

EDI Specification for Service Provider

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Nippon Automated Cargo and Port Consolidated System, Inc.

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1. Overview

1.1 Purpose

The “EDI Specification for Service Provider” describes technical requirements for Service Providers (hereinafter “SP”). System connection between NACCS and SP is intended to smoothly enforce Japan Advance Filing Rules and to realize optimized and streamlined international logistics operations by online connections established between NACCS and SP’s systems.

1.2 Basic concept of “EDI Specification for Service Provider”

In principle, connections between NACCS and the SP’s system shall be established via gateway server (SMTP two-way processing (Interactive processing) or E-mail style processing (using SMTP/POP3)) as described in the “NACC EDI Specification”. SP are able to choose either SMTP two-way processing mode or E-mail style processing mode. Any matters not specified in this Specification are subject to the provisions stated in the “NACCS EDI Specification”.

1.3 Illustration of NACCS-SP’s system connection

Figure 1.1 illustrates online connections between NACCS and a SP’s system.

Due to the condition in connecting to NACCS Network, maintenance of router, and security requirements, gateway computer and NACCS connection router must be located in Japan.

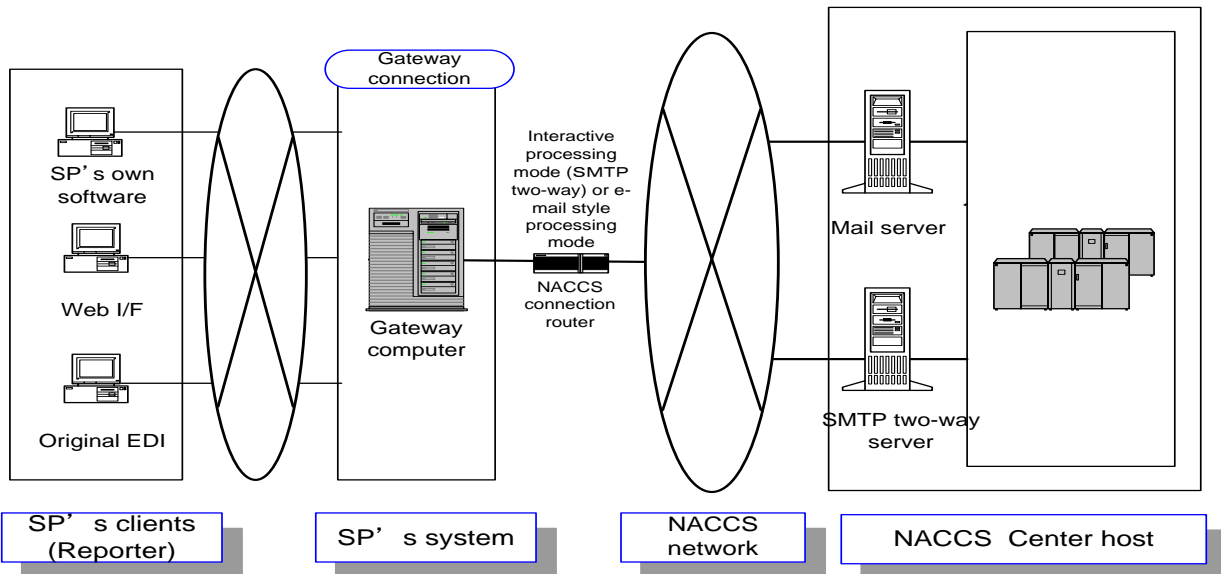


Figure 1.1 Illustration of NACCS-SP's System Connection

1.4 Boundaries of Liability

NACCS Center shall assume liability for failures between the NACCS Center server and the NACCS connection router on the SP's system side.

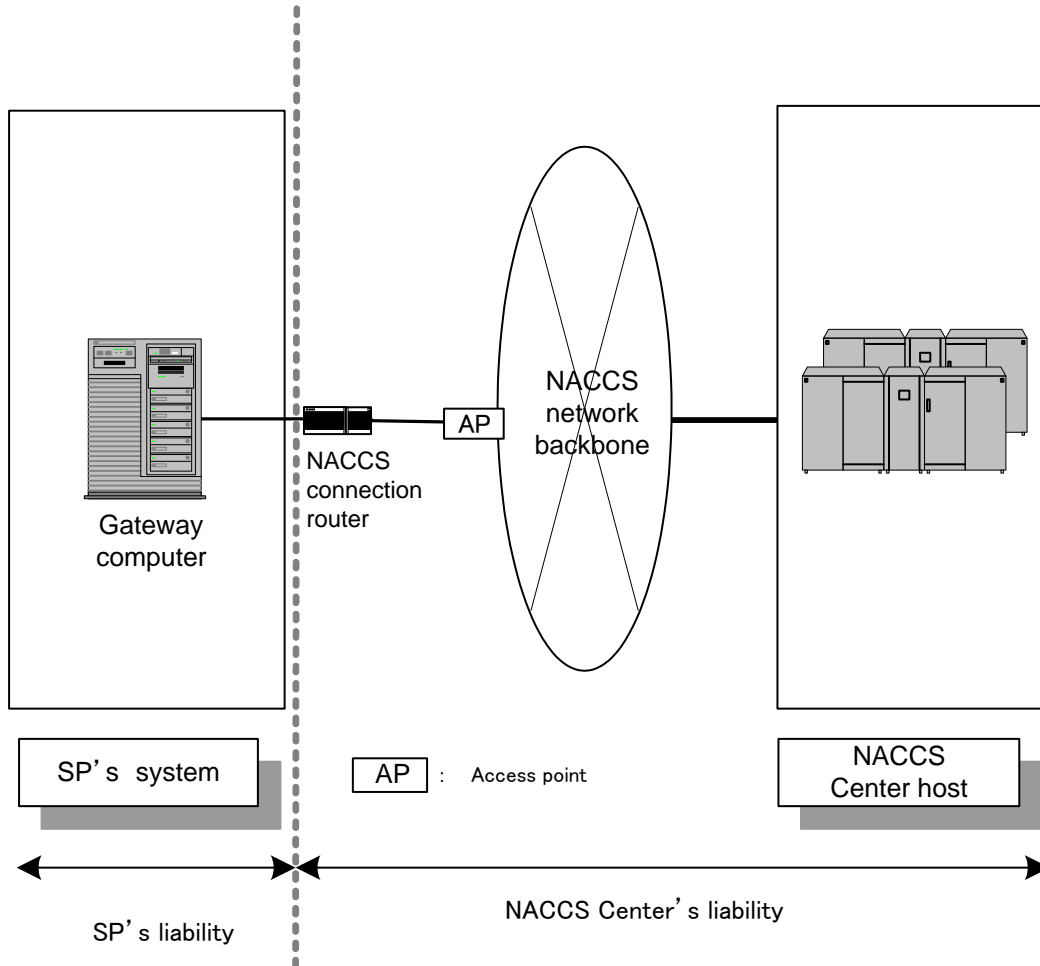


Figure 1.2 Boundaries of Liability

2. Processing Modes

2.1 Outline of interactive processing mode (SMTP two-way)

An outline of interactive processing mode (SMTP two-way) is given below. For details, see “4.2 Interactive Processing Mode (SMTP two-way)” in “NACCS EDI Specification”.

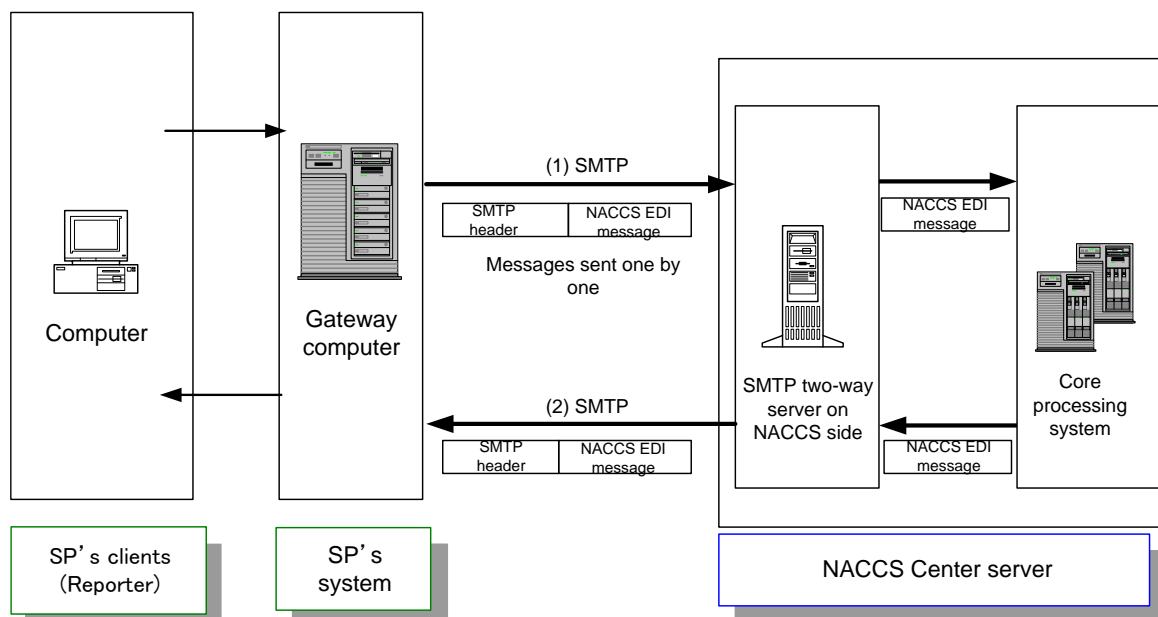


Figure 2.1 Example of Processing Using Interactive Processing Mode (SMTP two-way)

(1) In response to a procedure implemented by the reporter through the SP's system, the SP's system creates a NACCS EDI message and transmits a processing request message from the gateway computer on the SP side to the SMTP two-way server on NACCS Center side.

(2) A processing request message sent to the SMTP two-way server on NACCS Center side is forwarded to the core processing system. The core processing system processes the request and transmits the result message back to the SMTP two-way server on NACCS Center side. The SMTP two-way server on the NACCS Center side then transmits Process Result Output in SMTP to the gateway computer on the SP side. Therefore, the gateway computer on the SP side must stay activated at all times.

(3) In case the SP's system failed in receiving messages due to network or system errors in the SP's system, the messages not yet transmitted will be stored in the temporary storage area in the NACCS Center server. (For details, see “3.7 File

exchange block and retrieving procedure” in “NACCS EDI Specification”.) These messages will be stored by each SP code, so messages should be retrieved in the unit of SP code.

2.2 Outline of e-mail style processing mode

An outline of E-mail style processing mode is given below. For details, see “4.3 E-mail Style Processing Mode” in “NACCS EDI Specification”.

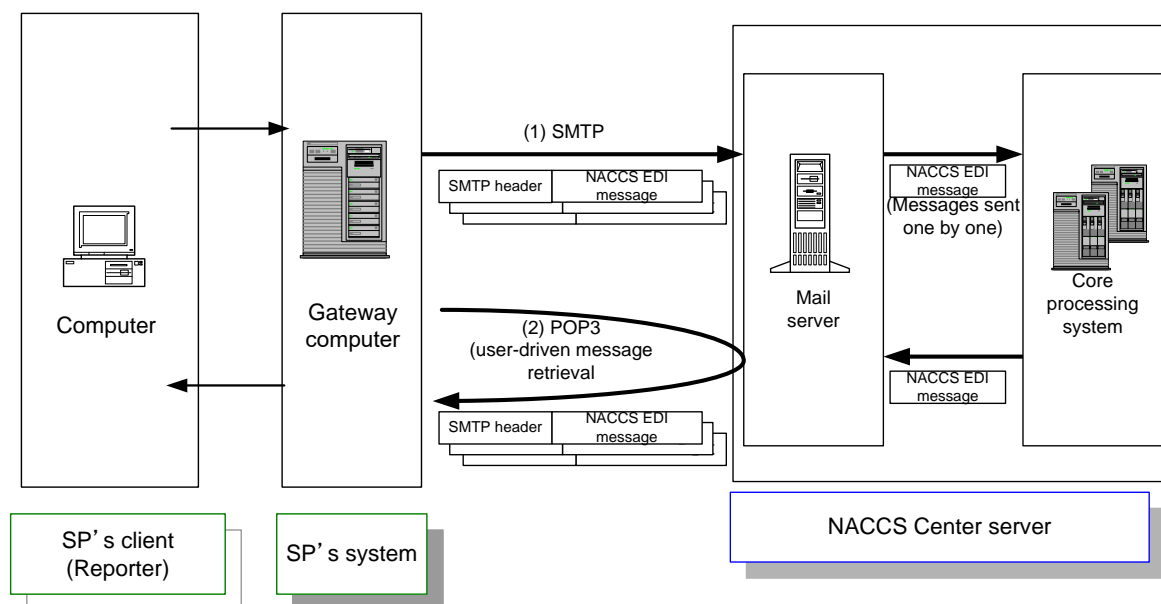


Figure 2.2 Example of Processing in E-mail Style Processing Mode

(1) In response to a procedure implemented by the reporter, the SP's system creates and transmits a NACCS EDI message to the mail server on NACCS Center side in SMTP. Multiple messages can be transmitted at a time.

(2) Processing request messages transmitted to the mail server are forwarded to the core processing system one by one and processed based on the requests in the messages. Result messages are transmitted to the mailbox for incoming messages in the mail server.

(3) SP's system receives Process Result Outputs from the mailbox by the POP3 command for retrieval.

2.2.1 Mailbox

(1) Mailbox assignment

NACCS Center assigns a single mailbox to a single SP's system (*Note). All

messages for reporters will be stored in the mailbox.

(*Note) In case SP needs multiple mailboxes, NACCS Center can provide at most ten (10) mailboxes in response to SP's request.

(2) Mailbox ID and mailbox password

NACCS Center grants a single mailbox ID and password for a single mailbox assigned to a SP's system. The SP's system retrieves messages for their reporters in a batch. The SP's system must deliver the messages properly to each reporter according to the destination of message.

2.3 DNS server in NACCS network

2.3.1 Access Control with DNS (Usual situation)

NACCS Center provides IP address of DNS server and domain name of each NACCS server computer for domain name resolution. By accessing DNS servers, SP can translate NACCS servers' domain name to its IP address.

2.3.2 Switching from production environment to backup environment (Unusual situation)

NACCS Center will change the setting information of DNS to switch from production environment to backup environment of NACCS for users and SP. Thus, SP have no need to care about redirection of system environment in such case. SP who follow 2.3.1 above, can switch from production environment to backup environment without significant actions.

3. SP Code and Reporter ID

Each SP is assigned a code (“SP code”) consists of 8-digit ID and 6-to-8-digit changeable password. Similarly, reporters are assigned ID (“Reporter ID”) and password by NACCS Center. In principle, reporters are required to apply for their Reporter ID on their own. However, SP are allowed to apply for new Reporter IDs on behalf of their clients under the condition that NACCS center has received such clients’ written proof of agreement to the terms and conditions for the use of Reporter ID and the Reporter ID issuance system.

SP code is used to control messages in the NACCS system. SP must add its own SP code to the reporter’s message to set up the NACCS-EDI message in SP’s system. Reporter ID is for NACCS and Japan Customs to identify the reporter. Therefore, Reporter ID must be properly contained in the NACCS EDI message. If SP use their own user codes to manage customer information, they must convert their own IDs to NACCS-assigned Reporter IDs and make sure message sent to NACCS contains NACCS-assigned IDs and passwords properly to enable the NACCS host computer to identify the reporter. NACCS processes procedures and identify reporters who sent the message through SP’s systems based on the NACCS assigned Reporter ID contained in the message.

4. Message Arrangement by Service Provider

4.1 Request message in AFR Procedures (AMR, CMR, AHR, CHR, ATD, BLL, CMV)

SP is required to add relevant tail code to the Input Common Fields and add SP code to the Input Fields in the NACCS-EDI message from the reporter.

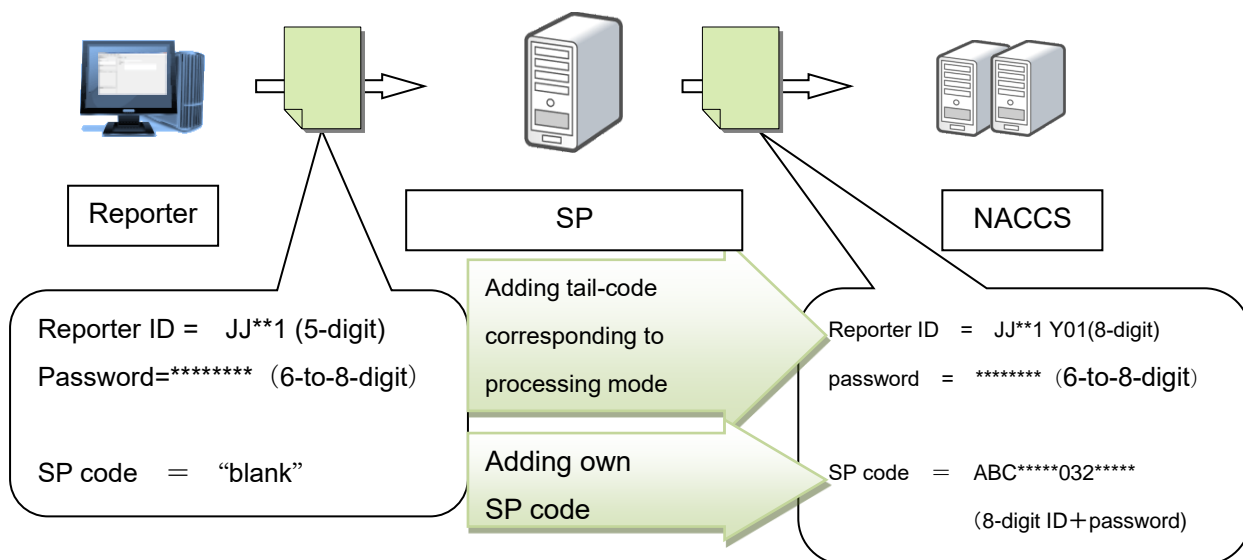


Figure 4.1 Message Arrangement by Service Provider

See the following table for the details of message arrangement rules on input common fields and SP code field.

Table. 4.1 Message Arrangement rules of processing request message (SP -> NACCS)

Msg. section	No.	Field	Length	Description	Sample Settings
SMTP header	1	From		Set a sender of message. SP's mail address provided by NACCS Center should be set.	① SMTP two-way processing mode AAXXXX@ZZZZ.ABC01.NACCS6 ② E-mail style processing mode AAAAA001@MAIL.PROD.NACCS6

Msg. section	No.	Field	Length	Description	Sample Settings
	2	To		<p>Set a receiver of message.</p> <p>①SMTP two-way processing mode</p> <p>Set a mail address of SMTP two-way server in NACCS.</p> <p>②E-mail style processing mode</p> <p>Set a mail address of E-mail style server in NACCS.</p>	<p>① SMTP two-way processing mode NACCS@SMTP.PROD.NACCS6</p> <p>② E-mail style processing mode NACCS@MAIL.PROD.NACCS6</p>
Input common fields	1	Processing Control Information	3	Set a processing control information. (Spaces must be entered.)	△△△ (Spaces must be entered.)
	2	Procedure Code	5	Set a procedure code for identifying the procedure.	AMR△△ (Advance Cargo Information Registration)
	3	(Reserved area)	21	Spaces must be entered. (*1)	△△...△ (Spaces must be entered.)
	4	User Code	5	Reporter ID (5 digits), Adding tail-code depending on SP's	JJ**1
	5	User ID	3	processing mode (3 digits, SMTP two-way ... Y01 /E-mail style ... 001), Reporter's password are set to identify the reporter.	Set the following tail code (3 digits) by service provider depending on the processing mode between NACCS and SP system; E-mail style processing mode ... 001 SMTP two-way processing mode ... Y01
	6	User Password	8	Set a SP code for the procedures without SP code field in the input fields (URY, TCC and Inquiry Procedure (See 4.3 in this document)).	*****
	7	(Reserved area)	174	Enter spaces instead. (*1)	△△△△△△ . . . △△ (Spaces must be entered.)
	8	Message Tag (*2)	26	Set information for matching a processing request message with a Process Result Output.	A unique value which can be used as identifier should be assigned by SP.

Msg. section	No.	Field	Length	Description	Sample Settings
	9	(Reserved area)	8	Enter spaces instead. (*1)	(Spaces must be entered.)
	10	Input Message ID (*2)	10	This value will be output in a processing result.	A unique value which can be used as identifier should be assigned by SP.
	11	Index Tag (*2)	100	This is used as a reference number when Process Result Output is exceeds the limit and the message is divided into sequential stages.	△△△△△△ · · · △△ (Spaces must be entered.)
	12	(Reserved area)	1	A space must be entered. (*1)	△ (A space must be entered.)
	13	System Identifier	1	Set "2" for Advance filing rules.	2
	14	(Reserved area)	27	A space must be entered. (*1)	△△△△△△△△△△ · · · △△ (Spaces must be entered.)
	15	Message Length	6	The value indicates the size of NACCS EDI message, including input common fields. NACCS Center computer acknowledges the end of the message with this value. The size of attachment files is not included.	000400~700000 (Max 700,000)

Msg. section	No.	Field	Length	Description	Sample Settings
Input fields	3	SP code	16	SP code is entered. SP code (8 digits) + SP's password (8 digits)	ABC*****032***** SP code can be used for the following 7 procedures. 1. AMR 2. CMR 3. AHR 4. CHR 5. ATD 6. BLL 7. CMV See each procedure specification for details of input fields including SP code.

(*1) The reserved areas are used to control system.

(*2) See "3.5 Message control elements" in "NACCS EDI Specification" for details on Message Tag, Input Message ID and Index Tag.

4.2 Output information in AFR Procedures (AMR, CMR, AHR, CHR, ATD, BLL, CMV)

SP have no need to arrange output information from NACCS when sending it back to filer.

For your reference, fields and sample settings are shown in the following table;

Table.4.2 Rules of output information (NACCS -> SP)

Msg. section	No.	Fields	Length	Description	Sample Setting
SMTP header	1	From		Sender of message will be set. ①SMTP two-way processing mode Set a mail address of SMTP two-way server in NACCS. ②E-mail style processing mode Set a mail address of e-mail style server in NACCS.	① SMTP two-way processing mode NACCS@SMTP.PROD.NACCS6 ② E-mail style processing mode NACCS@MAIL.PROD.NACCS6

Msg. section	No.	Fields	Length	Description	Sample Setting	
	2	To		Receiver of message will be set. SP's mail address provided by NACCS Center should be set.	① SMTP two-way processing mode AAXXXX@ZZZZ.ABC01.NACCS6 ② E-mail style processing mode AAAAA001@MAIL.PROD.NACCS6	
Output common fields	1	(Reserved area)	3	(*1)		
	2	Procedure Code	5	Indicates a procedure code (*2)	AMR△△ (Advance Cargo Information Registration)	
	3	Output Message Code	7	The code of an output message.	*SAMR△△ SAS111△	
	4	Date of Message Receipt	14	The date and time of receipt of a message in Japan Time (yyyymmddhhmm)	201812101430△△	
	5	User Code	5	Reporter ID in the request message is entered.	JJ**1	
	6	(Reserved area)	17	(*1)		
	7	User's Mail Address	64	Same value as specified in "TO" field in the SMTP header.	ABC001@XXX...	
	8	Subject	64	Procedure-by-procedure data (e.g., customs declaration number).	10123456710...	
	9	(Reserved area)	40	(*1)		
	10	Message Tag	26	Used to identify a series of output information responding to a processing request message. (See 3.5.2 in "NACCS EDI Specification")		
	11	Message Control Information	Division Sequence Number	3	Used to identify a series of output information responding to a processing request message.	000~001
	12		Termination	1	Used to identify a series of output information responding to a processing request message.	"E" will be set for final message of the series of output information. Otherwise, space will be set

Msg. section	Fields		Length	Description	Sample Setting
	No.				
	13	Message Type	1	Indicates a message type.	R (Processing Result Message) P (Output Information Message (e.g. Notifications from Japan Customs))
	14	(Reserved area)	3	(*1)	
	15	Input Message ID	10	Output all settings of processing request message. For EXC type messages, spaces are filled.	(Settings of a processing request message) Spaces will be set for Message Type "P" in No.13.
	16	Index Tag	100	Set when inquiry result do not fit in a single output information. (subsequent processing to follow)	△△△△△△…△△ (Spaces will be set.)
	17	Message Destination Control Code	1	The message destination control format. ("Q" or "C" will be set.)	Q (Message for submitter of Processing request message) C (Message transmitted with the other concerned parties' input. E.g., Notifications from Japan Customs.)
	18	(Reserved area)	28	(*1)	
	19	Message Length	6	Indicates the length of the NACCS EDI message.	000400~700000 (Max 700,000)

(*1) The reserved areas are used to ensure proper system operation.

(*2) There is no guarantee that a value in Procedure Code in the output common field is identical to a value of the same element in the input common field. A value in Procedure Code in the output common field may be different from a value specified in the corresponding processing request message. It is advisable to use Output Message Code, Message Tag, and Input Message ID fields to distinguish a message.

4.3 Request message in Inquiry Procedures (IML, IRI)

Unlike "4.1 Request message in AFR Procedures (AMR, CMR, AHR, CHR, ATD, BLL, CMV)", SP is required to add its own SP Code, instead of Reporter ID, to the Input Common Fields of Request message in Inquiry Procedures.

As there's no special field for setting Reporter's information, it is required to make use of Message Tag (No.8 of Input common fields) etc. when inquiring.

See the following table for the details of message arrangement rules on input common fields.

Table. 4.3 Message Arrangement rules of processing request message in Inquiry Procedures
(SP -> NACCS)

Msg. section	No.	Field	Length	Description	Sample Settings
SMTP header	1	From		Set a sender of message. SP's mail address provided by NACCS Center should be set.	①SMTP two-way processing mode AAXXXX@ZZZZ.ABC01.NACCS6 ② E-mail style processing mode AAAAA001@MAIL.PROD.NACCS6
	2	To		Set a receiver of message. ①SMTP two-way processing mode Set a mail address of SMTP two-way server in NACCS. ②E-mail style processing mode Set a mail address of E-mail style server in NACCS.	① SMTP two-way processing mode NACCS@SMTP.PROD.NACCS6 ② E-mail style processing mode NACCS@MAIL.PROD.NACCS6
Input common fields	1	Processing Control Code	3	Set a processing control code. (Spaces must be entered.)	△△△ (Spaces must be entered.)
	2	Procedure Code	5	Set a procedure code for identifying the procedure.	IML△△ (Inquiry about registered MB/L-HB/L List)
	3	(Reserved area)	21	Spaces must be entered. (*1)	△△...△ (Spaces must be entered.)
	4	User Code	5	SP Code (5 digits), Adding tail-code depending on SP's	PES**
	5	User ID	3	processing mode (3 digits, SMTP two-way ... Y01 /E-mail style ... 001), SP's password are set to identify the SP	Set the following tail code (3 digits) by service provider depending on the processing mode between NACCS and SP system; E-mail style processing mode ... 001 SMTP two-way processing mode ... Y01 Output information will be sent to the mailbox which matches the User Code and User ID set in this field

Msg. section	No.	Field	Length	Description	Sample Settings
	6	User Password	8		*****
	7	(Reserved area)	174	Enter spaces instead. (*1)	△△△△△△ · · · △△ (Spaces must be entered.)
	8	Message Tag (*2)	26	Set information for matching a processing request message with output information.	A unique value which can be used as identifier should be assigned by SP. Reporter ID of AFR filer who requested SP to inquire can be set in this field.
	9	(Reserved area)	8	Enter spaces instead. (*1)	(Spaces must be entered.)
	10	Input Message ID (*2)	10	This value will be output in output information.	A unique value which can be used as identifier should be assigned by SP. Reporter ID of AFR filer who requested SP to inquire can be set in this field.
	11	Index Tag (*2)	100	This is used as a reference number when output information exceeds the limit and the message is divided into sequential stages.	When inquiring Relevant B/L List Reference in IML, in some cases inquired information is divided into multiple messages. When Index Tag is outputted in output information (see 4.4 in this document), subsequent result messages should be requested using the Index Tag. In that case, same data in procedure-by-procedure field should be resent.
	12	(Reserved area)	1	A space must be entered. (*1)	△ (A space must be entered.)
	13	System Identifier	1	Set "2" for Advance filing rules.	2
	14	(Reserved area)	27	A space must be entered. (*1)	△△△△△△△△△△ · · · △△ (Spaces must be entered.)
	15	Message Length	6	The value indicates the size of NACCS EDI message, including input common fields. NACCS Center computer acknowledges the end of the message with this	000400~700000 (Max 700,000)

Msg. section	No.	Field	Length	Description	Sample Settings
				value. The size of attachment files is not included.	

(*1) The reserved areas are used to control system.

(*2) See "3.5 Message control elements" in NACCS EDI Specifications for details on Message Tag, Input Message ID and Index Tag.

4.4 Output information in Inquiry Procedures (IML, IRI)

SP have no need to arrange output information from NACCS, however, SP needs to distribute the message with some message control elements to send it back to filer.

For your reference, fields and sample settings are shown in the following table;

Table.4.4 Rules of output information (NACCS -> SP)

Msg. section	No.	Fields	Length	Description	Sample Setting
SMTP header	1	From		Sender of message will be set. ①SMTP two-way processing mode Set a mail address of SMTP two-way server in NACCS. ②E-mail style processing mode Set a mail address of e-mail style server in NACCS.	① SMTP two-way processing mode NACCS@SMTP.PROD.NACCS6 ②E-mail style processing mode NACCS@MAIL.PROD.NACCS6
	2	To		Receiver of message will be set. SP's mail address provided by NACCS Center should be set.	③ SMTP two-way processing mode AAXXXX@ZZZZZ.ABC01.NACCS6 ④ E-mail style processing mode AAAAA001@MAIL.PROD.NACCS6
Output common fields	1	(Reserved area)	3	(*1)	
	2	Procedure Code	5	Indicates a procedure code (*2)	IML△△ (Inquiry about registered MB/L-HB/L List)
	3	Output Message Code	7	The code of an output message.	SAS1261△ (Output message Code differs in accordance with the query type.)

Msg. section	No.	Fields	Length	Description	Sample Setting	
	4	Date of Message Receipt	14	The date and time of receipt of a message in Japan Time (yyyymmddhhmm)	201812101430△△	
	5	User Code	5	SP Code in the request message is entered.	PES**	
	6	(Reserved area)	17	(*1)		
	7	User's Mail Address	64	Same value as specified in "TO" field in the SMTP header.	ABC001@XXX...	
	8	Subject	64	Procedure-by-procedure data (e.g., customs declaration number).	10123456710...	
	9	(Reserved area)	40	(*1)		
	10	Message Tag	26	Used to identify a series of output information responding to a processing request message. (See 3.5.2 in NACCS EDI specifications)		
	11	Message Control Information	Division Sequence Number	3	Used to identify a series of output information responding to a processing request message.	000~001
	12		Termination	1	Used to identify a series of output information responding to a processing request message.	"E" will be set for final message of the series of output information. Otherwise, space will be set
	13		Message Type	1	Indicates a message type.	R (Process Result Output) P (Output Information (e.g., Notifications from Japan Customs))
	14	(Reserved area)	3	(*1)		
	15	Input Message ID	10	Output all settings of processing request message. For EXC type messages, spaces are filled.	(Settings of a processing request message) Spaces will be set for Message Type "P" in No.13.	
	16	Index Tag	100	Set when inquiry result does not fit in a single Process Result Output (subsequent processing to follow)	10123456710... (In case inquiry result does not fit in a single Process Result Output, subsequent result can be acquired by	

Msg. section	No.	Fields	Length	Description	Sample Setting
					resending the Request message with this code in Index Tag field of the Request message.)
	17	Message Destination Control Code	1	The message destination control format. ("Q" or "C" will be set.)	Q (Message for submitter of Processing request message) C (Message transmitted with the other concerned parties' input. E.g., Notifications from Japan Customs.)
	18	(Reserved area)	28	(*1)	
	19	Message Length	6	Indicates the length of the NACCS EDI message.	000400~700000 (Max 700,000)

(*1) The reserved areas are used to ensure proper system operation.

(*2) There is no guarantee that a value in Process Code in the output common field is identical to a value of the same element in the input common field. A value in Process Code in the output common field may be different from a value specified in the corresponding processing request message. It is advisable to use Output Message Code, Message Tag, and Input Message ID fields to distinguish a message.

5. Security Measures

Security measures must be taken by SP so that NACCS's confidentiality, integrity and availability are ensured.

5.1 Qualification check

(1) Qualification to implement procedures

In NACCS, the Reporter ID and password, SP Code, which are issued and managed by NACCS Center, are utilized to authenticate the reporter qualified to implement procedures.

(2) Qualification to access to mailbox

In NACCS's e-mail style processing mode, in addition to (1) above, the mailbox ID and mailbox password issued and controlled by NACCS Center are utilized to authenticate the SP's system qualified to access the mailboxes.

5.2 Security requirements of SP's systems for connecting to NACCS

Prior to connecting to the NACCS Center host, SP must ensure compliance with the security regulations prescribed by NACCS Center and report to NACCS Center on

details of protective measures they have taken.

When protective measures SP have taken are deemed inadequate or inappropriate by NACCS Center, NACCS Center shall instruct SP to take remedial measures.

In the event that SP has not responded to NACCS Center's instructions to take remedial measures, or a SP's system have caused or may cause damage to NACCS, NACCS Center shall suspend the SP system's connection to NACCS unilaterally.

(1) Security measures taken by SP

Table 5.1 Provision of Security Measures to be Implemented by SP

Items	Details	Remarks
(1) Placement of system administrator	- A system administrator for each place where a gateway computer is installed must be placed and the placement must be reported to the NACCS Center.	
(2) Management of IDs and passwords	- The system administrator as given in (1) above must make sure SP codes, reporter IDs and passwords are converted properly if a SP system use and manage their own user codes, IDs and passwords for users of computers connected to gateway computers to connect to the NACCS Center server. - The method of conversion of user codes, IDs and passwords must be reported to NACCS Center.	
(3) Implementation of anti-virus measures	- SP must construct a system that prevents the gateway computers from transmitting binary coded data to the NACCS Center host computer.	
(4) Reporting of SP system configuration	- The following items pertinent to the SP system for the NACCS Center host computer must be reported to NACCS Center: (a) System configuration diagram (b) List of devices to be used (c) Layout drawing of server room in Japan (Rough image is allowed.)	
(5) Reporting of intraoffice security measures taken	- The SP's security measures for intraoffice system for implementing procedures on AFR (e.g., firewall, user authentication) must be reported to NACCS Center.	
(6) Reporting of format conversion implemented	- When converting to NACCS EDI format, the method of conversion must be reported to NACCS Center.	
(7) Log management	- In order to identify users of gateway computers accessing the NACCS Center server, SP shall construct a system to manage the history (log) of data transmission/reception	See (2) for how to implement log management in the following page. The NACCS Center may request the submission of history log if it deems it necessary

(2) Log management

Log management for gateway connections shall be implemented as follows:

[1] Items to be logged and retained

Of the messages transmitted and received by the NACCS Center server, the following items shall be logged and retained:

Table 5.2 Items to Be Logged and Retained by SP

Transmission / reception	Upon transmission	Upon reception
Item		
Reporter ID (AFR Procedures only)	✓	✓
Procedure Code	✓	✓
second/time/day/month/year	✓	✓

✓: Required –: Not required

[2] Period of log retention

Logs shall be retained for a period of one (1) year.

[3] Location and method of log retention

Although SP can decide on the location and method of log retention by themselves, they must be able to promptly disclose retained logs to NACCS Center whenever they are requested to do so.

6. Connection Test

6.1 Outline of connection test

If any of the following is applicable, connection test predefined by NACCS Center must be conducted to test whether messages are successfully transmitted and received between the NACCS server and SP's system:

- A. Starting to connect to NACCS
- B. Need to check communication between the NACCS Center server and SP's system due to replacement of the hardware of the SP's system or modifications of the software to the SP's system.
- C. Need to check operability of the SP's software following modifications made to the NACCS Center server's software

(1) Details of connection test

<Phase 1>

To ensure successful message communications (on NACCS-EDI rules)

- To ensure SP's system can successfully receive inbound messages using "TCC" processed on the NACCS Center server.
For details regarding "TCC" (for conducting a NACCS-EDI level continuity test), refer to the Procedures Specification.

<Phase 2>

To ensure the user can implement procedures without error

- To ensure successful receipt of output information by the SP's system in response to the request for processing of pilot procedures transmitted by the NACCS Center server using NACCS Center-specified settings (dummy data) or SP's own data

(2) Implementation of connection test

Prior to conducting a connection test, those who wish to conduct a connection test have to fill out an application form and send it to NACCS Center.

NACCS Center will arrange a test date upon receipt of the application according to the processing mode chosen by the applicant and will inform the details to the SP.

6.2 Preparations required for connecting to NACCS

(1) Preparation for connection test

In applying for a connection test, the user needs to prepare the following hardware and software:

Table. 6.1 Hardware & Software to Be Arranged for Connecting to NACCS

Hardware & Software	Instructions
a. LAN cable, etc	LAN cables and other items that SP should provide
b. Hub	To be arranged by SP on an as needed basis
c. NACCS connection router	To be arranged by NACCS Center upon application of SP for access line
d. Access line	To be arranged by NACCS Center upon application of SP for access line

(2) Cost for connection test

- a. Access line charge (including NACCS connection router rental fee)
Access line charges for connection tests shall be borne by SP.
- b. Cost for communication wiring
Possible costs for communication wiring to enable connection to NACCS shall be borne by SP.
- c. Initial costs involved in preparatory steps including device installation shall be borne by SP.