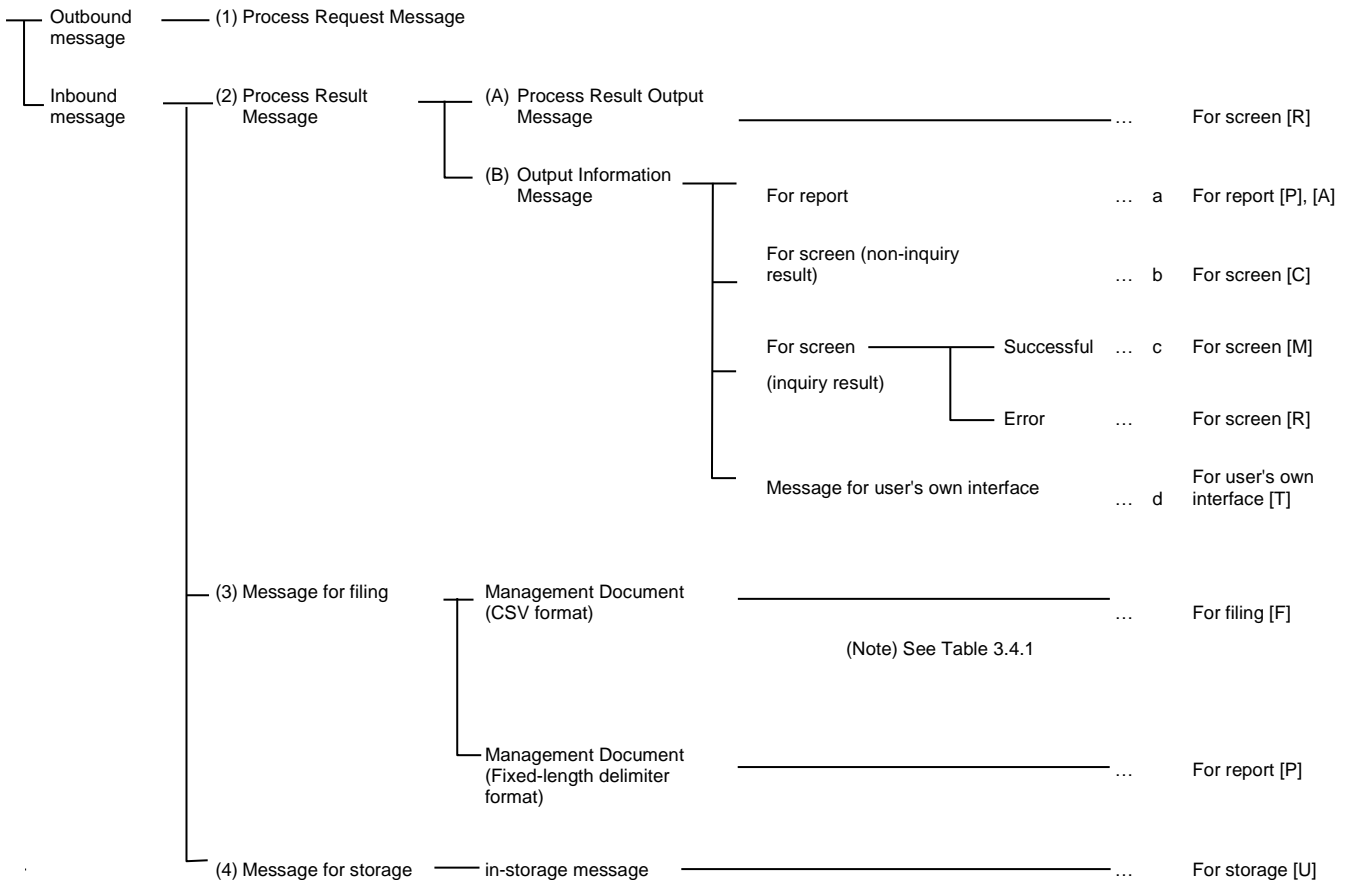


3.4 Message Types

[Message types]



* [Message type] indicates a value specified in Message Control Information in the output common fields in a message transmitted from NACCS Center server to a user system (inbound message). The purpose of classifying details of messages in NACCS EDI messages for report or screen is that when looking at the message on NACCS Packaged Software provided by NACCS, the NACCS Packaged Software can identify whether images should be displayed in the template for the report or in the template for the screen. When carrying out in-house development of software which uses gateway connection, it is not necessary to be aware of this classification.

e.g.) For report [P]: NACCS Packaged Software combines printing templates, which corresponds to the message, and displays printing image on the user computer.

e.g.) For screen [C]: NACCS Packaged Software combines screen templates which corresponds to the message and displays a screen image on the user computer.

(1) Process Request Message

This message is sent by the user to NACCS Center server to request processing.

(2) Process Result Message (See "Appendix 3 Details of Process Result Messages")

(A) Process Result Output Message (for screen [R])

This message notifies a user whether or not a Process Request Message (non-inquiry procedure) sent by the user has been processed successfully.

If the processing in response to the message has been completed successfully in the processing, a Process Result Output Message indicating successful completion is returned, while if the processing has failed, a Process Result Output Message indicating processing failed is returned. If an error occurs before the processing takes place in the Main Processing System, another Process Result Output Message (for common errors) is returned. (For common errors, see "Appendix 6 Codes".)

(B) Output messages

This message is returned after completion of processing in the Main Processing System in response to a Process Request Message sent by the user to NACCS Center server.

1) Output messages (for report [P], [A])

This message type is to prompt the printer to print records when the user uses NACCS Packaged Software provided by NACCS Center.

This is used for NACCS Packaged Software to change storage formats to store Output Information Message according to Message Types (for report [P], [A]), so it is not necessary for users to be aware of the difference between [P] and [A]. (Message Type [P]: Text format, Message Type [A]: CSV format)

e.g.) For report [P]: NACCS Packaged Software stores the messages in text format.

e.g.) For screen [A]: NACCS Packaged Software stores the messages in CSV format.

Figure 3.4.1 shows the flow of output messages (for report).

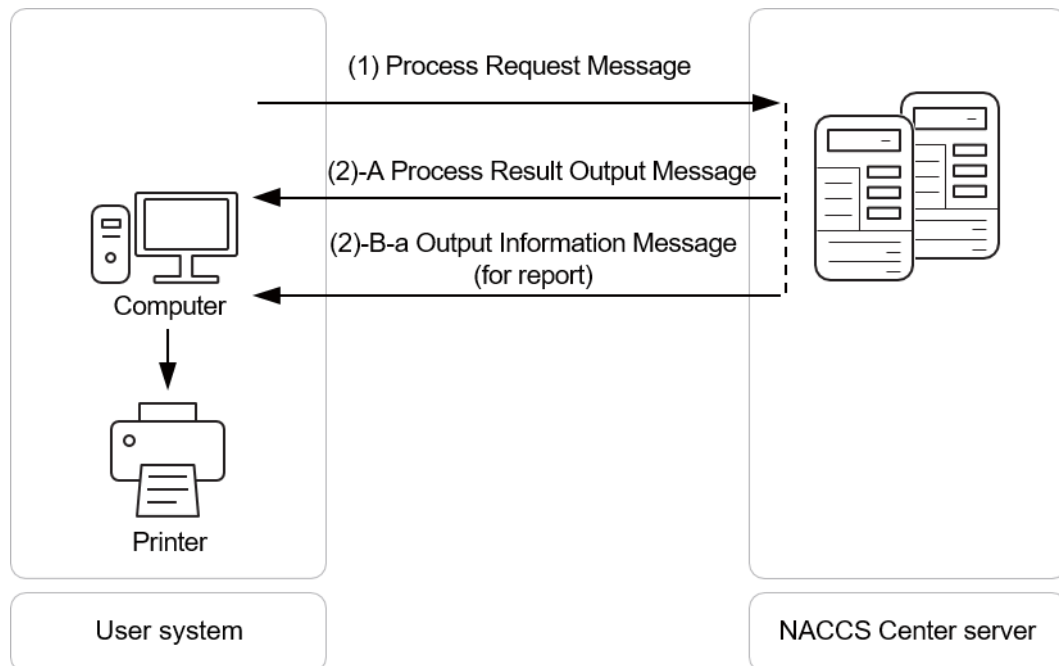


Figure 3.4.1 Flow of Output Information (for report) Message

2) Output information messages (non-inquiry result) (for screen [C])

This message type is to prompt display of a message text on the screen when the user uses NACCS Packaged Software provided by NACCS Center.

Figure 3.4.2 shows a flow of Output Information Messages (non-inquiry result) (for screen).

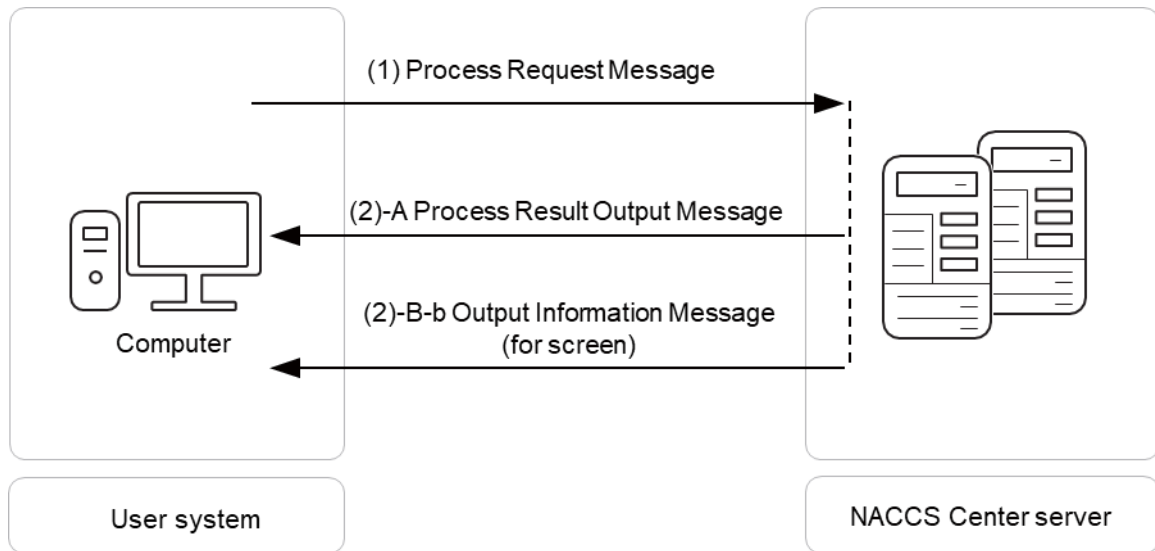


Figure 3.4.2 Flow of Output Information Messages (Non-inquiry Result) (for Screen)

3) Output information messages (inquiry result) (for screens [M], [R])

This type of message is sent after completion of processing in the Main Processing System in response to an inquiry request sent by the user to NACCS Center. There are two types of inquiry procedure: one for successful completion and the other for an error.

(a) When the Main Processing System successfully completes procedure processing

An information message for screen (Message Type [M]) is output.

This message contains the Process Result Code indicating successful completion, and the inquiry result. Also NACCS Packaged Software displays the Process Result screen and the Process Result Code indicating a successful completion.

Figure 3.4.3 shows a flow of messages in this case.

(b) When the Main Processing System stops due to error

A Process Result Output Message (Message Type [R]) is output.

This message contains only the Process Result Code indicating error, and NACCS Packaged Software displays the input screen and the Process Result Code indicating error.

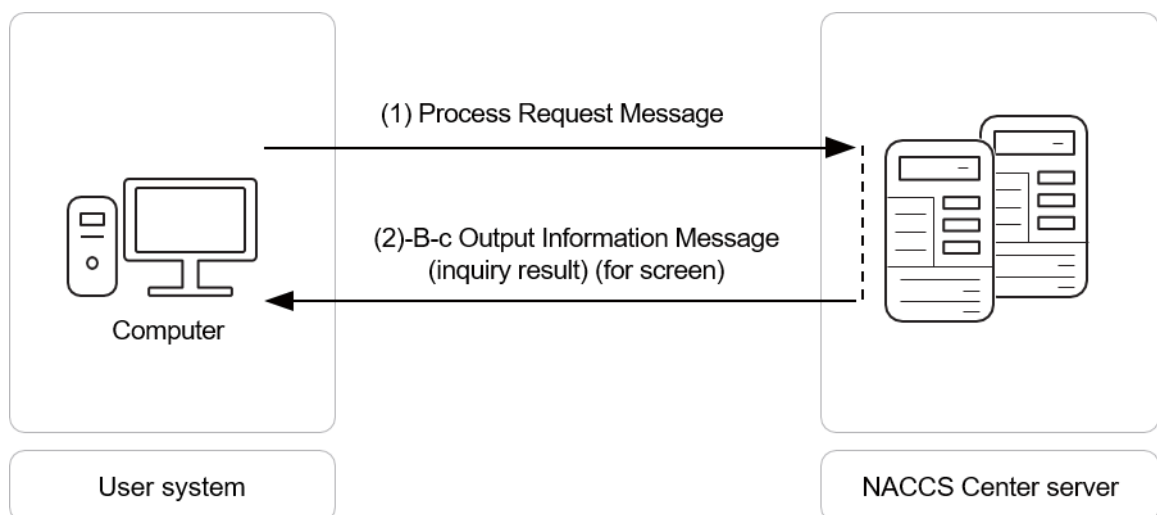


Figure 3.4.3 Flow of Output Information Messages (Inquiry Result) (for Screen)

4) Output messages (messages for user's own interface) (for user's own interface [T])

This type of message is to be imported into and used on the user's own system.

Therefore, when looking at the message on NACCS Packaged Software since there is no corresponding template (for screen and for report), the message will not be displayed as a screen image or printed image. (The message is displayed in text data.)

Refer to "Table A6-8 Output Information Code List" for types of output information include the following:

(3) Message for filing (Management Documents) (for filing [F], report [P])

This message is used to transfer a Management Document from NACCS Center server to NACCS Packaged Software. A Maximum size of messages allowable for transmission is 30,000,000 bytes after file compression.

Table 3.4.1 shows message types and formats used in NACCS.

Table 3.4.1 Outline of Message for filing

Message Type	Format	Editing, etc.	Remarks
For filing [F]	CSV	Messages can be edited by users using commercially available spreadsheet software, etc.	For file names when messages are stored in external files, refer to "Operation Manual for NACCS Packaged Software."
For report [P]	Fixed-length delimiter	NACCS Packaged Software combines printing templates and print records.	

(4) Message for storage (in-storage message) (for storage [U])

This type of message contains a Process Result that is generated when "Declaration on cargo Carrying in" or "Declaration during office hours" procedures is processed. In another case, this type of message contains a Process Result that is generated when procedures relating to the relevant ministerial ordinances are processed through the single window procedure. This type of message is generated only in interactive processing mode. Main Processing System

If processing is executed when the user's computer is not connected to NACCS Center server , a Process Result is stored in NACCS Center server along with an Output Information Message (for report), and, therefore, the user must retrieve such in-storage message and Output Information Message (for report) from NACCS Center server when connecting to NACCS.

If processing is executed when the user's computer is connected to NACCS Center server an in-storage message is automatically sent to user system.

(For reference) Format of transmission of Management Documents

(A) Transmission and file formats

Management Documents are sent primarily in CSV format, allowing the user to edit or perform calculations on such documents using commercially available spreadsheet software etc. and some types of documents are sent in the fixed-length delimiter format which is suitable for printing. For the output format, refer to "Table A6-9-2 List of Private Management Document Information." In addition, for details of the message format for Management Documents, refer to "6. Retrieval of Management Document Information."

CSV format:

A text-based format. Data elements are delimited by ',' (comma) and each line ends with CRLF codes. Figure 3.4.4 describes an example of CSV format file.

XXXXXXXXXXXXXXXXXXXXX.....XXXXXXX <CRLF>	(output common fields - 398 bytes)
輸入申告一覧表<CRLF>	(title)
許可日,承認日,申告日,申告番号 <CRLF>	(cell element)
AAAAAAAAAA ,BBBBBBBBBB ,CCCCCCCCC ,DDDDDDDDDD <CRLF>	(values in 1st row)
EEEEEEEEEE ,FFFFFFFFF ,GGGGGGGGGG ,HHHHHHHHHH <CRLF>	(values in 2nd row)

Figure 3.4.4 CSV Format File

CSV stands for "Comma Separated Value". This file format uses ',' (comma) as a data element separator. This format is widely used in spreadsheet and database software products, which allow the user to directly import data in CSV format. Note that special codes such as commas and double quotes are treated slightly different depending on the spreadsheet software used.

(B) Edit and print

1) Management Documents (CSV format) (for filing [F])

- (a) Management documents are converted into CSV format on NACCS Center server and delivered to users.
- (b) The user can edit, modify or print management documents received in CSV format using commercially available spreadsheet software etc.

2) Management Documents (fixed-length delimiter format) (for report [P])

- (a) Management documents are converted into the fixed-length delimiter format on NACCS Center server before being sent to the user.
- (b) NACCS Packaged Software opens the printing templates linked to the output message, and displays the printing image. When necessary, the user can print records using the print function of NACCS Packaged Software.

(C) Spreadsheet software used for handling Management Documents (CSV format) (for filing [F])

Since the data in CSV format are treated slightly different depending on the spreadsheet software used, NACCS creates data in CSV format supported by "Microsoft Excel."