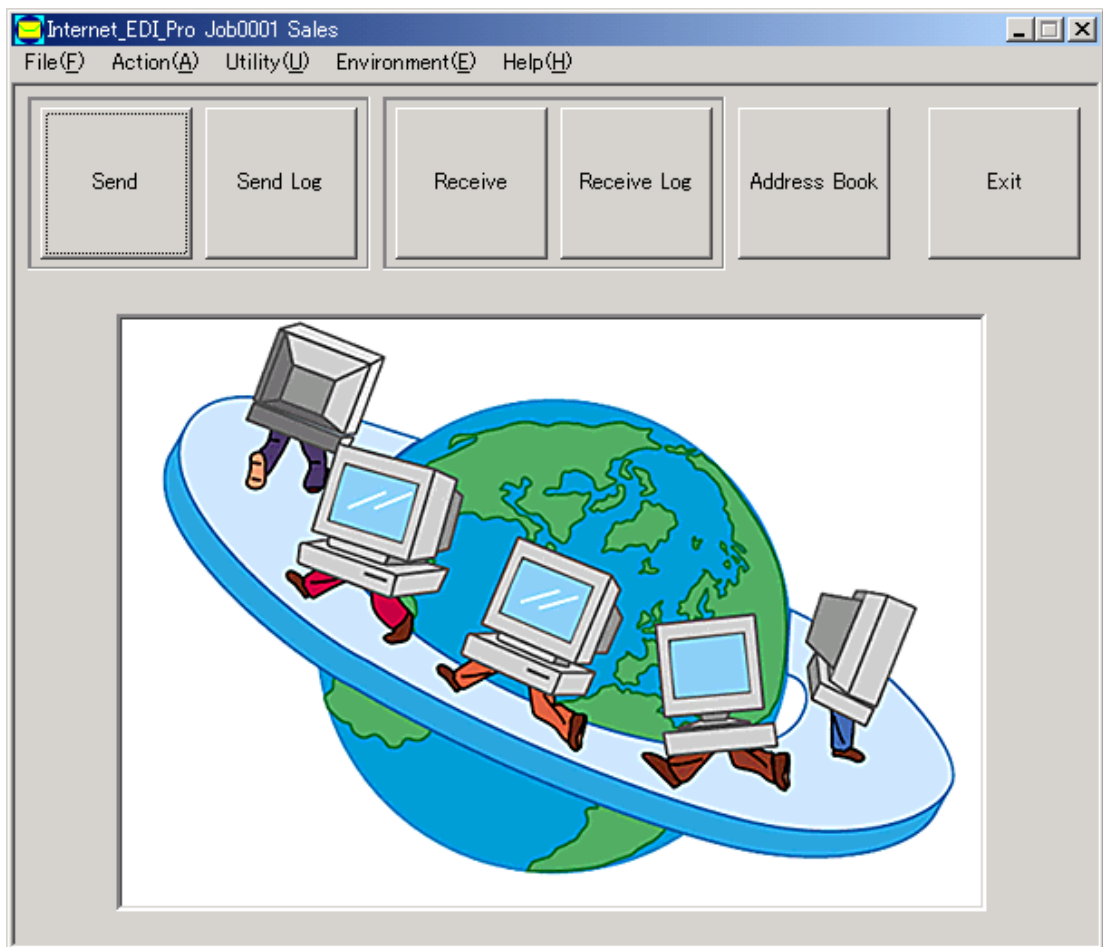


Mail EDI **“e-Express” (Ver8.4)**

Mail Handler **“Mail Connect” (Ver4.4)**

SETUP MANUAL



**Please install
in Administrator mode**

NIHON Software Engineering, Co. Ltd.

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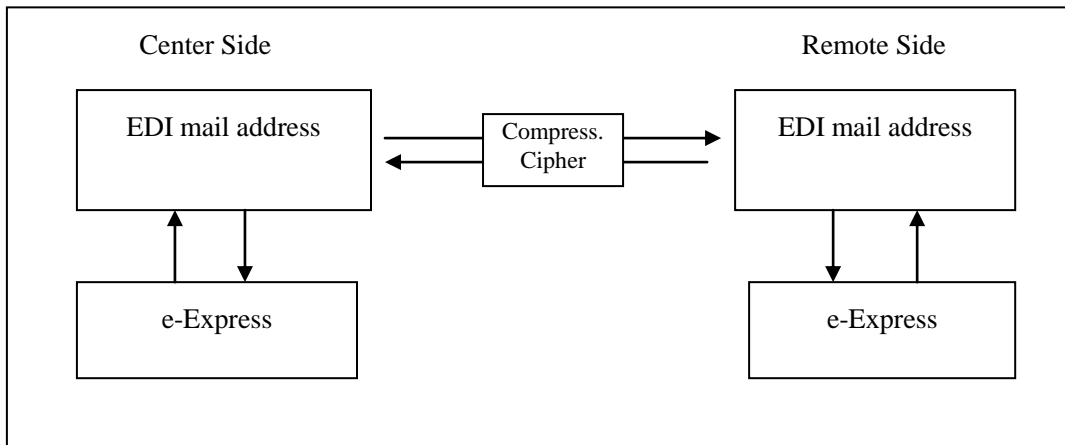
1. Setup Procedures

Please take the following steps for the setup.

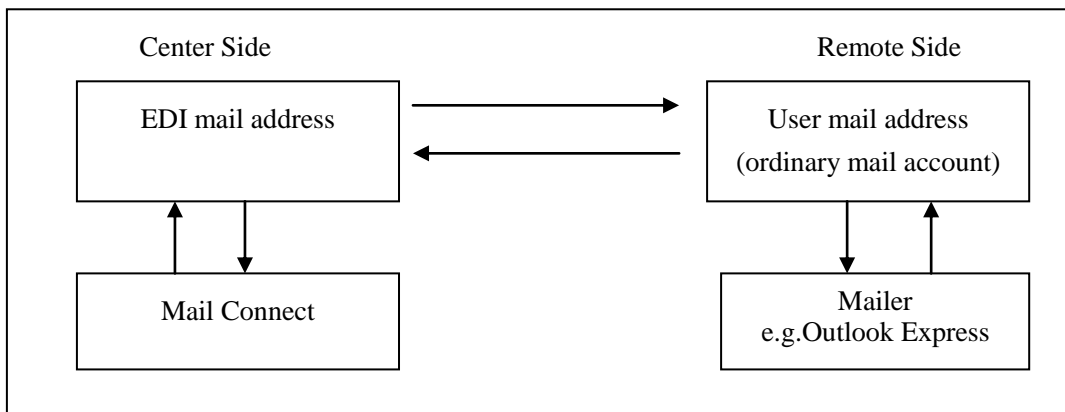
1.1 Creating EDI Mail Box

- Create a dedicated mailbox for EDI for information exchange.
This address is used exclusively as the mailing address for information exchange.
- Do not disclose your password. Never access it by using an ordinary mailer such as Outlook Express.
- Do not specify the mail address that you are normally using as the EDI mail address.
Otherwise, it may erase ordinary mails.

<e-Express>



<Mail Connect>

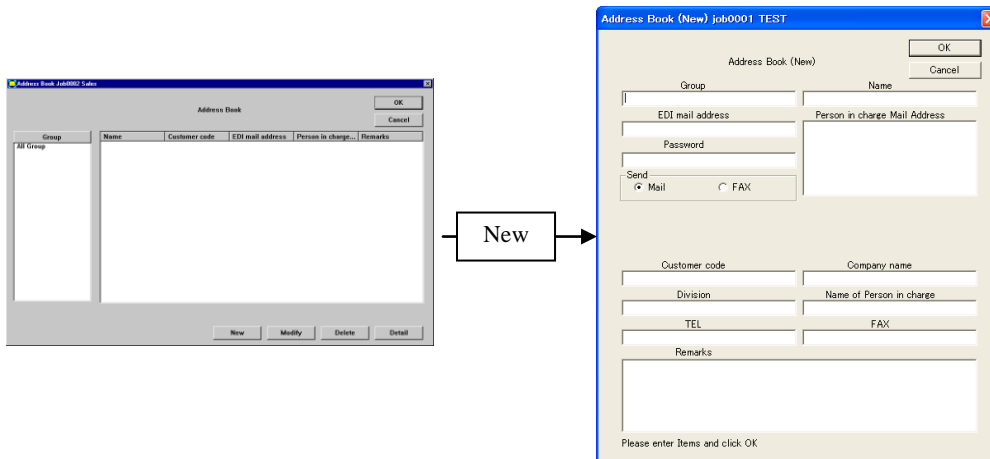


1.2 Maintenance of Mail Address Book

Click Address Book button.

Register all of mail addresses of remote parties for data exchange.

Field	Description	Examples	Required Input
Group	Any characters	Trading partner, business office, etc.	Y
Name	Any characters	Name of trading partner, etc.	Y
EDI mail address		xyz@abc.co.jp	N
Person in charge Mail Address	Can register plural address by “CR”	abc@xyz.co.jp	N
Customer code, Company name, Division, Name of Person in charge, TEL, FAX, Remarks	Any characters		N



Note 1: Either of EDI mail address field or Customer code field is a required input.

Note 2: The address book can be delivered.

(Delivering the entire address book)

Select Utility and Export Address Book in the menu.

Select Utility and Import Address Book.

(Delivering individual address)

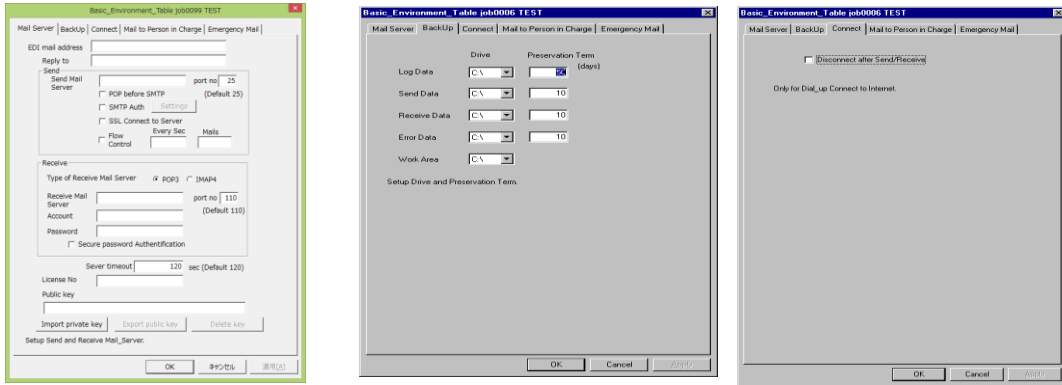
Press Address Book button, select the desired address in the list, and select Export in the menu.

Press Address Book button, and select Import in the menu.

Note 3: For setting of public key and private key, refer to [1.8 Management of Encryption Keys](#).

1.3 Basic Environment

Select Environment and Basic Environment in the menu.



<Setting of Mail Server>

Set the mail servers for sending and receiving.

Field	Description	Examples
EDI mail address	This is the mail address used for EDI	order@abc.com abc<order@abc.com>
Reply to	Return Address (Usually no need)	
Sending mail Server	Specifies sending mail server.	sv01.abc.com
Port No	Port No of sending mail server.	Default 25
Pop before SMTP	Check if your mail server has Pop before SMTP auth system.	
SMTP Auth	If your sending mail server has SMTP Auth mechanism Check here.	
SSL Connection	SSL Connection to Server	
Flow Control	Set limit of send mails	
Type of Receive Mail Server	POP3 or IMAP4	Default POP3
Receiving mail Server	Specifies receiving mail server.	sv01.abc.com
Port No	Port No of receiving mail server.	Default POP3:110 IMAP4:143
Account	Account name	
Password	This is the password set in the mail server. Be careful that this is case-sensitive.	
Secure password Authentication	If your receiving mail server has Auth mechanism Check here.	
Server timeout	Server timeout value.	Default 120
License number, Public key	Click Import Key button. Select the following data on the license media: \\Internet EDI_PRO\yyyyyyyyy.key (yyyyyyyyy is the license number.)	

<Setting of the drive for back-up files and preservation term>

Set the drive for back-up files and preservation term.

File	Default		Description
	Drive	Prev. Term	
Log file	C:\	50 days	Stores sending and receiving log.
Sending back-up file	C:\	10 days	Back-up of sending data
Receiving back-up file	C:\	10 days	Back-up of receiving data
Error file	C:\	10 days	Storage area for files that were determined as NG in receiving check.
Work area	C:\		Temporary work file used in compression or encryption, etc.

Leave enough capacity in the disk drive for back-up files. Passing the preservation term automatically erases the file.

<Connect>

Check here if you want to disconnect dial-up connection of Internet after sending and receiving was terminated.

Do not check here if the connection is not dial-up connection (e.g. via LAN, etc.).

<Mail to Person in Charge>

Set up only when you want to sent to "Person in charge" by using another Mail Server.

Usually you need not set this page.

<Emergency Mail>

If you want to send emergency mail in case of failure, please setup sending environment.

Emergency mail will not be sent in manual operation.

If you want to set plural addresses, enter "CR"(Carrage Return) .

1.4 Setting of Receiving Environment

<Setting of Receiving Mail Address>

Select Environment, Receive Environment, and Set Receive_Data_Control_Table in the menu.

Create folders to store received data beforehand.

Assign received data based on some conditions to store in those folders.

The image shows three screenshots of the software interface with callouts explaining various options and wild card characters.

Receive_Data_Control_Table (Job0003 Demo)

- Mail Address: Test@abc.co.jp
- Distribution Rule:
 - Store data only to first matching folder
 - Store data to all matching folder
- Buttons: New, Update

Receive_Data_Control_Table (Modify) job0004 TEST

- Buttons: OK, Cancel, New, Modify, Delete, Detail
- Receive File Folder: C:\Test_Receive
- Store Mode: If same file exists, Rename (2)
- Remarks: [Empty]

Distribution Rule Detail

- Mail Address: [Empty] Name: [Empty]
- Customer Code AND: Customer Code: [Empty] Name: [Empty]
- File Name AND: File Name: [Empty] Comments: [Empty]
- Subject AND: Subject: [Empty] Comments: [Empty] Partial Match: [Empty]

Callouts:

- Set distribution rules.
- Set receiving folder.
- UserAP only when data is delivered to this folder.
- Set distribution rules. If no setting is made, all the received data are selected.
- Set in Address Book dialog. No case-sensitive is made.
- Set in the Address Book dialog. No case-sensitive is made.
- Wild card characters are allowed in a file name. A question mark "?" indicates any one character. An asterisk "*" indicates a character string. (Example) "TEST?.C" includes "TEST1.C" and "TEST2.C", but does not include "TEST11.C". "TEST*.C" includes all of "TEST1.C", "TEST2.C" and "TEST11.C". "?" and "*" characters can be used together. A file name is not case-sensitive.
- Specify subject. This is not case-sensitive. you can set Partial match

- The conditions for mail address, customer code, file name, and subject are connected by "AND".
- Each condition in mail address, customer code, file name, and subject is connected by "OR".
- Pressing Delete Key deletes the condition.

Field	Description
Distribution Rule	<p>Specifies data handling when received data satisfies conditions of several folders.</p> <ol style="list-style-type: none"> 1. Stores received data in the first folder that satisfies the conditions. 2. Stores received data in all the folders that satisfy the conditions.
Distribution conditions	<p><Mail Address> Press Add button and select mail addresses in Address Book dialog. A mail address is not case-sensitive.</p> <p><Customer Code> Press Add button and select customer codes in Address Book dialog. A customer code is not case-sensitive.</p> <p><File Name> Press Add button to set a file name. A file name accepts wild card characters. A question mark "?" indicates any one character. An asterisk "*" indicates a character string.</p> <p>(Example) "TEST?.C" includes "TEST1.C" and "TEST2.C", but does not include "TEST11.C". "TEST*.C" includes all of "TEST1.C", "TEST2.C" and "TEST11.C". "?" and "*" characters can be used together. A file name is not case-sensitive.</p> <p><Subject> Press Add button to set a subject. A subject is not case-sensitive.</p> <p><In case where multiple conditions are set.> The conditions for mail address, customer code, file name, and subject are connected by "AND". Each condition in mail address, customer code, file name, and subject is connected by "OR".</p> <p><Deleting of conditions> To delete a condition, select it and press Delete Key.</p> <p><Specifying of no conditions> If no conditions are specified (condition field is blank), it is regarded that the assignment is unconditional.</p>

Internet EDI Pro “e-Express”

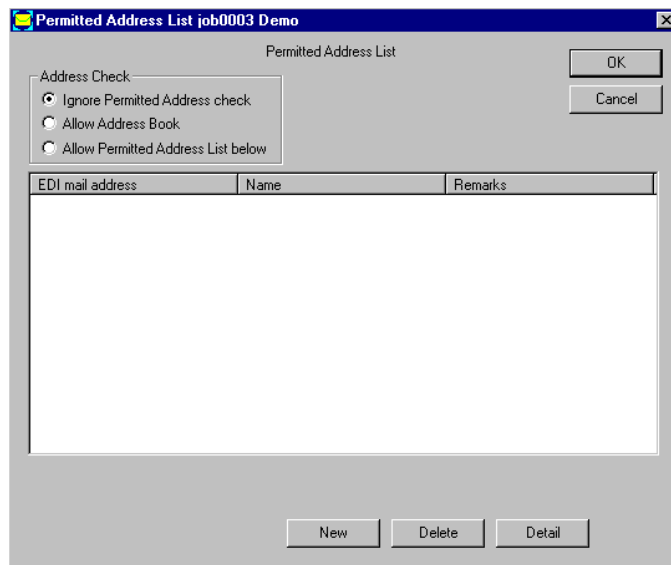
Receiving folder	Specify the name of the folder that stores received data. If distribution rules are set, only data that satisfies the conditions is stored in this folder.	Specify it in the file selection dialog window. (Browse button)	C:\Order	Y
Store Mode	<p>Set the mode in storing data.</p> <p>Rename: If the file already exists in the receiving folder, it is renamed for the filename plus (2),(3),(4)....</p> <p>Append: If the file already exists in the receiving folder, it is appended to the existing file. <u>Data is effective if it is in a text format.</u> Beware that, if data in a format other than text was received, it is not processed correctly.</p> <p>Replace: If the file already exists in the receiving folder, it is overwritten on the existing data.</p> <p>Wrap attached file in folder: A sub-folder is created in the receiving folder. Header, subject, and body of the mail, the invoice of “e-Express”, and the attached file are stored in one folder. Sub-folders are created as many as the number of attached files. It is not created if the mail has no attached file.</p> <p>Wrap received mail in folder: A sub-folder is created in the receiving folder. Header, subject, and body of the mail, the invoice of “e-Express”, and the attached file are stored in one folder. A sub-folder is created for one mail. Sub-folders are created even if the mail has no attached file. If a mail has multiple attached files, they are stored in the same sub-folder. However, if the same file name exists, it is stored in Rename mode.</p> <p>Note 1: An invoice of “e-Express” is created when an “e-Express” mail is sent, and is an information file that delivers the sending information to the receiving party. This invoice is not generated when an ordinary mailer is used.</p> <p>Note 2: Folder name, file name and receiving folder to be generated are as follows: Receiving folder: ¥yyymmdd_hhmmss_nnn¥ <u>Year, Month, Day</u> <u>Hour, Minute, Second</u> <u>Serial Number</u></p> <p>Invoice of “e-Express”: nse_internet_edi_pro_contents.xml Mail Header: nse_internet_edi_pro_header.txt Subject: nse_internet_edi_pro_subject.txt Body: nse_internet_edi_pro_body.txt</p>	This is set in the combo box.		Y
Confirm Mail	This field is set when you want to send confirmation mail of receiving to person in charge of the sender (the mail address of the person in charge in the address book). If you want to customize the reply message, use Edit Message button. N: Not to send. Y: Send	N or Y This is set in the combo box.		
Remarks	You can use this space as you like.	Any characters		
UserAP	If you have user AP program to be processed only when data is delivered to this folder. Register here.			

<Setting of Receiving-Allowed Mail Address List>

Select Environment, Receive Environment, and Permitted Mail Address List in the menu.

In the Permitted Address List window, you can register the mail addresses for which receiving is allowed in order to reject mistaken mails and mischievous mails. Press New button in the address book. Received data from a mail address that is not registered in this list is regarded as a mistake.

This function is not necessary when public keys are exchanged and data is exchanged using encrypted mails because authentication is executed mutually. In this case, check Ignore Permitted Address List box. (Default)



<Automatic Starting-up of Business Application>

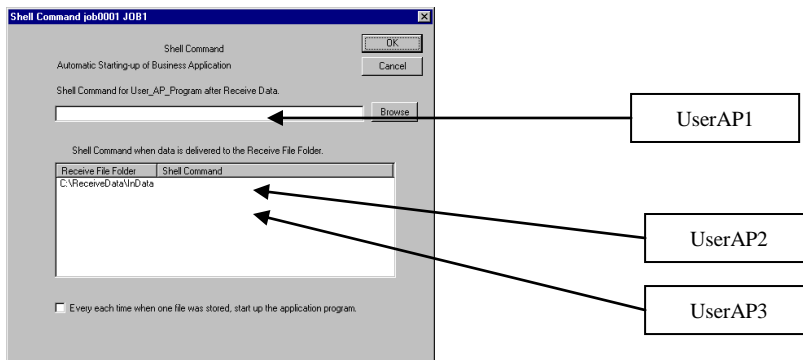
Select Environment, Receive Environment, and Shell Command in the menu.

To automatically start up a business application program after data was received, register the processing command in this window.

The receiving task of “e-Express” will resume after the user application has been terminated.

(Example)

C:\User_AP\Program1.exe



To deliver parameters to the program being started up, type them in by using “|” symbol as the delimiter.

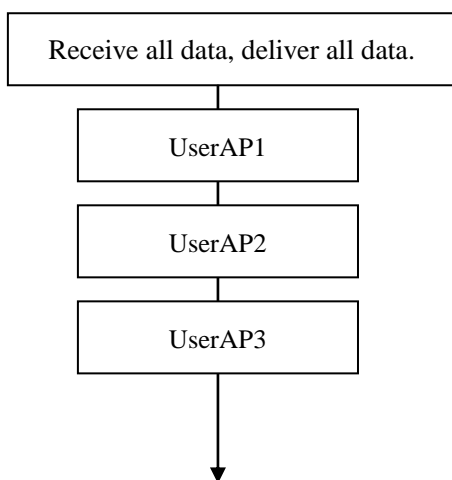
Description after the “|” symbol is regarded as the parameters.

Spaces are allowed before and after the “|” symbol.

(Example)

C:\User_AP\Program1.exe | AAAAA BBBB

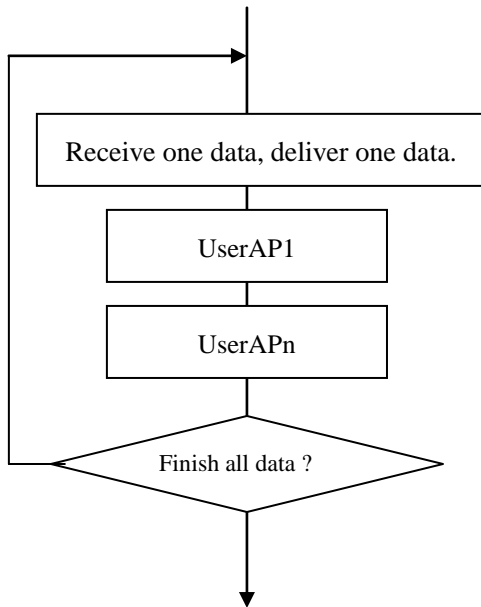
Timing of process (Checkbox of “every each time when one file is” is off)



<Details>

1. Receive all data, deliver all data.
2. Process userAP.
 - . UserAP sequence.
 - See illustration.
 - (1) UserAP1
 - (2) UserAP2
 - (3) UserAP3
3. Each userAP task resume previous user application has been terminated.
4. e-Express/MailConnect does process only 1 time about same UserAP(Command & Parameters).

Timing of process (Checkbox of “every each time when one file is” is on)



<Details>

1. Receive one data, and deliver the data, and. process userAp
2. UserAP sequence.
See illustration.
 - (1) UserAP1
 - (2) UserAPn (Applicable userAP)
3. Each userAP task resume previous user application has been terminated.
4. e-Express/MailConnect repeat these steps until all data are finished

<Comments>

e-Express/MailConnect retrieve data according to e mail Date-Time time-stump.

In business application fields, sequence process of sending date-time is essential. e.g. cancel slip.

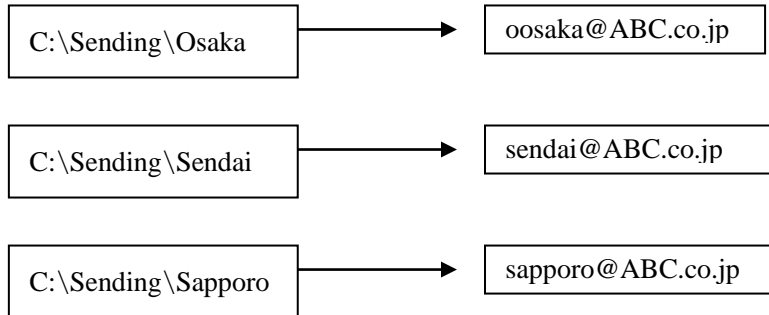
In this case please set “every each time when one file is” checkbox on, then UserAP programs are processed according to sending Date-Time.

1.5 Setting of Sending Environment

<Three Ways of Sending Method>

There are three ways of sending.

(1) Defining destination for each sending folder:



All the files in the sending folder are sent to the destination.

This method requires the same number of folders as the number of destinations.

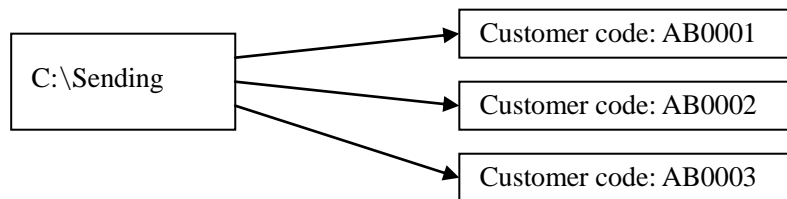
(2) Sending to all the destinations from one sending folder:

The destination is specified by the file name.

The letters from the top of the file name to the first underscore (_) are regarded as the customer code.

(Example) An order sheet for customer code AB0001
 AB0001_chuumon_00120465.dat

The EDI mail address of the destination is retrieved from the customer codes registered in the address book and is used for sending.



(3) Free sending to the destination by manual operation (Free sending):

Select the sending file and the destination manually.

The sending file is specified in the file selection dialog window. The destination for sending is specified in the Address Book dialog window.

Setting of the sending folder is not required.

Note 1: It is possible to combine any of the above three ways.

<Setting of Sending Mail Address>

(1) In case of defining the destination for each sending folder:

Select Environment, Send Environment, and Send_Data_Control_Table in the menu.

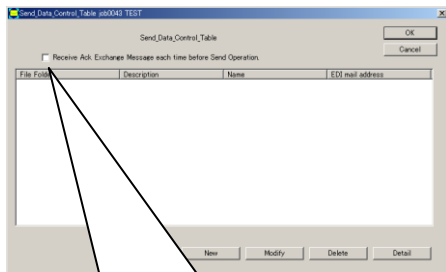
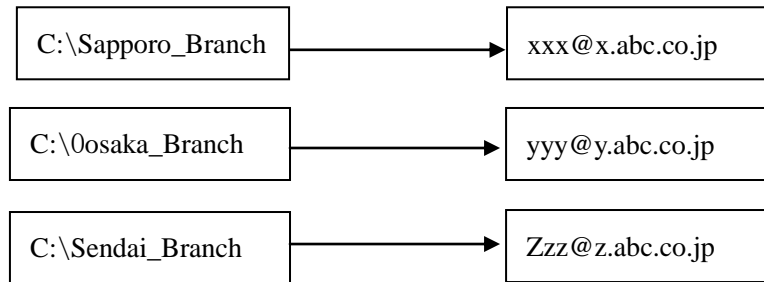
Create a folder for each sending destination.

(This defines the folder and its destination.)

Data in this folder is sent to the registered destination.

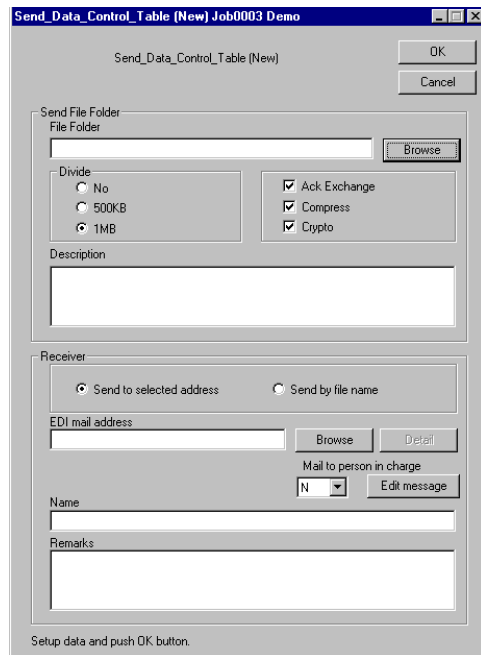
(Example) Sending Folder

Receiver EDI Mail Address



New

Check here when you want to receive “Ack Exchange Message”, each time before send operation.



Internet EDI Pro “e-Express”

Field	Description	Accepted Characters	Examples	Required Input
File Folder	Sets the folder for sending data. The folder must be created in advance. The data stored in this folder is sent. Pressing Browse button displays the file selection dialog window.		C:\Send\Sapporo Office	Y
Divide	A file of large volume can be sent by automatically dividing it. Divided files will be reunified at receiver side before being delivered to the receiver. The default size is 1 MB.	Set in the radio buttons.		N
Ack Exchange	When the receiving computer received sending data, it returns an ACK message to the sending computer, allowing confirmation between these computers. The sending log file of the sender is automatically updated, allowing the sender to check success of sending. To utilize this function, the remote system is also required to have installed “e-Express”.	Set in the check box.		N
Compress	Data is automatically compressed. The remote system de-compresses it and delivers it to the user. Only the Professional version has this function. If the remote system uses the “e-Express” of the version that is other than Professional version, data is not compressed. If the file has been already compressed (e.g. in jpeg format), it is not compressed.	Set in the check box.		N
Crypto	Data is sent after it has been encrypted. The remote system decrypts and authenticates it before delivery to the user. Only the Professional version has this function. If the remote system uses the “e-Express” of the version that is other than Professional version, data is not encrypted.	Set in the check box.		N
Send to selected address	<u>Check here</u> to define the destination for each sending folder.	Set in the radio buttons.		Y
Send by file name	<u>Do not check here</u> to define the destination for each sending folder.	Set in the radio buttons.		N
EDI mail address	This is the EDI mail address of the receiver. Press Browse button to select the receiver.	Accepted characters for a mail address		Y
Mail to person in charge	Set “Y” when you want to send mail of receiving person in charge (the mail address of the person in charge in the address book).			
Edit message	If you want to customize the message of mail to person in charge, use Edit Message button.			



For the above fields, see the screen copy in the previous page.

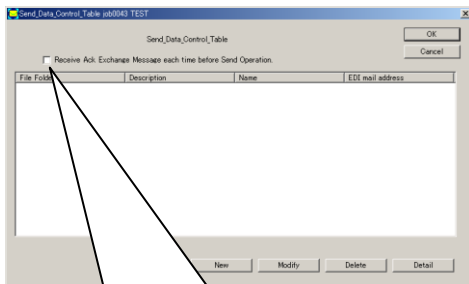
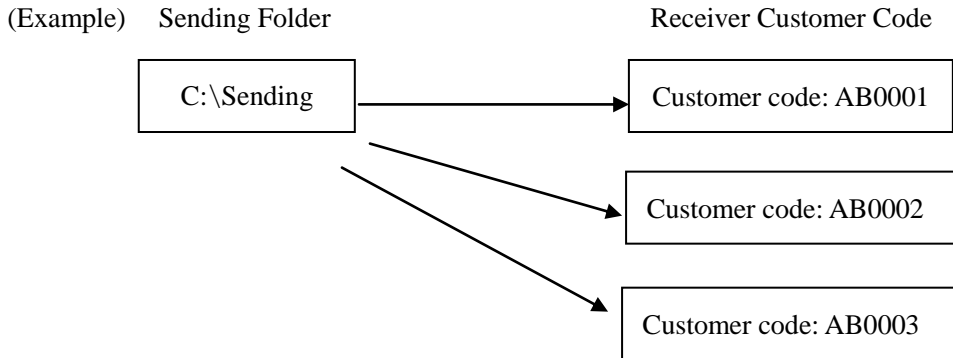
(2) In case of sending data to all the destinations from one sending folder:

Select Environment, Send Environment, and Send_Data_Control_Table in the menu.

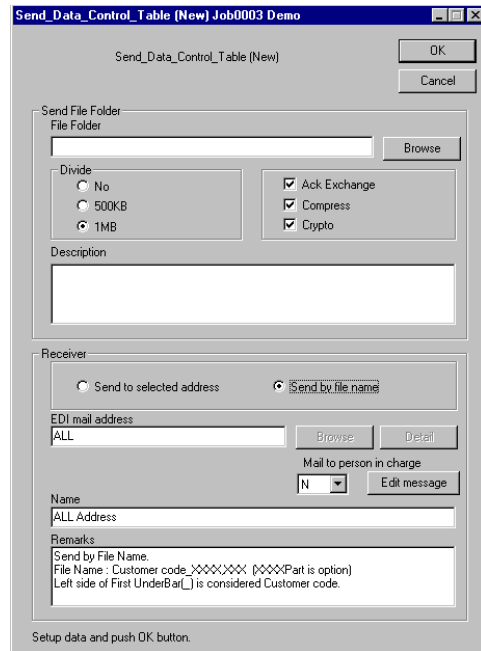
Create a sending folder.

Data in this folder is sent to the destination according to file name.

For details see operation manual.



Check here when you want to receive “Ack Exchange Message”, each time before send operation.



Internet EDI Pro “e-Express”

Field	Description	Accepted Characters	Examples	Required Input
File Folder	Sets the folder for sending data. The folder must be created in advance. The data stored in this folder is sent. Pressing Browse button displays the file selection dialog window.		C:\Send	Y
Divide	A file of large volume can be sent by automatically dividing it. Divided files will be reunified at receiver side before being delivered to the receiver. The default size is 1 MB.	Set in the radio buttons.		N
Ack Exchange	When the receiving computer received sending data, it returns an ACK message to the sending computer, allowing confirmation between these computers. The sending log file of the sender is automatically updated, allowing the sender to check success of sending. To utilize this function, the remote system is also required to have installed “e-Express”.	Set in the check box.		N
Compress	Data is automatically compressed. The remote system de-compresses it and delivers it to the user. Only the Professional version has this function. If the remote system uses the “e-Express” of the version that is other than Professional version, data is not compressed. If the file has been already compressed (e.g. in jpeg format), it is compressed.	Set in the check box.		N
Crypto	Data is sent after it has been encrypted. The remote system decrypts and authenticates it before delivery to the user. Only the Professional version has this function. If the remote system uses the “e-Express” of the version that is other than Professional version, data is not encrypted.	Set in the check box.		N
Send to selected address	Do not check here to send data to all the destinations from one sending folder.	Set in the radio buttons.		N
Send by file name	<u>Check here</u> to send data to all the destinations from one sending folder.	Set in the radio buttons.		Y
EDI mail address	Always “ALL”			Y
Mail to person in charge	Set “Y” when you want to send mail of receiving person in charge (the mail address of the person in charge in the address book).			N
Edit message	If you want to customize the message of mail to person in charge, use Edit Message button.			N

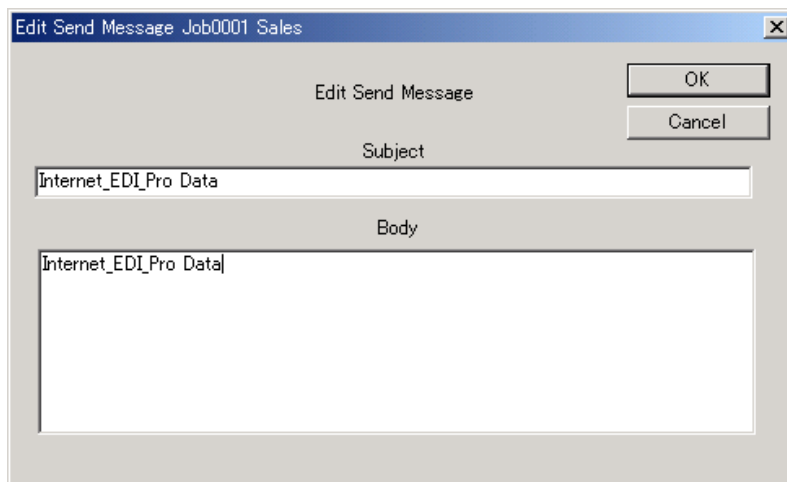
(3) In case of free sending to the destination by manual operation (free sending):

It is not required to set the Send_Data_Control_Table.

<Editing of Sending Message>

Select Environment, Send Environment, and Edit Send Message in the menu.

Users can freely edit a sending message (subject and body of the message).



1.6 Setting of Administrator Authority

Select Environment and Administrator Authority in the menu.

The administrator authority can be set in the following fields:

Environment setting

Sending process

Receiving data process

Updating of address book

Check the fields that require the administrator authority and type in the user ID and password.

To delete the administrator authority, make the user ID blank.

Without the password, it is unable to continue the operation of “e-Express.”

Please be careful of handling the password.

The screenshot shows a dialog box titled "Administrator Authority Job0001 Sales". The dialog is titled "Administrator Authority" and contains the following elements:

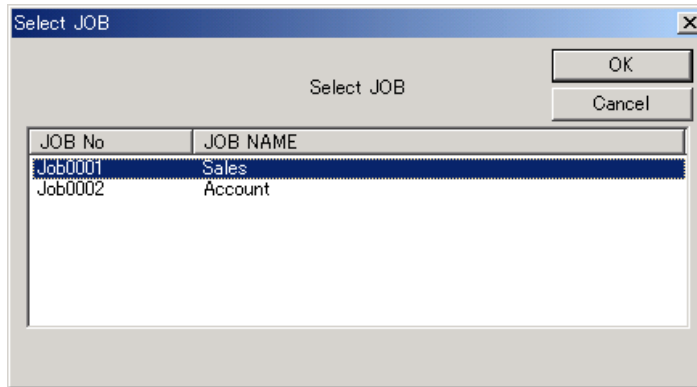
- Three text input fields: "User ID", "Password", and "Confirm Password".
- A section titled "Authority Process" containing four checkboxes:
 - Setup Control_Table
 - Send Data
 - Receive Data
 - Modify Address_Book
- "OK" and "Cancel" buttons in the top right corner.

1.7 Running of Multiple Jobs

With "e-Express", it is possible to set the environment for multiple jobs in one PC.

This allows simultaneous running of multiple jobs.

Select File, JOB, and Add-Modify-Delete in the menu.



In the above screen, you can execute Add, Modify, and Delete jobs.

Each environment is independent.

The address book can be imported and exported to each other.

The operation is completely independent.

1.8 Management of Encryption Keys (only e-Express)

<Necessity>

For data exchange using Internet, the important point is to consider how we make sure the security.

In electronic trading, the following conditions must be satisfied:

- Protecting data from wiretapping. (Encryption)
- Preventing falsification. (Digital signature)
- Preventing impersonation. (Principal authentication)
- Not allowing denial. (Principal authentication)

<Systems of Encryption>

In general, there are common key cryptosystem and public key cryptosystem as encryption systems.

Their advantages and disadvantages are as follows:

System	Common Key Cryptosystem	Public Key Cryptosystem
System of encryption and decryption	<ul style="list-style-type: none"> • Sender and receiver use the same key. • Sender encrypts data by predetermined common key. • Receiver decrypts it by that common key. 	<ul style="list-style-type: none"> • Each party has a pair of private key and public key, and informs the other party of the public key only. • Sender encrypts data by using the public key of the other party. • Receiver decrypts data by using his/her private key.
Advantages	<ul style="list-style-type: none"> • Encryption and decryption do not require longer processing time in CPU. 	<ul style="list-style-type: none"> • Management of keys is simple.
Disadvantages	<ul style="list-style-type: none"> • Increased number of partners makes management of keys complicated. 	<ul style="list-style-type: none"> • Processing in CPU for encryption and decryption takes long time.

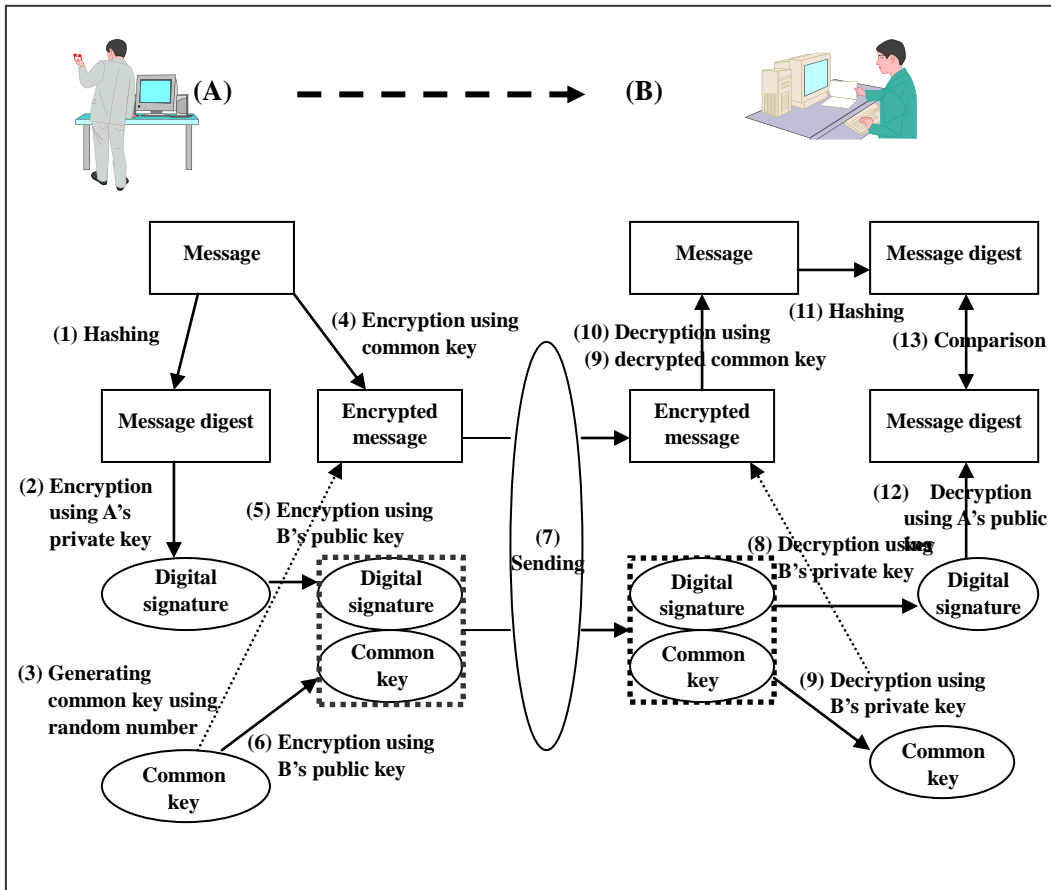
<System Employed by “e-Express”>

Common key cryptosystem and public key cryptosystem have their own advantages and disadvantages.

Currently, most of the tools employ the Hybrid system which utilize the advantages of both systems and supplement the disadvantages. “E-Express” employs the S/MIME system that is currently the standard for encryption of mails.

Public key, private key: RSA 1024 bit
 Digest: SHA-1
 Common key: DES 56 bit

<Structure of Digital Authentication using both Common Key Cryptosystem and Public Key Cryptosystem>

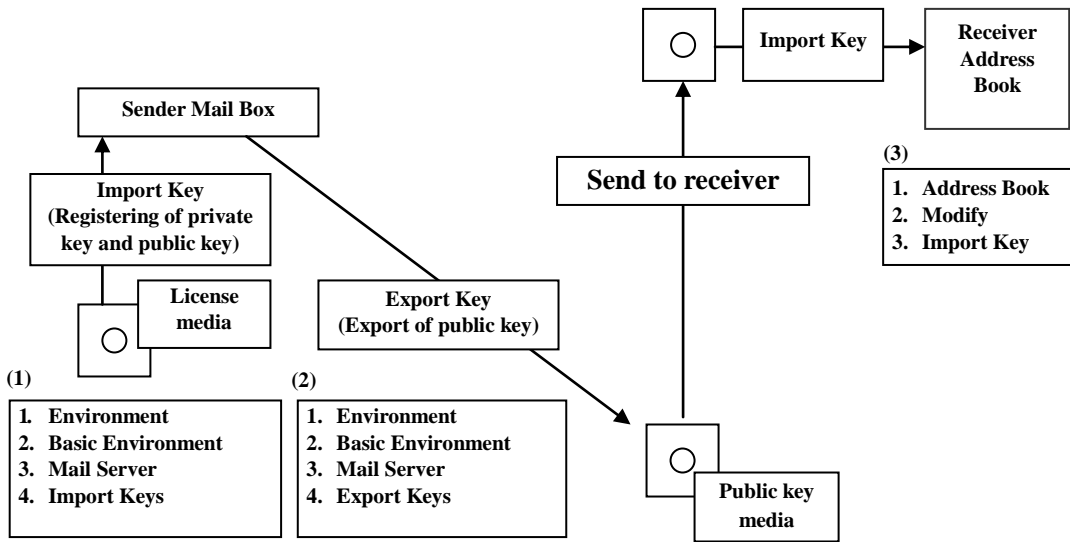


Note:

Hashing: This is irreversible conversion in which data of any length is converted to fixed length.

<Installation System of Keys>

(1) Outline Diagram



(2) Installation Procedures (Exchange Public Key)

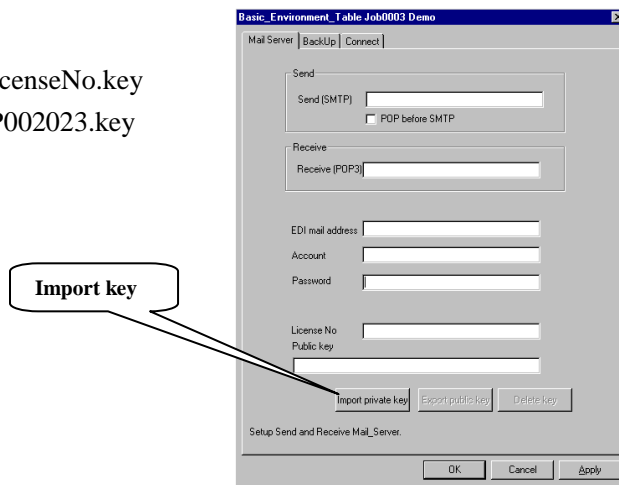
Steps 1: Registration of License (private key and public key)

Select Environment, Basic Environment, Mail Server

Press Import Key button.

This imports the keys from the license media.

<FileName> LicenseNo.key
(Example) 1P002023.key



Caution:

Carefully keep the license media since it contains the private key.

Step 2: Exporting of Public Key

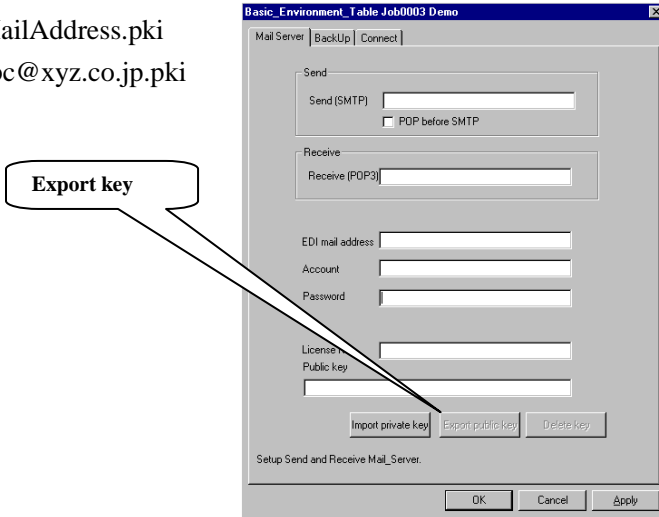
Select Environment, Basic Environment, Mail Server

Press Export Key button.

This exports the public key. Deliver this media disk to the receiver.

The receiver imports the public key in the address book.

<FileName> MailAddress.pki
(Example) abc@xyz.co.jp.pki

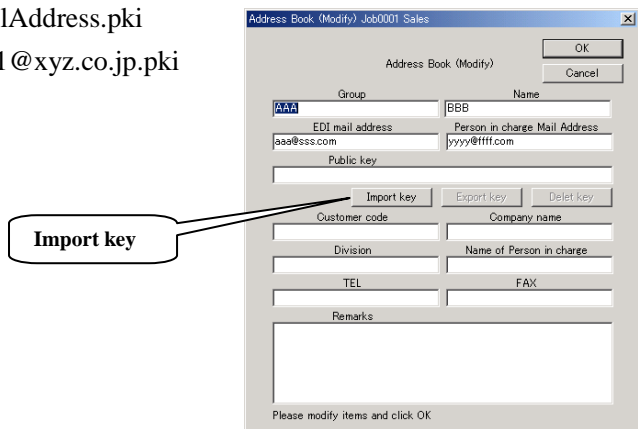


Step 3: Importing of Sender Public Key

Select Address Book and Modify in the menu. Press Import Key button.

This imports the public key of the sender from the media.

<FileName> MailAddress.pki
(Example) abc1@xyz.co.jp.pki



(3) Installation Procedures (Delivering the Address Book)

This requires the license media from all the receivers.

(This method is effective when you manage the keys intensively.)

Step 1: **Registration of Public Key in Address Book of All Receivers**

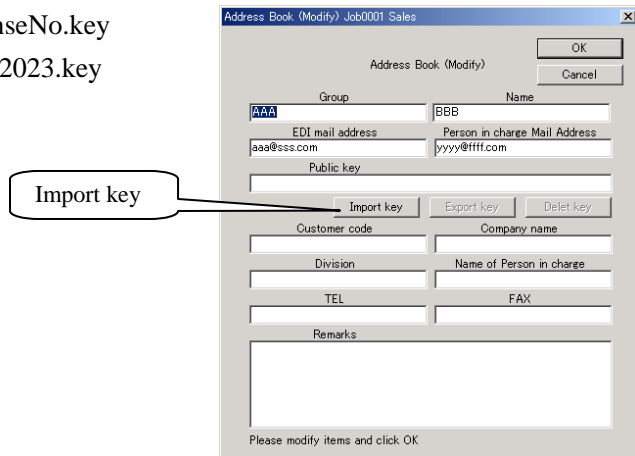
Select Address Book, Modify, and Import Key in the menu.

This imports the keys from the license media.

Register the keys in all the address books.

<FileName> LicenseNo.key

(Example) 1P002023.key



Step 2: **Exporting of Address Book**

Select Utility and Export address book in the menu.

Step 3: **Delivery to All the Receivers**

Deliver the address book and the license media to all the receivers.

(Caution) This is the method to manage intensively the keys of all the receivers.

There is a case where this method is inappropriate due to the security reason.

1.9 Exporting / Importing of Environment

It is possible to export and import the environment you have set.

<Exporting of Environment>

Select Utility and Export Environment in the menu.

This exports the entire environment you have set.

The data to be exported are as follows:

- Basic setting
- Receiving environment setting
- Sending environment setting
- Administrator’s authority setting
- Address book

<Importing of Environment>

Select Utility and Import Environment in the menu.

This imports the environment from the exported file.

All the files that are currently existing will be erased and overwritten.

The data to be imported are as follows:

- Basic setting
- Receiving environment setting
- Sending environment setting
- Administrator’s authority setting
- Address book

Note: If the environment is imported, the Send_ID will be reset and numbered newly at the time when a mail is sent next time.