIDC Techniques - Bar Coding - Symbology Identifiers	NP 15424	C. Swindin	Jan 97	Aug 98	Aug 99	Nov 99
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - Maxicode	DIS 16023	S. Ackley	N/A	N/A		May 99
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - Data Matrix	DIS 16022	S. Ackley	N/A	N/A		May 99
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - Code 39	DIS 16388	S. Ackley	N/A	N/A		Aug 99
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - Interleaved 2-of-5	DIS 16390	S. Ackley	N/A	N/A		Aug 99
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - QR Code	NP 18004	C. Swindin	N/A	Sep 98	Sep 99	Dec 99

**B. Work Group on Data Structure (WG2)**  
**Convenor** - Mr. Etienne Boonet (Belgium)

**Work Projects Assigned:**

Title	Project Number	Project Editor	WD Date	CD Date	FCD Date	FDIS/DIS Date
Information Technology - AIDC Techniques - EAN / UCC Application Identifiers and FACT Data Identifiers & Maintenance	NP 15418	D. Buckley	Sep 97	Jun 98	Nov 98	Aug 99
Information Technology - AIDC Techniques - Transfer Syntax for High Capacity ADC Media	NP 15434	C. Harmon	Jan 97	Aug 97	Aug 98	Aug 99
Information Technology - AIDC Techniques - Unique Identification of Transport Units Part 1- Technical Standard Part 2 – Procedural Standard.	NP 15459	D Buckley	Sep 97	Jun 98	Nov 98	Aug 99
Information Technology - AIDC Techniques - Transaction Message Profiles	NP 15960	TBD	TBD*			
Information Technology - AIDC Techniques - Data Objects	NP 15961	TBD	TBD*			
Information Technology - AIDC Techniques - Unique Identification of RF Tag and Registration Authority to Manage the Uniqueness	NP 15963	P. Georget	Mar 99	Dec 99	Apr 00	

\*Under consideration for withdrawal at WG 4's Edinburgh meeting, 15-16 September 1999

**C. Work Group on Conformance (WG3)**  
**Convenor** - Mr. Christopher Swindin (UK)

**Work Projects Assigned:**

Title	Project Number	Project Editor	WD Date	CD Date	FCD Date	FDIS/DIS Date
Information Technology - AIDC Techniques - Bar Coding - Bar Code Print Quality Test Specification – Linear Symbols	NP 15416	C. Swindin	Sep 97	Jun 98	Jun 99	Feb 00
Information Technology - AIDC Techniques - Bar Coding - Bar Code Print Quality Test Specification – Two Dimensional Symbols	NP 15415	C. Swindin	Apr 99	Jun 00**	Dec 00	Jun 01
Information Technology - AIDC Techniques - Bar Coding - Bar Code Master Test Specifications	NP 15421	H. Clark	Jan 98	Dec 98	Jun 99	Feb 00
Information Technology - AIDC Techniques - Bar Coding - Bar Code Digital Imaging and Printing Performance Testing	NP 15419	S. Gray	Sep 98*	Jul 99*	Feb 00	Jul 00
Information Technology - AIDC Techniques - Bar Coding - Bar Code Scanner and Decoder Performance Testing - Part 1: Linear - Part 2: Two-Dimensional	NP 15423	C. Swindin C. Biss	Sep 97 Oct 99*	Jun 99 * Jun 00**	Oct 99 Dec 00	Apr 00 Jun 01
Information Technology - AIDC Techniques - Bar Coding - Bar Code Verifier Conformance Specification - Part 1: Linear - Part 2: Two-Dimensional	NP 15426	C. Swindin C. Swindin	Sep 97 Jun 99*	Jun 98 Jan 00**	Jun 99 Jun 00	Dec 99 Dec 00

\* Some delays were experienced due to resource constraints within the Working Group and waiting for resolution of vocabulary issues.

\*\* Revised schedule to permit completion and analysis of test programme.

**D. Work Group on RFID Item Level Management (WG4)**

**Convenor** – Mr. Henri Barthel (Belgium).

**Work Projects Assigned:**

Title	Project Number	Project Editor	WD Date	CD Date	FCD Date	FDIS/DIS Date
RFID for Item Management –Application Requirement Profiles.	NP 18001	TBD	Sep 99	*		
RFID for Item Management- Air Interface Part 1 – Generic Parameters for Air Interface Communication for Globally Accepted Frequencies Part 2 – Parameters for Air Interface Communications below 135 KHz. Part 3 – Parameters for Air Interface Communications at 13.56 MHz. Part 4 – Parameters for Air Interface Communications at 2.45 GHz. Part 5 – Parameters for Air Interface Communications at 5.8 GHz. ****Part 6 – Parameters for Air Interface Communications at UHF (868 MHz)	NP 18000	TBD	Mar 00	**		
RFID for Item Management – Application Requirements/ Transaction Message Profiles	NP 15960	TBD	See WG2	See WG2		
RFID for Item Management – Data Notation (Data Syntax) ***	NP 15962	P. Chartier	Dec 99	May 00		
RFID for Item Management – Unique Identification of RF Tag and Registration Authority to Manage the Uniqueness.	NP 15963	P. Georget	See WG2	See WG2		Working draft completed CD 12/99
RFID for Item Management – Data Objects	NP 15961	TBD	See WG2	See WG2		

\* In the initial deliverable this is a Technical Report. It is possible that a CD may then be generated as a part of an expanded or redefined NP.

\*\* Part 2 has been given low priority status due to lack of interest by suppliers: Part 5 has been given low priority status due to current high cost of this technology which will limit its application in mass item identification. The NP was specifically written in parts to facilitate such an occurrence.

\*\*\* Title changed to Data Syntax per resolution of Atlanta SC31 plenary July 1999. Pending approval by JTC 1.

\*\*\*\* Supplemental work item to 18000. SC 31 members approved the proposed extension of NP 18000 per ballot due on 21 July 1999. Pending approval by JTC 1.

### 1.3 COOPERATION AND COMPETITION

The following people have been selected as Liaison representatives at the Sub Committee level:

Liaison Group	Title	Representative from SC31	Representative to SC31
ISO/IEC JTC1/SC2	Coded Character Sets	Dr. Clive Hohberger	Ms. Toshiko Kimura
ISO/IEC JTC1/SC17	Identification Cards & Related Devices	Mr. Stephen Halliday	Ms. Susanne Bjorkander
ISO/IEC JTC1/SC28	Office Equipment	Mr. J. Boaventura Mr. Christopher Swindin	Dr. Claude Zeller
ISO/IEC JTC1/SC32	Data Management Services	Ms. Sandra Paul	Ms. Sandra Paul
ISO TC68/SC6	Retail Financial Services	Ms. Susanne Bjorkander	Ms. Susanne Bjorkander
ISO TC122/WG4	Bar Code Symbols on Unit Loads and Transport Packages	Mr. Allan Gilligan	Mr. Allan Gilligan
ISO TC23/SC19/WG3	Identification /Agricultural Electronics	Mr. Stephen Halliday	Mr. W. Eradus
ISO TC104/SC4/WG2	Freight Containers, Identification and Communication	Document Exchange	Document Exchange
ISO TC154	Documents and Data Elements in Administration, Commerce & Industry	Not yet identified	Dr. W. Hennig
ISO TC204	Transport Information & Control Systems	Mr. John Greaves	Mr. Robert Williams Mr. Russ Shields
CEN TC 23/SC 3/WG3	Identification of Cylinders and Contents	Document Exchange	Document Exchange
CEN TC224	Machine Readable Cards, Related Device Interfaces & Operations	Ms. Susanne Bjorkander	Ms. Susanne Bjorkander
CEN TC225	Bar Coding	Mr. Christopher Swindin	Mr. Michel Laplane Mr. Paul Chartier
CEN TC251*	Health Care Informatics	Mr. John Greaves	Not yet identified
CEN TC278	Road Transport & Traffic Telematics	Mr. John Greaves	Mr. Robert Williams
CEN TC310	Advanced Manufacturing Technologies	Document Exchange	Mr. Paul Leadbeater
CEN TC 331	Postal Services	Dr. Claude Zeller	Mr. Francois Gillet
AIM Inc.	AIM Inc.	Dr. Clive Hohberger	Mr. Steve Halliday
EAN International	EAN International	Mr. Henri Barthel	Mr. Henri Barthel
UPU	Universal Postal Union	Mr. Robert Williams	Mr. Robert Valk

ETSI-RP08**	European Telecommunications Standards Institute	Mr. John Greaves	Mr. J. Schuermann
ITU-R ***	International Telecommunications Union - Radio	To be identified	To be Identified

\* SC 31 has agreed to cancel its liaison with CEN TC 251 and initiate the process to establish a liaison relationship with ISO TC 215. The work from CEN TC 251 has been transferred to ISO TC 215 and Mr. John Greaves will be the representative to ISO TC 215 (Atlanta Resolutions 18 and 19)

\*\* Secretariat to finalize necessary documentation and to forward to JTC1 for approval.

\*\*\* SC31 approved proposed liaison with ITU-R per ballot due on 11 July 1999. Subject to confirmation of acceptance by ITU-R. The appointment of representatives from SC 31 will be confirmed by letter ballot issued by Secretariat.



The following people have been selected as Liaison representatives at the Working Group level:

Liaison Group	WG	Title	Representative from WG	Representative to WG
CEN TC225	1	Bar Coding	Mr. Paul Chartier	Mr. Paul Chartier
UPU	1	Universal Postal Union	Mr. Sprague Ackley	Mr. John Wells
EAN International	1	EAN International	Mr. Henri Barthel	Mr. Henri Barthel
AIM Inc.	1	AIM Inc.	Mr. Stephen Halliday	Mr. Stephen Halliday
ISO/IEC JTC1/SC17	2	Identification Cards & Related Devices	Mr. Pierre Georget	Mr. Michel Hubner
EAN International	2	EAN International	Ms Philippa Morrell	Ms Philippa Morrell
UPU	2	Universal Postal Union	Mr. Robert Valk	Mr. Robert Valk
CEN TC225	2	Bar Coding	Mr. Paul Chartier Mr. Michel Laplane	Mr. Paul Chartier Mr. Michel Laplane
ISO/IEC JTC1/SC28	3	Office Equipment	Dr. Claude Zeller	Dr. Claude Zeller
CEN TC225	3	Bar Coding	Mr. Christopher Swindin	Mr. Paul Chartier Mr. Harry Clark
CEN TC331/WG3	3	Postal Standardisation- Machine Readable Marks	Dr. Claude Zeller	Dr. Claude Zeller
AIM Inc.	3	AIM Inc.	Mr. Stephen Halliday	Mr. Stephen Halliday
ISO/IEC JTC1/SC17/WG4	4	Integrated Circuit Cards with Contacts		Document Exchange
ISO/IEC JTC1/SC17/WG8	4	Contactless Integrated Circuit(s) Cards, Related Devices and Interfaces	Mr. Joseph Schuermann	Mr. Joseph Schuermann
ISO TC68/SC6	4	Retail Financial Services	Document Exchange	Document Exchange
ISO TC204	4	Transport Information & Control Systems	Mr. Robert Williams	Mr. Robert Williams
CEN TC225	4	Bar Coding	Mr. Paul Chartier	Mr. Paul Chartier
EAN International	4	EAN International	Mr. Henri Barthel	Mr. Henri Barthel
AIM Inc.	4	AIM Inc.	Mr. Stephen Halliday	Mr. Stephen Halliday
ISO TC23/SC19/WG3	4	Identification/Agricultural Electronics		Document Exchange

UPU	4	Universal Postal Union	Mr. John Greaves Mr. Robert Williams	Mr. Robert Williams

The focus of SC31 on multi-industry solutions will necessitate liaison with many application oriented standards groups. The lists above are expected to grow as SC31 progresses its work. While the avoidance of duplication and overlap is a major objective of these liaisons, additional objectives will likely include the gathering of user requirements, consultation on how SC31 standards might be employed to address industry problems and may, in some cases, involve joint work on projects of mutual interest.

Before the creation of SC31, standardization in the AIDC field was carried out at the national and regional levels. The principal regional organization involved in AIDC standardization, CEN TC225, is cooperating completely with SC31. Much of the work, which CEN TC225 has completed, is now in process of being adopted as SC31 standards. The National Bodies that have been active in AIDC standardization are also active in supporting SC31 standardization efforts as members.

Two major international organizations, AIM Inc. and EAN International, have been active in coordinating AIDC technology and its use for many years. Both organizations have been very active in supporting SC31. A high proportion of the SC31 delegates are also members of these organizations.

**Technical Direction**

SC31 is pleased to confirm and continue, through the close co-operation of the Chairman of SC31, Mr. Alan Haberman, and SC17 Chairman, Mr. Richard Mabbott, the Technical Direction (Category C) relationship between the two subcommittees.

A meeting between the Chairs and the WG Chairs of SC17 and SC31 took place in Brussels, Belgium on 7<sup>th</sup> April 1999 to ensure continued co-operation at the highest level and to further clarify co-operative issues in the next work period. A further meeting took place in Chicago, USA on May 15<sup>th</sup> 1999.

A result of these meetings has been an increase in liaison at Working Group level and additional attendance at the SC17 Plenary to be held in Phoenix, AZ in October 99.

Such relationships grow and are instrumental in avoiding duplication of work and enhancing the conduct of SC31.

The Chairmen and respective liaisons are charged with maximizing utilization of this valuable resource.

**2.0 PERIOD REVIEW**

The overall progress of SC31 and the Working Groups has led to considerable improvement in the quality and quantity of standards across the entire spectrum of SC31 deliverables (*Note the projected Standards published and progress tables in 1.2, parts A,B,C,D*). Since 1998, eight projects have advanced to Final Draft International Standard (FDIS) status and seven more have reached the Final Committee Draft stage (FCD). It is envisioned that by the year 2000, the subcommittee will have more than 10 International Standards published (or close to publication). Reference table 3.1 below for estimated project status for the current Plenary period, August 1999- April 2000.

The continuing recruitment of additional countries and substantially improved commitment to the WG's by individual national bodies has led to the acceleration of SC31 work.

**2.1 MARKET REQUIREMENTS**

AIDC serves many different applications (e.g., product/item identification, point-of-purchase/use, distribution product identification) in such market sectors as retail sales, health care, supply chain distribution, transportation and manufacturing. AIDC technologies are vital elements in existing commerce and are among the basic enablers for the adoption of Electronic Commerce. They provide timely and cost-effective data on the business processes that include ordering, back office operations, manufacture, distribution, sale, use, warranty, and return of products.

While a number of AIDC technologies exist (e.g., bar codes, RFID, contact memory, biometrics, etc.), the initial priority for SC31 work was in the field of bar codes. Here, the highest business demand exists, and there is a large amount of national and regional standardization work, which has formed the basis for much needed global standards.

The use of RFID for Item Management provides the opportunity for SC31 to develop a broad-based application non-specific approach to the technology. This has enabled SC31 to develop a framework for RFID standardization, which will allow parallels to be drawn with other AIDC technologies and will permit long term interoperability and migration across technologies.

With the help of its national members, SC31 continues to investigate the business demand for the standardization of other AIDC technologies. Such investigations are being done on a regular basis since needs change quickly. SC31 has concluded that there should be a reassessment of the need for standardization of contact memory and biometrics, and this was initiated at the SC31 Atlanta plenary in July 1999.

### **2.3 RESOURCES**

Our resources are now meeting the demands of the workload and the majority of work items are ahead of the anticipated delivery date.

### **3.0**

#### 4.0 THE FOCUS OF THE NEXT WORK PERIOD (Aug 99 – Apr 00)

##### 3.1 DELIVERABLES:

TITLE	NP#	EXPECTED STATUS AS OF 4/00
Information Technology - AIDC Techniques - Bar Coding – Symbology Specification – Code 39	16388	IS
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification – QR Code	18004	IS
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - Interleaved 2-of-5	16390	IS
Information Technology - AIDC Techniques - Transfer Syntax for High Capacity ADC Media	15434	IS
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - Code 128	15417	IS
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - EAN/U.P.C.	15420	IS
Information Technology - AIDC Techniques - Bar Coding - Symbology Identifiers	15424	IS
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - PDF417	15438	IS
Information Technology - AIDC Techniques - Bar Coding - Bar Code Print Quality Test Specification - Linear Symbols	15416	FDIS
Information Technology - AIDC Techniques - EAN/UCC Application Identifiers and FACT Data Identifiers and Maintenance	15418	IS
Information Technology - AIDC Techniques - Bar Code Digital Imaging and Printing Performance Testing	15419	FCD
Information Technology - AIDC Techniques - Bar Code Verifier Conformance Specification - Part 1: Linear	15426-1	FDIS
Information Technology - AIDC Techniques - Bar Code Verifier Conformance Specification - Part 1: Two Dimensional	15426-2	CD
Information Technology - AIDC Techniques - Unique Identification of Transport Units - Part 1: Technical Standard	15459-1	IS
Information Technology - AIDC Techniques - Unique Identification of Transport Units - Part 2: Procedural Standard	15459-2	IS
Information Technology - AIDC Techniques - Bar Coding - Bar Code Master Test Specification	15421	FDIS

Information Technology - AIDC Techniques - Bar Coding - Test Specifications - Bar code Scanners and Decoders: Part 1: Linear	15423-1	FDIS
Information Technology - AIDC Techniques - Bar Coding - Test Specifications - Bar code Scanners and Decoders Part 2: Two-Dimensional	15423-2	Working Draft
Information Technology - AIDC Techniques - Bar Coding - Bar Code Print Quality Test Specification – Two Dimensional Symbols	15415	CD
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - Maxicode	16023	IS
Information Technology - AIDC Techniques - Bar Coding - Symbology Specification - Data Matrix	16022	IS
Information Technology - AIDC Techniques - RFID for Item Management – Application Requirement Profiles.	18001	Technical Report
Information Technology - AIDC Techniques - RFID for Item Management- Air Interface Part 1 – Generic Parameters for Air Interface Communication for Globally Accepted Frequencies Part 2 – Parameters for Air Interface Communications below 135 KHz. Part 3 – Parameters for Air Interface Communications at 13.56 MHz. Part 4 – Parameters for Air Interface Communications at 2.45 GHz. Part 5 – Parameters for Air Interface Communications at 5.8 GHz. *Part 6 – Parameters for Air Interface Communications at UHF (868 MHz).	18000	WD in progress
Information Technology - AIDC Techniques - RFID for Item Management – Application Requirements/ Transaction Message Profiles	15960	Working Draft
Information Technology - AIDC Techniques RFID for Item Management – Data Notation (Data Syntax)	15962	WD in progress
Information Technology - AIDC Techniques - RFID for Item Management – Unique Identification of RF Tag and Registration Authority to Manage the Uniqueness.	15963	CD
Information Technology - AIDC Techniques - RFID for Item Management – Data Objects	15961	WD in progress

\* Supplemental work item to 18000. SC 31 members approved the proposed extension of NP 18000 per ballot due on 21 July 1999.

### **3.2 STRATEGIES:**

- Establish effective liaisons with interested bodies e.g. other standards organizations, committees, trade associations and regulatory bodies with the object of avoiding duplication of work and creating interoperable AIDC technologies.
- Develop system integrity across the different technologies, without which all the simple things go wrong and all the complex things become impossible.
- Strive to apply consistent principles across the spectrum of AIDC technologies.
- Monitor the development and use of new AIDC technology to be ready to meet the business demand for global standards.
- Use and improve full electronic communication for the members of the SC.
- Encourage National Bodies in their efforts to build a national infrastructure to support global AIDC standardization.
- Publicize its work programme and delivered standards.

#### **3.2.1 RISKS**

There is some risk that there will be a proliferation of incompatible de facto standards before ISO standards are in place, which will reduce as our liaison relationships become effective, and the program of work is fulfilled.

#### **3.2.2 OPPORTUNITIES**

The primary opportunity is that there has been substantial standardization of most AIDC technologies. This puts SC31 in the position to deliver compatible solutions to all interests in a timely fashion.

### **3.3 WORK PROGRAM PRIORITIES**

The initial priority for SC31 work was to provide a good base of international standards covering bar codes. These standards are needed to support global commerce. The second priority has been to identify and standardize important elements of RFID. RFID is of high commercial interest and is rapidly increasing its market penetration. A third, but lower, priority for SC31 will be the development of standards for other AIDC technologies.

#### **Public Relations Initiative**

In line with JTC1 policy, SC31 will increase its efforts to communicate with the standards bodies and general public about important events through postings with the JTC1 Secretariat (on its 'What's New' page), issuing press releases, and use of its own Web pages to highlight accomplishments.

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