

3.

Patient Administration

Chapter Chair/Editor

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3.1 PURPOSE

The Patient Administration transaction set provides for the transmission of new or updated demographic and visit information about patients. Since virtually any system attached to the network requires information about patients, the Patient Administration transaction set is one of the most commonly used.

Generally, information is entered into an Patient Administration system and passed to the nursing, ancillary and financial systems either in the form of an unsolicited update or a response to a record-oriented query.

This chapter defines the transactions that occur at the seventh level, that is, the abstract messages. The examples included in this chapter were constructed using the HL7 Encoding Rules.

3.2 TRIGGER EVENTS AND MESSAGE DEFINITIONS

Each trigger event is listed below, along with the applicable form of the message exchange. The notation used to describe the sequence, optionality, and repetition of segments is described in Chapter 2, Section 2.11, “Chapter Formats for Defining HL7 Messages.”

The trigger events that follow are all served by the ADT unsolicited update and the ACK response.

In the following trigger event descriptions, the term “admitted” patient will be used instead of “inpatient” to indicate any patient classes that are assigned to a patient bed for at least a few hours. “Non-admitted” patients will be used instead of “outpatients” to indicate any patient classes that are not assigned to a bed, but rather to an exam room or another type of encounter room or clinic waiting room.

We recognize that different hospital systems use different definitions of the terms “inpatient,” “outpatient,” “emergency room,” and “recurring patient classes,” or handle these patients differently. Therefore, the trigger events are not defined as specific to any patient class. The patient class for any visit related information must be specified in *PVI-2-patient class* in order to enable each system to handle the transaction properly. This means that both the event and the patient class must be checked in order to determine how to handle the transaction. If a certain patient class can sometimes be assigned to a bed and sometimes not, for example, “observation patients,” then *PVI-3-assigned patient location* must also be checked.

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In order to accommodate non-admitted patient events without using the same trigger events as those for admitted patients, we would need an entirely new set of non-admitted patient events. If we do that, disparate systems would still have a hard time agreeing about whether certain patient classes should use the admitted patient events or the non-admitted patient events, because of the differences between how admitted and non-admitted patients are defined and handled.

Both admitted and non-admitted patient events are transmitted using most of the same events. The meaning or interpretation of those events will depend upon the patient class.

The information that is included in any of these trigger event transactions can be more than the minimum necessary to communicate the event. Any of the fields can be used that are in the segments listed for the message. As many or as few fields can be used as are agreed upon during implementation. However, please note that when the contents of a field change for a field that is not necessarily related to the trigger event, it is a matter for implementation negotiation as to whether the receiving systems can capture this changed data.

In order to alleviate this ambiguity, we recommend (but do not require) that the A08 (update patient information) transaction be used to update fields that are not necessarily related to any of the other trigger events. For example, if a Patient Administration system allows the patient's medical service and attending doctor to be changed in the transfer function, the Patient Administration system should send two HL7 messages. It should send an A02 (transfer a patient) event to reflect the location change, followed by an A08 (update patient information) event to reflect the change in the medical service and the attending doctor.

3.2.1 ADT/ACK - admit/visit notification (event A01)

An A01 event is intended to be used for "Admitted" patients only. An A01 event is sent as a result of a patient undergoing the admission process which assigns the patient to a bed. It signals the beginning of a patient's stay in a healthcare facility. Normally, this information is entered in the primary Patient Administration system and broadcast to the nursing units and ancillary systems. It includes short stay and John Doe admissions. For example, an A01 event can be used to notify: the pharmacy system that a patient has been admitted and may be legitimately prescribed drugs; the nursing system that the patient has been admitted and needs a care plan prepared; the finance system of the start of the billing period; the dietary system that a new patient has been installed and requires dietary services; the laboratory, pathology, and radiology systems that a patient has been admitted and is entitled to receive services; the clinical repository that an admission has taken place for the EMR (electronic medical record).

When an account's start and end dates span a period greater than any particular visit, the P01 (add account) event should be used to transmit the opening of an account. The A01 event can notify systems of the creation of an account as well as notify them of a patient's arrival in the healthcare facility. In order to create a new account without notifying of patient's arrival, use the P01 event.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
[{ NK1 }]	Next of Kin /Associated Parties	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ AL1 }]	Allergy Information	3
[{ DG1 }]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6
[{ PR1	Procedures	6
[{ROL}]	Role	12
}]		
[{ GT1 }]	Guarantor	6
[
{ IN1	Insurance	6
[IN2]	Insurance Additional Info.	6
[IN3]	Insurance Add'l Info - Cert.	6
}		
]		
[ACC]	Accident Information	6
[UB1]	Universal Bill Information	6
[UB2]	Universal Bill 92 Information	6

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.2 ADT/ACK - transfer a patient (event A02)

An A02 event is issued as a result of the patient changing his or her assigned physical location.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition. If the transfer function of your Patient Administration system allows demographics to change at the same time as the transfer, we recommend (but do not require) sending two messages (an A02 followed by an A08). This A02 event can be used with admitted and non-admitted patients.

The new patient location should appear in *PV1-3-assigned patient location* while the old patient location should appear in *PV1-6-prior patient location*. For example, an A02 event can be used to notify: laboratory, radiology, pathology that the patient has changed location and test results should be redirected; pharmacy that drugs should be redirected for the patient; dietary that the meals should be delivered to a different location; the clinical repository that a transfer has taken place for the EMR.

If the patient is going to a temporary location (such as the O/R, X-RAY, LIMBO, the HALLWAY) it is recommended that the A09 (patient departing tracking) and A10 (patient arriving tracking) events be used instead of A02. It is recommended that A02 be used only for a real change in the census bed in the Patient Administration system.

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ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.3 ADT/ACK - discharge/end visit (event A03)

An A03 event signals the end of a patient's stay in a healthcare facility. It signals that the patient's status has changed to "discharged" and that a discharge date has been recorded. The patient is no longer in the facility. The patient's location prior to discharge should be entered in *PV1-3-assigned patient location*.

An A03 event can be sent to notify: the pharmacy that the patient's stay has ended and that entitlement to drugs has changed accordingly; the nursing system that the patient has been discharged and that the care plan can be completed; the finance system that the patient billing period has ended; and/or the clinical repository that discharge has taken place for the EMR.

For non-admitted patients, an A03 event signals the end of a patient's visit to a healthcare facility. It could be used to signal the end of a visit for a one-time or recurring outpatient who is not assigned to a bed. It could also be used to signal the end of a visit to the Emergency Room. *PV1-45-discharge date/time* can be used for the visit end date/time.

When an account's start and end dates span a period greater than any particular visit, the P06 (end patient account) event should be used to transmit information about the closing of an account. To indicate that a patient has expired, use an A03 event with the *PID-29-death date/time* and *PID-30-patient death indicator* filled in.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ DG1 }]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6
[{ PR1	Procedures	6
[{ROL}]	Role	12
}]		
[{ OBX }]	Observation/Result	7

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.4 ADT/ACK - register a patient (event A04)

An A04 event signals that the patient has arrived or checked in as a one-time, or recurring outpatient, and is not assigned to a bed. One example might be its use to signal the beginning of a visit to the Emergency Room. Note that some systems refer to these events as outpatient registrations or emergency admissions. *PV1-44-admit date time* is used for the visit start date/time.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
[{ NK1 }]	Next of Kin /Associated Parties	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ AL1 }]	Allergy Information	3
[{ DG1 }]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6
[{ PR1	Procedures	6
[{ROL}]	Role	12
}]		
[{ GT1 }]	Guarantor	6
[
{ IN1	Insurance	6
[IN2]	Insurance Additional Info.	6
[IN3]	Insurance Add'l Info - Cert.	6
}		
]		
[ACC]	Accident Information	6
[UB1]	Universal Bill Information	6
[UB2]	Universal Bill 92 Information	6

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ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.5 ADT/ACK - pre-admit a patient (event A05)

An A05 event is sent when a patient undergoes the pre-admission process. During this process, episode-related data is collected in preparation for a patient's visit or stay in a healthcare facility. For example, a pre-admit may be performed prior to inpatient or outpatient surgery so that lab tests can be performed prior to the surgery. This event can also be used to pre-register a non-admitted patient.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
[{ NK1 }]	Next of Kin /Associated Parties	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ AL1 }]	Allergy Information	3
[{ DG1 }]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6
[{ PR1	Procedures	6
[{ROL}]	Role	12
}]		
[{ GT1 }]	Guarantor	6
[
{ IN1	Insurance	6
[IN2]	Insurance Additional Info.	6
[IN3]	Insurance Add'l Info - Cert.	6
}		
]		
[ACC]	Accident Information	6
[UB1]	Universal Bill Information	6
[UB2]	Universal Bill 92 Information	6

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.6 ADT/ACK - change an outpatient to an inpatient (event A06)

An A06 event is sent when a patient who was present for a non-admitted visit is being admitted after an evaluation of the seriousness of the patient's condition. This event changes a patient's status from non-admitted to admitted. The new patient location should appear in *PV1-3-assigned patient location*, while the old patient location (if different) should appear in *PV1-6-prior patient location*. The new patient class should appear in *PV1-2-patient class*.

It will be left to implementation negotiation to determine whether disparate systems merely change the patient class, or close and open a new account. The current active account number should appear in *PID-18-patient account number*; the prior account number can be included optionally in *MRG-3-prior patient account number*. This arrangement is not intended to be a type of merge, but the MRG segment is used here for *MRG-3-prior patient account number*.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
[MRG]	Merge Information	3
[{ NK1 }]	Next of Kin /Associated Parties	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[DRG]	Diagnosis Related Group	6
[{ OBX }]	Observation/Result	7
[{ AL1 }]	Allergy Information	3
[{ DG1 }]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6
[{ PR1	Procedures	6
[{ROL}]	Role	12
}]		
[{ GT1 }]	Guarantor	6
[
{ IN1	Insurance	6
[IN2]	Insurance Additional Info.	6
[IN3]	Insurance Add'l Info - Cert.	6
}		
]		
[ACC]	Accident Information	6
[UB1]	Universal Bill Information	6
[UB2]	Universal Bill 92 Information	6
ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.7 ADT/ACK - change an inpatient to an outpatient (event A07)

An A07 event is sent when a patient who was admitted changes his/her status to “no longer admitted” but is still being seen for this episode of care. This event changes a patient from an “admitted” to a “non-admitted” status. The new patient location should appear in *PV1-3-assigned patient location*, while the old patient location (if different) should appear in *PV1-6-prior patient location*.

We leave it to implementation negotiation to determine whether disparate systems merely change the patient class, or close and open a new account. The current active account number should appear in field *PID-18-patient account number*; the prior account number can be included optionally in *MRG-3-prior patient account number*. This arrangement is not intended to be a type of merge. The MRG segment is only used here for *MRG-3-prior patient account number*. *PV1-19-visit number* can also be changed during this event.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

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ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
[MRG]	Merge Information	3
[{ NK1 }]	Next of Kin /Associated Parties	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[DRG]	Diagnosis Related Group	6
[{ OBX }]	Observation/Result	7
[{ AL1 }]	Allergy Information	3
[{ DG1 }]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6
[{ PR1	Procedures	6
[{ROL} }	Role	12
]]		
[{ GT1 }]	Guarantor	6
[
{ IN1	Insurance	6
[IN2]	Insurance Additional Info.	6
[IN3]	Insurance Add'l Info - Cert.	6
}		
]		
[ACC]	Accident Information	6
[UB1]	Universal Bill Information	6
[UB2]	Universal Bill 92 Information	6
ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.8 ADT/ACK - update patient information (event A08)

This trigger event is used when any patient information has changed but when no other trigger event has occurred. For example, an A08 event can be used to notify the receiving systems of a change of address or a name change. We recommend that the A08 transaction be used to update fields that are not related to any of the other trigger events. The A08 event can include information specific to an episode of care, but it can also be used for demographic information only.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
[{ NK1 }]	Next of Kin /Associated Parties	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ AL1 }]	Allergy Information	3
[{ DG1 }]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6
[{ PR1	Procedures	6
[{ROL}]	Role	12
]]		
[{ GT1 }]	Guarantor	6
[
{ IN1	Insurance	6
[IN2]	Insurance Additional Info.	6
[IN3]	Insurance Add'l Info - Cert.	6
}		
]		
[ACC]	Accident Information	6
[UB1]	Universal Bill Information	6
[UB2]	Universal Bill 92 Information	6
<hr/>		
ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.9 ADT/ACK - patient departing - tracking (event A09)

The A09 and A10 (patient arriving tracking) events are used when there is a change in a patient's physical location and when this is NOT a change in the official census bed location. There are three situations that qualify as non-census location changes: (a) patient tracking, (b) the patient is in transit between locations for some time, (c) a notification of temporary location change.

Patient tracking: This can be used when the nursing application sends a "transfer" before the Patient Administration (or official census) system issues an A02 (transfer a patient) event. If the patient has left for a non-temporary location and is not in transit, then the *PV1-3-assigned patient location* must contain the new patient location, while *PV1-6-prior patient location* must contain the old patient location.

In transit: The patient's location during the time between an A09 and an A10 (patient arriving - tracking) is defined as "in transit." The A09 event is sent when a patient departs from one area of the facility for the purpose of arriving at another area, but without leaving the healthcare institution. This event is used when there is a time span during which the patient is neither at his/her old location nor at his/her new location. This process can take some time if a patient is being sent to another area in a multi-campus or multi-facility environment. The combination of an A09 and an A10 would serve the same purpose as an A02 (transfer a patient) event, except that it accounts for a gap in time required for transport between facilities. If the patient will be in transit during the time between the A09 (patient departing - tracking) event and the A10 (patient arriving - tracking) event, then *PV1-42-pending location* is used for the new location, and *PV1-11-temporary location* and *PV1-43-prior temporary location* would not be used. *PV1-6-prior patient location* should be used for the old location.

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Temporary location: An A09 can also be used when the patient is being sent to a temporary location (such as the O/R, X-RAY, LIMBO, or HALLWAY). The patient may or may not return to the same assigned location after occupying the temporary location. If the patient is going to a temporary location (such as the O/R, X-RAY, LIMBO, or HALLWAY), then *PV1-11-temporary location* is used to indicate the new temporary location. If the patient is moving from one temporary location to another, then *PV1-43-prior temporary location* may also be used. *PV1-6-prior patient location* and *PV1-11-temporary location* should be used when the patient is moving from a permanent location to a temporary location.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

The DG1 segment remains in this message for backward compatibility only.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ DG1 }]	Diagnosis Information	6

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.10 ADT/ACK - patient arriving - tracking (event A10)

The A10 event is sent when a patient arrives at a new location in the healthcare facility. The A09 (patient departing tracking) and A10 events are used when there is a change in a patient's physical location and when this is NOT a change in the official census bed location. There are three varieties of these non-census location changes involving three different kinds of notification: (a) an unofficial notification of location change prior to the official notification of patient tracking, (b) the patient is in transit between locations for some time, (c) a notification of a temporary location change.

Patient tracking: If the patient is now at a non-temporary location and is not in transit, then *PV1-3-assigned patient location* must contain the new patient location and *PV1-6-prior patient location* can contain the old patient location.

In transit: This is used when there is some period of time between when the patient leaves his/her old location and when he/she arrives at the new assigned location. If the patient was in transit during the time between the A09 (patient departing tracking) event and the A10 (patient arriving tracking) event, then *PV1-3-assigned patient location* is used for the new location and *PV1-6-prior patient location* should be used for the old location. *PV1-11-temporary location* and *PV1-43-prior temporary location* are not used.

Temporary location: An A10 event can also be used when the patient is being transferred from a temporary location (X-RAY, O/R, LIMBO, HALLWAY) to the new assigned location. If the patient is arriving at a temporary location (such as the O/R, X-RAY, LIMBO, the HALLWAY), then *PV1-11-temporary location* would be used to indicate the new temporary location. If the patient is moving from one temporary location

to another, then *PV1-43-prior temporary location* may also be used. If the patient is arriving at a permanent location from a temporary location, *PV1-3-assigned patient location* should be used for the new location, and *PV1-43-prior temporary location* should be used for the old location.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition. *The DG1 segment remains in this message for backward compatibility only.*

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ DG1 }]	Diagnosis Information	6

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.11 ADT/ACK - cancel admit / visit notification (event A11)

For “admitted” patients, the A11 event is sent when an A01 (admit/visit notification) event is canceled, either because of an erroneous entry of the A01 event, or because of a decision not to admit the patient after all.

For “non-admitted” patients, the A11 event is sent when an A04 (register patient) event is canceled, either because of an erroneous entry of the A04 event, or because of a decision not to check the patient in for the visit after all. To cancel an A05 (pre-admit a patient) event, use the A38 (cancel pre-admit), which is new for Version 2.3 of this Standard.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition. *The DG1 segment remains in this message for backward compatibility only.*

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ DG1 }]	Diagnosis Information	6

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ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.12 ADT/ACK - cancel transfer (event A12)

The A12 event is sent when an A02 (transfer a patient) event is canceled, either because of erroneous entry of the A02 event or because of a decision not to transfer the patient after all. *PV1-3-assigned patient location* must show the location of the patient prior to the original transfer.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) even be used in addition.

The DGI segment remains in this message for backward compatibility only.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[DGI]	Diagnosis Information	6

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.13 ADT/ACK - cancel discharge / end visit (event A13)

The A13 event is sent when an A03 (discharge/end visit) event is canceled, either because of erroneous entry of the A03 event or because of a decision not to discharge or end the visit of the patient after all. *PV1-3-assigned location* should reflect the location of the patient after the cancellation has been processed. Note that this location may be different from the patient's location prior to the erroneous discharge. Prior Location could be used to show the location of the patient prior to the erroneous discharge.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
[{ NK1 }]	Next of Kin /Associated Parties	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ AL1 }]	Allergy Information	3
[{ DG1 }]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6
[{ PR1	Procedures	6
[{ROL}]	Role	12
}]		
[{ GT1 }]	Guarantor	6
[
{ IN1	Insurance	6
[IN2]	Insurance Additional Info.	6
[IN3]	Insurance Add'l Info - Cert.	6
}		
]		
[ACC]	Accident Information	6
[UB1]	Universal Bill Information	6
[UB2]	Universal Bill 92 Information	6
<hr/>		
ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.14 ADT/ACK - pending admit (event A14)

An A14 event notifies other systems of a planned admission, when there is a reservation or when patient admission is to occur imminently. The A14 event is similar to a pre-admit, but without the implication that an account should be opened for the purposes of tests prior to admission. It is used when advanced notification of an admit is required in order to prepare for the patient's arrival.

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ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
[{ NK1 }]	Next of Kin /Associated Parties	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ AL1 }]	Allergy Information	3
[{ DG1 }]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6
[{ PR1	Procedures	6
[{ROL}]	Role	12
}]		
[{ GT1 }]	Guarantor	6
[
{ IN1	Insurance	6
[IN2]	Insurance Additional Info.	6
[IN3]	Insurance Add'l Info - Cert.	6
}		
]		
[ACC]	Accident Information	6
[UB1]	Universal Bill Information	6
[UB2]	Universal Bill 92 Information	6

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.15 ADT/ACK - pending transfer (event A15)

An A15 event notifies other systems of a plan to transfer a patient to a new location when the patient has not yet left the old location. It is used when advanced notification of a transfer is required in order to prepare for the patient's location change. For example, this transaction could be sent so that orderlies will be on hand to move the patient or so that dietary services can route the next meal to the new location.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

The DG1 segment remains in this message for backward compatibility only.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ DG1 }]	Diagnosis Information	6

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.16 ADT/ACK - pending discharge (event A16)

An A16 event notifies other systems of a plan to discharge a patient when the patient has not yet left the healthcare facility. It is used when advanced notification of a discharge is required in order to prepare for the patient's change in location. For example, it is used to notify the pharmacy of the possible need for discharge drugs or to notify psychotherapy of the possible need for post-discharge appointments.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[DG1]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.17 ADT/ACK - swap patients (event A17)

The A17 is used when it is decided that two patients will exchange beds. The patient ID and visit data are repeated for the two patients changing places. See Section 3.5.1, "Swapping a patient," for a discussion of issues related to implementing this trigger event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient (1) Identification	3
[PD1]	Additional Demographics	3
PV1	Patient (1) Visit	3
[PV2]	Patient (1) Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result (1)	7
PID	Patient (2) Identification	3
[PD1]	Additional Demographics	3
PV1	Patient (2) Visit	3
[PV2]	Patient (2) Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result (2)	7

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.18 ADT/ACK - merge patient information (event A18)

Event A18 is being retained for backward compatibility. The A18 event is used to merge current and previous patient identification numbers: *PID-3-patient ID (internal ID)*, *PID-2-patient ID (external ID)*, *PID-4-alternate patient ID-PID*, and *PID-18-patient account number*. This procedure is required, for example, when a previous patient is registered under a new patient identification number because of an error, or because there was insufficient time to determine the actual patient identification number. The merge event occurs when a decision is made to combine the information under either the new or the old identifier(s). We recommend that events A34 (merge patient information-patient ID only), A35 (merge patient information-account number only), A36 (merge patient information-patient ID and account number), A39 (merge person-external ID), A40 (merge patient-internal ID), A41 (merge account-patient account number), and A42 (merge visit-visit number) be utilized in place of the A18 event whenever possible.

The PID segment contains the surviving patient ID information. The MRG segment contains the non-surviving information.

This merge event is non-specific in that, as a result of the merge, several patient identifiers may or may not have changed. For sites requiring (or desiring) greater specificity with regard to this type of message, new events (A34 (merge patient information-patient ID only), A35 (merge patient information-account number only), A36 (merge patient information-patient ID & account number), A39 (merge person-external ID), A40 (merge patient-internal ID), A41 (merge account-patient account number) and A42 (merge visit-visit number)) are now available as alternatives. See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to implementing patient merge events.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
[MRG]	Merge Information	3
PV1	Patient Visit	3

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.19 QRY/ADR - patient query (event A19)

The following trigger event is served by QRY (a query from another system) and ADR (a response from an Patient Administration system.)

Another application determines a need for Patient Administration data about a patient and sends a query to the Patient Administration system. The Who Filter in the QRD can identify the patient or account number upon which the query is defined and can contain a format code of “R” (record-oriented). If the query is based on the Patient ID and there are data associated with multiple accounts, the problem of which account data should be returned becomes an implementation issue. The ADT event-type segment, if included in the

response, describes the last event for which the Patient Administration system initiated an unsolicited update.

QRY	Patient Query	Chapter
MSH	Message Header	2
QRD	Query Definition	2
[QRF]	Query Filter	2

ADR	ADT Response	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2
QRD	Query Definition	2
[QRF]	Query Filter	2
{		
[EVN]	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
[{ NK1 }]	Next of Kin /Associated Parties	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ AL1 }]	Allergy Information	3
[{ DG1 }]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6
[{ PR1	Procedures	6
[{ ROL }]	Role	12
}]		
[{ GT1 }]	Guarantor	6
[
{		
IN1	Insurance	6
[IN2]	Insurance Additional Info.	6
[IN3]	Insurance Add'l Info - Cert.	6
}		
]		
[ACC]	Accident Information	6
[UB1]	Universal Bill Information	6
[UB2]	Universal Bill Information	6
}		
[DSC]	Continuation Pointer	2

3.2.19.1 A19 usage notes

In addition to single-patient responses, the ADT record-oriented query/response needs to support responses containing multiple patients for the following query types (by subject filter): return census for a nursing unit (ANU), return patients matching a name search (APN), and return patients for a given physician (APP).

For multiple patient responses, additional values for *QRD-3-R/U who subject definition* may be used, such as:

IP	Inpatient
OP	Outpatient
DC	Discharged

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For the ANU subject filter, the Patient Administration systems response must have some method for conveying the fact that some beds are empty (as well as for returning the data for all patients in the occupied beds). This method will function as follows:

a) Bed Full

Regular { [EVN], PID, PV1 } segment group for each patient with *PV1-40-bed status* value of "O" occupied.

b) Bed Empty

In this case, all fields in the corresponding EVN, PID, and PV1 segments are null except for the following fields in the PV1 segment.

- * *PV1-3-assigned patient location* contains the new bed location information
- * *PV1-40-bed status* contains one of the following values: U (unoccupied), H (housekeeping), or C (closed).

3.2.20 ADT/ACK - bed status update (event A20)

Certain nursing/census applications need to be able to update the Patient Administration system's bed status. The following is the associated record layout:

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
NPU	Non-Patient Update	3

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.21 ADT/ACK - patient goes on a "leave of absence" (event A21)

An A21 event is sent to notify systems that an admitted patient has left the healthcare institution temporarily. It is used for systems in which a bed is still assigned to the patient, and it puts the current admitted patient activities on hold. For example, it is used to notify dietary services and laboratory systems when the patient goes home for the weekend.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.22 ADT/ACK - patient returns from a "leave of absence" (event A22)

An A22 event is sent to notify systems that an admitted patient has returned to the healthcare institution after a temporary "leave of absence." It is used for systems in which a bed is still assigned to the patient, and it takes their current admitted patient activities off of "hold" status. For example, it is used to notify dietary services and laboratory systems when the patient returns from a weekend trip to his/her home.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.23 ADT/ACK - delete a patient record (event A23)

The A23 event is used to delete visit or episode-specific information from the patient record. For example, it is used to remove old data from a database that cannot hold all historical patient visit data. When an event was entered erroneously, use one of the cancel transactions. This event can be used to purge account-level data while retaining the person in the database.

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ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.24 ADT/ACK - link patient information (event A24)

The A24 event is used when the first PID segment needs to be linked to the second PID segment and when both patient identifiers identify the same patient. Linking two or more patients does not require the actual merging of patient information; following a link event, the affected patient data records should remain distinct. For example, this event could be used in a hospital network environment in which there are multiple campuses and in which records need to be linked. For example, hospital A, hospital B, and hospital C would each keep their own records on a patient, but an A24 link event would be sent to a corporate-wide MPI to enable the coupling of ID information with the corporate ID number. It is used for corporate data repositories, etc. This event is not meant to link mothers and babies since a field exists (*PID-21-mother's identifier*) for that purpose. See Section 3.5.3, "Patient record links," for a discussion of issues related to implementing patient link messages.

This event can also be used to link two patient identifiers when a patient changes from inpatient to outpatient, or vice versa. This event can also be used to link two visits of the same patient.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient (1) Identification	3
[PD1]	Patient (1) Additional Demographics	3
[PV1]	Patient (1) Visit	3
[{ DB1 }]	Disability Information	3
PID	Patient (2) Identification	3
[PD1]	Patient (2) Additional Demographics	3
[PV1]	Patient (2) Visit	3
[{ DB1 }]	Disability Information	3

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.25 ADT/ACK - cancel pending discharge (event A25)

The A25 event is sent when an A16 (pending discharge) event is canceled, either because of erroneous entry of the A16 event or because of a decision not to discharge the patient after all.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.26 ADT/ACK - cancel pending transfer (event A26)

The A26 event is sent when an A15 (pending transfer) event is canceled, either because of erroneous entry of the A15 event or because of a decision not to transfer the patient after all.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.27 ADT/ACK - cancel pending admit (event A27)

The A27 event is sent when an A14 (pending admit) event is canceled, either because of erroneous entry of the A14 event or because of a decision not to admit the patient after all.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.28 ADT/ACK - add person information (event A28)

The purpose of this and the three following messages is to allow sites with multiple systems and respective master patient databases to communicate activity related to a person regardless of whether that person is currently a patient on each system. Each system has an interest in the database activity of the others in order to maintain data integrity across an institution. Though they are defined within the ADT message set, these messages differ in that they are not patient-specific. To a certain registry, the person may be a person of interest, a potential future patient, or a potential guarantor. For example, these events can be used to maintain an MPI (master patient index), a cancer registry, members of a managed care plan, an HIV database, etc.

These events should not replace the use of the A01 (admit/visit notification), A03 (discharge/end visit), A04 (register a patient), A08 (update patient information), etc., events. They are not intended to be used for notification of real-time Patient Administration events. Visit information may be included but is not required. These events are primarily for demographic data, but optional historical non-demographic data may be sent as well.

The person whose data is being sent should be identified in the PID segment using the *PID-2-patient ID (external)*, even when the person is not a patient and may be a potential guarantor. An A28 establishes person identifiers, e.g., social security number, guarantor identifier, or other unique identifiers, and contains a person identifier in the *PID-2-patient ID (external)*. The person involved may or may not have active or inactive cases associated with them. When field names and descriptions say “patient,” we must translate that to “person” for these transactions. In this manner, “person information” about a guarantor can be sent independently of the guarantor’s relation to any patient.

For example, a site with separate inpatient, outpatient and medical records systems may require that each system maintain concurrent person information. Prior to an admit, the new person is added to the master database of the inpatient system, resulting in the broadcast of a message. The outpatient system receives the message and adds the person to its database with the possibility that the person may someday become a patient in its system. The medical records system receives the message and adds the person to its database with the possibility that it will track inpatient, outpatient, or clinical data for that person. The clinical repository database or MPI receives the message to keep all potential patients and guarantors in its database.

The A28 event can be used to send everything that is known about a person. For example, it can be sent to an ICU unit (in addition to the A02 (transfer a patient) event) when a patient is transferred to the ICU unit in order to backload all demographic information for the patient into the ICU system. An A28 (add person information) or A31 (update person information) can also be used for backloading MPI information for the person, or for backloading person and historical information.

In addition to adding a person to a database, the delete, update, and merge messages work in a similar manner to maintain concurrent person information. It is left up to site-specific negotiations to decide how much data must be transmitted or re-transmitted when a person becomes a patient.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
[{ NK1 }]	Next of Kin /Associated Parties	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ AL1 }]	Allergy Information	3
[{ DG1 }]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6
[{ PR1	Procedures	6
[{ROL}]	Role	12
}]		
[{ GT1 }]	Guarantor	6
[
{ IN1	Insurance	6
[IN2]	Insurance Additional Info.	6
[IN3]	Insurance Add'l Info - Cert.	6
}		
]		
[ACC]	Accident Information	6
[UB1]	Universal Bill Information	6
[UB2]	Universal Bill 92 Information	6
<hr/>		
ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.29 ADT/ACK - delete person information (event A29)

An A29 event can be used to delete all demographic information related to a given person. This event “undoes” an A28 (add person information) event. The information from the A28 event is deleted. This event is used, for example, when adding the information was performed in error, or when another record already exists for the person, or one wants to purge the person from the database. When this event occurs, all visit and account level data for this person is also purged.

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ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.30 ADT/ACK - merge person information (event A30)

Event A18 is being retained for backward compatibility. An A30 event can be used to merge person information on an MPI. The A34 (merge patient information-patient ID only), A35 (merge patient information-account number only), A36 (merge patient information-patient ID & account number), A40 (merge patient-internal ID), A41(merge account-patient account number) and A42 (merge visit-visit number)events should be used to merge patient information for a current episode. The “incorrect MRN” identified on the MRG segment (*MRG-1-prior patient ID-internal*) is to be merged with the “correct MRN” identified on the PID segment (*PID-3-patient ID (internal ID)*). The “incorrect MRN” then no longer exists. All PID data associated with the “correct MRN” are treated as updated information.

The MRNs involved may or may not have active or inactive cases associated with them. Any episode of care that was previously associated with the “incorrect MRN” is now associated with the “correct MRN.” A list of these cases is not provided.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

An A30 (merge person information) is intended for merging person records without merging patient identifiers.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.31 ADT/ACK - update person information (event A31)

An A31 event can be used to update person information on an MPI. It is similar to an A08 (update patient information) event, but an A08 (update patient information) event should be used to update patient

information for a current episode. An A28 (add person information) or A31 can also be used for backloading MPI information for the person, or for backloading person and historical information.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
[{ NK1 }]	Next of Kin /Associated Parties	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ AL1 }]	Allergy Information	3
[{ DG1 }]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6
[{ PR1	Procedures	6
{ [ROL]}]	Role	12
}]		
[{ GT1 }]	Guarantor	6
[
{ IN1	Insurance	6
[IN2]	Insurance Additional Info.	6
[IN3]	Insurance Add'l Info - Cert.	6
}]		
]		
[ACC]	Accident Information	6
[UB1]	Universal Bill Information	6
[UB2]	Universal Bill 92 Information	6
<hr/>		
ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.32 ADT/ACK - cancel patient arriving - tracking (event A32)

The A32 event is sent when an A10 (patient arriving-tracking) event is canceled, either because of erroneous entry of the A10 event or because of a decision not to receive the patient after all.

If the patient was in a non-temporary location, then the *PV1-3-assigned patient location* may contain (if known) the original patient location prior to the erroneous A10 (patient arriving-tracking) event. If the patient was in a temporary location, then *PV1-11-temporary location* may contain (if known) the original patient location prior to the erroneous A10 (patient arriving-tracking) event.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

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ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.33 ADT/ACK - cancel patient departing - tracking (event A33)

The A33 event is sent when an A09 (patient departing-tracking) event is canceled, either because of erroneous entry of the A09 event or because of a decision not to send the patient after all.

If the patient was in a non-temporary location, then *PV1-3-assigned patient location* must contain the original patient location prior to the erroneous A09 (patient departing-tracking) event. If the patient was in a temporary location, then *PV1-11-temporary location* must contain the original patient location prior to the erroneous A09 (patient departing-tracking) event.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.34 ACK/ADT - merge patient information - patient ID only (event A34)

Event A18 is being retained for backward compatibility. Only *PID-3-patient ID (internal ID)* has changed as a result of the merge. See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of merge messages.

An A34 (merge patient information-patient ID only) event is intended for merging or changing patient identifiers. It would be used to change patient identifiers on all of this patient’s existing accounts.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error Information	2

3.2.35 ADT/ACK - merge patient information - account number only (event A35)

Event A18 is being retained for backward compatibility. Only the patient account number has changed as a result of the merge. See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of merge messages.

An A35 (merge patient information-account number only) event is intended for merging or changing an account number only.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.36 ADT/ACK - merge patient information - patient ID & account number (event A36)

Event A18 is being retained for backward compatibility. Both the patient identification-internal and the patient account number have changed as a result of the merge. See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of merge messages.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3

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ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.37 ADT/ACK - unlink patient information (event A37)

The A37 event unlinks two PID segments previously linked with an A24 (link patient information) event.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient (1) Identification	3
[PD1]	Additional Demographics	3
[PV1]	Patient (1) Visit	3
[{ DB1 }]	Disability Information	3
PID	Patient (2) Identification	3
[PV1]	Patient (2) Visit	3
[{ DB1 }]	Disability Information	3

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.38 ADT/ACK - cancel pre-admit (event A38)

The A38 event is sent when an A05 (pre-admit a patient) event is canceled, either because of erroneous entry of the A05 event or because of a decision not to pre-admit the patient after all.

The fields included when this message is sent should be the fields pertinent to communicate this event. When other important fields change, it is recommended that the A08 (update patient information) event be used in addition.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
PV1	Patient Visit	3
[PV2]	Patient Visit - Additional Info.	3
[{ DB1 }]	Disability Information	3
[{ OBX }]	Observation/Result	7
[{ DG1 }]	Diagnosis Information	6
[DRG]	Diagnosis Related Group	6

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.39 ADT/ACK - merge person - external ID (event A39)

A merge has been done at the external identifier level. That is, two *PID-2-patient ID (external ID)* identifiers have been merged into one.

An A39 event is used to signal a merge of records for a person that was incorrectly filed under two different external IDs. The “incorrect source external ID” identified in the MRG *segment (MRG-4-prior patient ID-external)* is to be merged with the required “correct target external ID” identified in the PID segment (*PID-2-patient ID (external ID)*). The “incorrect source external ID” would then logically never be referenced in future transactions. It is noted that some systems may still physically keep this “incorrect identifier” for audit trail purposes or other reasons associated with database index implementation requirements.

Since this event is a merge at the *PID-2-patient ID (external ID)* identifier level, *PID-3-patient ID (internal ID)* and *MRG-1-prior patient ID-internal ID* are not required.

The external IDs involved in identifying the persons may or may not be patients, who may or may not have accounts, which may or may not have visits. An A39 (merge person-external ID) event is intended for merging person records without merging other subordinate identifiers. Any other subordinate identifiers that were previously associated with the “incorrect source external ID” are now associated with the “correct target external ID.” Specification of these other subordinate identifiers is not required.

This event and the message syntax do, however, allow for the specification of “new subordinate identifiers” (in addition to the *PID-2-patient ID (external ID)* identifier). For those environments that may require changes to these other subordinate identifiers because of an A39 (merge person-external ID), it is required that the old and new identifiers be a “tightly coupled” pair.

See section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of merge messages.

All data associated with the “correct target external ID” are treated as updated information.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
{ PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3
[PV1]	Patient Visit	3
}		

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.40 ADT/ACK - merge patient - internal ID (event A40)

A merge has been done at the internal identifier level. That is, two *PID-3-patient ID (internal ID)* identifiers have been merged into one.

An A40 event is used to signal a merge of records for a patient that was incorrectly filed under two different internal IDs. The “incorrect source internal ID” identified in the MRG segment (*MRG-1-prior patient ID (internal)*) is to be merged with the required “correct target internal ID” of the same “identifier type code” component identified in the PID segment (*PID-3-patient ID (internal ID)*). The “incorrect source internal ID” would then logically never be referenced in future transactions. It is noted that some systems may still physically keep this “incorrect identifier” for audit trail purposes or other reasons associated with database index implementation requirements.

The internal IDs involved in identifying the patients may or may not have accounts, which may or may not have visits. An A40 (merge patient-internal ID) event is intended for merging patient records without merging other subordinate identifiers. Any other subordinate identifiers that were previously associated with the “incorrect source internal ID” are now associated with the “correct target internal ID”. Specification of these other subordinate identifiers is not required.

This event and the message syntax do, however, allow for the specification of any other “new subordinate identifiers” (in addition to the *PID-3-patient ID (internal ID)* identifier). For those environments that may require changes to these other subordinate identifiers because of the A40 (merge patient-internal ID) event, it is required that the old and new identifiers be a “tightly coupled” pair.

Each superior identifier associated with this internal identifier level should have the same value in both the PID and MRG segments.

See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of merge messages.

All data associated with the “correct target internal ID” are treated as updated information.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
{ PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3
[PV1]	Patient Visit	3
}		
<hr/>		
ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.41 ADT/ACK - merge account - patient account number (event A41)

A merge has been done at the account identifier level. That is, two *PID-18-patient account number* identifiers have been merged into one.

An A41 event is used to signal a merge of records for an account that was incorrectly filed under two different account numbers. The “incorrect source patient account number” identified in the MRG segment

(*MRG-3-prior patient account number*) is to be merged with the “correct target patient account number” identified in the PID segment (*PID-18-patient account number*). The “incorrect source patient account number” would then logically never be referenced in future transactions. It is noted that some systems may still physically keep this “incorrect identifier” for audit trail purposes or other reasons associated with database index implementation requirements.

The patient account numbers involved may or may not have visits. An A41 (merge account-patient account number) is intended for merging account records without merging other subordinate identifiers. Any other subordinate identifiers that were previously associated with the “incorrect source account number” are now associated with the required “correct target account number.” Specification of these other subordinate identifiers is not required.

This event and the message syntax do, however, allow for the specification of any other “new subordinate identifiers” (in addition to the *PID-18-patient account number* identifier). For those environments that may require changes to these other subordinate identifiers because of this A41 (merge account-patient account number) event, it is required that the old and new identifiers be a “tightly coupled” pair.

Each superior identifier associated with this account identifier level should have the same value in both the PID and MRG segments.

See Section 3.5.23.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of merge messages.

All data associated with the “correct target account number” are treated as updated information.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
{ PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3
[PV1]	Patient Visit	3
}		
ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.42 ADT/ACK - merge visit - visit number (event A42)

A merge has been done at the visit identifier level. That is, two *PV1-19-visit number* identifiers have been merged into one.

An A42 event is used to signal a merge of records for a visit that was incorrectly filed under two different visit numbers. The “incorrect source visit number” identified in the MRG segment (*MRG-5-prior visit number*) is to be merged with the required “correct target visit number” identified in the PV1 segment (*PV1-19-visit number*). The “incorrect source visit number” would then logically never be referenced in future transactions. It is noted that some systems may still physically keep this “incorrect identifier” for audit trail purposes or other reasons associated with database index implementation requirements.

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An A42 (merge visit-visit number) event is intended for merging visit records without merging other identifiers. Any other identifiers that were previously associated with the “incorrect source visit number” are now associated with the “correct target visit number.”

Each superior identifier associated with this visit identifier level should have the same value in the PID and MRG segments, or the MRG and PV1 segments, as appropriate.

See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of merge messages.

All data associated with the “correct target visit number” are treated as updated information.

<u>ADT</u>	<u>ADT Message</u>	<u>Chapter</u>
MSH	Message Header	2
EVN	Event Type	3
{ PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3
[PV1]	Patient Visit	3
}		
<u>ACK</u>	<u>General Acknowledgment</u>	<u>Chapter</u>
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.43 ADT/ACK - move patient information - internal ID (event A43)

A move has been done at the internal identifier level. That is, a *PID-3-patient ID (internal ID)* associated with one external identifier (*PID-2-patient ID-external ID*) has been moved to another external identifier.

An A43 event is used to signal a move of records identified by the *MRG-1-prior patient ID-Internal* from the “incorrect source external identifier” identified in the MRG segment (*MRG-4-prior patient ID-external*) to the “correct target external identifier” identified in the PID segment (*PID-2-patient ID-external ID*).

The internal ID involved in identifying the patient to be moved (*MRG-1-prior patient ID-internal*) may or may not have accounts, which may or may not have visits. In any case, all subordinate data sets associated with the internal ID in *MRG-1-prior patient ID-internal* are moved along with the internal ID, from the “incorrect source external ID” (*MRG-4-prior patient ID-external*) to the “correct target external ID” (*PID-2-patient ID-external ID*).

No identifiers subordinate to the internal ID (account number, visit number, alternate visit ID) are valued in this message. Specification of these other subordinate identifiers is not required.

This event and the message syntax do, however, allow for the specification of a “new identifier” (*PID-3-patient ID-internal ID*), which may be application and/or implementation specific and therefore require site negotiation.

All the identifiers superior to the internal ID should be valued in both the MRG segment and the PID segment. In this message, the external ID is superior to the internal id.

See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of move messages.

The fields included when this message is sent should be the fields pertinent to communicate this event. When demographic data in other fields change, it is recommended that the A08 (update patient information) event be used in conjunction with this message. However, all PID data associated with the “correct target internal ID” (*PID-3-patient ID -internal ID*)) are treated as updated information.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
{ PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3
}		
ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.44 ADT/ACK - move account information - patient account number (event A44)

A move has been done at the account identifier level. That is, a *PID-18-patient ID (account number)* associated with one internal identifier (*PID-3-patient ID (internal ID)*) has been moved to another internal identifier.

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An A44 event is used to signal a move of records identified by the *MRG-3-prior patient account number* from the “incorrect source internal identifier” identified in the MRG segment (*MRG-1-prior patient ID-internal*) to the “correct target internal identifier” identified in the PID segment (*PID-3-patient ID internal ID*).

The account number involved in identifying the account to be *moved* (*MRG-3-prior patient account number*) may or may not have visits. In any case, all subordinate data sets associated with the account number in *MRG-3-prior patient account number* are moved along with the account number, from the “incorrect source internal” ID (*MRG-1-prior patient ID-internal*) to the “correct target internal” ID (*PID-3-patient ID -internal ID*).

No identifiers subordinate to the account number (visit number, alternate visit ID) are valued in this message.

This event and the message syntax do, however, allow for the specification of a “new identifier” (*PID-18-patient account number*), which may be application and/or implementation-specific and therefore require site negotiation.

All the identifiers superior to the account number should be valued in both the MRG segment and the PID segment. In this message, the internal ID and the external ID are superior to the account number.

See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of move messages.

The fields included when this message is sent should be the fields pertinent to communicate this event. When demographic data in other fields change, it is recommended that the A08 (update patient information) event be used in conjunction with this message. However, all PID data associated with the “account number” are treated as updated information.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
{ PID	Patient Identification	3
[PDI]	Additional Demographics	3
MRG	Merge Information	3
}		

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.45 ADT/ACK - move visit information - visit number (event A45)

A move has been done at the visit identifier level. That is, a *PV1-19-visit number* or *PV1-50-alternate visit ID* associated with one account identifier (*PID-18-account number*) has been moved to another account identifier.

An A45 event is used to signal a move of records identified by the *MRG-5-prior visit number* or the *MRG-6-prior alternate visit ID* from the “incorrect source account identifier” identified in the MRG segment (*MRG-3-prior patient account number*) to the “correct target account identifier” identified in the PID segment (*PID-18-patient account number*).

This event and the message syntax do allow for the specification of “new identifiers” (*PV1-19-visit number*, or *PV1-50-alternate visit ID*), which may be application and/or implementation-specific and therefore require site negotiation.

All the identifiers superior to the visit number or alternate visit ID should be valued in both the MRG segment and the PID segment. In this message, the account number, internal ID and external ID are superior to the visit number and alternate visit ID.

See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of move messages.

The fields included when this message is sent should be the fields pertinent to communicate this event. When demographic data in other fields change, it is recommended that the A08 (update patient information) event be used in conjunction with this message. However, all PID data associated with the “correct target visit ID” are treated as updated information.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
{ MRG	Merge Information	3
PV1	Patient Visit	3
}		
ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.46 ADT/ACK - change external ID (event A46)

A change has been done at the external identifier level. That is, a *PID-2-patient ID (external ID)* has been found to be incorrect and has been changed.

An A46 event is used to signal a change of an incorrectly assigned external ID value. The “incorrect source external ID” value is stored in the MRG segment (*MRG-4-prior patient ID-external*) and is to be changed to the “correct target external ID” value stored in the PID segment (*PID-2-patient ID-external*).

The external ID involved in identifying the person may or may not represent a patient, who may or may not have accounts, which may or may not have visits. An A46 (change external ID) event is intended for changing the value of the external identifier without affecting other subordinate identifiers. Any other subordinate identifiers that were previously associated with the “incorrect source external ID” are now associated with the “correct target external ID.” Specification of these other subordinate identifiers is not required to be provided.

This event and the message syntax do, however, allow for the specification of “new subordinate identifiers” (in addition to the *PID-2-patient ID(external ID)* identifier). For those environments that may require changes to these other subordinate identifiers because of this A46 (change external ID) event, it is required that the old and new identifiers be a “tightly coupled” pair.

Since this event is a change at the *PID-2-patient ID (external ID)* identifier level, *PID-3-patient ID (internal ID)* and *MRG-1-prior patient ID-internal ID* are not required.

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See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of change messages.

The fields included when this message is sent should be the fields pertinent to communicate this event. When demographic data in other fields change, it is recommended that the A31 (update person information) event be used in conjunction with this message. However, all PID data associated with the new External ID are treated as updated information.

<u>ADT</u>	<u>ADT Message</u>	<u>Chapter</u>
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3

<u>ACK</u>	<u>General Acknowledgment</u>	<u>Chapter</u>
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.47 ADT/ACK - change internal ID (event A47)

A change has been done at the internal identifier level. That is, a *PID-3-patient ID (internal ID)* has been found to be incorrect and has been changed.

An A47 event is used to signal a change of an incorrectly assigned internal ID value. The “incorrect source internal ID” value is stored in the MRG segment (*MRG-1-prior patient ID-internal*) and is to be changed to the “correct target external ID” value stored in the PID segment (*PID-3-patient ID (internal ID)*).

The internal ID involved in identifying the patient may or may not have accounts, which may or may not have visits. An A47 (change internal ID) event is intended for changing the value of the internal identifier without affecting other subordinate identifiers. Any other subordinate identifiers that were previously associated with the “incorrect source internal ID” are now associated with the “correct target internal ID.” Specification of these other subordinate identifiers is not required.

This event and the message syntax do, however, allow for the specification of “new subordinate identifiers” (in addition to the *PID-3-patient ID (internal ID)* identifier). For those environments that may require changes to these other subordinate identifiers because of this A47 (change internal ID) event, it is required that the old and new identifiers be a “tightly coupled” pair.

Each superior identifier associated with this internal identifier level should have the same value in both the PID and MRG segments.

See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of change messages.

The fields included when this message is sent should be the fields pertinent to communicate this event. When demographic data in other fields change, it is recommended that the A08 (update patient information) event be used in conjunction with this message. However, all PID data associated with the “correct target internal ID” are treated as updated information.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.48 ADT/ACK - change alternate patient ID (event A48)

A change has been done at the alternate patient identifier level. That is, a *PID-4-alternate patient ID* has been found to be incorrect and has been changed.

An A48 event is used to signal a change of an incorrectly assigned alternate patient identifier value. The “incorrect source alternate patient ID” value is stored in the MRG segment (*MRG-2-prior alternate patient*

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ID) and is to be changed to the “correct target alternate patient ID” value stored in the PID segment (*PID-4-alternate patient ID-PID*).

The alternate patient ID involved in identifying the patient may or may not have accounts, which may or may not have visits. An A48 (change alternate patient ID) event is intended for changing the value of the alternate patient identifier without affecting other subordinate identifiers. Any other subordinate identifiers that were previously associated with the “incorrect source alternate patient ID” are now associated with the “correct target alternate patient ID.” Specification of these other subordinate identifiers is not required.

This event and the message syntax do, however, allow for the specification of “new subordinate identifiers” (in addition to the *PID-4-alternate patient ID* identifier). For those environments that may require changes to these other subordinate identifiers because of this A48 (change alternate patient ID) event, it is required that the old and new identifiers be a “tightly coupled” pair.

Each superior identifier associated with this alternate patient identifier level should have the same value in both the PID and MRG segments.

See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of change messages.

The fields included when this message is sent should be the fields pertinent to communicate this event. When demographic data in other fields change, it is recommended that the A08 (update patient information) event be used in conjunction with this message. However, all PID data associated with the “correct target alternate ID” are treated as updated information.

<u>ADT</u>	<u>ADT Message</u>	<u>Chapter</u>
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3

<u>ACK</u>	<u>General Acknowledgment</u>	<u>Chapter</u>
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.49 ADT/ACK - change patient account number (event A49)

A change has been done at the account identifier level. That is, a *PID-18-patient account number* has been found to be incorrect and has been changed.

An A49 event is used to signal a change of an incorrectly assigned account number value. The “incorrect source account number” value is stored in the MRG segment (*MRG-3-prior patient account number*) and is to be changed to the “correct target account number” value stored in the PID segment (*PID-18-patient account number*).

The patient account identifier involved in identifying the account may or may not have visits. An A49 (change patient account number) event is intended for changing the value of the account identifier without affecting other subordinate identifiers. Any other subordinate identifiers that were previously associated with the “incorrect source account number” are now associated with the “correct target account number”. Specification of these other subordinate identifiers is not required.

This event and the message syntax do, however, allow for the specification of “new subordinate identifiers” (in addition to the *PID-18-patient account number* identifier). For those environments that may require changes to these other subordinate identifiers because of this A49 (change patient account number) event, it is required that the old and new identifiers be a “tightly coupled” pair.

Each superior identifier associated with this account identifier level should have the same value in both the PID and MRG segments.

See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of change messages.

The fields included when this message is sent should be the fields pertinent to communicate this event. When demographic data in other fields change, it is recommended that the A08 (update patient information) event be used in conjunction with this message. However, all PID data associated with the “correct target account number” are treated as updated information.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3
ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error Information	2

3.2.50 ADT/ACK - change visit number (event A50)

A change has been done at the visit identifier level. That is, a *PV1-19-visit number* has been found to be incorrect and has been changed.

An A50 event is used to signal a change of an incorrectly assigned visit number value. The “incorrect source visit number” value is stored in the MRG segment (*MRG-5-prior visit number*) and is to be changed to the “correct target visit number” value stored in the PV1 segment (*PV1-19-visit number*).

Each superior identifier associated with this visit number identifier level should have the same value in both the PID and MRG segments.

See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of change messages.

The fields included when this message is sent should be the fields pertinent to communicate this event. When demographic data in other fields change, it is recommended that the A08 (update patient information) event be used in conjunction with this message. However, all PV1 data associated with the “Visit Number” are treated as updated information.

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ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3
PV1	Patient Visit	3

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.2.51 ADT/ACK - change alternate visit ID (event A51)

A change has been done at the alternate visit identifier level. That is, a *PV1-50-alternate visit ID* has been found to be incorrect and has been changed.

An A51 event is used to signal a change of an incorrectly assigned alternate visit ID value. The “incorrect source alternate visit ID” value is stored in the MRG segment (*MRG-6-prior alternate visit ID*) and is to be changed to the “correct target alternate visit ID” value stored in the PV1 segment (*PV1-50-alternate visit ID*).

Each superior identifier associated with this alternate visit identifier level should have the same value in both the PID and MRG segments.

See Section 3.5.2, “Merging patient/person information,” for a discussion of issues related to the implementation of change messages.

The fields included when this message is sent should be the fields pertinent to communicate this event. When demographic data in other fields change, it is recommended that the A08 (update patient information) event be used in conjunction with this message. However, all PV1 data associated with the “correct target alternate visit number” are treated as updated information.

ADT	ADT Message	Chapter
MSH	Message Header	2
EVN	Event Type	3
PID	Patient Identification	3
[PD1]	Additional Demographics	3
MRG	Merge Information	3
PV1	Patient Visit	3

ACK	General Acknowledgment	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error	2

3.3 MESSAGE SEGMENTS

3.3.1 EVN - event type segment

The EVN segment is used to communicate necessary trigger event information to receiving applications. Valid event types for all chapters are contained in *HL7 table 0003 - Event type*.

Figure 3-1. EVN attributes

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME
1	3	ID	B		0003	00099	Event Type Code
2	26	TS	R			00100	Recorded Date/Time
3	26	TS	O			00101	Date/Time Planned Event
4	3	IS	O		0062	00102	Event Reason Code
5	60	XCN	O		0188	00103	Operator ID
6	26	TS	O			01278	Event Occurred

3.3.1.0 EVN field definitions

3.3.1.1 Event type code (ID) 00099

Definition: ***This field has been retained for backward compatibility only.*** We recommend using the second component (trigger event) of *MSH-9-message type* to transmit event type code information. This field contains the events corresponding to the trigger events described in this section, e.g., admission, transfer, or registration. Refer to Chapter 2, *HL7 table 0003 - Event type* for valid values.

3.3.1.2 Recorded Date/time (TS) 00100

Definition: Most systems will default to the system date/time when the transaction was entered, but they should also permit an override.

3.3.1.3 Date/time planned event (TS) 00101

Definition: This field contains the date/time that the event is planned. We recommend that the *PV2-expected admit date* and *PV2-9-expected discharge date* be used whenever possible.

3.3.1.4 Event reason code (IS) 00102

Definition: This field contains the reason for this event (e.g., patient request, physician order, census management, etc.). Refer to *user-defined table 0062 - Event reason* for suggested values.

User-defined Table 0062 - Event reason

<u>Value</u>	<u>Description</u>
01	Patient request
02	Physician order
03	Census management

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3.3.1.5 Operator ID (XCN) 00103

Components: <ID number (ST)> ^ <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <source table (IS)> ^ <assigning authority (HD)> ^ <name type code (ID)> ^ <identifier check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field identifies the individual responsible for triggering the event. Refer to *user-defined table 0188 - Operator ID* for suggested values.

3.3.1.6 Event occurred (TS) 01278

Definition: This field contains the date/time that the event actually occurred. For example, on a transfer (A02 (transfer a patient)), this field would contain the date/time the patient was actually transferred. On a cancellation event, this field should contain the date/time that the event being canceled occurred.

3.3.2 PID - patient identification segment

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.

Figure 3-2. PID attributes

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME
1	4	SI	O			00104	Set ID - Patient ID
2	20	CX	O			00105	Patient ID (External ID)
3	20	CX	R	Y		00106	Patient ID (Internal ID)
4	20	CX	O	Y		00107	Alternate Patient ID - PID
5	48	XPN	R	Y		00108	Patient Name
6	48	XPN	O			00109	Mother's Maiden Name
7	26	TS	O			00110	Date/Time of Birth
8	1	IS	O		0001	00111	Sex
9	48	XPN	O	Y		00112	Patient Alias
10	1	IS	O		0005	00113	Race
11	106	XAD	O	Y		00114	Patient Address
12	4	IS	B			00115	County Code
13	40	XTN	O	Y		00116	Phone Number - Home
14	40	XTN	O	Y		00117	Phone Number - Business
15	60	CE	O		0296	00118	Primary Language
16	1	IS	O		0002	00119	Marital Status
17	3	IS	O		0006	00120	Religion
18	20	CX	O			00121	Patient Account Number
19	16	ST	O			00122	SSN Number - Patient
20	25	DLN	O			00123	Driver's License Number - Patient
21	20	CX	O	Y		00124	Mother's Identifier
22	3	IS	O		0189	00125	Ethnic Group
23	60	ST	O			00126	Birth Place
24	2	ID	O		0136	00127	Multiple Birth Indicator
25	2	NM	O			00128	Birth Order
26	4	IS	O	Y	0171	00129	Citizenship
27	60	CE	O		0172	00130	Veterans Military Status
28	80	CE	O			00739	Nationality
29	26	TS	O			00740	Patient Death Date and Time
30	1	ID	O		0136	00741	Patient Death Indicator

3.3.2.0 PID field definitions

3.3.2.1 Set ID - patient ID (SI) 00104

Definition: This field contains the number that identifies this transaction. For the first occurrence of the segment, the sequence number shall be one, for the second occurrence, the sequence number shall be two, etc.

3.3.2.2 Patient ID (external ID) (CX) 00105

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: When the patient is from another institution, outside office, etc., the identifier used by that institution can be shown in this field. This may be a number that multiple disparate corporations or facilities share. Refer to *HL7 table 0061 - Check digit scheme* in Chapter 2.

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3.3.2.3 Patient ID (internal ID) (CX) 00106

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^
<assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the primary identifier, or other identifiers used by the facility to identify a patient uniquely (e.g., medical record number, billing number, birth registry, etc.). Refer to *HL7 table 0061 - Check digit scheme* for valid values.

When merging patient IDs (A34 (merge patient information-patient ID only) and A36 (merge patient information-patient ID & account number) events), the Patient ID contained in the PID segment cannot repeat.

3.3.2.4 Alternate patient ID - PID (CX) 00107

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^
<assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the alternate, temporary, or pending optional patient identifier to be used if needed - or additional numbers that may be required to identify a patient. This field may be used to convey multiple patient IDs when more than one exist for a patient. Possible contents might include a visit number, a visit date, or a Social Security Number.

3.3.2.5 Patient name (XPN) 00108

Components: <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or
III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <name type code (ID) >

Definition: This field contains the legal name of the patient. All other names for the patient should be sent in *PID-9-patient alias*. Therefore, the name type code in this field should be "L - Legal." Refer to *HL7 table 0200 Name type code* for valid values. Repetition of this field is allowed for representing the same name in different character sets. Please refer to the PN data type.

3.3.2.6 Mother's maiden name (XPN) 00109

Components: <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or
III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <name type code (ID) >

Definition: This field contains the family name under which the mother was born (i.e., before marriage). It is used to distinguish between patients with the same last name.

3.3.2.7 Date/Time of birth (TS) 00110

Definition: This field contains the patient's date and time of birth.

3.3.2.8 Sex (IS) 00111

Definition: This field contains the patient's sex. Refer to *user-defined table 0001 - Sex* for suggested values.

User-defined Table 0001 - Sex

<u>Value</u>	<u>Description</u>
F	Female
M	Male
O	Other
U	Unknown

3.3.2.9 Patient alias (XPN) 00112

Components: <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <name type code (ID) >

Definition: This field contains the name(s) by which the patient has been known at some time. Refer to *HL7 table 0200 - Name type* for valid values.

3.3.2.10 Race (IS) 00113

Definition: This field refers to the patient's race. Refer to *user-defined table 0005 - Race* for suggested values.

3.3.2.11 Patient address (XAD) 00114

Components: <street address (ST)> ^ <other designation (ST)> ^ <city (ST)> ^ <state or province (ST)> ^ <zip or postal code (ST)> ^ <country (ID)> ^ <address type (ID)> ^ <other geographic designation (ST)> ^ <county/parish code (IS)> ^ <census tract (IS)>

Definition: This field contains the mailing address of the patient. Address type codes are user defined. Multiple addresses for the same person may be sent in the following sequence: The primary mailing address must be sent first in the sequence (for backward compatibility); if the mailing address is not sent, then a repeat delimiter must be sent in the first sequence.

3.3.2.12 County code (IS) 00115

Definition: ***This field has been retained for backward compatibility.*** This field contains the patient's county code. The county can now be supported in the county/parish code component of the XAD data type (*PID-11-patient address*). Refer to *user-defined table 0289 - County/parish* for suggested values.

3.3.2.13 Phone number - home (XTN) 00116

Components: [NNN] [(999)]999-9999 [X99999] [B99999] [C any text] ^ <telecommunication use code (ID)> ^ <telecommunication equipment type (ID)> ^ <email address (ST)> ^ <country code (NM)> ^ <area/city code (NM)> ^ <phone number (NM)> ^ <extension (NM)> ^ <any text (ST)>

Definition: This field contains the patient's personal phone numbers. All personal phone numbers for the patient are sent in the following sequence. The first sequence is considered the primary number (for backward compatibility). If the primary number is not sent, then a repeat delimiter is sent in the first sequence. Refer to *HL7 tables 0201 - Telecommunication use code and 0202 - Telecommunication equipment type* for valid values.

3.3.2.14 Phone number - business (XTN) 00117

Components: [NNN] [(999)]999-9999 [X99999] [B99999] [C any text] ^ <telecommunication use code (ID)> ^ <telecommunication equipment type (ID)> ^ <email address (ST)> ^ <country code (NM)> ^ <area/city code (NM)> ^ <phone number (NM)> ^ <extension (NM)> ^ <any text (ST)>

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Definition: This field contains the patient's business telephone numbers. All business numbers for the patient are sent in the following sequence. The first sequence is considered the patient's primary business phone number (for backward compatibility). If the primary business phone number is not sent, then a repeat delimiter must be sent in the first sequence. Refer to *HL7 tables 0201 - Telecommunication use code and 0202 - Telecommunication equipment type* for valid values.

3.3.2.15 Primary language (CE) 00118

Components: <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^ <alternate text (ST)> ^ <name of alternate coding system (ST)>

Definition: This field contains the patient's primary language. HL7 recommends using ISO table 639 as the suggested values in *user-defined table 0296 - Language*.

3.3.2.16 Marital status (IS) 00119

Definition: This field contains the patient's marital status. Refer to *user-defined table 0002 - Marital status* for suggested values.

User-defined Table 0002 - Marital status

<u>Value</u>	<u>Description</u>
A	Separated
D	Divorced
M	Married
S	Single
W	Widowed

3.3.2.17 Religion (IS) 00120

Definition: This field contains the patient's religion. Refer to *user-defined table 0006 - Religion* for suggested values.

3.3.2.18 Patient account number (CX) 00121

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the patient account number assigned by accounting to which all charges, payments, etc., are recorded. It is used to identify the patient's account. Refer to *HL7 table 0061 - Check digit scheme* in Chapter 2.

3.3.2.19 SSN number - patient (ST) 00122

Definition: This field contains the patient's social security number. This number may also be an RR retirement number.

3.3.2.20 Driver's license number - patient (DLN) 00123

Components: <license number (ST)> ^ <issuing state, province, country (IS)> ^ <expiration date (DT)>

Definition: This field contains the patient's driver's license number. Some sites may use this number as a unique identifier of the patient. The default of the second component is the state in which the patient's license is registered.

3.3.2.21 Mother's identifier (CX) 00124

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field is used, for example, as a link field for newborns. Typically a patient ID or account number may be used. This field can contain multiple identifiers for the same mother. Refer to *HL7 table 0061 - Check digit scheme* as defined in Chapter 2.

3.3.2.22 Ethnic group (IS) 00125

Definition: This field further defines the patient's ancestry. Refer to *user-defined table 0189 - Ethnic group* for suggested values. ERISA has a published list of ethnic classifications that may be used by local agreement at a site.

3.3.2.23 Birth place (ST) 00126

Definition: This field indicates the location of the patient's birth.

3.3.2.24 Multiple birth indicator (ID) 00127

Definition: This field indicates whether the patient was part of a multiple birth. Refer to *HL7 table 0136 - Yes/No indicator* as described in Chapter 2.

3.3.2.25 Birth order (NM) 00128

Definition: When a patient was part of a multiple birth, a value (number) indicating the patient's birth order is entered in this field.

3.3.2.26 Citizenship (IS) 00129

Definition: This field contains the patient's country of citizenship. HL7 recommends using ISO table 3166 as the suggested values in *user-defined table 0171 - Citizenship*.

3.3.2.27 Veterans military status (CE) 00130

Components: <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^ <alternate text (ST)> ^ <name of alternate coding system (ST)>

Definition: This field contains the military status assigned to a veteran. Refer to *user-defined table 0172 - Veterans military status* for suggested values.

3.3.2.28 Nationality (CE) 00739

Components: <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^ <alternate text (ST)> ^ <name of alternate coding system (ST)>

Definition: This field contains a code that identifies the nation or national grouping to which the insured person belongs. This information may be different from a person's citizenship in countries in which multiple

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nationalities are recognized (for example, Spain: Basque, Catalan, etc.). HL7 recommends using ISO table 3166 as he suggested values in *user-defined table 0212 - Nationality*.

3.3.2.29 Patient death date and time (TS) 00740

Definition: This field contains the date and time at which the patient death occurred.

3.3.2.30 Patient death indicator (ID) 00741

Definition: This field indicates whether or not the patient is deceased. Refer to Chapter 2, *HL7 table 0136 - Yes/no indicator* for valid values.

3.3.2.31 Usage notes: PID patient identification

The assigning facility ID, the fourth component of the patient identifiers, is a string of up to six characters that is uniquely associated with the facility that originally assigned the number. A given institution, or group of intercommunicating institutions, should establish a list of facilities that may be potential assignors of patient identification (and other important identification) numbers. The list will be one of the institution's master dictionary lists. Since third parties (other than the assignors of patient identification numbers) may send or receive HL7 messages containing patient identification numbers, the assigning facility ID in the patient identification numbers may not be the same as the sending and receiving systems identified in the MSH. The assigning facility ID must be unique across applications at a given site. This field is required in HL7 implementations that have more than a single Patient Administration application assigning such numbers.

3.3.3 PV1 - patient visit segment

The PV1 segment is used by Registration/Patient Administration applications to communicate information on a visit-specific basis. This segment can be used to send multiple-visit statistic records to the same patient account or single-visit records to more than one account. Individual sites must determine the use for this segment.

Figure 3-3. PV1 attributes

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	20	CX	O			00135	Preadmit Number
6	80	PL	O			00136	Prior Patient Location
7	60	XCN	O	Y	0010	00137	Attending Doctor
8	60	XCN	O	Y	0010	00138	Referring Doctor
9	60	XCN	O	Y	0010	00139	Consulting Doctor
10	3	IS	O		0069	00140	Hospital Service
11	80	PL	O			00141	Temporary Location
12	2	IS	O		0087	00142	Preadmit Test Indicator
13	2	IS	O		0092	00143	Readmission Indicator
14	3	IS	O		0023	00144	Admit Source
15	2	IS	O	Y	0009	00145	Ambulatory Status
16	2	IS	O		0099	00146	VIP Indicator
17	60	XCN	O	Y	0010	00147	Admitting Doctor
18	2	IS	O		0018	00148	Patient Type
19	20	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
23	2	IS	O		0046	00153	Credit Rating
24	2	IS	O	Y	0044	00154	Contract Code
25	8	DT	O	Y		00155	Contract Effective Date
26	12	NM	O	Y		00156	Contract Amount
27	3	NM	O	Y		00157	Contract Period
28	2	IS	O		0073	00158	Interest Code
29	1	IS	O		0110	00159	Transfer to Bad Debt Code
30	8	DT	O			00160	Transfer to Bad Debt Date
31	10	IS	O		0021	00161	Bad Debt Agency Code
32	12	NM	O			00162	Bad Debt Transfer Amount
33	12	NM	O			00163	Bad Debt Recovery Amount
34	1	IS	O		0111	00164	Delete Account Indicator
35	8	DT	O			00165	Delete Account Date
36	3	IS	O		0112	00166	Discharge Disposition
37	25	CM	O		0113	00167	Discharged to Location
38	2	IS	O		0114	00168	Diet Type
39	2	IS	O		0115	00169	Servicing Facility
40	1	IS	B		0116	00170	Bed Status
41	2	IS	O		0117	00171	Account Status
42	80	PL	O			00172	Pending Location
43	80	PL	O			00173	Prior Temporary Location
44	26	TS	O			00174	Admit Date/Time
45	26	TS	O			00175	Discharge Date/Time
46	12	NM	O			00176	Current Patient Balance
47	12	NM	O			00177	Total Charges
48	12	NM	O			00178	Total Adjustments
49	12	NM	O			00179	Total Payments

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SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME
50	20	CX	O		0192	00180	Alternate Visit ID
51	1	IS	O		0326	01226	Visit Indicator
52	60	XCN	O	Y	0010	01224	Other Healthcare Provider

3.3.3.0 PV1 field definitions

3.3.3.1 Set ID - PV1 (SI) 00131

Definition: This field contains the number that identifies this transaction. For the first occurrence of the segment, the sequence number shall be one, for the second occurrence, the sequence number shall be two, etc.

3.3.3.2 Patient class (IS) 00132

Definition: This field is used by systems to categorize patients by site. It does not have a consistent industry-wide definition. It is subject to site-specific variations. Refer to *user-defined table 0004 - Patient class* for suggested values.

User-defined Table 0004 - Patient class

<u>Value</u>	<u>Description</u>
E	Emergency
I	Inpatient
O	Outpatient
P	Preadmit
R	Recurring Patient
B	Obstetrics

3.3.3.3 Assigned patient location (PL) 00133

Components: <point of care (IS)> ^ <room (IS)> ^ <bed (IS)> ^ <facility (HD)> ^ <location status (IS)> ^ <person location type (IS)> ^ <building (IS)> ^ <floor (IS)> ^ <location description (ST)>

Subcomponents of facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the patient's initial assigned location or the location to which the patient is being moved. The first component may be the nursing station for inpatient locations, or clinic, department, or home for locations other than inpatient. For canceling a transaction or discharging a patient, the current location (after the cancellation event or before the discharge event) should be in this field. If a value exists in the fifth component (bed status), it supersedes the value in *PV1-40-bed status*.

3.3.3.4 Admission type (IS) 00134

Definition: This field indicates the circumstances under which the patient was or will be admitted. Refer to *user-defined Table 0007 - Admission type* for suggested values.

User-defined Table 0007 - Admission type

<u>Value</u>	<u>Description</u>
A	Accident

E	Emergency
L	Labor and Delivery
R	Routine

3.3.3.5 Preadmit number (CX) 00135

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field uniquely identifies the patient's pre-admit account. Some systems will continue to use the pre-admit number as the billing number after the patient has been admitted. ***For backward compatibility, an ST data type can be sent***; however HL7 recommends use of the CX data type, like the account number, for new implementations.

3.3.3.6 Prior patient location (PL) 00136

Components: <point of care (IS)> ^ <room (IS)> ^ <bed (IS)> ^ <facility (HD)> ^ <location status (IS)> ^ <person location type (IS)> ^ <building (IS)> ^ <floor (IS)> ^ <location description (ST)>

Subcomponents of facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the prior patient location if the patient is being transferred. The old location is null if the patient is new. If a value exists in the fifth component (bed status), it supersedes the value in *PV1-40-bed status*.

3.3.3.7 Attending doctor (XCN) 00137

Components: <ID number (ST)> ^ <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <source table (IS)> ^ <assigning authority (HD)> ^ <name type code(ID)> ^ <identifier check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the attending physician information. Multiple names and identifiers for the same physician may be sent. The field sequences are not used to indicate multiple attending doctors. The legal name must be sent in the first sequence. If the legal name is not sent, then a repeat delimiter must be sent in the first sequence. Depending on local agreements, either ID or the name may be absent in this field. Refer to *user-defined table 0010 - Physician ID* for suggested values.

3.3.3.8 Referring doctor (XCN) 00138

Components: <ID number (ST)> ^ <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <source table (IS)> ^ <assigning authority (HD)> ^ <name type code(ID)> ^ <identifier check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

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Definition: This field contains the referring physician information. Multiple names and identifiers for the same physician may be sent. The field sequences are not used to indicate multiple referring doctors. The legal name must be sent in the first sequence. If the legal name is not sent, then a repeat delimiter must be sent in the first sequence. Depending on local agreements, either the ID or the name may be absent from this field. Refer to *user-defined table 0010 - Physician ID* for suggested values.

3.3.3.9 Consulting doctor (XCN) 00139

Components: <ID number (ST)> ^ <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <source table (IS)> ^ <assigning authority (HD)> ^ <name type code(ID)> ^ <identifier check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the consulting physician information. The field sequences are used to indicate multiple consulting doctors. Depending on local agreements, either the ID or the name may be absent from this field. Refer to *user-defined table 0010 - Physician ID* for suggested values.

3.3.3.10 Hospital service (IS) 00140

Definition: This field contains the treatment or type of surgery that the patient is scheduled to receive. It is a required field with trigger events A01 (admit/visit notification), A02 (transfer a patient), A14 (pending admit), A15 (pending transfer). Refer to *user-defined table 0069 - Hospital service* for suggested values.

3.3.3.11 Temporary location (PL) 00141

Components: <point of care (IS)> ^ <room (IS)> ^ <bed (IS)> ^ <facility (HD)> ^ <location status (IS)> ^ <person location type (IS)> ^ <building (IS)> ^ <floor (IS)> ^ <location description (ST)>

Subcomponents of facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains a location other than the assigned location required for a temporary period of time (e.g., OR). If a value exists in the fifth component (bed status), it supersedes the value in *PV1-40-bed status*.

3.3.3.12 Preadmit test indicator (IS) 00142

Definition: This field indicates whether the patient must have pre-admission testing done in order to be admitted. Refer to *user-defined table 0087 - Pre-admit test indicator* for suggested values.

3.3.3.13 Re-admission indicator (IS) 00143

Definition: This field indicates that a patient is being re-admitted to the facility and gives the circumstances. We suggest using “**R**” for readmission or else null. Refer to *user-defined table 0092 - Re-admission indicator* for suggested values.

3.3.3.14 Admit source (IS) 00144

Definition: This field indicates where the patient was admitted. Refer to *user-defined table 0023 - Admit source* for suggested values.

3.3.3.15 Ambulatory status (IS) 00145

Definition: This field indicates any permanent or transient handicapped conditions. Refer to *user-defined table 0009 - Ambulatory status* for suggested entries.

User-defined Table 0009 - Ambulatory status

<u>Value</u>	<u>Description</u>
A0	No functional limitations
A1	Ambulates with assistive device
A2	Wheelchair/stretchers bound
A3	Comatose; non-responsive
A4	Disoriented
A5	Vision impaired
A6	Hearing impaired
A7	Speech impaired
A8	Non-English speaking
A9	Functional level unknown
B1	Oxygen therapy
B2	Special equipment (tubes, IVs, catheters)
B3	Amputee
B4	Mastectomy
B5	Paraplegic
B6	Pregnant

3.3.3.16 VIP indicator (IS) 00146

Definition: This field identifies the type of VIP. Refer to *user-defined table 0099 - VIP indicator*.

3.3.3.17 Admitting doctor (XCN) 00147

Components: <ID number (ST)> ^ <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <source table (IS)> ^ <assigning authority (HD)> ^ <name type code(ID)> ^ <identifier check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the admitting physician information. Multiple names and identifiers for the same physician may be sent. The field sequences are not used to indicate multiple admitting doctors. The legal name must be sent in the first sequence. If the legal name is not sent, then a repeat delimiter must be sent in the first sequence. By local agreement, the name or ID may be absent in this field. Refer to *user-defined table 0010 - Physician ID* for suggested values.

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3.3.3.18 Patient type (IS) 00148

Definition: This field contains site-specific values that identify the patient type. Refer to *user-defined table 0018 - Patient type* for suggested values.

3.3.3.19 Visit number (CX) 00149

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^
<assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: **For backward compatibility**, an NM data type may be sent, but HL7 recommends that new implementations use the CX data type. This field contains the unique number assigned to each patient visit.

3.3.3.20 Financial class (FC) 00150

Components: <financial class (IS)> ^ <effective date (TS)>

Definition: This field contains the primary financial class assigned to the patient for the purpose of identifying sources of reimbursement. Repeats up to four times. Refer to *user-defined table 0064 - Financial class* for suggested values.

3.3.3.21 Charge price indicator (IS) 00151

Definition: This field contains the code used to determine which price schedule is to be used for room and bed charges. Refer to *user-defined table 0032 - Charge/price indicator* for suggested values.

3.3.3.22 Courtesy code (IS) 00152

Definition: This field indicates whether the patient will be extended certain special courtesies. Refer to *user-defined table 0045 - Courtesy code* for suggested values.

3.3.3.23 Credit rating (IS) 00153

Definition: This field contains the user-defined code to determine past credit experience. Refer to *user-defined table 0046 - Credit rating* for suggested values.

3.3.3.24 Contract code (IS) 00154

Definition: This field identifies the type of contract entered into by the facility and the guarantor for the purpose of settling outstanding account balances. Refer to *user-defined table 0044 - Contract code* for suggested values.

3.3.3.25 Contract effective date (DT) 00155

Definition: This field contains the date that the contract is to start or started.

3.3.3.26 Contract amount (NM) 00156

Definition: This field contains the amount to be paid by the guarantor each period according to the contract.

3.3.3.27 Contract period (NM) 00157

Definition: This field specifies the duration of the contract for user-defined periods.

3.3.3.28 Interest code (IS) 00158

Definition: This field indicates the amount of interest that will be charged the guarantor on any outstanding amounts. Refer to *user-defined table 0073 - Interest rate code* for suggested values.

3.3.3.29 Transfer to bad debt code (IS) 00159

Definition: This field indicates that the account was transferred to bad debts and gives the reason. Refer to *user-defined table 0110 - Transfer to bad debt code* for suggested values.

3.3.3.30 Transfer to bad debt date (DT) 00160

Definition: This field contains the date that the account was transferred to a bad debt status.

3.3.3.31 Bad debt agency code (IS) 00161

Definition: ***This field can be used as an ST type for backward compatibility.*** This field uniquely identifies the bad debt agency to which the account was transferred. This code is site defined. One possible implementation would be to edit against a table such as *user-defined table 0021 - Bad debt agency code*; however, this is not required.

3.3.3.32 Bad debt transfer amount (NM) 00162

Definition: This field contains the amount that was transferred to a bad debt status.

3.3.3.33 Bad debt recovery amount (NM) 00163

Definition: This field contains the amount recovered from the guarantor on the account.

3.3.3.34 Delete account indicator (IS) 00164

Definition: This field indicates that the account was deleted from the file and gives the reason. Refer to *user-defined table 0111 - Delete account code* for suggested values.

3.3.3.35 Delete account date (DT) 00165

Definition: This field contains the date that the account was deleted from the file.

3.3.3.36 Discharge disposition (IS) 00166

Definition: This field contains the disposition of the patient at time of discharge (i.e., discharged to home, expired, etc.). Refer to *user-defined table 0112 - Discharged disposition* for suggested values.

3.3.3.37 Discharged to location (CM) 00167

Components: <discharge location (IS)> ^ <effective date (TS)>

Definition: This field indicates a facility to which the patient was discharged. Refer to *user-defined table 0113 - Discharged to location* for suggested values.

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3.3.3.38 Diet type (IS) 00168

Definition: This field indicates a special diet type for a patient. Refer to *user-defined table 0114 - Diet type* for suggested values.

3.3.3.39 Servicing facility (IS) 00169

Definition: This field is used in a multiple facility environment to indicate the facility with which this visit is associated. Refer to *user-defined table 0115 - Servicing facility* for suggested values.

An optional fourth component, the facility ID, may be valued in each individual location field in PV1, instead of placing it here.

3.3.3.40 Bed status (IS) 00170

Definition: ***This field has been retained for backward compatibility only.*** This field contains the status of the bed. Refer to *user-defined table 0116 - Bed status* for suggested values.

User-defined Table 0116 - Bed status

<u>Value</u>	<u>Description</u>
C	Closed
H	Housekeeping
O	Occupied
U	Unoccupied
K	Contaminated
I	Isolated

An optional fifth component, bed status, may be valued in each individual location field in PV1, instead of placing it here.

3.3.3.41 Account status (IS) 00171

Definition: This field contains the account status. Refer to *user-defined table 0117 - Account status* for suggested values.

3.3.3.42 Pending location (PL) 00172

Components: <point of care (IS)> ^ <room (IS)> ^ <bed (IS)> ^ <facility (HD)> ^ <location status (IS)> ^ <person location type (IS)> ^ <building (IS)> ^ <floor (IS)> ^ <location description (ST)>

Subcomponents of facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field indicates the point of care, room, bed, facility ID, and bed status to which the patient may be moved. The first component may be the nursing station for inpatient locations, or the clinic, department, or home for locations other than inpatient. If a value exists in the fifth component (bed status), it supersedes the value in *PV1-40-bed status*.

3.3.3.43 Prior temporary location (PL) 00173

Components: <point of care (IS)> ^ <room (IS)> ^ <bed (IS)> ^ <facility (HD)> ^ <location status (IS)> ^ <person location type (IS)> ^ <building (IS)> ^ <floor (IS)> ^ <location description (ST)>

Subcomponents of facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field is used to reflect the patient's temporary location (such as the OR or X-RAY) prior to a transfer from a temporary location to an actual location, or from a temporary location to another temporary location. The first component may be the nursing station for inpatient locations, or the clinic, department, or home for locations other than inpatient. If a value exists in the fifth component (bed status), it supersedes the value in *PV1-40-bed status*.

3.3.3.44 Admit date/time (TS) 00174

Definition: This field contains the admit date/time. It is to be used if the event date/time is different than the admit date and time, i.e., a retroactive update. This field is also used to reflect the date/time of an outpatient/emergency patient registration.

3.3.3.45 Discharge date/time (TS) 00175

Definition: This field contains the discharge date/time. It is to be used if the event date/time is different than the discharge date and time, that is, a retroactive update. This field is also used to reflect the date/time of an outpatient/emergency patient discharge.

3.3.3.46 Current patient balance (NM) 00176

Definition: This field contains the visit balance due.

3.3.3.47 Total charges (NM) 00177

Definition: This field contains the total visit charges.

3.3.3.48 Total adjustments (NM) 00178

Definition: This field contains the total adjustments for visit.

3.3.3.49 Total payments (NM) 00179

Definition: This field contains the total payments for visit.

3.3.3.50 Alternate visit ID (CX) 00180

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the alternative, temporary, or pending optional visit ID number to be used if needed. Refer to *HL7 table 0061 - Check digit scheme*, as defined in Chapter 2, for valid values. Refer to *user-defined table 0192 - Visit ID type* for suggested values.

3.3.3.51 Visit indicator (IS) 01226

Definition: This field specifies the level on which data are being sent. It is the indicator used to send data at two levels, visit and account. HL7 recommends sending an 'A' or no value when the data in the message are at the account level, or 'V' to indicate that the data sent in the message is at the visit level. Refer to *user-defined table 0326 - Visit indicator* for suggested values.

User-defined Table 0326 - Visit indicator

<u>Value</u>	<u>Description</u>
A	Account Level (default)
V	Visit Level

3.3.3.52 Other healthcare provider (XCN) 01224

Components: <ID number (ST)> ^ <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <source table (IS)> ^ <assigning authority (HD)> ^ <name type code(ID)> ^ <identifier check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the other healthcare providers (e.g., Nurse care practitioner, midwife, physician assistant). Multiple healthcare providers can be sent. Depending on local agreements, either the ID or the name may be absent from this field. Use values in *user-defined table 0010 - Physician ID* for first component.

3.3.3.53 PV1 usage notes

The facility (servicing) ID, the optional fourth component of each patient location field, is a string of up to six characters that is uniquely associated with the facility containing the location. A given institution, or group of intercommunicating institutions, should establish a list of facilities that may be potential assignors of patient locations. The list will be one of the institution's master dictionary lists. Since third parties other than the assignors of patient locations may send or receive HL7 messages containing patient locations, the facility ID in the patient location may not be the same as that implied by the sending and receiving systems identified in the MSH. The facility ID must be unique across facilities at a given site. This field is required for HL7 implementations that have more than a single facility with bed locations, since the same <nurse unit> ^ <room> ^ <bed> combination may exist at more than one facility.

3.3.4 PV2 - patient visit - additional information segment

The PV2 segment is a continuation of visit-specific information contained on the PV1 segment.

Figure 3-4. PV2 attributes

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME
1	80	PL	C	Y	0129	00181	Prior Pending Location
2	60	CE	O			00182	Accommodation Code
3	60	CE	O			00183	Admit Reason
4	60	CE	O			00184	Transfer Reason
5	25	ST	O			00185	Patient Valuables
6	25	ST	O			00186	Patient Valuables Location
7	2	IS	O		0130	00187	Visit User Code
8	26	TS	O			00188	Expected Admit Date/Time
9	26	TS	O			00189	Expected Discharge Date/Time
10	3	NM	O			00711	Estimated Length of Inpatient Stay
11	3	NM	O			00712	Actual Length of Inpatient Stay
12	50	ST	O			00713	Visit Description
13	90	XCN	O			00714	Referral Source Code
14	8	DT	O			00715	Previous Service Date
15	1	ID	O	Y	0136	00716	Employment Illness Related Indicator
16	1	IS	O		0213	00717	Purge Status Code
17	8	DT	O		0214	00718	Purge Status Date
18	2	IS	O			00719	Special Program Code
19	1	ID	O		0136	00720	Retention Indicator
20	1	NM	O		0215	00721	Expected Number of Insurance Plans
21	1	IS	O			00722	Visit Publicity Code
22	1	ID	O		0136	00723	Visit Protection Indicator
23	90	XON	O		0216	00724	Clinic Organization Name
24	2	IS	O			00725	Patient Status Code
25	1	IS	O		0217	00726	Visit Priority Code
26	8	DT	O		0112	00727	Previous Treatment Date
27	2	IS	O			00728	Expected Discharge Disposition
28	8	DT	O			00729	Signature on File Date
29	8	DT	O			00730	First Similar Illness Date
30	3	IS	O		0218	00731	Patient Charge Adjustment Code
31	2	IS	O		0219	00732	Recurring Service Code
32	1	ID	O		0136	00733	Billing Media Code
33	26	TS	O		0136	00734	Expected Surgery Date & Time
34	2	ID	O			00735	Military Partnership Code
35	2	ID	O		0136	00736	Military Non-Availability Code
36	1	ID	O		0136	00737	Newborn Baby Indicator
37	1	ID	O		0136	00738	Baby Detained Indicator

3.3.4.0 PV2 field definitions

3.3.4.1 Prior pending location (PL) 00181

Components: <point of care (IS)> ^ <room (IS)> ^ <bed (IS)> ^ <facility (HD)> ^ <location status (IS)> ^
 <person location type (IS)> ^ <building (IS)> ^ <floor (IS)> ^ <location description (ST)>

Subcomponents of facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field is required for cancel pending transfer (A27 (cancel pending admit)) messages. In all other events it is optional.

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3.3.4.2 Accommodation code (CE) 00182

Components: <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^
<alternate text (ST)> ^ <name of alternate coding system (ST)>

Definition: This field indicates the specific patient accommodations for this visit. Refer to *user-defined table 0129 - Accommodation code* for suggested values.

3.3.4.3 Admit reason (CE) 00183

Components: <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^
<alternate text (ST)> ^ <name of alternate coding system (ST)>

Definition: This field contains the short description of the reason for patient admission.

3.3.4.4 Transfer reason (CE) 00184

Components: <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^
<alternate text (ST)> ^ <name of alternate coding system (ST)>

Definition: This field contains the short description of the reason for a patient location change.

3.3.4.5 Patient valuables (ST) 00185

Definition: This field contains the short description of patient valuables checked in during admission.

3.3.4.6 Patient valuables location (ST) 00186

Definition: This field indicates the location of the patient's valuables.

3.3.4.7 Visit user code (IS) 00187

Definition: This field further categorizes a patient's visit with respect to an individual institution's needs (e.g., teaching flag = TE, indicating the patient is a teaching case). Refer to *user-defined table 0130 - Visit user code* for suggested values.

3.3.4.8 Expected admit date/time (TS) 00188

Definition: This field contains the date and time that the patient is expected to be admitted. This field is also used to reflect the date/time of an outpatient/emergency patient registration.

3.3.4.9 Expected discharge date/time (TS) 00189

Definition: This field contains the date and time that the patient is expected to be discharged. This is a non-event related date used by ancillaries to determine more accurately the projected workloads. This field is also used to reflect the anticipated discharge date/time of an outpatient/emergency patient, or an inpatient.

3.3.4.10 Estimated length of inpatient stay (NM) 00711

Definition: This field specifies the estimated days of inpatient stays.

3.3.4.11 Actual length of inpatient stay (NM) 00712

Definition: This field contains the actual days of inpatient stays. The actual length of the inpatient stay may not be calculated from the admission and discharge dates because of possible leaves of absence.

3.3.4.12 Visit description (ST) 00713

Definition: This field contains a brief user-defined description of the visit.

3.3.4.13 Referral source (XCN) 00714

Components: <ID number (ST)> ^ <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <source table (IS)> ^ <assigning authority (HD)> ^ <name type (ID)> ^ <identifier check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <identifier type code (IS)> ^ <assigning facility ID (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the name and the identification numbers of the person or organization that made the referral. This person/organization is not the same as the referring doctor. For example, Joe Smith referred me to the Clinic (or to Dr. Jones at the Clinic).

3.3.4.14 Previous service date (DT) 00715

Definition: This field contains the date of previous service for the same recurring condition. This may be a required field for billing certain illnesses (e.g., accident related) to a third party.

3.3.4.15 Employment illness related indicator (ID) 00716

Definition: This field specifies whether a patient's illness was job-related. Refer to Chapter 2, *HL7 table 0136 - Yes/no indicator* for valid values.

3.3.4.16 Purge status code (IS) 00717

Definition: This field contains the purge status code for the account. It is used by the application program to determine purge processing. Refer to *user-defined table 0213 - Purge status* for suggested values.

User-defined table 0213 - Purge status

<u>Value</u>	<u>Description</u>
P	Marked for purge. User is no longer able to update the visit.
D	The visit is marked for deletion and the user cannot enter new data against it.
I	The visit is marked inactive and the user cannot enter new data against it.

3.3.4.17 Purge status date (DT) 00718

Definition: This field contains the date on which the data will be purged from the system.

3.3.4.18 Special program code (IS) 00719

Definition: This field designates the specific health insurance program for a visit required for healthcare reimbursement. Examples include Child Health Assistance, Elective Surgery Program, Family Planning, etc. Refer to *user-defined table 0214 - Special program codes* for suggested values.

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3.3.4.19 Retention indicator (ID) 00720

Definition: This field allows the user to control the financial and demographic purge processes at the visit. It is used to preserve demographic and financial data on specific, high priority visits. Refer to Chapter 2, *HL7 table 0136 - Yes/no indicator* for valid values.

3.3.4.20 Expected number of insurance plans (NM) 00721

Definition: This field contains the number of insurance plans that may provide coverage for this visit.

3.3.4.21 Visit publicity code (IS) 00722

Definition: This field contains a user-defined code indicating what level of publicity is allowed (e.g., No Publicity, Family Only) for a specific visit. Refer to *user-defined table 0215 - Publicity code* for suggested values. Refer to *PD1-11-patient publicity code* for the patient level publicity code.

3.3.4.22 Visit protection indicator (ID) 00723

Definition: This field identifies the person's protection that determines, in turn, whether access to information about this person should be kept from users who do not have adequate authority for a specific visit. Refer to Chapter 2, *HL7 table 0136 - Yes/no indicator* for valid values. Refer to *PD1-12-patient protection indicator* for the patient level protection indicator.

3.3.4.23 Clinic organization name (XON) 00724

Components: <organization name (ST)> ^ <organization name type code (ID)> ^ <ID number (ID)> ^ <check digit (NM)> ^ < check digit scheme (ID)> ^ <assigning authority (HD)> ^ <identifier type code (ID)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the organization name or sub-unit and identifier that is associated with the (visit) episode of care. For example, the Allergy or Oncology Clinic within the facility might be named.

3.3.4.24 Patient status code (IS) 00725

Definition: This field indicates the status of the episode of care: for instance, Active Inpatient vs. Discharged Inpatient. Refer to *user defined table 0216 - Patient status* for suggested values.

3.3.4.25 Visit priority code (IS) 00726

Definition: This field contains the priority of the visit, e.g., whether the admission is an emergency, elective, or urgent. Refer to *user defined table 0217 - Visit priority* for suggested values.

3.3.4.26 Previous treatment date (DT) 00727

Definition: This field contains the date that the patient last had treatment for any condition prior to this visit. In the case of a prior hospital visit, it is likely to be the previous discharge date.

3.3.4.27 Expected discharge disposition (IS) 00728

Definition: This field describes what the patient's disposition is expected to be at the end of the visit. Refer to *user-defined table 0112 - Discharge disposition* for suggested values.

3.3.4.28 Signature on file date (DT) 00729

Definition: This field contains the date on which a signature was obtained for insurance billing purposes.

3.3.4.29 First similar illness date (DT) 00730

Definition: This field is used to determine if the patient has a pre-existing condition.

3.3.4.30 Patient charge adjustment code (IS) 00731

Definition: This field contains a user-defined code that indicates which adjustments should be made to this patient's charges. Refer to *user-defined table 0218 - Charge adjustment* for suggested values. This field is the same as *GT1-28-guarantor charge adjustment code*.

3.3.4.31 Recurring service code (IS) 00732

Definition: This field indicates whether the treatment is continuous. Refer to *user-defined table 0219 - Recurring service* for suggested values.

3.3.4.32 Billing media code (ID) 00733

Definition: This field indicates if the account is to be rejected from tape billing. Refer to Chapter 2, *HL7 table 0136 - Yes/no indicator* for valid values.

3.3.4.33 Expected surgery date and time (TS) 00734

Definition: This field contains the date and time on which the surgery is expected to occur.

3.3.4.34 Military partnership code (ID) 00735

Definition: This field indicates that a military facility has contracted with a non-military facility for the use of its services. Refer to Chapter 2, *HL7 table 0136 - Yes/no indicator* for valid values.

3.3.4.35 Military non availability code (ID) 00736

Definition: This field indicates whether a patient has permission to use a non-military facility for treatment. Refer to Chapter 2, *HL7 table 0136 - Yes/no indicator* for valid values.

3.3.4.36 Newborn baby indicator (ID) 00737

Definition: This field indicates whether the patient is a baby. Refer to Chapter 2, *HL7 table 0136 - Yes/no indicator* for valid values.

3.3.4.37 Baby detained indicator (ID) 00738

Definition: This field indicates if the baby is detained after the mother's discharge. Refer to Chapter 2, *HL7 table 0136 - Yes/no indicator* for valid values.

3.3.5 NK1 - next of kin / associated parties segment

The NK1 segment contains information about the patient's other related parties. Any associated parties may be identified. Utilizing *NK1-1-set ID*, multiple NK1 segments can be sent to patient accounts.

Figure 3-5. NK1 attributes

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME
1	4	SI	R			00190	Set ID - NK1
2	48	XP	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 Parties Job Title
11	20	JCC	O			00200	Next of Kin / Associated Parties Job Code/Class
12	20	CX	O			00201	Next of Kin / Associated Parties Employee Number
13	60	XON	O	Y		00202	Organization Name
14	2	IS	O		0002	00119	Marital Status
15	1	IS	O		0001	00111	Sex
16	26	TS	O			00110	Date/Time of Birth
17	2	IS	O	Y	0223	00755	Living Dependency
18	2	IS	O	Y	0009	00145	Ambulatory Status
19	4	IS	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	IS	O		0006	00120	Religion
26	48	XP	O			00746	Mother's Maiden Name
27	80	CE	O		0212	00739	Nationality
28	3	IS	O		0189	00125	Ethnic Group
29	80	CE	O	Y	0222	00747	Contact Reason
30	48	XP	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	IS	O		0005	00113	Race
36	2	IS	O		0295	00753	Handicap
37	16	ST	O			00754	Contact Person Social Security Number

3.3.5.0 NK1 field definitions

3.3.5.1 Set ID - next of kin / associated parties (SI) 00190

Definition: This field contains the number that identifies this transaction. For the first occurrence of the segment, the sequence number shall be one, for the second occurrence, the sequence number shall be two, etc.

3.3.5.2 Name (XP) 00191

Components: <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <name type code (ID) >

Definition: This field contains the name of the next of kin or associated party. Multiple names for the same person are allowed, but the legal name must be sent in the first sequence. If the legal name is not sent, then the repeat delimiter must be sent in the first sequence. Refer to Chapter 2 for the name type code table.

3.3.5.3 Relationship (CE) 00192

Components: <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^ <alternate text (ST)> ^ <name of alternate coding system (ST)>

Definition: This field contains the actual personal relationship that the next of kin/associated parties has to the patient. Refer to *user-defined table 0063 - Relationship* for suggested values. Examples might include: brother, sister, mother, father, friend, spouse, emergency contact, employer, etc.

3.3.5.4 Address (XAD) 00193

Components: <street address (ST)> ^ <other designation (ST)> ^ <city (ST)> ^ <state or province (ST)> ^ <zip or postal code (ST)> ^ <country (ID)> ^ <address type (ID)> ^ <other geographic designation (ST)> ^ <county/parish code (IS)> ^ <census tract (IS)>

Definition: This field contains the address of the next of kin/associated party. Multiple addresses are allowed for the same person. The mailing address must be sent in the first sequence. If the mailing address is not sent, then the repeat delimiter must be sent in the first sequence.

3.3.5.5 Phone number (XTN) 00194

Components: [NNN] [(999)]999-9999 [X99999] [B99999] [C any text] ^ <telecommunication use code (ID)> ^ <telecommunication equipment type (ID)> ^ <email address (ST)> ^ <country code (NM)> ^ <area/city code (NM)> ^ <phone number (NM)> ^ <extension (NM)> ^ <any text (ST)>

Definition: This field contains the telephone number of the next of kin/associated party. Multiple phone numbers are allowed for the same person. The primary telephone number must be sent in the first sequence. If the primary telephone number is not sent, then the repeat delimiter must be sent in the first sequence. Refer to Chapter 2 for suggested telecommunication use and equipment type codes.

3.3.5.6 Business phone number (XTN) 00195

Components: [NNN] [(999)]999-9999 [X99999] [B99999] [C any text] ^ <telecommunication use code (ID)> ^ <telecommunication equipment type (ID)> ^ <email address (ST)> ^ <country code (NM)> ^ <area/city code (NM)> ^ <phone number (NM)> ^ <extension (NM)> ^ <any text (ST)>

Definition: This field contains the business telephone number of the next of kin/associated party. Multiple phone numbers are allowed for the same person. The primary business telephone number must be sent in the first sequence. If the primary business telephone number is not sent, then the repeat delimiter must be sent in the first sequence. Refer to Chapter 2 for suggested telecommunication use and equipment type codes.

3.3.5.7 Contact role (CE) 00196

Components: <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^ <alternate text (ST)> ^ <name of alternate coding system (ST)>

Definition: This field indicates the specific relationship role (next of kin, employer, emergency contact, etc.). Refer to *user-defined table 0131 - Contact role* for suggested values. This field specifies the role that the next of kin/associated parties plays with regard to the patient. Examples might include an employer, emergency contact, next of kin, insurance company, state agency, federal agency, etc.

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3.3.5.8 Start date (DT) 00197

Definition: This field contains the start of the contact role.

3.3.5.9 End date (DT) 00198

Definition: This field contains the end of the contact role.

3.3.5.10 Next of kin / associated parties job title (ST) 00199

Definition: This field contains the title of the next of kin/associated parties at their place of employment. However, if the contact role is the patient's employer, this field contains the title of the patient at their place of employment.

3.3.5.11 Next of kin / associated parties job code/class (JCC) 00200

Components: <job code (IS)> ^ <employee classification (IS)>

Definition: This field contains the employer's job code and the employee classification used for the next of kin/associated parties at their place of employment. However, if the contact role is the patient's employer, this field contains the job code/class of the patient at their place of employment. Refer to *user-defined tables 0327 - Job code* and *0328 - Employee classification* for suggested values.

3.3.5.12 Next of kin / associated parties employee number (CX) 00201

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: ***For backward compatibility, the ST data type can be sent; however HL7 recommends that the CX data type be used for new implementations.*** This field contains the number that the employer assigns to the employee that is acting as next of kin/associated parties. However, if the contact role is the patient's employer, this field contains the employee number of the patient at their place of employment.

3.3.5.13 Organization name (XON) 00202

Components: <organization name (ST)> ^ <organization name type code (ID)> ^ <ID number (ID)> ^ <check digit (NM)> ^ <check digit scheme (ID)> ^ <assigning authority (HD)> ^ <identifier type code (ID)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the name of the organization that serves as a next of kin/associated party or as the next of kin of the patient. This field may also be used to communicate the name of the organization at which the associated party works. Multiple names for the same organization may be sent. If multiple names are sent, the legal name must be sent in the first sequence. If the legal name is not sent, then a repeat delimiter must be sent in the first sequence.

3.3.5.14 Marital status (IS) 00119

Definition: This field contains the next of kin/associated party's marital status. Refer to *user-defined table 0002 - Marital status* for suggested values.

3.3.5.15 Sex code (IS) 00111

Definition: This field contains the next of kin/associated party's sex. Refer to *user-defined table 0001 - Sex* for suggested values.

3.3.5.16 Date/time of birth (TS) 00110

Definition: This field contains the next of kin/associated party's birth date and time.

3.3.5.17 Living dependency (IS) 00755

Definition: This field identifies specific living conditions (e.g., spouse dependent on patient, walk-up) that are relevant to an evaluation of the patient's healthcare needs. This information can be used for discharge planning. Examples might include Spouse Dependent, Medical Supervision Required, Small Children Dependent. This field repeats because, for example, "spouse dependent" and "medical supervision required" can apply at the same time. Refer to *user-defined table 0223 - Living dependency* for suggested values.

3.3.5.18 Ambulatory status (IS) 00145

Definition: This field identifies the transient rate of mobility for the next of kin/associated party. Refer to *user-defined table 0009 - Ambulatory status* for suggested values.

3.3.5.19 Citizenship (IS) 00129

Definition: This field contains the code to identify the next of kin/associated party's citizenship. HL7 recommends using ISO 3166 as the suggested values in *user-defined table 0171 - Country code*.

3.3.5.20 Primary language (CE) 00118

Components: <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^
<alternate text (ST)> ^ <name of alternate coding system (ST)>

Definition: This field identifies the next of kin/associated party's primary speaking language. HL7 recommends using ISO 639 as the suggested values in *user-defined table 0296 - Language*.

3.3.5.21 Living arrangement (IS) 00742

Definition: This field identifies the situation that the associated party lives in at his/her residential address. Refer to *user-defined table 0220 - Living arrangement* for suggested values. Examples of living arrangements might include Alone, Family, Institution, etc.

3.3.5.22 Publicity indicator (CE) 00743

Definition: This field indicates what level of publicity is allowed (e.g., No Publicity, Family Only) for the next of kin/associated party. Refer to *user-defined table 0215 - Publicity code* for suggested values.

3.3.5.23 Protection indicator (ID) 00744

Definition: This field identifies that next of kin/associated party's protection that determines, in turn, whether access to information about this person should be kept from users who do not have adequate authority. Refer to Chapter 2, *HL7 table 0136 - Yes/no indicator* for valid values.

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3.3.5.24 Student indicator (IS) 00745

Definition: This field identifies whether the next of kin/associated party is currently a student or not, and whether the next of kin/associated party is a full- or a part-time student. This field does not indicate the degree (high school, college) of the student or the field of study. *Refer to user-defined table 0231 - Student status* for suggested values.

3.3.5.25 Religion (IS) 00120

Definition: This field indicates the type of religion practiced by the next of kin/associated party. Refer to *user-defined table 0006 - Religion* for suggested values.

3.3.5.26 Mother's maiden name (XPN) 00746

Components: <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <name type code (ID)>

Definition: This field indicates the maiden name of the next of kin/associated party's mother.

3.3.5.27 Nationality (CE) 00739

Components: <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^ <alternate text (ST)> ^ <name of alternate coding system (ST)>

Definition: This field identifies the nation or national group to which the next of kin/associated party belongs. This information may be different than the person's citizenship in countries in which multiple nationalities are recognized (e.g., Spain: Basque, Catalan, etc.).

3.3.5.28 Ethnic group (IS) 00125

Definition: This field contains the next of kin/associated party's ethnic group. ERISA has a published list of ethnic classifications that may be used by local agreement at a site. Refer to *user-defined table 0189 - Ethnic group* for suggested values.

3.3.5.29 Contact reason (CE) 00747

Components: <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^ <alternate text (ST)> ^ <name of alternate coding system (ST)>

Definition: This field identifies how the contact should be used (e.g., contact my employer if patient is unable to work).

3.3.5.30 Contact person's name (XPN) 00748

Components: <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <name type code (ID)>

Definition: This field contains the names of the people to contact, depending on the value of the relationship defined in *NK1-3-relationship*. This field is typically needed when the NK1 is an organization. The legal name should be sent first in the sequence. Refer to *HL7 table 0200 - Name type* for valid values.

3.3.5.31 Contact person's telephone number (XTN) 00749

Components: [NNN] [(999)999-9999 [X99999] [B99999] [C any text] ^ <telecommunication use code (ID)> ^ <telecommunication equipment type (ID)> ^ <email address (ST)> ^ <country code (NM)> ^ <area/city code (NM)> ^ <phone number (NM)> ^ <extension (NM)> ^ <any text (ST)>

Definition: This field contains the telephone numbers of the contact person depending on the value of the relationship defined in *NK1-3-relationship*. This field is typically needed when the NK1 is an organization. The primary telephone number must be sent in the first sequence. If the primary telephone number is not sent, then a repeat delimiter must be sent in the first sequence. Refer to *HL7 tables 0201 - Telecommunication use code and 0202 - Telecommunication equipment type* for valid values.

3.3.5.32 Contact person address (XAD) 00750

Components: <street address (ST)> ^ <other designation (ST)> ^ <city (ST)> ^ <state or province (ST)> ^ <zip or postal code (ST)> ^ <country (ID)> ^ < address type (ID)> ^ <other geographic designation (ST)> ^ <county/parish code (IS)> ^ <census tract (IS)>

Definition: This field contains the addresses of the contact person depending on the value of the relationship defined in *NK1-3-relationship*. This field is typically used when the NK1 is an organization. When multiple addresses are sent, the mailing address must be sent first in the sequence.

3.3.5.33 Next of kin/associated party identifiers (CX) 00751

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the identifiers for the next of kin/associated party, for example, Social Security Number, driver's license, etc.

3.3.5.34 Job status (IS) 00752

Definition: This field identifies the next of kin/associated party's job status (full-time, part-time, permanent, etc.). Refer to *user-defined table 0311 - Job status* for suggested values.

3.3.5.35 Race (IS) 00113

Definition: This field identifies the race of the next of kin/associated party. ERISA has published a list of ethnic classifications that may be used by local agreement at a site. Refer to *user-defined table 0005 - Race* for suggested values.

3.3.5.36 Handicap (IS) 00753

Definition: This field contains the code that describes an associated party's disability. Refer to *user-defined table 0295 - Handicap* for suggested values.

3.3.5.37 Contact person social security number (ST) 00754

Definition: This field contains the contact person's social security number. This number may also be an RR retirement number. It is the number for the person identified in *NK1-2-name*. For the Social Security number of the associated party, see *NK1-33-next of kin/associated party's identifiers*.

3.3.6 AL1 - patient allergy information segment

The AL1 segment contains patient allergy information of various types. Most of this information will be derived from user-defined tables. Each AL1 segment describes a single patient allergy.

Figure 3-6. AL1 attributes

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME
1	4	SI	R			00203	Set ID - AL1
2	2	IS	O		0127	00204	Allergy Type
3	60	CE	R			00205	Allergy Code/Mnemonic/Description
4	2	IS	O		0128	00206	Allergy Severity
5	15	ST	O			00207	Allergy Reaction
6	8	DT	O			00208	Identification Date

3.3.6.0 AL1 field definitions

3.3.6.1 Set ID - AL1 (SI) 00203

Definition: This field contains the number that identifies this transaction. For the first occurrence of the segment, the sequence number shall be one, for the second occurrence, the sequence number shall be two, etc.

3.3.6.2 Allergy type (IS) 00204

Definition: This field indicates a general allergy category (drug, food, pollen, etc.). Refer to *user-defined table 0127 - Allergy type* for suggested values.

User-defined Table 0127 - Allergy type

Value	Description
DA	Drug Allergy
FA	Food Allergy
MA	Miscellaneous Allergy
MC	Miscellaneous Contraindication

3.3.6.3 Allergy code/mnemonic/description (CE) 00205

Components: <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^ <alternate text (ST)> ^ <name of alternate coding system (ST)>

Definition: This field uniquely identifies a particular allergy. This element may conform to some external, standard coding system (that must be identified), or it may conform to local, largely textual or mnemonic descriptions.

3.3.6.4 Allergy severity (IS) 00206

Definition: This field indicates the general severity of the allergy (severe, moderate, mild, etc.). Refer to *user-defined table 0128 - Allergy severity* for suggested values.

User-defined Table 0128 - Allergy severity

Value	Description
SV	Severe
MO	Moderate
MI	Mild

3.3.6.5 Allergy reaction (ST) 00207

Definition: This field contains a short, textual description of the specific allergy reaction (convulsions, sneeze, rash, etc.).

3.3.6.6 Identification date (DT) 00208

Definition: This field contains the date that the allergy was identified.

3.3.7 NPU - bed status update segment

The NPU segment allows the updating of census (bed status) data without sending patient-specific data. An example might include changing the status of a bed from “housekeeping” to “unoccupied.”

Figure 3-7. NPU attributes

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME
1	80	PL	R			00209	Bed Location
2	1	IS	O		0116	00170	Bed Status

3.3.7.0 NPU field definitions

3.3.7.1 Bed location (PL) 00209

Components: <point of care (IS)> ^ <room (IS)> ^ <bed (IS)> ^ <facility (HD)> ^ <location status (IS)> ^ <person location type (IS)> ^ <building (IS)> ^ <floor (IS)> ^ <location description (ST)>

Subcomponents of facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the bed location that is a valid bed location.

3.3.7.2 Bed status (IS) 00170

Definition: This field contains the bed status. Refer to *user-defined table 0116 - Bed status* for suggested values.

3.3.8 MRG - merge patient information segment

The MRG segment provides receiving applications with information necessary to initiate the merging of patient data as well as groups of records. It is intended that this segment be used throughout the Standard to allow the merging of registration, accounting, and clinical records within specific applications.

Figure 3-8. MRG attributes

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME
1	20	CX	R	Y		00211	Prior Patient ID - Internal
2	20	CX	O	Y		00212	Prior Alternate Patient ID
3	20	CX	O			00213	Prior Patient Account Number
4	20	CX	O			00214	Prior Patient ID - External
5	20	CX	O			01279	Prior Visit Number
6	20	CX	O			01280	Prior Alternate Visit ID
7	48	XPN	O			01281	Prior Patient Name

3.3.8.0 MRG field definitions

3.3.8.1 Prior patient ID - internal (CX) 00211

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the internal prior patient identifier. This field contains a list of potential “old” numbers to match. Only one old number can be merged with one new number in a transaction. When merging patient IDs, A34 (merge patient information - patient ID only) and A36 (merge patient information - patient ID & account number), the patient ID contained in the PID segment cannot repeat. Refer to *HL7 table 0061 - Check digit scheme* as defined in Chapter 2.

3.3.8.2 Prior alternate patient ID (CX) 00212

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the prior alternate patient identifier. Refer to *HL7 table 0061 - Check digit scheme* as defined in Chapter 2.

3.3.8.3 Prior patient account number (CX) 00213

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the prior patient account number. Refer to *HL7 table 0061 - Check digit scheme* as defined in Chapter 2.

3.3.8.4 Prior patient ID - external (CX) 00214

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the external prior patient identifier. Refer to *HL7 table 0061 - Check digit scheme* as defined in Chapter 2.

3.3.8.5 Prior visit number (CX) 01279

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the prior visit number. Refer to *HL7 table 0061 - Check digit scheme* as defined in Chapter 2.

3.3.8.6 Prior alternate visit ID (CX) 01280

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the prior alternate visit number. Refer to *HL7 table 0061 - Check digit scheme* as defined in Chapter 2.

3.3.8.7 Prior patient name (XPN) 01281

Components: <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <name type code (ID)>

Definition: This field contains the prior name of the patient. This field is not used to change a patient name. Refer to Chapter 2 for the name type code table.

3.3.8.8 Segment notes: MRG merge patient information

The assigning facility ID, the fourth component of the patient identifiers, is an HD data type that is uniquely associated with the facility that originally assigned the number. A given institution, or group of intercommunicating institutions, should establish a list of facilities that may be potential assignors of patient identification (and other important identification) numbers. The list will be one of the institution's master dictionary lists. Since third parties (other than the assignors of patient identification numbers) may send or receive HL7 messages containing patient identification numbers, the assigning facility ID in the patient identification numbers may not be the same as those of the sending and receiving systems identified in the MSH. The assigning facility ID must be unique across applications at a given site. This field is required in HL7 implementations that have more than a single Patient Administration application assigning such numbers.

3.3.9 PD1 - patient additional demographic segment

The patient additional demographic segment contains demographic information that is likely to change about the patient.

Figure 3-9. PD1 attributes

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME
1	2	IS	O	Y	0223	00755	Living Dependency
2	2	IS	O		0220	00742	Living Arrangement
3	90	XON	O	Y		00756	Patient Primary Facility
4	90	XCN	O	Y		00757	Patient Primary Care Provider Name & ID No.
5	2	IS	O		0231	00745	Student Indicator
6	2	IS	O		0295	00753	Handicap
7	2	IS	O		0315	00759	Living Will
8	2	IS	O		0316	00760	Organ Donor
9	2	ID	O		0136	00761	Separate Bill
10	2	CX	O	Y		00762	Duplicate Patient
11	1	CE	O		0125	00743	Publicity Indicator
12	1	ID	O		0129	01283	Protection Indicator

3.3.9.1 Living dependency (IS) 00755

Definition: This field identifies specific living conditions (e.g., spouse dependent on patient, walk-up) that are relevant to an evaluation of the patient's healthcare needs. This information can be used for discharge planning. Examples might include Spouse Dependent, Medical Supervision Required, Small Children Dependent. This field repeats because, for example, "spouse dependent" and "medical supervision required" can apply at the same time. Refer to *user-defined table 0223 - Living dependency* for suggested values.

3.3.9.2 Living arrangement (IS) 00742

Definition: This field identifies the situation in which the patient lives at his residential address. Examples might include Alone, Family, Relatives, Institution, etc. Refer to *user-defined table 0220 - Patient living arrangement* for suggested values.

3.3.9.3 Patient primary facility (XON) 00756

Components: <organization name (ST)> ^ <organization name type code (ID)> ^ <ID number (ID)> ^ <check digit (NM)> ^ < check digit scheme (ID)> ^ <assigning authority (HD)> ^ <identifier type code (ID)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the name and identifier that specifies the primary care facility selected by the patient at the time of enrollment in an HMO Insurance Plan. Multiple facilities are allowed for the same facility. The legal name of the facility must be sent in the first sequence. If the legal name of the facility is not sent, then the repeat delimiter must be sent in the first sequence. See Chapter 2 regarding suggested values for organization name type codes.

3.3.9.4 Patient primary care provider name & ID no. (XCN) 00757

Components: <ID number (ST)> ^ <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <source table (IS)> ^ <assigning authority (HD)> ^ <name type code(ID)> ^ <identifier check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field contains the provider name and ID of the managed care primary care provider. This information is usually selected by the patient at the time of enrollment in the patient's managed care insurance plan. Multiple names are allowed for the same person. The legal name must be sent in the first sequence. If the legal name is not sent, then the repeat delimiter must be sent in the first sequence.

3.3.9.5 Student indicator (IS) 00745

Definition: This field indicates if the patient is currently a student or not, and whether the patient is a full-time or a part-time student. This field does not indicate the student's degree level (high school, college, elementary) or the student's field of study (accounting, engineering, etc.). Refer to *user-defined table 0231 - Student status* for suggested values.

3.3.9.6 Handicap (IS) 00753

Definition: This field indicates the nature of the patient's permanent handicapped condition (e.g., deaf, blind). A handicapped condition is defined as a physical or mental disability that is permanent. Transient handicapped conditions should be sent in the ambulatory status. Refer to *user-defined table 0295 - Handicap* for suggested values.

3.3.9.7 Living will (IS) 00759

Definition: This field indicates whether or not the patient has a living will and, if so, whether a copy of the living will is on file at the facility. If the patient does not have a living will, the value of this field indicates whether the patient was provided information on living wills. Refer to *user-defined table 0315 - Living will* for suggested values.

User-defined Table 0315 - Living will

<u>Value</u>	<u>Description</u>
Y	Yes, patient has a living will
F	Yes, patient has a living will but it is not on file
N	No, patient does not have a living will and no information was provided
I	No, patient does not have a living will but information was provided
U	Unknown

3.3.9.8 Organ donor (IS) 00760

Definition: This field indicates whether the patient wants to donate his/her organs and whether his organ donor card is on file with the organization. Refer to *user-defined table 0316 - Organ donor* for suggested values.

User-defined Table 0316 - Organ donor

<u>Value</u>	<u>Description</u>
Y	Yes, patient is a donor and card is on file
F	Yes, patient is a donor, but card is not on file
I	No, patient does not have a living will but information was provided

U Unknown

3.3.9.9 Patient separate bill indicator (ID) 00761

Definition: This field specifies that charges for this patient are to be billed separately from other patient bills with the same guarantor. (This bill is now a patient bill rather than a guarantor bill.) Refer to *HL7 table 0136 - Yes/no indicator* for valid values.

3.3.9.10 Duplicate patient (CX) 00762

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^
<assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This field indicates that a patient is the same as, or a duplicate of, another patient found on the sending system. The intent is to be informational only and no action is required by the receiver. Include the patient identifier if the sender knows an identifier for the patient.

3.3.9.11 Publicity indicator (CE) 00743

Definition: This field contains a user-defined code indicating what level of publicity is allowed (e.g., No Publicity, Family Only) for the patient. This code is conveyed at the patient level rather than the visit level. It is up to the application to decide processing rules for patient vs. visit-level data. Refer to *user-defined table 0215 - Publicity code* for suggested values. Refer to *PV2-21-visit publicity code* for visit level code.

3.3.9.12 Protection indicator (ID) 01293

Definition: This field identifies the person's protection that determines, in turn, whether access to information about this person should be kept from users who do not have adequate authority for the patient. This indicator is conveyed at the patient level rather than the visit level. It is up to the application to decide processing rules for patient vs. visit level data. Refer to Chapter 2, *HL7 table 0136 - Yes/no indicator* for valid values. Refer to *PV2-22-visit protection indicator* for visit level code.

3.3.10 DB1 - Disability segment

The disability segment contains information related to the disability of a person. This segment was created instead of adding disability attributes to each segment that contains a person (to which disability may apply). This is an optional segment that can be used to send disability information about a person already defined by the Patient Administration Chapter. The disabled person code and identifier allow for the association of the disability information to the person.

Figure 3-10. DB1 attributes

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME
1	4	SI	R			01283	Set ID - DB1
2	2	IS	O		0033	01284	Disabled person code
3	32	CX	O	Y		01285	Disabled person identifier
4	1	ID	O		0136	01286	Disabled Indicator
5	8	DT	O			01287	Disability start date
6	8	DT	O			01288	Disability end date
7	8	DT	O			01289	Disability return to work date
8	8	DT	O			01290	Disability unable to work date

3.3.10.0 DB1 field definitions

3.3.10.1 Set ID - DB1 (SI) 01283

Definition: This field contains the number that identifies this transaction. For the first occurrence of the segment, the sequence number shall be one, for the second occurrence, the sequence number shall be two, etc.

3.3.10.2 Disabled person code (IS) 01284

Definition: The value of this field indicates to which person the disability information relates in the message. For example, if the value is PT, the disability information relates to the patient. Refer to *user-defined table 0334 - Disabled person* for suggested values.

User-defined Table 0334 - Disabled person

<u>Value</u>	<u>Description</u>
PT	Patient
GT	Guarantor
IN	Insured
AP	Associated Party

3.3.10.3 Disabled person identifier (CX) 01285

Components: <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Subcomponents of assigning authority: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Subcomponents of assigning facility: <namespace ID (IS)> & <universal ID (ST)> & <universal ID type (ID)>

Definition: This is the identifier (or identifiers) for the person whose disability information is sent on the segment.

3.3.10.4 Disability indicator 01286

Definition: This field indicates if the person's visit is a disability visit. Refer to *HL7 table 0136 - Yes/No indicator* for valid values.

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3.3.10.5 Disability start date (DT) 01287

Definition: This field specifies the date the person became disabled.

3.3.10.6 Disability end date (DT) 01288

Definition: This field specifies the ending date of the person's disability.

3.3.10.7 Disability return to work date (DT) 01289

Definition: This field indicates the authorized date on which the patient can return to work for a specified disability case.

3.3.10.8 Disability unable to work date (DT) 01290

Definition: This field specifies the first date in the date span that the patient is unable to work due to disability.

3.4 EXAMPLE TRANSACTIONS

3.4.1 Admit/visit notification - event A01 (admitted patient)

```
MSH|^~\&|ADT1|MCM|LABADT|MCM|198808181126|SECURITY|ADT^A01|MSG00001|P|2.3|<cr>
EVN|A01|198808181123||<cr>
PID|||PATID1234^5^M11||JONES^WILLIAM^A^III||19610615|M||C|1200 N ELM
STREET^^GREENSBORO^NC^27401-1020|GL|(919)379-1212|(919)271-3434||S||
PATID12345001^2^M10|123456789|987654^NC|<cr>
NK1|1|JONES^BARBARA^K|WIFE|||||NK^NEXT OF KIN<cr>
PV1|1|I|2000^2012^01|||004777^LEBAUER^SIDNEY^J.|||SUR|||ADM|A0|<cr>
```

Patient William A. Jones, III was admitted on July 18, 1988 at 11:23 a.m. by doctor Sidney J. Lebauer (#004777) for surgery (SUR). He has been assigned to room 2012, bed 01 on nursing unit 2000.

The message was sent from system ADT1 at the MCM site to system LABADT, also at the MCM site, on the same date as the admission took place, but three minutes after the admit.

3.4.2 Pre-admit notification - event A05 (nonadmitted patient)

```

MSH|^~\&|REGADT|MCM|IFENG||199601061000||ADT^A05|000001|P|2.3|||<cr>
EVN|A05|199601061000|199601101400|01||199601061000<cr>
PID|||191919^^^GENHOSP|253763|MASSIE^JAMES^A||19560129|M|||171
    ZOBERLEIN^^ISHPEMING^MI^49849^""^|||(900)485-5344|
    (900)485-5344||S|C|10199925|371-66-9256||<cr>
OBX|ST|1010.1^BODY WEIGHT||62|kg<cr>
OBX|ST|1010.1^HEIGHT||190|cm<cr>
NK1|1|MASSIE^ELLEN|SPOUSE|171 ZOBERLEIN^^ISHPEMING^MI^49849^""^|
    (900)485-5344|(900)545-1234~(900)545-1200|EC^EMERGENCY CONTACT<cr>
NK1|2|MASSIE^MARYLOU|MOTHER|300 ZOBERLEIN^^ISHPEMING^MI^49849^""^|
    (900)485-5344|(900)545-1234~(900)545-1200|EC^EMERGENCY CONTACT<cr>
NK1|3<cr>
NK1|4|||123 INDUSTRY WAY^^ISHPEMING^MI^49849^""^|||(900)545-
1200|EM^EMPLOYER|19940605||PROGRAMMER|||ACME SOFTWARE COMPANY<cr>
PV1|O|||0148^ADDISON,JAMES|0148^ADDISON,JAMES|0148^ADDISON,JAMES|AMB|||0148^ADDISO
N,JAMES|S|1400|A|||GENHOSP|||<cr>
PV2|||199601101400|||199601101400<cr>
DGL|1|19|BIOPSY|00<cr>
GT1|1|MASSIE^JAMES^""^""^""^""^||171 ZOBERLEIN^^ISHPEMING^MI^49849^""^|
    (900)485-5344|(900)485-5344|||SELF|371-66-925|||MOSES AUTO
    CLINIC|171 ZOBERLEIN^^ISHPEMING^MI^49849^""^|(900)485-5344<cr>
IN1|1|0|BC1|BLUE CROSS|171 ZOBERLEIN^^ISHPEMING^MI^49849^""^|
    (900)485-5344|90|||50 OK<cr>
IN1|2|""|""<cr>

```

Patient James A. Massie was pre-admitted on January 6th, 1996 for ambulatory surgery which is scheduled for January 10, 1996 at 1400. As part of the pre-admission process, he specified two emergency contacts as well as employer, insurance, and guarantor, and allergy information. He also was measured and weighed. Note that the REGADT system supports the entry of four NK1 type records: first, second, and third emergency contacts and employer information. A third emergency contact was not provided for James A. Massie. However, an NK1 record must be sent to support “snapshot” mode of update. The REGADT system also supports entry of two insurance plans, one guarantor, and one diagnosis.

3.4.4 Change outpatient to inpatient - event A06

```

MSH|^~\&|REGADT|MCM|IFENG||199601110025||ADT^A06|000001|P|2.3|||<cr>
EVN|A06|19960110025||01||199601102300<cr>
PID|||191919^^^GENHOSP|253763|MASSIE^JAMES^A||19560129|M||171
  ZOBERLEIN^^ISHPEMING^MI^49849^"^^| |(900)485-5344|
  (900)485-5344||S|C|10199925|371-66-9256||<cr>
NK1|1|MASSIE^ELLEN|SPOUSE|171 ZOBERLEIN^^ISHPEMING^MI^49849^"^^|
  (900)485-5344|(900)545-1234~(900)545-1200|EC1^FIRST EMERGENCY CONTACT<cr>
NK1|2|MASSIE^MARYLOU|MOTHER|300 ZOBERLEIN^^ISHPEMING^MI^49849^"^^|
  (900)485-5344|(900)545-1234~(900)545-1200|EC2^SECOND EMERGENCY CONTACT<cr>
NK1|3<cr>
NK1|4||123 INDUSTRY WAY^^ISHPEMING^MI^49849^"^^|
  (900)545-1200|EM^EMPLOYER|19940605||PROGRAMMER|||ACME SOFTWARE COMPANY<cr>
PVL|I|6N^1234^A^GENHOSP|||0100^ANDERSON,CARL|0148^ADDISON,JAMES||SUR|||
  |||0148^ANDERSON,CARL|S|1400|A|||||||GENHOSP|||199501102300|<cr>
DGL|1|19|BIOPSY||00<cr>
OBX|ST|1010.1^BODY WEIGHT||62|kg<cr>
OBX|ST|1010.1^HEIGHT||190|cm<cr>
GTL|1||MASSIE^JAMES^"^^"^^"^^"^^|171 ZOBERLEIN^^ISHPEMING^MI^49849^"^^|
  (900)485-5344|(900)485-5344|||SELF|371-66-925|||MOOSES AUTO
  CLINIC|171 ZOBERLEIN^^ISHPEMING^MI^49849^"^^| (900)485-5344<cr>
IN1|0|0|BC1|BLUE CROSS|171 ZOBERLEIN^^ISHPEMING^MI^49849^"^^|
  (900)485-5344|90|||50 OK<cr>
IN1|2|""|""<cr>

```

Patient James A. Massie was later converted to an inpatient on January 10th, 1996 at 2300 to recover from the operation. The change from outpatient to inpatient was recorded on the MCM system on January 11, 1996 at 0020. He was assigned to room 1234, bed A on unit 6N. When Patient James A. Massie was converted to an inpatient on January 10th, 1996 at 2300, his hospital service changed to SUR. His attending doctor and admitting doctors changed to Dr. Carl Anderson. As a result of the conversion, his account number changed from 10199923 to 10199925

3.4.5 Transfer patient - event A02 (first example)

```

MSH|^~\&|REGADT|MCM|IFENG||199601110500||ADT^A02|000001|P|2.3|||<cr>
EVN|A02|199601110520||01||199601110500<cr>
PID|||191919^^^GENHOSP|253763|MASSIE^JAMES^A||19560129|M||171
  ZOBERLEIN^^ISHPEMING^MI^49849^"^^| |(900)485-5344|
  (900)485-5344||S|C|10199925|371-66-9256||
  (900)545-1200|EM^EMPLOYER|19940605||PROGRAMMER|||ACME SOFTWARE COMPANY<cr>
PVL|I|SICU^0001^01^GENHOSP||6N^1234^A^GENHOSP|0200^JONES,
  GEORGE|0148^ADDISON,JAMES||ICU|||
  |||0148^ANDERSON,CARL|S|1400|A|||||||GENHOSP|||199501102300|<cr>

```

On January 11th, 1996 at 0500, James A. Massie condition became worse due to a complication. As a result, he was transferred to the surgical ICU (SICU). The transfer was recorded on the MCM system on January 11, 1996 at 0520. He was assigned to room 0001, bed 1. When Patient James A. Massie was transferred to SICU, his hospital service changed to ICU and his attending doctor changed to Dr. George Jones.

3.4.6 Cancel transfer - event A12

```
MSH|^~\&|REGADT|MCM|IFENG||199601110600||ADT^A02|000001|P|2.3|||<cr>
EVN|A02|199601110600||01||199601110500<cr>
PID||191919^^^GENHOSP|253763|MASSIE^JAMES^A||19560129|M||171
ZOBBERLEIN^^ISHPEMING^MI^49849^"^^|(900)485-5344|
(900)485-5344||S|C|10199925|371-66-9256||
(900)545-1200|EM^EMPLOYER|19940605||PROGRAMMER|||ACME SOFTWARE COMPANY<cr>
PV1|I|6N^1234^A^GENHOSP|||SICU^0001^1^GENHOSP|0100^ANDERSON,CARL|0148^ADDISON,JAMES||SUR|
|||||0148^ANDERSON,CARL|S|1400|A|||||||GENHOSP|||||199501102300|<cr>
```

It was determined that James A. Massie was transferred to the wrong room in the SICU. Therefore, the transfer was canceled.

3.4.7 Transfer patient - event A02 (second example)

```
MSH|^~\&|REGADT|MCM|IFENG||199601110603||ADT^A02|000001|P|2.3|||<cr>
EVN|A02|199601110603||01||199601110500<cr>
PID||191919^^^GENHOSP|253763|MASSIE^JAMES^A||19560129|M||171
ZOBBERLEIN^^ISHPEMING^MI^49849^"^^|(900)485-5344|
(900)485-5344||S|C|10199925|371-66-9256||
(900)545-1200|EM^EMPLOYER|19940605||PROGRAMMER|||ACME SOFTWARE COMPANY<cr>
PV1|I|SICU^0001^02^GENHOSP|||6N^1234^A^GENHOSP|0100^ANDERSON,CARL|0148^ADDISON,JAMES||SUR|
|||||0148^ANDERSON,CARL|S|1400|A|||||||GENHOSP|||||199501102300|<cr>
```

The transfer is then repeated, this time to the correct bed: bed 2 of room 0001 in the SICU.

3.4.8 Discharge patient - event A03

```
MSH|^~\&|REGADT|MCM|IFENG||199601121005||ADT^A03|000001|P|2.3|||<cr>
EVN|A03|199601121005||01||199601121000<cr>
PID||191919^^^GENHOSP|253763|MASSIE^JAMES^A||19560129|M||171
ZOBBERLEIN^^ISHPEMING^MI^49849^"^^|(900)485-5344|
(900)485-5344||S|C|10199925|371-66-9256||
(900)545-1200|EM^EMPLOYER|19940605||PROGRAMMER|||ACME SOFTWARE COMPANY<cr>
PV1|I|6N|||0100^ANDERSON,CARL|0148^ADDISON,JAMES||SUR|||||0148^ANDERSON,CARL|S|1400|A|
|||||SNF|ISH^ISHPEMING NURSING HOME|GENHOSP|||||199601102300|199691121005<cr>
```

When James A. Massie's condition became more stable, he returned to 6N for another day (transfer not shown) and then was discharged to the Ishpeming Nursing Home.

3.5 IMPLEMENTATION CONSIDERATIONS

3.5.1 Swapping a patient

Some systems may handle this as a single function. Others may require a multiple process in which:

- patient A is assigned a temporary location
- patient B is assigned patient A's location

- c) patient A is assigned patient B's prior location

This three-step scenario requires three separate transfer messages instead of a single swap message. If all beds in a hospital are occupied, it may be necessary to use a dummy location.

3.5.2 Merging patient/person information

3.5.2.1 Definitions: Merge, move, and change identifier events

The term “identifier” is used throughout this section. An identifier is associated with a set (or sets) of data. For example, an internal identifier (*PID-3-patient ID [internal ID]*) may be a medical record number which has associated with it account numbers (*PID-18-patient account number*.) Account number (*PID-18-patient account number*) is a type of identifier which may have associated with it visit numbers (*PVI-19-visit number*).

This section addresses the events that occur usually for the purposes of correcting errors in person, patient, account, or visit identifiers. The types of errors that occur typically fall into three categories:

1) Duplicate identifier created

The registrar fails to identify an existing person, patient, account, or visit and creates a new, “duplicate” record instead of using the existing record. A “merge” operation is used to fix this type of error.

2) Incorrect identifier selected

The registrar mistakenly selects the wrong person, patient, or account and creates or attaches a patient, account, or visit underneath the incorrect person, patient, or account. A “move” operation is used to fix this type of error.

3) Incorrect identifier assigned

The registrar accidentally types in the wrong new identifier for a person, patient, account, or visit. This type of mistake usually occurs when identifiers are manually assigned (not system generated). A “change identifier” operation is used to fix this type of error.

3.5.2.1.1 Hierarchy of Identifiers

These events assume a hierarchy of identifiers exists between person, patient, account, and visit. The hierarchy is as follows:

Level 4 - Person (identified by *PID-2-external ID*)

Level 3 - Patient (identified by *PID-3-internal ID*)

Level 2 - Account (identified by *PID-18-patient account number*)

Level 1 - Visit (identified by *PVI-19-visit number*)

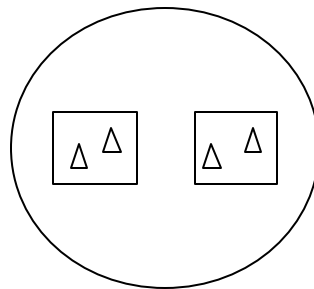
The visit-level identifier *PVI-19-visit number* is the lowest level identifier and is considered *subordinate* to the account-level identifier *PID-18-patient account number*.

This means that visit identifiers are defined within the context of an account identifier, and implies that visit identifiers are unique within account identifiers. Similarly, account identifiers are subordinate to, and unique within, patient identifiers; patient identifiers are subordinate to, and unique within, person identifiers.

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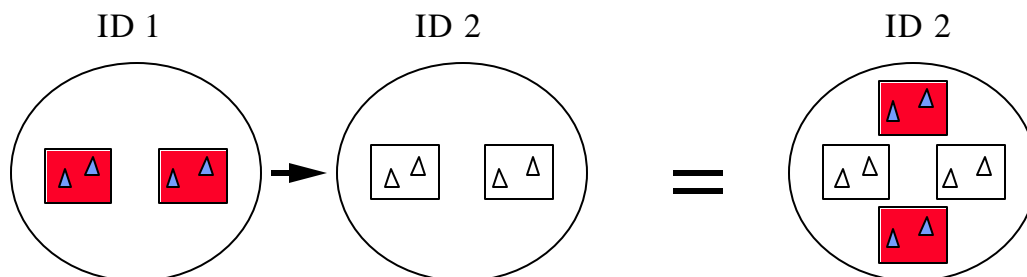
Conversely, the person-level identifier *PID-2-external ID* is the highest level identifier and is considered *superior* to the patient-level identifiers, which are superior to the account-level identifier, which is superior to any visit-level identifiers.

Note that these events will also apply to environments in which one or more of these levels do not occur. For example, some environments may not have a person (or MPI) level, or they may not have a visit level, or they may have a visit level without an account level. The hierarchy concept is depicted graphically below. For example, Bob Kelly might be assigned an MPI number at the ABC hospital network (depicted by the circle). He may have different medical records at two hospitals within the network (depicted by the squares). Associated with each of these medical records are two accounts (depicted by the triangles). Note that the environment illustrated does not support the “visit” level, although in other implementations it might.



3.5.2.1.2 Merge

A merge event signals that two distinct records have been combined together into a single record with a single set of identifiers and data surviving at the level of the merge. All records at a level subordinate to the merged identifier are combined under the surviving record. For example, an A39 (merge person-external ID) event would be sent to signal that two person records (identified by *MRG-4-prior patient ID external* and by *PID-2-patient ID [external ID]*) have been merged into a single record. All of the internal identifiers, accounts, and visits under the person record are not merged together - they are instead combined under the same person record. The following figure graphically depicts the merge event:



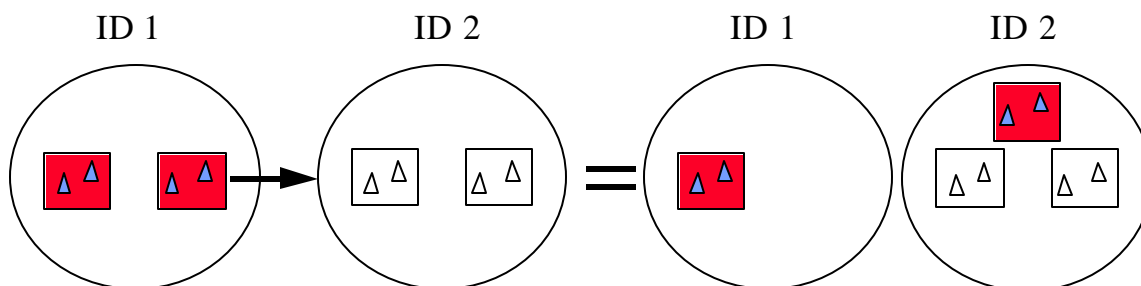
Note: It is not the intent of the merge definition to define the application or implementation specifics of how various systems or environments define, use or handle non-surviving information. "Non-surviving" in this document

implies that a data set was existing in a fashion that was incorrect. Merging it into a new data set in itself implies that where there were two datasets, there is now only one. The means by which any system or environment conveys this new data set and the absence of the previous data set to the user is application specific. It is noted that some systems may still physically keep these “incorrect” datasets for audit trail or other purposes.

3.5.2.1.3 Move

A “move” involves transferring one or more datasets (identified by a subordinate identifier) *from* one superior identifier at the next hierarchical level *to* another superior identifier at the next hierarchical level, while all identifiers involved retain their original value. An exception to retaining the original identifier value may occur if any of the subordinate source identifiers already exist under the target superior identifier. In this case the identifier value may have to be renumbered in order to be uniquely identified under the target superior identifier. (Refer to Section 3.5.2.2.15, “A45 - move visit information - visit number (repeating segment),” for an illustration of this.)

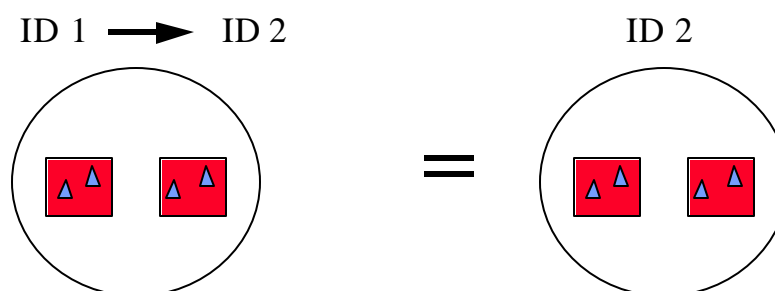
A move event signals that a patient, account, or visit has been moved from one person, patient, or account to another. All records at a subordinate level are also moved. For example, an A43 (move patient information-internal ID) event would be sent to signal that a medical records administrator has moved a medical record attached to an incorrect person to a correct person. The following figure graphically depicts the move event:



Note: The move event implies that all data related to the incorrect source ID and its subordinate IDs (specified in the MRG segment) will be moved to the correct target ID (specified in the PID or PV1 segment). Specifying each subordinate ID in repeating PID/MRG/PV1 sets is optional but not recommended.

3.5.2.1.4 Change identifier

A change identifier event signals that a single person, patient, account, or visit identifier has been changed. It does not reflect a merge or a move, it is simply a change of an identifier. For example, a “Change Identifier” event would be sent to signal that the registrar has changed an incorrectly assigned person identifier to a correct person identifier. The following picture graphically depicts this event:



3.5.2.1.5 Source and target identifiers

Merge, move, and change events reference target and source identifiers. The incorrect source identifier is specified in the MRG segment. The correct target identifier is identified in the PID or PV1 segment. For example, when you are changing a patient account number the source would be *MRG-3-prior patient account number*. The target is *PID-18-patient account number*.

3.5.2.1.6 Tightly coupled identifiers

PID-3-patient ID (internal ID) and *PID-4-alternate patient ID-PID* can be repeating in the PID segment. When these identifiers are the target in a merge, move, or change event, the associated source identifiers in the MRG must be “tightly” coupled. This means there must be a one-to-one match between the repeating *PID-3-patient ID (internal ID)* and the repeating *MRG-1-prior patient ID-internal numbers*, or between the repeating *PID-4-alternate patient ID* and the repeating *MRG-2-prior alternate patient ID numbers*. For example, if *MRG-1-prior patient ID-internal numbers* reports |MR2^^^XYZ^MR~200^^^XYZ^PI|, a corresponding MR and PI number should be reported in *PID-3-patient ID (internal ID)*, e.g. , |MR1^^^XYZ^MR~100^^^XYZ^PI|. See the use case for A40 (merge patient information-internal ID) for an illustration.

Another aspect of tightly coupled identifiers deals with the pairings of identifiers between the MRG segment and their associated identifier in the PID or PV1 segment as defined below:

The pairings that define “tightly coupled” are as follows:

Person:	<i>PID-2-patient ID (external ID)</i>	with <i>MRG-4-prior patient ID (external ID)</i>
---------	---------------------------------------	--

Patient:	<i>PID-3-patient ID (internal ID)</i>	with <i>MRG-1-prior patient ID (internal ID)</i>
	by <identifier type code> field component	
	<i>PID-4-alternate patient ID</i>	with <i>MRG-2-prior alternate patient ID</i>
Account:	<i>PID-18-patient account number</i>	with <i>MRG-3-prior patient account number</i>
Visit:	<i>PV1-19-visit number</i>	with <i>MRG-5-prior visit number</i>
	<i>PV1-50-alternate visit ID</i>	with <i>MRG-6-prior alternate visit ID</i>

3.5.2.1.7 Global merge and move message construct versus repeating segment message constructs

A flexible message construct is provided for merge trigger events. The message construct allows for a repeating set of PID, optional PD1, MRG, and optional PV1 segments as illustrated below:

```

MSH
EVN
{  PID
    [PD1]
    MRG
    [PV1]
}
```

Trigger events support the concept of a global move or merge, where all the subordinate identifiers are moved or merged. For example, the use case for A41 (merge account-patient account number) (Section 3.5.2.2.9, “A41 - merge account - patient account number (global)”) illustrates a merge on the patient account number (*PID-18-patient account number*). All subordinate identifiers (*PV1-19-visit number*) are moved to the target *PID-18-patient account number* identifier, even though they are not specified in the message.

A repeating segment message construct supports reporting of the subordinate identifiers using the repeating segments. This is illustrated in the use case for A40 (merge patient-internal ID) (Section 3.5.2.2.8, “A40 - merge patient - internal ID (repeating segment)”), A41 (merge account - patient account number) (Section 3.5.2.2.10, “A41 - merge account - patient account number (repeating segment)”), and A45 (move visit information-visit number) (Section 3.5.2.2.15, “A45 - move visit information - visit number (repeating segment)”). Specifying each subordinate ID in repeating segments is optional but not recommended. This construct can be used when renumbering of identifiers is necessary as illustrated in Sections 3.5.2.2.8, “A40 - merge patient - internal ID (repeating segment),” 3.5.2.2.10, “A41 - merge account - patient account number (repeating segment),” and 3.5.2.2.15, “A45 - move visit information - visit number (repeating segment),” or to explicitly identify individual subordinate identifiers as illustrated in Section 3.5.2.2.14, “A45 - move visit information - visit number (repeating segment).”

3.5.2.1.8 Identifier renumbering

When renumbering of identifiers occurs, the repeating segment construct may be required in order to report identifier number changes. When renumbering occurs, the incorrect source identifier is specified in the MRG segment and the correct target identifier is reported in the PID or PV1 segment. Refer to the use case for A41 (merge account-patient account number) for an illustration.

3.5.2.1.9 Superior identifier reporting

When merging or moving subordinate numbers, the higher level, “superior” identifiers should be included in the message. For example, when merging an account where the target is *PID-18-patient account number*

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and the source is *MRG-3-prior patient account number*, the higher level patient identifiers (*PID-3 -patient ID- internal ID* and *MRG-1-prior patient ID-internal*) and person identifiers (*PID-2-patient ID-external ID* and *MRG-4-prior patient ID-external*) should also be reported in the message.

3.5.2.2 Trigger events

The intent of trigger events A18 (merge patient information), A30 (merge person information), A34 (merge patient information-patient ID only), A35 (merge patient information-account number only), A36 (merge patient information-patient ID and account number), A39 (merge person-external ID), A40 (merge person-internal ID), A41 (merge account-patient account number), A42 (merge visit-visit number), A43 (move patient information-internal ID), A44 (move account information-patient account number), A45 (move visit information-visit number), A46 (change external ID), A47 (change internal ID), A48 (change alternate patient ID), A49 (change patient account number), A50 (change visit number), and A51 (change alternate visit ID) is to reconcile distinct sets of existing person/patient data records that have been entered under different identification numbers, either deliberately or because of errors. Ideally, following any of these trigger events, all of the person/patient data should be accessible under whatever surviving identifiers were specified in the messages. Because of substantial differences in database architectures and system-dependent data processing requirements or limitations, the exact meaning and implementation of these events must be negotiated between systems.

3.5.2.2.1 A18 - Merge patient information

This event is retained for backward compatibility. This event is non-specific and heavily dependent on implementation negotiations. Sites requiring (or desiring) greater specificity can use the following events: A39 (merge person-external ID), A40 (merge person-internal ID), A41 (merge account-patient account number), A42 (merge visit-visit number), A43 (move patient information-internal ID), A44 (move account information-patient account number), A45 (move visit information-visit number), A46 (change external ID), A47 (change internal ID), A48 (change alternate patient ID), A49 (change patient account number), A50 (change visit number), and A51 (change alternate visit ID).

3.5.2.2.2 A30 - Merge person information

This event is retained for backward compatibility. This event is non-specific and heavily dependent on implementation negotiations. Sites requiring (or desiring) greater specificity can use the following events: A39 (merge person-external ID), A40 (merge person-internal ID), A41 (merge account-patient account number), A42 (merge visit-visit number), A43 (move patient information-internal ID), A44 (move account information-patient account number), A45 (move visit information-visit number), A46 (change external ID), A47 (change internal ID), A48 (change alternate patient ID), A49 (change patient account number), A50 (change visit number), and A51 (change alternate visit ID).

3.5.2.2.3 A34 - Merge patient information - patient ID only

This event is retained for backward compatibility. This event is non-specific and heavily dependent on implementation negotiations. Sites requiring (or desiring) greater specificity can use the following events: A39 (merge person-external ID), A40 (merge person-internal ID), A41 (merge account-patient account number), A42 (merge visit-visit number), A43 (move patient information-internal ID), A44 (move account information-patient account number), A45 (move visit information-visit number), A46 (change external ID), A47 (change internal ID), A48 (change alternate patient ID), A49 (change patient account number), A50 (change visit number), and A51 (change alternate visit ID).

3.5.2.2.4 A35 - Merge patient information - account number only

This event is retained for backward compatibility. This event is non-specific and heavily dependent on implementation negotiations. Sites requiring (or desiring) greater specificity can use the following events: A39 (merge person-external ID), A40 (merge person-internal ID), A41 (merge account-patient account number), A42 (merge visit-visit number), A43 (move patient information-internal ID), A44 (move account information-patient account number), A45 (move visit information-visit number), A46 (change external ID), A47 (change internal ID), A48 (change alternate patient ID), A49 (change patient account number), A50 (change visit number), and A51 (change alternate visit ID).

3.5.2.2.5 A36 - Merge patient information - patient ID & account number

This event is retained for backward compatibility. This event is non-specific and heavily dependent on implementation negotiations. Sites requiring (or desiring) greater specificity can use the following events: A39 (merge person-external ID), A40 (merge person-internal ID), A41 (merge account-patient account number), A42 (merge visit-visit number), A43 (move patient information-internal ID), A44 (move account information-patient account number), A45 (move visit information-visit number), A46 (change external ID), A47 (change internal ID), A48 (change alternate patient ID), A49 (change patient account number), A50 (change visit number), and A51 (change alternate visit ID).

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3.5.2.2.6 A39 - merge person - external ID

A39 - Merge person -external ID	
<p>Use Case - Enrollment information from ABC HMO is loaded to a repository system each month. Jane Smith is entered in January and assigned Enterprise Number 1 (E1). Jane marries in February and is erroneously entered as a new person under her married name, Jane Jones (E2). She has visited two healthcare facilities in the enterprise system (facility A and facility B) and has medical records (MR1 and MR2) and accounts (Accounts A and Accounts B) in both facilities. The repository database administrator detects the duplication and initiates a merge.</p>	
<p>Target: <i>PID-2-patient ID-(external ID)</i>. This event is a merge on <i>PID-2-patient ID-(external ID)</i>, since it represents the number used by disparate corporations or facilities to uniquely identify the person.</p>	
<p>Source: <i>MRG-4-prior patient ID-external</i></p>	
<p>Example transaction:</p> <pre>MSH ^~\& REPOSITORY ENT RSP1P8 MCM 199601051530 SEC ADT^A39 0000003 P 2.3<cr> EVN A39 199601051530<cr> PID E1 JONES^JANE ...<cr> MRG E2<cr></pre>	
Before Merge	After Merge
<p>E1 E2</p> <p>MR1 MR2</p> <p>Accounts A Accounts B</p>	<p>E1</p> <p>MR1</p> <p>Accounts A</p> <p>MR2</p> <p>Accounts B</p>
<p>Implementation Considerations: This type of merge is generally initiated by the enterprise system. Depending on the implementation arrangement with other disparate systems they may accept the merge, or, if they “own” their own medical record assignment they may use the information to initiate their own Medical Record Merge event, A40 (merge patient-internal ID), back to the enterprise.</p> <p><i>PID-3-patient ID (internal ID)</i> and <i>MRG-1-prior patient ID (internal ID)</i> are not valued since this event is really a merge at the <i>PID-2-patient ID (external ID)</i> level. All identifiers below the <i>PID-2-patient ID (external ID)</i> are combined under the surviving External ID number.</p> <p>Since there could be a discrepancy in the demographic information between the two records, reconciliation may be required. Surviving and non-surviving demographic information is application and implementation specific. An A31 (update person information) event should be sent and/or negotiated as necessary to provide for implementation and application-specific needs.</p>	

3.5.2.2.7 A40 - merge patient - internal ID

A40 - Merge patient - internal ID	
<p>Use Case - During the admission process, the registrar does not find a record for patient Allison Smith in the ADT system and creates a new record with patient internal ID MR2. Allison Smith has actually been to the healthcare facility several times in the past under her maiden name, Allison Evans with patient internal ID MR1. The problem persists for a while. During that time, several more accounts are assigned to Allison under her newly created patient ID MR2. Finally, the problem is discovered and Medical Records merges her two charts together leaving patient internal ID MR1. All the accounts (ACCT1, ACCT2) that were assigned to MR2 are combined under MR1 as a result.</p>	
<p>Target: <i>PID-3-patient ID (internal ID)</i> (Note: <i>PID-18-patient account number</i> is not valued; all accounts associated with MR2 are combined under MR1). To merge <i>PID-18-patient account number</i> data only, use event A41 (merge account-patient account number). To move <i>PID-18-patient account number</i> data use event A44 (move account information-patient account number).</p>	
<p>Source: <i>MRG-1-prior patient ID (internal ID)</i> (Note: <i>MRG-3-prior patient account number</i> is not valued; all accounts associated with MR2 are combined under MR1.)</p>	
<p>Example Transaction:</p> <pre>MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A40 00000003 P 2.3<cr> EVN A40 199601051530<cr> PID MR1^^^XYZ EVANS^ALLISON ...<cr> MRG MR2^^^XYZ<cr></pre>	
Before Merge	After Merge
MR1 MR2	MR1
ACCT1 ACCT1	ACCT1
ACCT2 ACCT2	ACCT2
	ACCT1
	ACCT2
<p>Implementation Considerations: This scenario exists when two medical records are established for the same person.</p> <p>Since there could be a discrepancy in the demographic information between the two records, reconciliation may be required. In the example above, the implementation allowed the older demographic information (in the PID) to survive. The demographics implied by the IDs in the MRG segment, did not survive. Surviving and non-surviving demographic information is application and implementation specific. An A08 (update patient information) event should be sent and/or negotiated as necessary to provide for implementation and application- specific needs.</p>	

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3.5.2.2.8 A40 - merge patient - internal ID (repeating segment)

A40 - Merge patient - internal ID	
Use Case - During the admission process, the registrar does not find a record for patient Allison Smith in the Patient Administration system and creates a new record with patient internal ID MR2. Allison Smith has actually been to the healthcare facility several times in the past under her maiden name, Allison Evans with patient internal ID MR1. The problem persists for a while. During that time, several more accounts are assigned to Allison under her newly created patient ID MR2. Finally, the problem is discovered and Medical Records merges her two charts together leaving patient internal ID MR1. All the accounts (ACCT1, ACCT2) that were assigned to MR2 are combined under MR1 as a result. Since the account numbers are not unique, they are also renumbered.	
Target: <i>PID-3-patient ID (internal ID)</i> and <i>PID-18-patient account number</i>	
Source: <i>MRG-1-prior patient ID (internal ID)</i> and <i>MRG-3-prior patient account number</i>	
Example Transaction: MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A40 00000003 P 2.3<cr> EVN A40 199601051530<cr> PID MR1^^^XYZ EVANS^ALLISON ACCT3<cr> MRG MR2^^^XYZ ACCT1<cr> PID MR1^^^XYZ EVANS^ALLISON ACCT4<cr> MRG MR2^^^XYZ ACCT2<cr>	
Before Merge	After Merge
MR1 MR2 ACCT1 ACCT1* ACCT2 ACCT2*	MR1 ACCT1 ACCT2 ACCT3* ACCT4* *accounts renumbered
Implementation Considerations: This scenario exists when two medical records are established for the same person. If the account numbers are not unique (as implied by the After Merge example above) and renumbering of the accounts is required, you must use repeating segments as illustrated in the Example Transaction. Refer to Section 3.5.2.1.7, “Global merge and move message construct versus repeating segment message constructs,” for additional information regarding message construct. Since there could be a discrepancy in the demographic information between the two records, reconciliation may be required. In the example above, the implementation allowed the older demographic information (in the PID) to survive. The demographics implied by the IDs in the MRG segment, did not survive. Surviving and non-surviving demographic information is application and implementation specific. An A08 (update patient information) event should be sent and/or negotiated as necessary to provide for implementation and application specific needs.	

3.5.2.2.9 A41 - merge account - patient account number (global)

This event illustrates the concept of a global merge as defined in Section 3.5.2.1.7, “Global merge and move message construct versus repeating segment message constructs.”

A41 - Merge account information - patient account number	
<p>Use Case - Mary Jones (patient internal ID MR1) is a recurring outpatient at the Physical Therapy clinic at hospital XYZ with account number ACCT1. She has visited the clinic several times. When she arrives for therapy, a new registrar does not realize she already has an account and opens a new one with account number ACCT2. When the mistake is discovered, the two accounts are merged together, combining all visits under account ACCT1.</p>	
Target: <i>PID-18-patient account number</i>	
Source: <i>MRG-3-prior patient account number</i>	
<p>Example Transaction:</p> <pre>MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A41 00000005 P 2.3<cr> EVN A41 199601051530<cr> PID MR1^^^XYZ JONES^MARY 19501010 M 123 NORTH STREET^^NY^NY^10021 (212)111-3333 S ACCT1<cr> MRG MR1^^^XYZ ACCT2<cr></pre>	
Before Merge	After Merge
MR1	MR1
ACCT1	ACCT1
96124	96124
96126	96126
ACCT2	96128
96128	96130
96130	
<p>Implementation Considerations: This scenario exists when two accounts are established for the same patient.</p> <p>The PV1 segment is not valued since this event is really a merge at the <i>PID-18-patient account number</i> level. All identifiers below the <i>PID-18-patient account number</i> are combined under the surviving Patient Account Number.</p> <p>Since there could be a discrepancy in the demographic information between the two records, reconciliation may be required. Surviving and non-surviving demographic information is application and implementation specific. An A08 (update patient information) event should be sent and/or negotiated as necessary to provide for implementation and application-specific needs.</p>	

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3.5.2.2.10 A41 - merge account - patient account number (repeating segment)

This event illustrates the concept of a repeating segment merge as defined in 3.5.2.1.7.

A41 - Merge account - patient account number	
<p>Use Case - Mary Jones (patient internal ID MR1) is a recurring outpatient at the Physical Therapy clinic at hospital XYZ with account number ACCT1. She has visited the clinic several times. When she arrives for therapy, a new registrar does not realize she already has an account and opens a new one with account number ACCT2. When the mistake is discovered, the two accounts are merged together, combining all visits under account ACCT1.</p>	
Target: <i>PID-18-patient account number</i> and <i>PV1-19-SSN number-patient</i>	
Source: <i>MRG-3-prior patient account number</i> and <i>MRG-5-prior visit number</i>	
<p>Example Transaction:</p> <pre>MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A41 00000005 P 2.3<cr> EVN A41 199601051530<cr> PID MR1^^^XYZ JONES^MARY 19501010 F 123 NORTH STREET^^NY^NY^10021 (212)111-3333 S ACCT1<cr> MRG MR1^^^XYZ ACCT2 VISIT1<cr> PV1 1 I VISIT3<cr> PID MR1^^^XYZ JONES^MARY 19501010 F 123 NORTH STREET^^NY^NY^10021 (212)111-3333 S ACCT1<cr> MRG MR1^^^XYZ ACCT2 VISIT2 PV1 1 I VISIT4<cr></pre>	
Before Merge	After Merge
MR1	MR1
ACCT1	ACCT1
VISIT1	VISIT1
VISIT2	VISIT2
ACCT2	VISIT3**
VISIT1*	VISIT4**
VISIT2*	**Visits combined and renumbered as a result of merging the account
*Visits erroneously assigned	
<p>Implementation Considerations: This scenario exists when two accounts and associated visits are established for the same patient.</p> <p>Repeating PID/MRG/PV1 segments report each Account Number and Visit Number effected. This construct is required since the visits are renumbered in this example.</p> <p>Since there could be a discrepancy in the demographic information between the two records, reconciliation may be required. Surviving and non-surviving demographic information is application and implementation specific. An A08 (update patient information) event should be sent and/or negotiated as necessary to provide for implementation and application-specific needs.</p>	

3.5.2.2.11 A42 - Merge visit - visit number

A42 - Merge visit - visit number	
<p>Use Case - A42 (merge visit -visit number) - Mary Jones (patient internal ID MR1) is a recurring outpatient at the Physical Therapy clinic at hospital XYZ with account number ACCT1. She has visited the clinic several times. When she arrives for therapy, two different registrars create a new visit numbers. The mistake is not discovered immediately and clinical data is recorded under both visit numbers. When the mistake is discovered, the two visits are merged together, leaving visit VISIT1.</p>	
Target: <i>PV1-19-visit number</i>	
Source: <i>MRG-5-prior visit number</i>	
<p>Example Transaction:</p> <pre>MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A42 00000005 P 2.3<cr> EVN A42 199601051530<cr> PID MR1^^^XYZ JONES^MARY 19501010 F 123 NORTH STREET^^NY^NY^10021 (212)111-3333 S ACCT1<cr> MRG MR1^^^XYZ ACCT1 VISIT2<cr> PV1 1 I VISIT1</pre>	
Before Merge	After Merge
MR1	MR1
ACCT1	ACCT1
VISIT1	VISIT1
VISIT2	
Implementation Considerations: This scenario exists when two visits are established in error for the same patient and episode of care.	

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3.5.2.2.12 A43 - move patient information - internal ID

A43 - Move patient information - internal ID	
<p>Use Case - information from ABC HMO is loaded to a repository system each month. Jane Jones is entered in January and assigned Enterprise Number 1 (E1). Jane has visited Hospital XYZ and is assigned medical record number MR1. Jayne Jones (a different person) is also a member of AMC HMO loaded to the repository and assigned Enterprise Number E2. Jayne has visited Hospital XYZ and is assigned medical record number MR1. Jayne visits Clinic DEF where she is assigned medical record number MR2 which is erroneously associated with Jane's Enterprise Number (E1) When the error is discovered MR2 is moved from Enterprise Number E1 to E2.</p>	
Target: <i>PID-2-patient id (external ID)</i>	
Source: <i>MRG-4-prior patient ID-external</i>	
<p>Example transaction:</p> <pre>MSH ^~\& REPOSITORY ENT RSP1P8 MCM 199601051530 SEC ADT^A43 0000009 P 2.3<cr> EVN A43 199601051530<cr> PID 1 E2 MR2^^^ABCHMO JONES^JAYNE ...<cr> MRG MR2^^^ABCHMO E1<cr></pre>	
Before Move	After Move
E1	E1
E2	E2
MR1	MR1
MR2	MR2
Implementation Considerations: <i>PID-3-patient ID (internal ID)</i> and <i>MRG-1-prior patient ID-internal</i> are the same value since the Internal ID does not change in this scenario.	

3.5.2.2.13 A44 - move account information - patient account number

A44 -Move account information - patient account number	
<p>Use Case - During the admission process, the admitting clerk uses the Medical Record Number of William A. Jones III (MR1) instead of William A. Jones, Jr. (MR2). The Patient Administration system assigns the new admission account number ACCT2. When the mistake is discovered, account ACCT2 is moved to the correct Medical Record, MR2. The account number is not changed.</p>	
<p>Target: <i>PID-3-patient ID (internal ID)</i> and <i>PID-18-patient account number</i> (Note: <i>PID-18-patient account number</i> and <i>MRG-3-prior patient account number</i> will be the same since the account number does not change in this scenario).</p>	
<p>Source: <i>MRG-1-prior patient ID-internal</i> and <i>MRG-3-prior patient account number</i> (NOTE: <i>MRG-3-prior patient account number</i> must be valued to indicate which account to move)</p>	
<p>Example Transaction:</p> <pre>MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A44 00000007 P 2.3<cr> EVN A44 199601051530<cr> PID MR2^^^XYZ JONES^WILLIAM^A^JR 19501010 M 123 EAST STREET^^NY^NY^10021 (212)111- 3333 S ACCT2<cr> MRG MR1^^^XYZ ACCT2<cr></pre>	
Before Move	After Move
MR1 MR2	MR1 MR2
ACCT1 ACCT1	ACCT1 ACCT1
ACCT2	ACCT2
<p>Implementation Considerations: This scenario exists when two medical records legitimately exist for two different people and an account is incorrectly associated with the wrong medical record number.</p>	

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3.5.2.2.14 A45 - move visit information - visit number (repeating segment)

A45 - Move visit information - visit number	
<p>Use Case -Mary Jones (patient internal ID MR1) is a recurring outpatient at the Physical Therapy and Speech Therapy clinics at hospital XYZ. She is assigned a different account for each clinic; her account number for Physical Therapy is ACCT1 and her account number for Speech Therapy is X1. However, on two different occasions, the Speech Therapy registrar accidentally assigned her visits (96102 and 96104) to the Physical Therapy account. The problem is later discovered and the corresponding visits are moved to the correct account.</p>	
<p>Target: <i>PID-18-patient account number</i> and <i>PV1-19-visit number</i>.</p>	
<p>Source: <i>MRG-3-prior patient account number</i> and <i>MRG-5-prior visit number</i>.</p>	
<p>Example Transaction:</p> <pre> MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A45 00000005 P 2.3<cr> EVN A45 199601051530<cr> PID MR1^^^XYZ JONES^MARY 19501010 M 123 NORTH STREET^^NY^NY^10021 (212)111-3333 S X1<cr> MRG MR1^^^XYZ ACCT1 96102<cr> PV1 O PT 96102<cr> MRG MR1^^^XYZ ACCT1 96104<cr> PV1 O PT 96104<cr> </pre>	
Before Move	After Move
MR1	MR1
ACCT1	ACCT1
96100	96100
96102*	X1
96104*	96101
X1	96102
96101	96103
96103	96104
96105	96105
*Visits erroneously assigned	
<p>In the above transaction/implementation, the application that generated the message assigns unique visit numbers.</p> <p>Implementation Considerations: In this scenario the repeating MRG/PV1 construct is used to indicate which visits are moved, as illustrated in the Example Transaction. <i>MRG-5-prior visit number</i> and <i>PV1-19-visit number</i> are the same values because the visit numbers do not change. Refer to Section 3.5.2.1.7, “Global merge and move message construct versus repeating segment message constructs,” for additional information regarding message construct.</p>	

3.5.2.2.15 A45 - move visit information - visit number (repeating segment)

A45 - Move visit information - visit number	
<p>Use Case -Mary Jones (patient internal ID MR1) is a recurring outpatient at the Physical Therapy and Speech Therapy clinics at hospital XYZ. She is assigned a different account for each clinic; her account number for Physical Therapy is ACCT1 and her account number for Speech Therapy is X1. However, on two different occasions, the Speech Therapy registrar accidentally assigned her visits (VISIT2 and VISIT3) to the Physical Therapy account. The problem is later discovered and the corresponding visits are moved to the correct account.</p>	
Target: <i>PID-18-patient account number</i> and <i>PV1-19-visit number</i> .	
Source: <i>MRG-3-prior patient account number</i> and <i>MRG-5-prior visit number</i> .	
<p>Example Transaction:</p> <pre> MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A45 00000005 P 2.3<cr> EVN A45 199601051530<cr> PID MR1^^^XYZ JONES^MARY 19501010 M 123 NORTH STREET^^NY^NY^10021 (212)111-3333 S X1<cr> MRG MR1^^^XYZ ACCT1 VISIT2<cr> PV1 O PT VISIT4<cr> MRG MR1^^^XYZ ACCT1 VISIT3<cr> PV1 O PT VISIT5<cr> </pre>	
Before Move	After Move
MR1	MR1
ACCT1	ACCT1
VISIT1	VISIT1
VISIT2*	X1
VISIT3*	VISIT1
X1	VISIT2
VISIT1	VISIT3
VISIT2	VISIT4**
VISIT3	VISIT5**
*Visits erroneously assigned	**visits moved and renumbered
<p>In the above transaction/implementation, the application that generated the message allows non-unique visit numbers.</p> <p>Implementation Considerations: If Visit Numbers are not unique (as implied by the After Move example above) and renumbering of the visits is required, you must use a repeating MRG/PV1 construct as illustrated in the Example Transaction. Refer to 3.5.2.1.7, “A40-merge patient-internal ID,” for additional information regarding message construct.</p>	

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3.5.2.2.16 A46 - change external ID

A46 - Change external ID	
Use Case - The enterprise system allows manual assignment of the enterprise number. During the manual add of a person to the enterprise, an erroneous enterprise number is entered (E3) for Sally Jones. Since the correct enterprise number (E2) has not yet been assigned, no merge takes place. The Patient External ID is simply changed.	
Target: <i>PID-2-patient ID (external ID)</i>	
Source: <i>MRG-4-prior patient ID-external</i> . This event is a change of <i>PID-2-patient ID (external ID)</i> , external ID since it represents the number used by disparate corporations or facilities to uniquely identify the person.	
Example Transaction: MSH ^~\& REPOSITORY ENT RSP1P8 MCM 199601051530 SEC ADT^A46 000008 P 2.3<cr> EVN A46 199601051530<cr> PID E2 JONES^SALLY ...<cr> MRG E3<cr>	
Before Change	After Change
E3 MR1 ACCT1	E2 MR1 ACCT1
Implementation Considerations: This type of change is generally initiated by the enterprise system.	

3.5.2.2.17 A47 - change internal ID

A47 - Change internal ID	
<p>Use Case - The Medical Records Department of XYZ hospital uses a system of manual medical record number assignment. During the admission process, the registrar accidentally assigned the wrong Medical Record Number (MR2 instead of MR1) to John Meyers. Since the correct Medical Record has not yet been assigned to any patient, no merge takes place. The Patient Internal ID is simply changed.</p>	
Target: <i>PID-3-patient ID (internal ID)</i>	
Source: <i>MRG-1-prior patient ID-internal</i>	
<p>Example Transaction:</p> <pre>MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A47 00000002 P 2.3<cr> EVN A47 199601051530<cr> PID MR1^^^XYZ MEYERS^JOHN 19501010 M 987 SOUTH STREET^^NY^NY^10021 (212)111-3333 S ACCT1<cr> MRG MR2^^^XYZ ACCT1<cr></pre>	
Before Change	After Change
MR2	MR1
ACCT1	ACCT1
Implementation Considerations: None.	

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3.5.2.2.18 A48 - change alternate patient ID

A48 - Change alternate patient ID	
Use Case - The Admitting Department of XYZ hospital uses a system of manual Alternate ID Number assignment. During the admission process, the registrar accidentally assigned the wrong Alternate ID Number (AL2 instead of AL1) to John Meyers. Since the correct Alternate ID Number has not yet been assigned to any patient, the Alternate ID is simply changed.	
Target: <i>PID-4-alternate patient ID-PID</i>	
Source: <i>MRG-2-prior alternate patient ID</i>	
Example Transaction: MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A48 00000002 P 2.3<cr> EVN A48 199601051530<cr> PID MR1^^^XYZ AL1 MEYERS^JOHN<cr> MRG MR1^^^XYZ AL2<cr>	
Before Change	After Change
MR1	MR1
AL2	AL1
Implementation Considerations: None.	

3.5.2.2.19 A49 - change patient account number

A49 - Change patient account number	
<p>Use Case - Patients are automatically assigned an account number by hospital XYZ's Patient Administration system at admission. However, when the Patient Administration system is down, the admitting clerk manually assigns account numbers from a pool of downtime account numbers. John Rodriguez (internal patient ID MR1) was manually assigned downtime account number ACCT1. When the Patient Administration system came back up, the admitting clerk accidentally entered the wrong account number, X1, into the system. When the problem was later discovered, the account number was changed from X1 to ACCT1.</p>	
Target: <i>PID-18-patient account number</i>	
Source: <i>MRG-3-prior patient account number</i>	
<p>Example Transaction:</p> <pre>MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A49 00000006 P 2.3<cr> EVN A49 199601051530<cr> PID MR1^^^XYZ RODRIGUEZ^JOHN 19501010 M 123 SOUTH STREET^^NY^NY^10021 (212)111- 2222 S CAT ACCT1<cr> MRG MR1^^^XYZ X1<cr></pre>	
Before Change	After Change
MR1	MR1
X1	ACCT1
Implementation Considerations: None.	

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3.5.2.2.20 A50 - change visit number

A50 - Change visit number	
<p>Use Case - Patients are automatically assigned a visit number by hospital XYZ's Patient Administration system at check-in. However, when the Patient Administration system is down, the admitting clerk manually assigns visit numbers from a pool of downtime numbers. John Rodriguez (internal patient ID MR1) was manually assigned downtime visit number VISIT1. When the Patient Administration system came back up, the admitting clerk accidentally entered the wrong visit number, VISIT2, into the system. When the problem was later discovered, the visit number was changed from VISIT2 to VISIT1.</p>	
Target: <i>PV1-19-visit number</i>	
Source: <i>MRG-5-prior visit number</i>	
<p>Example Transaction:</p> <pre>MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A50 00000006 P 2.3<cr> EVN A50 199601051530<cr> PID MR1^^^XYZ RODRIGUEZ^JOHN 19501010 M 123 SOUTH STREET^^NY^NY^10021 (212)111- 2222 S CAT ACCT1<cr> MRG MR1^^^XYZ ACCT1 VISIT2<cr> PV1 1 O 3 99^BROWN^JERRY ONC 1 VIP 99^BROWN^JERRY O/P VISIT1...<cr></pre>	
Before Change	After Change
MR1	MR1
ACCT1	ACCT1
VISIT2	VISIT1
Implementation Considerations: None.	

3.5.2.2.21 A51 - change alternate visit ID

A51 - Change alternate visit ID	
<p>Use Case - Patients are automatically assigned an alternate visit number by hospital XYZ's Patient Administration system at check-in. However, when the Patient Administration system is down, the admitting clerk manually assigns alternate visit numbers from a pool of downtime numbers. John Rodriguez was manually assigned downtime alternate visit number AV1. When the Patient Administration system came back up, the admitting clerk accidentally entered the wrong alternate visit number, AV2, into the system. When the problem was later discovered, the alternate visit number was changed from AV2 to AV1.</p>	
Target: <i>PV1-50-alternate visit ID</i>	
Source: <i>MRG-6-prior alternate visit ID</i>	
<p>Example Transaction:</p> <pre> MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SECURITY ADT^A51 00000006 P 2.3<cr> EVN A51 199601051530<cr> PID MR1^^^XYZ RODRIGUEZ^JOHN 19501010 M 123 SOUTH STREET^^NY^NY^10021 (212)111-2222 S CAT ACCT1<cr> MRG MR1^^^XYZ ACCT1 AV2<cr> PV1 1 O 3 99^BROWN^JERRY ONC 1 VIP 99^BROWN^JERRY O/P V1 SP A 19960902081010 AV1<cr> </pre>	
Before Change	After Change
MR1	MR1
ACCT1	ACCT1
VISIT1	VISIT1
AV2	AV1
Implementation Considerations: None.	

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3.5.2.2.22 Example using multiple messages

A47 - Change internal ID and A49 - Change patient account number	
<p>Use Case - Patients are automatically assigned Medical Records Numbers and account numbers by hospital XYZ's Patient Administration system at admission. However, when the Patient Administration system is down, the admitting clerk manually assigns account numbers and Medical Records numbers from a pool of downtime numbers. John Rodriguez was manually assigned downtime Medical Record Number MR1 and downtime account number A1. When the Patient Administration system came back up, the admitting clerk accidentally enters the wrong Medical Record Number (MR2) and account number (X1) into the system. The error occurred because she was reading from the paperwork for a different downtime admit not yet entered into the Patient Administration system. The problem is quickly discovered, and the medical record number and account number was fixed accordingly. Since the other downtime admit had not yet been entered into the Patient Administration system, no merge was required.</p>	
Target: <i>PID-3-patient ID (internal ID)</i> (Message 1) and <i>PID-18-patient account number</i> (Message 2)	
Source: <i>MRG-1-prior patient ID-internal</i> (Message 1) and <i>MRG-3-prior patient account number</i> (Message 2)	
<p>Example Transaction - Message 1:</p> <pre>MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A47 00000006 P 2.3<cr> EVN A47 199601051530<cr> PID MR1^^^XYZ RODRIGUEZ^JOHN 19501010 M 123 SOUTH STREET^^NY^NY^10021 (212)111-2222 S CAT X1<cr> MRG MR2^^^XYZ <cr></pre> <p>Example Transaction - Message 2:</p> <pre>MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A49 00000006 P 2.3<cr> EVN A49 199601051530<cr> PID MR1^^^XYZ RODRIGUEZ^JOHN 19501010 M 123 SOUTH STREET^^NY^NY^10021 (212)111-2222 S CAT ACCT1<cr> MRG MR1^^^XYZ X1<cr></pre>	
Before Change	After Change
MR2	MR1
X1	ACCT1
Implementation Considerations: Message 1 (A47) changes the Internal Number. Message 2, A49 (change patient account number) changes the account number.	

3.5.2.2.23 Example using multiple messages

A44 - Move account information - patient account number and A49 - Change patient account number	
<p>Use Case - During the admitting process, the admitting clerk uses the Medical Record Number of William A. Jones, III (MR1) instead of William A. Jones, Jr. (MR2). The Patient Administration system assigns the new admission account number A1. When the mistake is discovered, the account is moved to the correct Medical Record, MR2. The Patient Administration system generates a new account number as a result: number X1.</p>	
Target: <i>PID-3-patient ID (internal ID)</i> (Message 1) and <i>PID-18-patient account number</i> (Message 2)	
Source: <i>MRG-1-prior patient ID-internal</i> (Message 1) and <i>MRG-3-prior patient account number</i> (Message 2)	
<p>Example Transaction (Message 1):</p> <pre>MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A44 00000007 P 2.3<cr> EVN A44 199601051530<cr> PID MR2^^^XYZ JONES^WILLIAM^A^JR 19501010 M 123 EAST STREET^^NY^NY^10021 (212)111-3333 S ACCT1<cr> MRG MR1^^^XYZ ACCT1<cr></pre> <p>Example Transaction (Message 2):</p> <pre>MSH ^~\& REGADT MCM RSP1P8 MCM 199601051530 SEC ADT^A49 00000007 P 2.3<cr> EVN A49 199601051530<cr> PID MR2^^^XYZ JONES^WILLIAM^A^JR 19501010 M 123 EAST STREET^^NY^NY^10021 (212)111-3333 S X1<cr> MRG MR2^^^XYZ ACCT1<cr></pre>	
Before Change	After Change
MR1 MR2	MR1 MR2
ACCT1	X1
<p>Implementation Considerations: Message 1, A44 (move account information-patient account number), moves the account from MR1 to MR2. Message 2, A49 (change patient account number), changes the account number.</p>	

3.5.3 Patient record links

Linking two or more patients does not require the actual merging of patient information as discussed in Section 3.5.2, “Merging patient/person information;” following a link trigger event, sets of affected patient data records should remain distinct. However, because of differences in database architectures, there may be system-dependent limitations or restrictions regarding the linking of one or more patients that must be negotiated.

3.6 OUTSTANDING ISSUES

None.