



# HL7 Interface Specification:

## Admit, Discharge, Transfer (ADT)

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# Introduction

This specification is designed to assist in the development of an interface between our partners and Health Gorilla for transmitting ADT messages.

This document explains the technical details of our HL7 standard support. Interface development between HG and our vendors is approved by our business development team, then scheduled and managed by our engineering and development organization. We work in conjunction with our vendor partners to spend time analyzing and planning our interface to ensure that both parties are using the same optional features.

# Message Structure

The following HL7 messages and segments are supported in the exchange of ADT information.

Message Type	Description
ACK	General Acknowledgement
MSA	Message Acknowledgement
ADT	Admission, Discharge and Transfers

The table contains message segments commonly found in ADT transactions. Health Gorilla may support segments not explicitly defined in this specification.

Segments	Description
MSH	Message Header
EVN	Event Type
NK1	Next of Kin
PID	Patient Identification
PV1	Patient Visit
ROL	Role
DG1	Diagnosis

ADT Events	Description
A01	Admit/visit notification
A02	Transfer a patient
A03	Discharge/end visit
A04	Register a patient
A05	Pre-admit a patient
A06	Change an outpatient to an inpatient
A07	Change an inpatient to an outpatient
A08	Update patient information
A09	Patient departing - tracking
A10	Patient arriving - tracking
A11	Cancel admit / visit notification
A12	Cancel transfer

A13	Cancel discharge / end visit
A14	Pending admit
A15	Pending transfer
A16	Pending discharge
A17	Swap patients
A18	Merge patient information
A19	Patient query
A20	Bed status update
A21	Patient goes on a 'leave of absence'
A22	Patient returns from a 'leave of absence'
A23	Delete a patient record
A24	Link patient information
A25	Cancel pending discharge
A26	Cancel pending transfer
A27	Cancel pending admit
A28	Add person information
A29	Delete person information
A30	Merge person information
A31	Update person information
A32	Cancel patient arriving - tracking
A33	Cancel patient departing - tracking
A34	Merge patient information - patient ID only
A35	Merge patient information - account number only
A36	Merge patient information patient ID and account number
A37	Unlink patient information
A38	Cancel pre-admit
A39	Merge patient -patient ID
A40	Merge patient - patient identifier list
A41	Merge account - patient account number
A42	Merge visit - visit number
A43	Move patient information - patient identifier list
A44	Move account information - patient account number
A45	Move visit information - visit number
A46	Change patient ID
A47	Change patient identifier list

A48	Change alternate patient ID
A49	Change patient account number
A50	Change visit number
A51	Change alternate visit ID
A52	Cancel leave of absence for a patient
A53	Cancel patient returns from a leave of absence
A54	Change attending doctor
A55	Cancel change attending doctor
A60	Update allergy information
A61	Change consulting doctor
A62	Cancel change consulting doctor

# MSH - Message Header

The MSH segment defines the intent, source, destination, and some specifics of the syntax of a message.

This segment is required.

Seq	Len	DT	OPT	RP#	TBL#	ITEM#	ELEMENT NAME
1	1	ST	R			00001	Field Separator
2	4	ST	R			00002	Encoding Characters
3	180	HD	O		0361	00003	Sending Application
4	180	HD	O		0362	00004	Sending Facility
5	180	HD	O		0361	00005	Receiving Application
6	180	HD	O		0362	00006	Receiving Facility
7	26	TS	R			00007	Date/Time of Message
8	40	ST	O			00008	Security
9	13	CM	R		0076/003	00009	Message Type
10	20	ST	R			00010	Message Control ID
11	3	PT	R			00011	Processing ID
12	8	VID	R		0104	00012	Version ID
13	15	NM	O			00013	Sequence Number
14	180	ST	O			00014	Continuation Pointer
15	2	ID	O		0155	00015	Accept Acknowledgment Type
16	2	ID	O		0155	00016	Application Acknowledgment Type
17	2	ID	O		0399	00017	Country Code
18	6	ID	O		0211	00692	Character Set
19	60	CE	O			00693	Principal Language of Message
20	20	ID	O		0356	01317	Alternate Character Set Handling Scheme

## EVN - Event Type

The EVN segment is used to communicate necessary trigger event information to receiving applications.

This segment is required.

Seq	Len	DT	OPT	RP#	TBL#	ITEM#	ELEMENT NAME
1	3	ID	B		0003	00099	Event Type Code
2	20	TS	R			00100	Record Date and Time
3	250	TS	O			00101	Date and Time of Planned Event
4	20	IS	O		0062	00102	Event Reason Code
5	250	XCN	O	Y	0188	00103	Operator ID
6	250	TS	O			01278	Event Occured
7	241	HD	O			01534	Event Facility

## NK1 - Next of Kin

The NK1 segment contains information about the patient's other related parties.

Seq	Len	DT	OPT	RP#	TBL#	ITEM#	ELEMENT NAME
1	4	SI	R			00190	Set ID - NK1
2	48	XPN	O	Y		00191	Name
3	60	CE	O		0063	00192	Relationship
4	106	XAD	O	Y		00193	Address
5	40	XTN	O	Y		00194	Phone Number
6	40	XTN	O	Y		00195	Business Phone Number
7	60	CE	O		0131	00196	Contact Role
8	8	DT	O			00197	Start Date
9	8	DT	O			00198	End Date
10	60	ST	O			00199	Next of Kin/Associated Party's Job Title
11	20	JCC	O			00200	Next of Kin/Associated Party's Job Code/Class
12	20	CX	O			00201	Next of Kin/Associated Party's Employee Number
13	60	XON	O	Y		00202	Organization Name
14	2	CE	O		0002	00119	Marital Status



15	1	IS	O		0001	00111	Sex
16	26	TS	O			00110	Date of Birth
17	2	IS	O	Y	0223	00755	Living Dependency
18	2	IS	O	Y	0009	00145	Ambulatory Status
19	4	CE	O	Y	0171	00129	Citizenship
20	60	CE	O		0296	00118	Primary Language
21	2	IS	O		0220	00742	Living Arrangement
22	1	CE	O		0215	00743	Publicity Indicator
23	1	ID	O		0136	00744	Protection Indicator
24	2	IS	O		0231	00745	Student Indicator
25	3	CE	O		0006	00120	Religion
26	48	XPN	O	Y		00109	Mother's Maiden Name
27	80	CE	O		0212	00739	Nationality
28	3	CE	O	Y	0189	00125	Ethnic Group
29	80	CE	O	Y	0220	00747	Contact Reason
30	48	XPN	O	Y		00748	Contact Person's Name
31	40	XTN	O	Y		00749	Contact Person's Telephone Number
32	106	XAD	O	Y		00750	Contact Person's Address
33	32	CX	O	Y		00751	Next of Kin/Associated Party's Identifiers
34	2	IS	O		0311	00752	Job Status
35	1	CE	O	Y	0005	00113	Race
36	2	IS	O		0295	00753	Handicap
37	16	ST	O			00754	Contact Person Social Security Number
38	250	ST	O			01905	Next of Kin Birth Place
39	2	IS	O		0099	00146	VIP Indicator

## PID - Patient Identification

The PID segment is used by all applications as the primary means of communicating patient identification information. This segment contains permanent patient identifying and demographic information that, for the most part, is not likely to change frequently.

This segment is required.

Seq	Len	DT	OPT	RP#	TBL#	ITEM#	ELEMENT NAME
1	4	SI	O			00104	Set ID – PID
2	20	CX	B			00105	Patient ID

3	250	CX	R	Y		00106	Patient Identifier List
4	20	CX	B	Y		00107	Alternate Patient ID
5	250	XPN	R	Y		00108	Patient Name
6	250	XPN	O	Y		00109	Mothers Maiden Name
7	26	TS	O			00110	Date and Time of Birth
8	1	IS	O		0001	00111	Administrative Sex
9	250	XPN	B	Y		00112	Patient Alias
10	250	CE	O	Y	0005	00113	Race
11	250	XAD	O	Y		00114	Patient Address
12	4	IS	B		0289	00115	Country Code
13	250	XTN	O	Y		00116	Phone Number – Home
14	250	XTN	O	Y		00117	Phone Number – Business
15	250	CE	O		0296	00118	Primary language
16	250	CE	O		0002	00119	Marital Status
17	250	CE	O		0006	00120	Religion
18	250	CX	O			00121	Patient Account Number
19	16	ST	B			00122	SSN Number
20	25	DLN	O			00123	Driver's License Number
21	250	CX	O	Y		00124	Mother's Identifier
22	250	CE	O	Y	0189	00125	Ethnic Group
23	250	ST	O			00126	Birth Place
24	1	ID	O		0136	00127	Multiple Birth Indicator
25	2	NM	O			00128	Birth Order
26	250	CE	O	Y	0171	00129	Citizenship
27	250	CE	O		0171	00130	Veterans Military Status
28	250	CE	B		0212	00739	Nationality
29	26	TS	O			00740	Patient Death Date and Time
30	1	ID	O		0136	00741	Patient Death Indicator

# PV1 - Patient Visit

The PV1 segment is used by Registration/Patient Administration applications to communicate information on an account or visit-specific basis.

Seq	Len	DT	OPT	RP#	TBL#	ITEM#	ELEMENT NAME
1	4	SI	O			00131	Set ID- PV1
2	1	IS	R		0004	00132	Patient Class
3	80	PL	O			00133	Assigned Patient Location
4	2	IS	O		0007	00134	Admission Type
5	250	CX	O			00135	Pre-admit Number
6	80	PL	O			00136	Prior Patient Location
7	250	XCN	O	Y	0010	00137	Attending Doc
8	250	XCN	O	Y	0010	00138	Referring Doc
9	250	XCN	B	Y	0010	00139	Consulting Doc
10	3	IS	O		0069	00140	Hospital Service
11	80	PL	O			00141	Temporary Location
12	2	IS	O		0087	00142	Pre-admit Test Indicator
13	2	IS	O		0092	00143	Re-admission Indicator
14	6	IS	O		0023	00144	Admit Source
15	2	IS	O	Y	0009	00145	Ambulatory Source
16	2	IS	O	Y	0099	00146	VIP Indicator
17	250	XCN	O	Y	0010	00147	Admitting Doc
18	2	IS	O		0018	00148	Patient Type
19	250	CX	O			00149	Visit Number
20	50	FC	O	Y	0064	00150	Financial Class
21	2	IS	O		0032	00151	Charge Price Indicator
22	2	IS	O		0045	00152	Courtesy Code

## ROL - Role

The ROL Segment is used to describe a person playing a particular role within the context of the message.

Seq	Len	DT	OPT	RP#	TBL#	ITEM#	ELEMENT NAME
1	60	EI	C			01206	Role Instance ID
2	2	ID	R		0287	00816	Action Code
3	250	CE	R		0443	01197	Role - ROL
4	250	XCN	R	Y		01198	Role Person
5	26	DTM	O			01199	Role Begin Date/Time
6	26	DTM	O			01200	Role End Date/Time
7	250	CWE	O			01201	Role Duration
8	250	CWE	O			01205	Role Action Reason
9	250	CWE	B	Y		01510	Provider Type
10	250	CWE	O		0406	01461	Organization Unit Type
11	250	XAD	O	Y		00679	Office/Home Address/Birthplace
12	250	XTN	O	Y		00678	Phone

## DG1 - Diagnosis

The DG1 segment contains patient diagnosis information of various types, for example, admitting, primary, etc.

Seq	Len	DT	OPT	RP#	TBL#	ITEM#	ELEMENT NAME
1	4	SI	R			00375	Set ID - DG1
2	2	ID	B		0053	00376	Diagnosis Coding Method
3	60	CE	O		0051	00377	Diagnosis Code
4	40	ST	B			00378	Diagnosis Description
5	26	TS	O			00379	Diagnosis Date / Time
6	2	IS	R		0052	00380	Diagnosis Type
7	60	CE	B		0118	00381	Major Diagnostic Category
8	4	IS	B		0055	00382	Diagnostic Related Group
9	2	ID	B		0136	00383	DRG Approval Indicator

10	2	IS	B		0056	00384	DRG Grouper Review Code
11	60	CE	B		0083	00385	Outlier Type
12	3	NM	B			00386	Outlier Days
13	12	NM	B			00387	Outlier Cost
14	4	ST	B			00388	Grouper Version And Type
15	2	NM	B			00389	Diagnosis Priority
16	60	XCN	O	Y		00390	Diagnosing Clinician
17	3	IS	O		0228	00766	Diagnosis Classification
18	1	ID	O		0136	00767	Confidential Indicator
19	26	TS	O			00768	Attestation Date / Time
20	427	EI	C			01850	Diagnosis Identifier
21	1	ID	C		0206	01894	Diagnosis Action Code