SJE2002E

Aerospace Industry EDI Center Outline of Membership Invitation

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Aerospace Industry EDI Center

The Society of Japanese Aerospace Companies

Contents

1 Introduction

Aiming to enhance the efficiency of ordering activities in the Aerospace industry (100% e-commerce) and realize Aerospace industry standard (Electronic Data Interchange), since April 1999, we have been carrying out the development and on-site verifications of EDI policies and EDI system . As a result, we are now reaching the level of practical application, and have therefore set up an Aerospace Industry EDI Center (hereafter referred to as EDI Center) to spread and expand Aerospace industry standard EDI.

The Aerospace industry standard EDI is to be run in both the companies placing orders and those receiving orders in the Aerospace industry to realize exchange of ordering information between the applicable companies by common EDI regulations and EDI system. The participation in Aerospace industry standard EDI offers the following merits:

（1）Enhancing efficiency of ordering activities
By computerizing the in-house activities of each company (realizing paperless-ness), efficiency of ordering activities inside and outside the company can be enhanced.

（2）Realizing immediate exchange of ordering information
Order placement information can be received promptly and orders received can be reviewed in an early stage compared to information exchange by post and fax using paper documents.

（3）Realizing low cost EDI
Versatile systems can be realized at low cost by using the Internet and XML technology compared to methods using exclusive lines implemented between companies currently.

（4）Reducing system maintenance costs
Costs can be controlled low as common systems are maintained and managed in the industry.

To participate in the Aerospace industry standard EDI, there is a need to become members of the EDI Center. The EDI Center provides the following services to members.

（1）When programs required for actual operations are upgraded, these upgraded programs can be obtained free of charge.

（2）Information on the situation of EDI activities and bug notifications can be obtained by email.

（３）Can participate in reviews and decision-makings on standard regulations, system modifications, etc.

Mitsubishi Heavy Industries, Kawasaki Heavy Industries, and Fuji Heavy Industries started using the Aerospace industry standard EDI from April 2001 and Ishikawajima Harima Heavy Industries since April 2002.

This Outline of Membership Invitation was prepared as information on joining the EDI Center for all companies agreeing with the Aerospace industry standard EDI. In order to implement Aerospace industry standard EDI, there is a need to enter the Basic Agreement on EDI Transactions with related order placement companies.

2 Outline of EDI System

The EDI system serves as a mechanism to interchange ordering information standardized in the Aerospace industry using the Internet or telephone lines. Information exchange is realized by downloading and using the EDI system program provided by the EDI Center.

For details on the EDI Center, refer to "3. EDI Center".

2．1 Information Exchange Method of EDI System

The exchange of ordering information by the EDI system is carried out by disclosing information of both the order receiving companies (suppliers)and order placing companies (customers) at the EDI server of the company placing the order.

The customer uploads the order placement information from its in-house system to the EDI server to disclose the information to the supplierr, and the suppliersupplier is able to download and obtain these order placement information. When the suppliersupplier uploads its response to the EDI server, the customercustomercustomer is able to obtain this information on their response.

As shown in Figure 1 and Table 1, the supplier uses two methods of exchanging these ordering information-collective transmission/reception method and Web-EDI method. These methods can be selected according to the need of thesupplier.

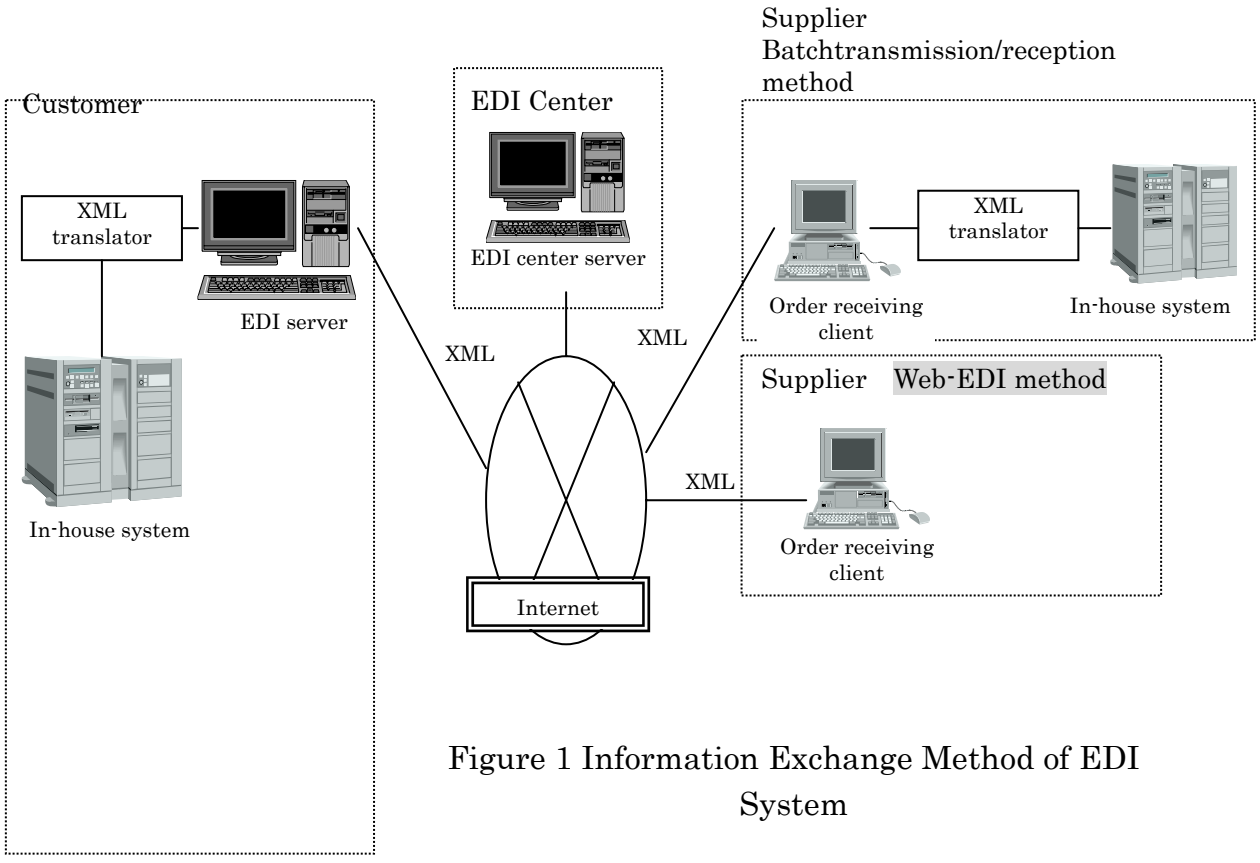


Figure 1 Information Exchange Method of EDI System

Table 1 Outline of Information Exchange Method of EDI System

Exchange method	Processing Details
(1) Bartch transmission/reception method	The supplier collectively downloads order placement information for its company when required from the EDI server of the customercustomer with which it has an e-commerce contract with to its in-house system. The XML*1 format response information created by the in-house system at the supplier is collectively uploaded to the EDI server of the order placement side.
(2) Web-EDI method	The supplier is able to display, print, and download order placement information for its company and past response information which had already been sent when required using Web technology from the EDI server of the customercustomer with which it has an e-commerce contract. It also creates new response information and sends it through a series of operations.

*1 XML（extensible markup language）;
Markup language for describing Webpages.

2．2 Aerospace Industry Standardization Items

The EDI system is prescribed with standardization items to receive information.

During order reception and placement, these standardization items are used to exchange order reception and placement information.

（1） Standard data items

These are standardized data items used in transactions, and they define details of items and attributes (number of digits).

By combining these data items, various standard messages are created.

286 types of standard data items are defined for the Aerospace industry.

（2） Standard messages

Standard messages are made by extracting the data items required for concerned messages out of standard data items. In order reception and placement, information is transferred in this unit.

The following 13 types of standard messages are defined for the Aerospace industry.

- Request for Quotation
- Quotation Response Information
- Request for Invoice List
- Breakdown List
- Purchase Order
- Order Balance
- Delivery data confirmation
- Delivery data answer
- Bill of Delivery
- Details Receipt
- Details Inspection
- Detail Accept
- Notice of Account payable

（3） Syntax rules

Syntax rules prescribe the syntax of EDI data and the files unique to companies (ordering data) are converted to XML format according to these syntax rules for the transfer of information.

（4） Standard data code

Standard data codes are standard data items which have been converted into code schemes.

Fifty-four types of common codes are defined for the Aerospace industry.

（５）Standard delivery statement

Standard delivery statement defines standard data items displayed on delivery statements and their layout.

The operating method is defined in the Aerospace Industry Standard EDI ProtocolsProtocols as a standard delivery system together with standard delivery tags.

（６）Standard delivery tags (AA labels)

The AA label (Aerospace A-Type label) is a tag pasted on the actual goods during delivery to define the displayed standard data items and pasted side.

The operating method is defined in the Aerospace Industry Standard EDI Protocols as a standard delivery system together with the standard delivery statement.

For specific details of standardized items, refer to the Aerospace Industry Standard EDI Protocols.

3 EDI Center

3．1 Outline of EDI Center

The EDI Center was set up in the Association of Japanese Aserospace Companies to spread standards on EDI related particulars and standardized EDI to enhance the efficiency of ordering activities in the Aerospace industry.

To deliver this information extensively, the EDI Center runs a homepage on the Internet.

EDI Center URL：http://edicenter.sjac.cti.co.jp/

The following outlines the EDI center installation and operational regulations.

3．1．1 Objective

The purpose of the EDI Center is to standardize electronic data interchange (EDI) methods related to ordering, etc. in the Aerospace industry, and maintain, improve, and spread methods established as standards (hereafter called "Aerospace Industry Standard EDI Protocols") in the aim to enhance the efficiency of ordering activities in the Aerospace industry in Japan.

3．1．2 Activities

The EDI Center carries out the following activities to achieve the above aims.

（1）Preparation, maintenance, improvement, and management of Aerospace Industry Standard EDI Protocols.

（2）Maintenance, improvement, and management of software required for implementing Aerospace Industry Standard EDI Protocols

（3）Spread of Aerospace Industry Standard EDI Protocols

（4）Partnership and cooperation with organizations and groups, etc. related to enhancement of efficiency of ordering activities in the Aerospace industry and standardization of electronic data exchange methods

（5）Activities required for achieving the aims of the EDI Center other than the above

3．1．3 Members

Members are those registered according to the following categories.

（1）Societymembers　Members of the Association of Japanese Aerospace Companies who support the aims of the EDI Center and cooperate with its activities. These members participate in the steering

committee of the EDI center and can participate in decision-making.

（２）Supporting members Non-members of the Association of Japanese Aerospace Companies who support the aims of the EDI Center and cooperate with its activities. They can participate in the steering committee of the EDI Center and voice comments, but are unable to participate in decision-making.

Those wishing to use the system managed by the EDI Center to carry out ordering activities by Aerospace industry standard EDI must register as members of the EDI Center.

３．１．４ Member Registration

Those wishing to register as members of the EDI Center must enter the designated particulars at the Membership Application screen posted by the EDI Center and acquire approval of the executive committee.

Those wishing to cancel their registration with the EDI Center must enter the designated particulars at the Request for Withdrawal screen posted by the EDI Center.

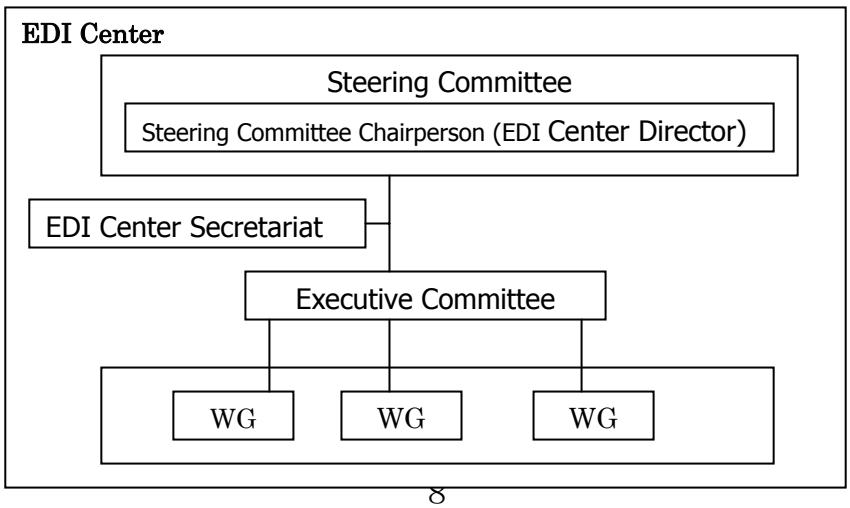
３．１．５ Responsibilities of Members

Members must pay the annual fees prescribed in 5.1.

Members must observe the provisions on management of software prescribed separately by the EDI Center.

３．１．６ Organization of EDI Center

The EDI Center has the following organization to ensure smooth running of activities.



（1）Steering committee ……Composed of societymembers

（2）Executive committee……Composed of society members running the EDI server and those selected by the Steering Committee

（3）Working group （WG）……Composed of those commissioned by the Executive Committee

（4）EDI Center secretariat……Composed of those selected by the Association of Japanese Aerospace Companies

（5）EDI Steering Center……Composed of external subcontractors approved by the Steering Committee

3．2 Information Disclosed by EDI Center

The following information is disclosed at the EDI Center homepage.

3．2．1 Items Disclosed to Public and Members

（1）Aerospace Industry ＥＤＩ Standard Protocols

Aerospace Industry EDI Standard Protocols specifically prescribing Aerospace industry standardization items and operation methods, etc. can be browsed and downloaded.

（2）Free EDI system programs

List of EDI system original programs is disclosed.

The EDI system is divided into standard programs and model programs.

Standard programs consist of customer side server programs and supplierside client programs. They are necessary for installing the EDI system.

The model programs are optional programs such as XML translator and can be used when required. (See Table 2)

These original programs can be obtained free of charge.

Table 2 Programs Used by Exchange Method

Company Type	Exchange Method	Required Program
CustomerCustomer	—	・Customer side EDI server program ・XML translator
Supplier	Collective transmission/reception methods	・Supplierside client program ・XML translator

	Web-EDI method	・Supplier side client program ・XML translator (Optional)

（３） Introduction of EDI Center

Details of projects, latest information, and activities of the EDI Center are disclosed.

（４） Center membership application

The Membership Application screen for acquiring the ID/password necessary for accessing member pages is disclosed.

（５） Outline of members

Description of EDI Center member categories and list of members are disclosed.

３．２．２ Items Disclosed to Members

（１） Latest EDI system programs

List of version upgraded programs is disclosed.

（２） EDI activities information

EDI problems, bug notification, newsletter, EDI activities information such as FAQ are disclosed.

（３） Information on improvement proposals

Information on proposals on improving programs and modifying Protocols is disclosed.

（４） Member information

New registrations of EDI Center members, member information change, withdrawal, member information search, etc. are disclosed.

4 Installation of EDI System

Preparations based on the following procedures are required for installing the EDI system.

（1）Acquisition of Aerospace Industry ＥＤＩ Standard Protocols

The Aerospace Industry EDI Standard Protocols can be obtained free of charge from the EDI Center for browsing to understand the EDI system.

（2）Acquisition of CII standard company codes or SJAC management company codes

To operate the EDI system, there is a need to acquire the CII standard company code or SJAC management company code.

CII standard company codes are cross-industry standard company codes issued and managed by the Japan Information Processing Development Corporation Electronic Commerce Promotion Center. The acquisition of the "CII Standard Company Code" is recommended to participating companies of the Aerospace Industry Standard EDI System.

(Note) Currently managed by the Japan Information Processing Development Corporation Japan Electronic Data Interchange Council (JEDIC). For details on CII standard company codes, refer to reference material CII Standard Company Codes. SJAC management company codes are issued independently by the EDI Center and provided free of charge. The SJAC management company codes are valid only in EDI within the Aerospace industry. They cannot be used in EDI with other industries like the CII standard company codes.

(Note) As of 2005, the "CII" has been removed and they are merely called "standard company codes".

（3）Registration of members to EDI Center

Membership registration is completed from the EDI Center homepage.

Once registered as a member, the member ID for accessing the member homepage is sent by email. When registering in company name, one member ID is assigned to one company.

（4）Acquisition of programs of EDI system

Programs of the EDI system can be downloaded according to the exchange method from the EDI Center homepage.

Those who require a CD-ROM is sent one by post at a certain charge. Installing these programs enables operations of the EDI system.

（5）Individual adjustments, contract with companies

Adjustments are to be made individually with the customercustomer and supplier to enter

the ordering agreement. At this time, the customercustomer issues a client identification key to identify the ordering company at the site where transactions are planned, the order receiving side acquires the client identification key from the order placement side with which transactions are planned, and registers it in the client.

Corporate information of registered members can be browsed at the EDI Center homepage.

（6） Start of transactions

Start of ordering transactions by the EDI system.

5 Outline of Membership

Those supporting the purpose of the EDI Center and will corporate with the center's activities can join the Center.

5．1 Annual Fees

The members of the EDI Center are required to pay annual fees according to their categories shown in Table 4.

The annual fees are used for the activities of the EDI Center such as operating the EDI Center, EDI Protocols, an d maintenance and revision of the EDI system. Based on the ideas of benefit assessment by the use of the EDI system, members are categorized according to the sales of Aerospace and space related activities.

Table 4 EDI Center Annual Fees

Member Type	Type		Category (Sales)	Annual Fees
Society members／ Supporting members	Customer companies		More than 25 billion yen	200 accounts
			More than 5- billion yen ～ Less than 250 billion yen	100 accounts
			Less than 50 billion yen	40 accounts
	Order receiving companies	Companies installed with server	—	40 accounts
		＜WEB－EDI/batch reception method＞	More than 1 billion yen	20 accounts
			More than 0.1 billion yen～ less than 1 billion yen	10 accounts
			Less than 0.1 billion yen	1 account
	Others*1		—	1 account

＊1 : Indicates without Edi transaction with order placing company

Note 1) 2005 is 10000 yen per account

5．2 Membership Application Procedures

Membership of the EDI Center is applied for by the following procedure.

（1）The "Apply for Membership" button of the EDI Center homepage is pressed, and the required information is entered to apply fir membership.

（2）An email indicating the screening results of application by the EDI Center is received.

（3）If the application is accepted, the "Members" button of the EDI Center homepage is pressed to proceed to the member's homepage using the user ID and password provided in the email. Here, registration as formal member of the EDI Center is carried out using the "Request New Member Registration" button.

＜**Reference**＞ Registered Standard Company Codes

（1）Purpose of CII Standard Company Code

Use of company codes to identify the supplier and customer is necessary for implementing EDI. However, considering EDI of different industries, it is indispensable to use cross-industryl standard company codes so that the suppliero and customer are a unique presence in the country.

The CII standard company codes are cross-industry standard company codes issued and managed by the Japan Information Processing Development Corporation Electronic Commerce Promotion Center. If the CII syntax rules are adopted for EDI, there is a need to enter the company code at "Sender code" and "Receiver code", therefore acquisition of the CII standard company code by implementing companies in EDI of this industry is recommended.

（2）Code System

The CII standard company code consists of 12 digits altogether, and the first six digits make up a code indicating the company. It is issued by the CII. The next six digits are a branch number, and are chosen by the concerned company such as branch, factory, etc.

← Company code →	← Brach code →
6 digits	Selected freely by company (Max 6 digits)
① ② ③ ④ ⑤ ⑥	⑦ ⑧ ⑨ ⑩ ⑪ ⑫

Company code：Fixed at 6 digits to indicate the company. No part can be omitted.

BranchSub code ：Used for identifying the department in the company in the management by the company.

（3）Registration fees

Registration fees are required for registering standard company codes. Registration fees are as follows.

When capital is less than 0.1 billion yen	21,000 yen（inclusive of consumption tax）
When capital is more than 0.1 billion yen	42,000 yen (inclusive of consumption tax)

As of June 2000

This registration fee is valid for three years and must be renewed after three years.

Codes once registered will not change even at the time of renewal, but if they are not renewed once every three years, the registered codes will be canceled.

☆ Registered standard company codes and information on registration application can be browsed at the Japan Information Processing Development Corporation Japan Electronic Data Interchange Council (JEDIC) homepage.

URL: http://www.ecom.or.jp/jedic/index.htm

Enquiries on This Guidelines for Applicants

Aerospace Industry EDI Center Secretariat
Association of Japanese Aerospace Companies

ＮＯＦ Building 2F,
1-1-14 Akasaka, Minato-ku, Tokyo 175-0052
Tel:03-3585-1481　FAX：03-3585-0541
Homepage：http://www.sjac.or.jp