

ACK_ – General Acknowledgement

1 General

Standards for messaging to and from Ministry of Health applications using HL7 are described in a series of business and technical volumes. Volumes 1, 2, 5, 6 and 7 are common for all application interfaces. Volumes 3 and 4 are customized to the requirements of particular business areas. This message specification is a component of Volume 4 – HL7 Message Specifications.

A catalogue of all supported messages and message interactions can be found in Volume 1.

All documentation is available on the *healthnetBC* web site <http://healthnet.hnet.bc.ca/catalogu/tech/compdocs.html>

1.1 Corrections and updates

Corrections and update notes can be found at the end of this document. A vertical line in the outside boarder denotes corrections within the document. ¹

1.2 ACK - Transaction Overview

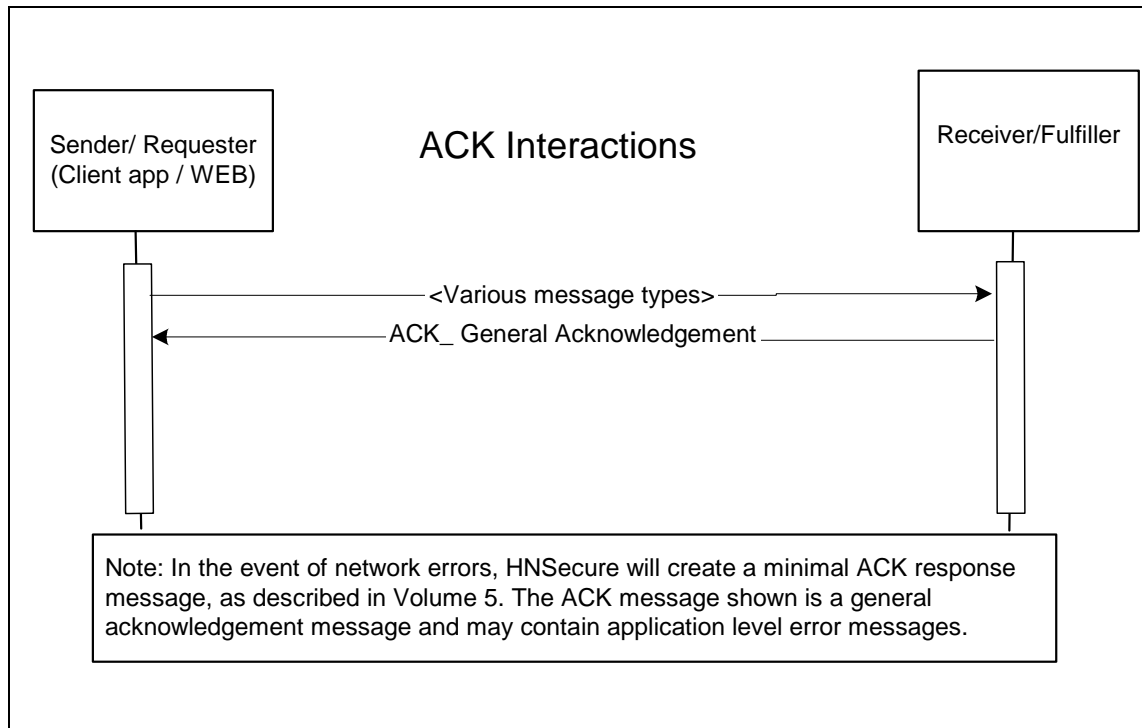
The simple general acknowledgment (ACK) is used where the application does not define a special application level acknowledgment message or where there has been an error that precludes application processing. It is also used for accept level acknowledgments.

ACK is used only as a response message in an interaction between sender and receiver and is, itself, never responded to.

The initiating message from the sender is hereafter referred to as the ‘input’ message.

1.3 Supported Interactions

The following interactions are permitted with the ACK message.



1.4 ACK - Processing Rules

1. Re-direction of an ACK message to a destination other than origin of the input message is NOT supported. Thus, MSH.5 Receiving System = MSH.3 Sending System on the input message and MSH.6 Receiving Facility = MSH.4 Sending Facility on the input message.
2. The trigger event code in MSH.9 equals the trigger event code on the input message.

Example: the input message R71_Z54 Add Patient Registration has message type = "R70" and trigger event "Z54". MSH.9 on the Acknowledgement response message will be:

MSH |||||||ACK^Z54|||

3. MSH.8, 11, 12: Field has the same value as the equivalent MSH field on the input message.
4. MSA.2 Message Control ID = MSH.10 Message Control ID on the input message. MSA.2 contains the message control ID of the message sent by the sending system. It allows the sending system to associate this response with the message for which it is intended.
5. HealthNet protocols require a text message to be returned in MSA.3 on ALL responses, and:
 - If MSA.1 = "AA" then MSA.3 is coded as a type "I" information message.
 - If MSA.1 = "AE" or "AR" then MSA.3 is coded as type "E" (error) or "W" (warning), as appropriate.

1.5 ACK- Minimum Display/Print Standards

Display/Print standards for the recipient of an ACK message are provided in the specifications for the input transaction.

1.6 ACK - Transaction Summary

The following specification illustrates the structure of the HL7 transaction.

{ } denotes one or more repetitions of the enclosed segment(s)

[] denotes that the enclosed segments are optional

Refer to 'Appendix A, *healthnetBC* Fixed Length Segment Definitions' for more details on each of the segment definitions

Transaction (ACK)

MSH	Message Header	Required
MSA	Message Acknowledgement	Required
[{ ERR }]	Error	Optional; Repeats, minimum 0, maximum 10 ²

1.7 ACK- Transaction Segments and Fields

MSH	Required						
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment Id	R			SI		"MSH"
1	Field Separator	R			ST		" "
2	Encoding Characters	R			ST		"^~\&"
3	Sending Application	R			HD		= Receiving Application on MSH of input message, "HNCLIENT", "HNGATE" <ul style="list-style-type: none"> For more information on "HNCLIENT/HNGATE" values, see 'No Response from the network' in Volume 5.
4	Sending Facility	R			HD		= Receiving Facility on MSH input or Network Facility ID of HNCLIENT/HNGATE if Sending Application on MSH = "HNCLIENT" or "HNGATE". <ul style="list-style-type: none"> For more information on "HNCLIENT/HNGATE" values, see 'No Response from the Network' in Volume 5.
5	Receiving Application	R		1	HD		= Sending Application on MSH input
6	Receiving Facility	R		1	HD		= Sending Facility on MSH input
7	Date/Time of Message	R			TS		Date/Time transaction was sent (24) - YYYYMMDDHHMMSS.SSSS+/-ZZZZ
8	Security	O		3	ST		= Security on MSH input

MSH	Required						
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
9	Message Type	R		2	ST		<ul style="list-style-type: none"> Message Type (3) - Transaction Identification; valid values is "ACK" Trigger Event (3) – required; valid value is the trigger event code on the input message.
10	Message Control ID	R			ST		Unique message number (20) - see MSH definition for more information
11	Processing ID	R		3	PT		= Processing ID on MSH input
12	Version ID	R		3	ID		= Version ID on MSH input

MSA	Required						
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R			SI		"MSA"
1	Acknowledgement Code	R		5	ID	0008	Indication of success/failure of transaction (2) - valid values are "AA", "AE", "AR"; receiving applications will set "AA" for successful completion and "AE" for application errors; "AR" is set by the infrastructure for invalid transactions or transactions that cannot make it through to the receiving application.
2	Message Control ID	R		4	ST		= Message Control ID on MSH input (20)
3	Text Message	R		5	ST		Error code (8) + English message text (72) - Format of error code is AMMMnnnZ where A is an application identifier, MMM is a module or sub-system identifier, nnn is a sequential number and Z is either "E" = error, "W" = warning, "I" = Information

ERR	Optional, Repeats - minimum 0, maximum 10 ²						
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R			SI		"ERR"
1	Error Code and Location	R	1-1	3	CM1	HNET:9000	Refer to 'Error Handling' in Volume 5 for more information on error message formats. <ul style="list-style-type: none"> Segment ID (3) – optional; segment where error occurred Sequence (4) – optional; occurrence of segment in transaction where error occurred Field Position (4) – optional; field in segment where error occurred Identifier of Code Identifying Error (8) – Message Number; required; reference table HNET:9000 for valid values; ERR segments are returned in "E", "W", "I" order Text of Code Identifying Error (72) – Message Text; required Alternate Identifier of Code Identifying Error (15) – Alternate Message Number; optional; must be logged if present in transaction Alternate Text of Code Identifying Error (255) – Alternate Message Text; optional; must be logged if present in transaction Name of Alternate Coding System of Code Identifying Error (8) – optional; name of system that generated Alternate Identifier of Code Identifying Error



DOCUMENT MODIFICATION HISTORY		
VERSION	RELEASE DATE	DESCRIPTION
2.0	September 1999	Original HRS document
2.1	November 21, 2003	<ul style="list-style-type: none"> • Message specification published as separate document. • Added 'General Introduction' • Added reference 'Data Type' and 'Table' columns into segment tables • Corrections to published specification, as described below. Unless otherwise noted, these corrections do not reflect changes to the supported message specification. (New and superseded messages are described in Volume 1.) • Message components or vocabulary marked for future release (in earlier publications) have either been removed entirely or marked as Not Supported. Any substantive changes to these specifications in future will be released as a new message in order to provide for backward compatibility.

Corrections and Update Notes

¹ 02/Nov/27 – example of correction

² Minimum cardinality on ERR segment corrected to read 0, instead of 1. This optional segment may not be present in some messages.