

# FAX

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**DATE:** 1/18/94  
**PAGES:** 3 including this one.

**NOTES:** Hi Stuart,

Here is brief description of the model we are working with, the benefits, and the process that we are following. If you have any problems with this transmission, please let me know. I look forward to talking to you tomorrow.

Best Regards,



Dave Brown  
ROY-G-BIV Corporation,

ABB Inc.

EXHIBIT 1007



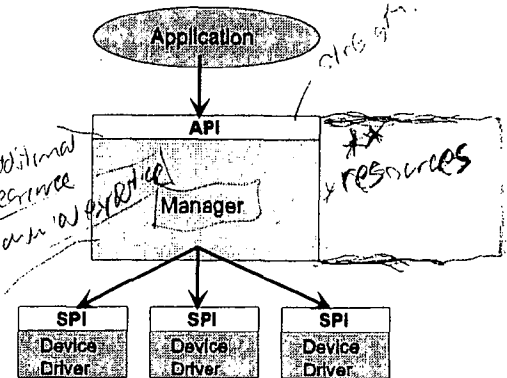
**ROY-G-BIV**

Well-engineered software for a spectrum of ideas

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## Windows Open Service Architecture

Windows Open Service Architecture provides an insulation layer between the application developer and the device drivers created by service providers. Insulating the application developer from the device driver implementation details of the service allows them to work more efficiently. A manager layer supporting the Application Programming Interface (API) handles all high level driver functionality. Some functionality examples included in this layer are support for an OLE 2.0 interface, OLE 2.0 Automation, error management, data normalization, and any other high level, motion control functionality. All device drivers called by the manager layer support the Service Provider Interface (SPI). The functionality provided by the device driver layer is specific to the hardware used. The next section describes some of the advantages of using the WOSA model for both service provider and application developer.



## Advantages of using WOSA

- Provides hardware independent interface which increases marketability of higher level software applications.
- Simplifies device driver development - All interface details and common functionality are handled by the API layer.
- OLE 2.0 interface prepares applications for Windows 4.0 (Chicago) and Windows NT.
- Provides easy integration into higher programming languages through OLE 2.0 Automation.
  - Visual Basic
  - Excel
- Follows client/server model.
- Future OLE 2.0 will provide remote server capability.

## Standardization Process

How can we put WOSA to work? To make the model useful to all users, we need to standardize both the Service Provider Interface and Application Programming Interface. At ROY-G-BIV we are pulling together several industry leaders in the motion control hardware and software markets into a forum to do just that. Within the forum, we will work with all vendors by fielding their input into the specification. Updated specifications and pre-release software supporting the API specification are made available to all participating vendors allowing them to integrate the software into their applications before the final public release. In addition to hardware vendors, we are planning to work with software application developers to help specify and promote the Application Programming Interface.

## Our Role

We are in the process of establishing a standard motion control interface in the motion control market for Windows and Windows NT. Currently, we are creating a consortium of hardware vendors interested in enhancing their market share within the software portion of the motion control market. Our role includes the following:

1. **Coordinate specification evolution.**
  - a) Manage input from participants.
    - i) CompuServe
    - ii) Direct Mail
    - iii) Phone
    - iv) Meetings
  - b) Maintain current specification.
  - c) Distribute current specification.
  - d) Enlist new participating companies.
    - i) Hardware vendors.
    - ii) Software vendors.
2. **Develop manager layer supporting the API.**
  - a) Target Windows NT
  - b) Target Windows 4.0 (Chicago)
  - c) Target Windows 3.1 WIN32s
- ① \* 3. **Develop device driver supporting the SPI for one vendor.**
  - a) Target Windows 4.0 (Chicago)
  - b) Target Windows NT

## Participant's Role

The role of the participant is to have input on the specification, support the SPI layer in developed device drivers, and market the API/SPI software. Below is a detailed description of their role.

- ② \* 1. **Participate in specification evolution.** *Definition, - exclusive basis only*
  - a) Active input.
2. **Develop device drivers supporting the SPI.** *- users*
  - a) Target Windows 4.0
  - b) Target Windows NT
- ③ \* 3. **Market the API/SPI WOSA model.** *- we came up w/ product*
- ④ \* 4. **Sell manager or API layer and SPI supporting device driver with hardware.** *- own exclusively -*