

This document lists the H7 message specifications for MealSuite Connect interfaces.

<b>HL7 Message Types</b> .....	<b>2</b>
<b>ADT-A01 – Patient Admit</b> .....	<b>2</b>
Required Message Segments .....	2
Optional Message Segments .....	2
<b>ADT-A02 – Transfer Admit</b> .....	<b>3</b>
Required Message Segments .....	3
<b>ADT-A03 – Patient Discharge</b> .....	<b>3</b>
Required Message Segments .....	3
<b>ADT-A08 – Demographic Update</b> .....	<b>3</b>
Required Message Segments .....	3
Optional Message Segments .....	4
<b>ADT-A21 – Start Leave of Absence</b> .....	<b>4</b>
Required Message Segments .....	4
<b>ADT-A22 – Return from Leave of Absence</b> .....	<b>4</b>
Required Message Segments .....	4
<b>ADT-A60 – Update Allergy</b> .....	<b>4</b>
Required Message Segments .....	5
<b>ORM_001 - General Order (for Diet Orders)</b> .....	<b>5</b>
Required Message Segments .....	5
<b>Message Segments</b> .....	<b>5</b>
<b>MSH: Message Header Segment</b> .....	<b>5</b>
<b>EVN: Event Type Segment</b> .....	<b>6</b>
<b>PID: Patient Identification Segment</b> .....	<b>7</b>
<b>PV1: Patient Visit Segment</b> .....	<b>9</b>
<b>AL1: Patient Allergy Information Segment</b> .....	<b>12</b>
<b>IAM: Patient Averse Reaction Information Segment</b> .....	<b>13</b>
<b>ODS: Dietary Orders, Supplements, and Preferences</b> .....	<b>14</b>

## HL7 Message Types

### ADT-A01 – Patient Admit

The ADT-A01 - Patient Admit message can update the following MealSuite fields in a person's profile:

MealSuite Field	Captured from Message Segment
Title	<a href="#">PID: Patient Identification Segment</a>
First Name	<a href="#">PID: Patient Identification Segment</a>
M.I. (middle initial)	<a href="#">PID: Patient Identification Segment</a>
Last Name	<a href="#">PID: Patient Identification Segment</a>
Gender	<a href="#">PID: Patient Identification Segment</a>
Date of Birth	<a href="#">PID: Patient Identification Segment</a>
Admit Date	<a href="#">EVN: Event Type Segment</a>
Client ID	<a href="#">PID: Patient Identification Segment</a>
MRN (medical registration number)	<a href="#">PID: Patient Identification Segment</a>
Room	<a href="#">PV1: Patient Visit Segment</a>
Allergens	<a href="#">AL1: Patient Allergy Information Segment</a>

#### Required Message Segments

- [MSH: Message Header Segment](#)
- [EVN: Event Type Segment](#)
- [PID: Patient Identification Segment](#)
- [PV1: Patient Visit Segment](#)

#### Optional Message Segments

- [ODS: Dietary Orders, Supplements, and Preferences](#)
- [AL1: Patient Allergy Information Segment](#)

## ADT-A02 – Transfer Admit

The ADT-A02 – Transfer Patient message can update the following MealSuite fields in a person's profile:

MealSuite Field	Captured from Message Segment
Floor	<a href="#">PV1: Patient Visit Segment</a>
Area	<a href="#">PV1: Patient Visit Segment</a>
Room	<a href="#">PV1: Patient Visit Segment</a>
Bed	<a href="#">PV1: Patient Visit Segment</a>

### Required Message Segments

- [MSH: Message Header Segment](#)
- [EVN: Event Type Segment](#)
- [PID: Patient Identification Segment](#)
- [PV1: Patient Visit Segment](#)

## ADT-A03 – Patient Discharge

The ADT-A03 - Patient Discharge message sends a Y or N value in the “30-Patient Death Indicator” element in the PID: Patient Identification Segment.

The Y value informs MealSuite to either archive or delete the person, as per the “Deceased People are” setting in the Connect Interface Settings.

The N value informs MealSuite to either archive or delete the person, as per the “Discharged People are” setting in the Connect Interface Settings.

### Required Message Segments

- [MSH: Message Header Segment](#)
- [EVN: Event Type Segment](#)
- [PID: Patient Identification Segment](#)
- [PV1: Patient Visit Segment](#)

## ADT-A08 – Demographic Update

The ADT-A08 – Demographic Update message can update the following MealSuite fields in a person's profile:

MealSuite Field	Captured from Message Segment
Title	<a href="#">PID: Patient Identification Segment</a>
M.I. (middle initial)	<a href="#">PID: Patient Identification Segment</a>
Gender	<a href="#">PID: Patient Identification Segment</a>
Client ID	<a href="#">PID: Patient Identification Segment</a>
MRN (medical registration number)	<a href="#">PID: Patient Identification Segment</a>
Allergens	<a href="#">AL1: Patient Allergy Information Segment</a>

### Required Message Segments

- [MSH: Message Header Segment](#)
- [EVN: Event Type Segment](#)

- [PID: Patient Identification Segment](#)
- [PV1: Patient Visit Segment](#)

## Optional Message Segments

- [AL1: Patient Allergy Information Segment](#)

## ADT-A21 – Start Leave of Absence

The ADT-A21 – Start Leave of Absence message can update the following MealSuite fields in a person's profile:

MealSuite Field	Captured from Message Segment
Person Off Premise Start Date	<a href="#">EVN: Event Type Segment</a>

For information on the system functionality that occurs when a person is scheduled to be off-premise, see [Marking a Person as Off-Premise/On-Premise](#) in the MealSuite Resource Center.

## Required Message Segments

- [MSH: Message Header Segment](#)
- [EVN: Event Type Segment](#)
- [PID: Patient Identification Segment](#)
- [PV1: Patient Visit Segment](#)

## ADT-A22 – Return from Leave of Absence

The ADT-A22 – Return from Leave of Absence message can update the following MealSuite fields in a person's profile:

MealSuite Field	Captured from Message Segment
Person Off Premise Return Date	<a href="#">EVN: Event Type Segment</a>

For information on the system functionality that occurs when the return date is reached, see [Marking a Person as Off-Premise/On-Premise > What Happens on the Return Date?](#) in the MealSuite Resource Center.

## Required Message Segments

- [MSH: Message Header Segment](#)
- [EVN: Event Type Segment](#)
- [PID: Patient Identification Segment](#)
- [PV1: Patient Visit Segment](#)

## ADT-A60 – Update Allergy

The ADT-A60 – Update Allergy message can update the following MealSuite fields in a person's profile:

MealSuite Field	Captured from Message Segment
Allergens	<a href="#">IAM: Patient Averse Reaction Information</a>

## Required Message Segments

- [MSH: Message Header Segment](#)
- [EVN: Event Type Segment](#)
- [PID: Patient Identification Segment](#)
- [PV1: Patient Visit Segment](#)
- [IAM: Patient Averse Reaction Information](#)

## ORM\_001 - General Order (for Diet Orders)

The ORM-O01 message carries an identifier that either adds to a diet type in a person's profile or cancels a diet order (diet type, texture type, fluid type) in a person's profile. The identifier is carried in the Action element in the [ODS: Dietary Orders, Supplements, and Preferences](#) segment of the message.

MealSuite Field	Captured from Message Segment
Diets	<a href="#">ODS: Dietary Orders, Supplements, and Preferences</a>
Texture	<a href="#">ODS: Dietary Orders, Supplements, and Preferences</a>
Fluid	<a href="#">ODS: Dietary Orders, Supplements, and Preferences</a>
Standard Diet Intervention	<a href="#">ODS: Dietary Orders, Supplements, and Preferences</a>
Profile Notes	<a href="#">ODS: Dietary Orders, Supplements, and Preferences</a>

## Required Message Segments

- [MSH: Message Header Segment](#)
- [EVN: Event Type Segment](#)
- [PID: Patient Identification Segment](#)
- [PV1: Patient Visit Segment](#)
- [ODS: Dietary Orders, Supplements, and Preferences](#)

## Message Segments

### MSH: Message Header Segment

Below are the fields contained in the MSH segment.

Fields indicated as required are needed for a successful call to a MealSuite Connect interface.

Field Name	Type	Description	Required
1-Field Separator	ST	Separates fields in a message Use the pipe character:	Y
2-Encoding Characters	ST	Defines the other separator characters in following order: component, field repeat, escape character, subcomponent. Use the following characters: ^~\&	Y
3-Sending Application	HD		
4-Sending Facility	HD	Vendor-specific facility ID (initially provided by MealSuite).	Y

Field Name	Type	Description	Required
5-Receiving Application	HD		
6-Receiving Facility	HD		
7-Date/Time of Message	DTM		
8-Security	ST		
9-Message Type	MSG	Specifies what type of message is being transmitted (e.g., ADT) and what the trigger event is (e.g., A01). Format: <Message type>^<Trigger event> Example: ADT^A01	Y
10-Message Control ID	ST	This field contains a number or other identifier that uniquely identifies the message. The MealSuite system returns this ID back to the sending system in the message acknowledgment segment (MSA).	Y
11-Processing ID	PT	Specifies the HL7 processing ID (or processing mode). Values include: <b>D</b> - debugging <b>P</b> - production <b>T</b> - training	Y
12-Version ID	VID	HL7 version used in the message. Use latest version (2.8).	Y
13-Sequence Number	NM		
14-Continuation Pointer	ST		
15-Accept Acknowledgment Type	ID		
16-Application Acknowledgment Type	ID		
17-Country Code	ID		

## EVN: Event Type Segment

Below are the fields contained in the EVN segment.

Fields indicated as required are needed for a successful call to a MealSuite Connect interface.

Fields highlighted grey are captured by the MealSuite UI.

Field Name	Type	Description	Required	Maps To
1-Event Type Code	ID	The HL7 event type code. Example: A01	Y	

Field Name	Type	Description	Required	Maps To
2-Recorded Date/Time	TS	The recorded date and time of the event. Standard HL7 timestamp: yyyymmddhhmmss	N	Admit Date field (for <a href="#">ADT-01 - Patient Admit message</a> ).  However, if “2-Recorded/Date Time” is not sent, then MealSuite inputs the current date in the <b>Admit Date</b> field.
			N	<b>Person Off Premise Start Date</b> field (for <a href="#">ADT-A21 - Start Leave of Absence message</a> ).  However, if “2-Recorded/Date Time” is not sent, then MealSuite inputs the current date in the <b>Person Off Premise Start Date</b> field.
			Y	<b>Person Off Premise End Date</b> field (for <a href="#">ADT-A22 - Return from Leave of Absence message</a> ).
3-Date/Time Planned Event	TS			
4-Event Reason Code	IS			
5-Operator ID	XCN			
6-Event Occurred	TS			

## PID: Patient Identification Segment

Below are the fields contained in the PID segment.

Fields indicated as required are needed for a successful call to a MealSuite Connect interface.

Fields highlighted grey are captured by the MealSuite UI.

Field Name	Type	Description	Required	Maps To
1-Set ID – PID	SI			
2-Patient ID (External ID)	CX		N	Client ID
3-Patient ID (Internal ID)	CX		N	Client ID (only if the “2-Patient ID (External ID)” element is empty.
4-Alternate Patient ID	CX			
5.1-Family Name	ST		Y	First Name

# HL7 Message Specifications for MealSuite Connect Interfaces

Field Name	Type	Description	Required	Maps To
5.2-Given Name	ST		Y	Last Name
5.3-Middle Initial or Name	ST		N	M.I.
5.5-Prefix	ST		N	Title
6-Mother's Maiden Name	XPN			
7-Date/Time of Birth	TS	Standard HL7 timestamp: yyyymmdd	Y	Date of Birth (for <a href="#">ADT-A01 - Patient Admit message</a> ).  However, if "7-Date/Time of Birth" is not sent in an <a href="#">ADT-A01 - Patient Admit message</a> , then MealSuite inputs the default date of "Jan 01, 1900" in the Date of Birth field.
8-Sex	IS	Possible values: <b>M</b> - Male <b>F</b> -Female <b>O</b> - Other	N	Gender  If no value is sent, then MealSuite inputs "Other" into the Gender field
9-Patient Alias	XPN			
10-Race	IS			
11-Patient Address	XAD			
11.1-Street Address	ST			
11.3-Other Designation	ST			
11.3-City	ST			
11.4-State or Province	ST			
11.5-Zip or Postal Code	ST			
11.6-Country	ST			
12-Country Code	IS			
13-Phone Number - Home	XTN			
14-Phone Number - Business	XTN			
15-Primary Language	CE			
16-Marital Status	IS			
17-Religion	IS			



Field Name	Type	Description	Required	Maps To
18-Patient Account Number	CX		N	MRN
19-SSN Number - Patient	ST			
20-Driver's License Number - Patient	DLN			
21-Mother's Identifier	CX			
22-Ethnic Group	IS			
23-Birth Place	ST			
24-Multiple Birth Indicator	ID			
25-Birth Order	NM			
26-Citizenship	IS			
27-Veteran's Military Status	CE			
28-Nationality	CE			
29-Patient Death Date and Time	TS			
30-Patient Death Indicator	ID	Y - The patient is deceased	Y or N value required for <a href="#">ADT-A03 - Patient Discharge message</a> .	Does not map to a MealSuite field, but the value informs MealSuite to either archive or delete the person, as per the "Deceased People are" setting in the Connect Interface Settings.
		N - The patient is not deceased		Does not map to a MealSuite field, but the value informs MealSuite to either archive or delete the person, as per the "Discharged people are" setting in the Connect Interface Settings.

## PV1: Patient Visit Segment

Below are the fields contained in the PV1 segment.

Fields indicated as required are needed for a successful call to a MealSuite Connect interface.

Fields highlighted grey are captured by the MealSuite UI.

Field Name	Type	Required	Maps To
1-Set ID – PV1	ST		
2-Patient Class	ID		

# HL7 Message Specifications for MealSuite Connect Interfaces

Field Name	Type	Required	Maps To
3.2-Room	ST	Required for <a href="#">ADT-A02 - Transfer Patient message</a> .	Room
3.3-Bed	ST	Required for <a href="#">ADT-A02 - Transfer Patient message</a> .	Bed
3.4-Facility	ST	Required for <a href="#">ADT-A02 - Transfer Patient message</a> .	Area
3.8-Floor	ST	Required for <a href="#">ADT-A02 - Transfer Patient message</a> .	Floor
4-Admission Type	ID		
5-Pre-admit Number	CX		
6-Prior Patient Location	PL		
7-Attending Doctor	XCN		
8-Referring Doctor	XCN		
9-Consulting Doctor	XCN		
10-Hospital Service	IS		
11-Temporary Location	PL		
12-Pre-admit Test Indicator	IS		
13-Re-admission Indicator	IS		
14-Admit Source	IS		
15-Ambulatory Status	IS		
16-VIP Indicator	IS		
17-Admitting Doctor	XCN		
18-Patient Type	IS		
19-Visit Number	CX		
20-Financial Class	FC		
21-Charge Price Indicator	IS		
22-Courtesy Code	IS		
23-Credit Rating	IS		
24-Contract Code	IS		
25-Contract Effective	DT		

# HL7 Message Specifications for MealSuite Connect Interfaces

Field Name	Type	Required	Maps To
Date			
26-Contract Amount	NM		
27-Contract Period	NM		
28-Interest Code	IS		
29-Transfer to Bad Debt Code	IS		
30-Transfer to Bad Debt Date	DT		
31-Bad Debt Agency Code	IS		
32-Bad Debt Transfer Amount	NM		
33-Bad Debt Recovery Amount	NM		
34-Delete Account Indicator	IS		
35-Delete Account Date	DT		
36-Discharge Disposition	IS		
37-Dischargeed to Location	CM-DLD		
38-Diet Type	IS		
39-Servicing Facility	IS		
40-Bed Status	IS		
41-Account Status	IS		
42-Pending Location	PL		
43-Prior Temporary Location	PL		
44-Admit Date/Time	TS	Not required for an <a href="#">ADT-A01 Patient Admit message</a> because MealSuite uses the "2-Recorded Date/Time" field from the EVN Type segment to map to the Admit Date field.	
45-Discharge Date/Time	TS	Not required for an <a href="#">ADT-A03 - Patient Discharge message</a> because MealSuite uses the current date the message is sent.	

Field Name	Type	Required	Maps To
46-Current Patient Balance	NM		
47-Total Charges	NM		
48-Total Adjustments	NM		
49-Total Payments	CX		
50-Alternate Visit ID	CX		
51-Visit Indicator	IS		
52-Other Healthcare Provider	XCN		

## AL1: Patient Allergy Information Segment

Most EHRs send allergy info through the AL1 segment, which is included in the [ADT-A01 - Patient Admit message](#) and the [ADT-A08 - Demographic Update message](#). The other means to send allergy info is via the [ADT-A60 - Update Allergy message](#).

Below are the fields contained in the AL1 segment.

Fields indicated as required are needed for a successful call to a MealSuite Connect interface.

Fields highlighted grey are captured by the MealSuite UI.

Field Name	Type	Description	Required
1.1 - Set ID - AL1	SI	The AL1 is a repeating segment with each allergy containing a unique Set ID number. As such, the Set ID of the first allergy is 1, the Set ID of the second allergy is 2, etc.	Y
1.2 - Allergy Type	IS	Generally, a food allergy is indicated as FA. Non-food allergy codes are ignored by MealSuite.	Y
1.3 - Allergy Code/Mnemonic/Description	ST	Maps to the <b>Allergens</b> field in a MealSuite people profile.	Y
1.4 - Allergy Severity	IS	NA	N
1.5 - Allergy Reaction	ST	NA	N
1.6 - Identification Date	DT	NA	N

## IAM: Patient Averse Reaction Information Segment

Below are the fields contained in the IAM segment.

Fields indicated as required are needed for a successful call to a MealSuite Connect interface.

Fields highlighted grey are captured by the MealSuite UI.

Field Name	Type	Description	Required
1 - Set ID - IAM	SI		
2 - Allergen Type Code	CE	Enter FA for Food Allergy.	N
3.1 - Allergen Code > Identifier	ST	Drug framework substance identifier	N (but preferred)
3.2 - Allergen Code > Text	ST	Substance description (i.e., name of allergen) Maps to the <b>Allergens</b> field in a MealSuite people profile.	Y
3.3 - Allergen Code > Type	ST	Possible values: Allergy Intolerance	N If value is not sent, then MealSuite treats it as allergy.
4 - Allergy Severity Code	CE		
5 - Allergy Reaction Code	ST		
6 - Allergy Action Code	CNE	Values: A - add allergy D - delete U - update allergy	Y
7 - Allergy Unique Identifier	EI		
8 - Action Reason	ST		
9 - Sensitivity to Causative Agent Code	CE		
10 - Allergen Group Code/Mnemonic/Description	CE		
11 - Onset Date	DT		
12 - Onset Date Text	ST		
13 - Report Date/Time	TS		
14 - Reported By	XPN		
15 - Relationship to Patient Code	CE		
16 - Alert Device Code	CE		

Field Name	Type	Description	Required
17 - Allergy Clinical Status Code	CE		
18 - Stated by Person	XCN		
19 - Stated by Organization	XCN		
20 - Stated at Date/Time	TS		

## ODS: Dietary Orders, Supplements, and Preferences

Below are the fields contained in the ODS segment.

Fields indicated as required are needed for a successful call to a MealSuite Connect interface.

Fields highlighted grey are captured on the MealSuite UI.

Field Name	Description	Required	Maps To
Segment ID	Unique ID to identify transaction	Y	-
Service Period	The MealSuite system assumes that the diet order will be for all service periods.	N	-
DietSupplementOrPreferenceCode	Contains D as the value (to indicate diet code).	Y	-
Diet	Contains diet type(s).	N if API settings have the <b>Process Partial Orders</b> setting enabled. Y if API settings have the <b>Process Partial Orders</b> setting disabled.*	Diet element maps to <b>Diets</b> field.
Texture	Contains texture type.	N if API settings have the <b>Process Partial Orders</b> setting enabled. Y if API settings have the <b>Process Partial Orders</b> setting disabled.*	Texture element maps to <b>Texture</b> field.
Fluid	Contains fluid type.	N if API settings have the <b>Process Partial Orders</b> setting enabled. Y if API settings have	Fluid element maps to <b>Fluid</b> field.

Field Name	Description	Required	Maps To
		the <b>Process Partial Orders</b> setting disabled.*	
Modifiers	Contains diet intervention.	N	Modifiers element maps to <b>Standard Diet Interventions</b> field.
NPOFlag	Contains "true" or "false"	N	NPOFlag = "true" then "NPO" value is mapped to <b>Diets, Texture</b> and <b>Fluid</b> fields.  NPOFlag = "false" then "NPO" value is removed from <b>Diets, Texture</b> and <b>Fluid</b> fields.
DietaryNotes	Contains any notes.	N	DietaryNotes maps to <b>Profile Notes</b>
Action	If API settings have the <b>Add &amp; Cancel</b> setting enabled, the Action field indicates if the diet order message is an add/new (Add or NW) or a discontinued/cancel (CA or OD) to a person's profile in MealSuite.	Y if the API settings have the <b>Add &amp; Cancel</b> setting enabled.  N if the API settings have the <b>Replace</b> setting enabled.**	-

\*Contact your MealSuite support representative for more information about processing partial diet orders in a Connect message.

\*\*Contact your MealSuite support representative for more information on adding to existing diet orders or replacing diet orders.