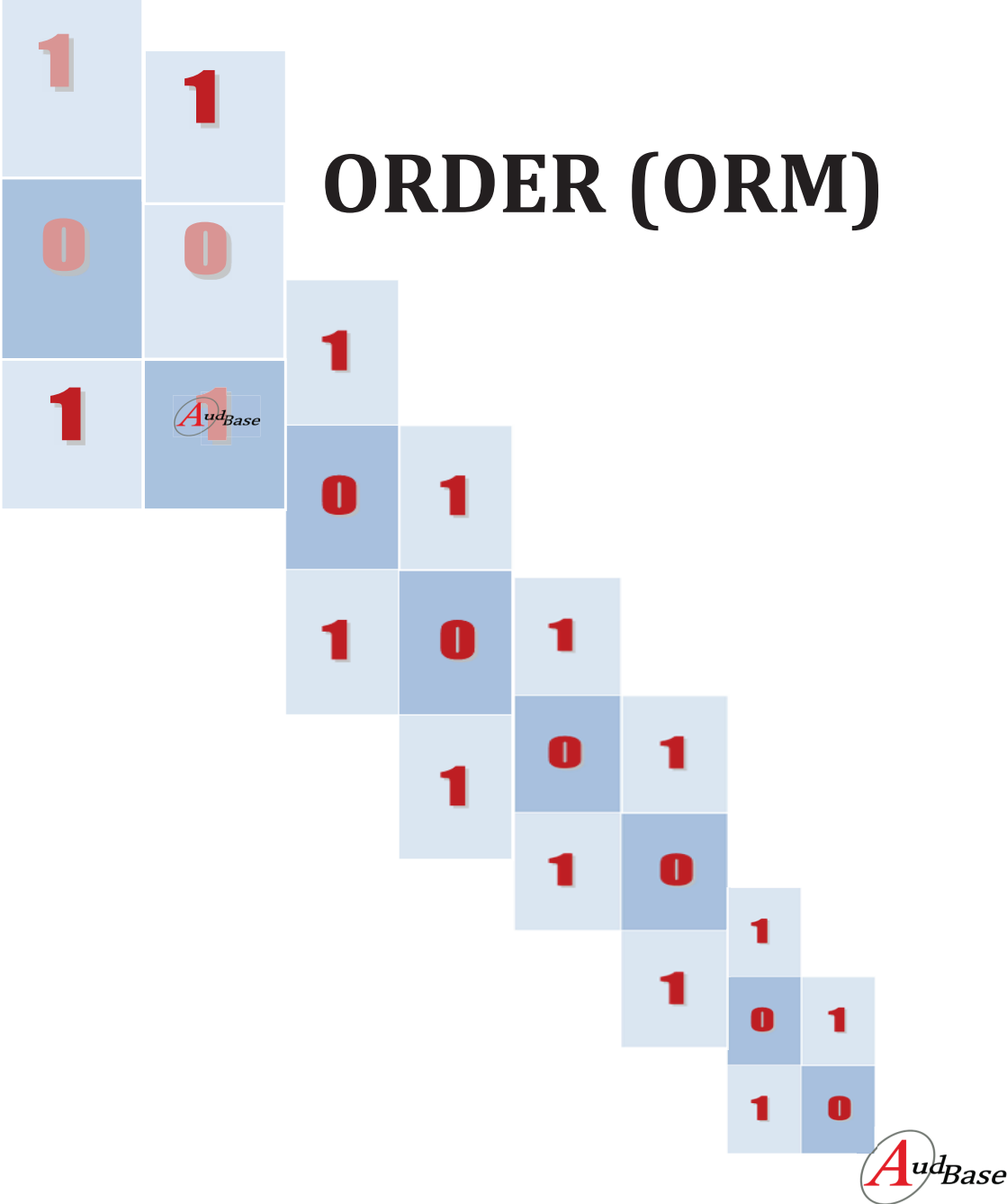


ORDER (ORM)



HL7 ORM–Order Message

With respect to the AudBase interface the HL7 ORM-O01 message functions as a general order message. Trigger events for the ORM-O01 message involve changes to an order such as new orders, cancellations, information updates, discontinuation, etc.

SEGMENT/ GROUP	NAME	OPTIONAL
MSH	Message header	Required
NTE	Notes and comments	Optional
Patient Group – Optional group (Required for new orders pertaining to a patient only)		
PID	Patient identification	Required
PID1	Patient demographics	Optional
NTE-1	Notes and comments	Optional
Patient Visit Group – Optional group, part of Patient Group		
PV1	Patient visit	Required
PV2	Patient visit – additional info	Optional
Insurance Group – Optional group, part of Patient Group		
IN1	Insurance	Unused
IN2	Insurance additional info	Unused
IN3	Insurance additional info certification	Unused
Order Group		
GT1	Guarantor	Optional CF
AL1	Patient allergy information	Unused
Order Group		
ORC	Common order	Required
Order Group		
OBR	Observation request	Required
NTE-2	Notes and comments	Optional CF
DG1	Diagnosis	Optional
Observation Group – part of Order Detail Group		
OBX	Observation	Optional
NTE-3	Notes and comments	Optional CF
Order Group continued		
CTI	Clinical trial identification	Optional CF
BLG	Billing	Optional CF

R Mandatory Segments /Groups included by AudBase in the result message. **W** Will not be employed by AudBase.
 Optional – Optional fields that may be included if noted in the message design form at no additional charge.
 Optional CF— Optional fields that may be requested to be included in message, which may require an additional customization fee.

Message Header

The HL7 MSH (Message Header) segment is present in every HL7 message type and defines the message's source, purpose, destination and character sets. It is always the first segment in a single HL7 message. Audbase will make use of the header information such as Event Type, Date and Time, location origin of message, sending application (HIS) and . Message Control ID.

Message Header

Element number	1	2	3	4	5	6	7	8	9	10	11	12	14	17												
	MSH		^	~		&		EPIC		AUDBASE		20140429085630		MMOUSE		ORM^O01		3806		P						

SEQ	Format	Option	Element / Field Name
1	ST	R	Field Separator
2	ST	R	Encoding Characters
3	HD	R	Sending Application
4	HD	R	Sending Facility
5	HD	O	Receiving Application
6	HD	O	Receiving Facility
7	TS	R	Date/Time of Message
8	ST	O	Security
9	CM_MSG	R	Message Type
10	ST	R	Message Control Id
11	PT	R	Processing Id
12	ID	R	Version Id
13	NM	O	Sequence Number
14	ST	O	Continuation Pointer
15	ID	O	Accept Acknowledgement Type
16	ID	O	Application Acknowledgement Type
17	ID	O	Country Code
18	ID	O	Character Set
19	CE	O	Principal Language of Message

Encoding Characters (SEQ #2)

Character	Name	Purpose
	Field separator (pipe)	Separates fields in a message
^	Component separator (hat)	Separates components in a field
~	Field repeat separator	Separates repeated fields in a segment
\	Escape character	Used to signal special characters in a field of text (i.e. \H\ = start highlighting; \F\ = component separator)
&	Sub-component separator	Separates components within components (see Data Types)

PID — Patient Identification Segment

The PID segment is found in every ORM message and contains 30 different fields with values ranging from patient ID number, to address, to marital status. The PID segment provides important identification information about the patient and is used as the primary means of communicating the identifying and demographic information about a patient between systems. Audbase will make use of the pertinent demographics within the PID Segment

PID — Patient Identification Segment

```

Element number   1 2           3           4           5           6           7           8 9 10
PID|1||10006579^^^1^MRN^1||DUCK^DONALD^D||19241010|M||1|111 DUCK

Element number   11           12 13           14           15           18
ST^^FOWL^CA^9999990000^^M|1|8885551212|8885551212|1|2||40007716^^^AudBase^VN^1

Element number   19           21 25 30
|123121234||| || || || || || || || || NO
  
```

SEQ	Format	Option	Element / Field Name
0		R	Segment ID = "PID"
1	SI	O	Set ID - Patient ID
2	CX	O	Patient ID (External ID)
3	CX	R	Patient ID (Internal ID)
4	CX	O	Alternate Patient ID - PID
5	PN	R	Patient Name
6	PN	O	Mother's Maiden Name
7	TS	R	Date/Time of Birth
8	IS	R	Sex
9	PN	O	Patient Alias
10	IS	R	Race
11	AD	R	Patient Address
12	IS	O	County Code
13	TN	O	Phone Number - Home
14	TN	O	Phone Number - Business
15	CE	O	Primary Language
16	IS	O	Marital Status
17	IS	O	Religion
18	CX	R	Patient Account Number
19	ST	O	SSN Number - Patient
20	ST	O	Driver's License Number - Patient
21	CX	O	Mother's Identifier
22	IS	O	Ethnic Group
23	ST	O	Birth Place
24	ID	O	Multiple Birth Indicator
25	NM	O	Birth Order
26	IS	O	Citizenship
27	CE	O	Veterans Military Status
28	CE	O	Nationality
29	TS	O	Patient Death Date and Time
30	ID	O	Patient Death Indicator

ORC — Order Common

The Common Order segment (ORC) is used to transmit fields that are common to all orders (all types of services that are requested). The ORC segment is required in the Order (ORM) message. ORC is mandatory in Order Acknowledgment (ORR) messages if an order detail segment is present, but is not required otherwise..

ORC — Order Common									
Element number	1	2	3	4	5 6	7	8	9	
									ORC NW 36146391^EPC 81999999 ^^^20140429^R 201404290856
Element number	10	11	12						
				MICKE^GREAT^MONEY^CANDYMANIA 13085^SALSALO^PAMELA					
Element number	13	14							
			100101037^^^100101^^^^AUDIOLOGY MAIN (XXX)XXX-7701						
Element number	15 17	18	19	25	29				
						^^^^XXX^XXX7701 BOB4504A^BOB4504A O			

SEQ	Format	Option	Element / Field Name
0		R	Segment ID = "ORC"
1	ST	R	Order control
2	CM	R	Placer order number
3	CM	O	Filler order number
4	CM	O	Placer group number
5	ST	O	Order status
6	ST	O	Response flag
7	CM	O/R	Timing / Quantity
8	CM	O	Parent
9	TS	R	Transaction date/time
10	CN	O	Entered by
11	CN	O	Verified by
12	CN	O	Ordering provider
13	CM	O	Location for enterer
14	TN	O	Call back phone number
15	TS	O	Order effective date/ time
16	CE	O	Order control reason
17	CE	O	Entering organization
18	CE	O	Entering device

ORR — Order (ORM) Acknowledgement

SEQ	Format	Option	Element / Field Name
0		R	Segment ID = "ORC"
1	ST	R	Order control
2	CM	R	Placer order number
3	CM	O	Filler order number
4	CM	O	Placer group number
5	ST	O	Order status
6	ST	O	Response flag
7	CM	O/R	Timing / Quantity
8	CM	O	Parent

OBR — Observation Reports

The HL7 OBR segment transmits information about an exam, diagnostic study/observation, or assessment that is specific to an order or result. It is used most frequently in ORM (Order) and ORU (Observation Result) messages, and has an important role in carrying the placer and filler order numbers.

Element number	1	2	3	4	5	6
	OBR	1 36775000^EPC	AUD00001^AUDIOGRAM^AUDSFT^^AUDIOGRAM			20140429
Element number				11	16	
	20140429083443	20140429083443	Y	1733^AMOUSE^MICKEY		
Element number	17	20	24			
	(XXX)999-4059^^^	^XXX^9994059		20140429083443	Audiology F	
Element number		27	30	40	43	
	^^^20140429^R					

SEQ	Format	Option	Element / Field Name
1	SI	R	Set ID - OBR
2	EI	R	Placer Order Number
3	EI	R	Filler Order Number
4	CE	R	Universal Service Identifier
5	ID	O	Priority
6	TS	R	Requested Date/Time
7	TS	R	Observation Date/Time
8	TS	R	Observation End Date/Time
9	CQ	O	Collection Volume
10	XCN	O	Collector Identifier
11	ID	O	Specimen Action Code
12	CE	O	Danger Code
13	ST	O	Relevant Clinical Info.
14	TS	O	Specimen Received Date/Time
15	CM	O	Specimen Source
16	XCN	O	Ordering Provider
17	XTN	O	Order Callback Phone Number
18	ST	O	Placer Field 1
19	ST	O	Placer Field 2
20	ST	O	Filler Field 1
21	ST	O	Filler Field 2
22	TS	O	Results Report/Status Change - Date/Time
23	CM	O	Charge To Practice
24	ID	O	Diagnostic Serv Sect ID
25	ID	O	Result Status
26	CM	O	Parent Result
27	TQ	O	Quantity/Timing
28	XCN	O	Result Copies To
29	CM	O	Parent Number
31	CE	O	Reason For Study
32	CM	O	Principal Result Interpreter
33	CM	O	Assistant Result Interpreter
34	CM	O	Technician
35	CM	O	Transcriptionist
36	TS	O	Scheduled Date/Time
38	CE	O	Number Of Sample Containers
39	CE	O	Transport Logistics Of Collected Samples

OBX — Observation Result

The OBX segment in this case is primarily used to carry key clinical details with respect to the testing ordered and as a reference to the content and configuration of the OBX segment/s within the Observation Result message (ORU). Also to prepare the host system for the data values. AudBase will result the audiogram within an ORU specifically OBX segment 5 and generally will identify the Audiogram result as encapsulated data (ED). messages and return the message to the EMR with the report or clinical information in the OBX-5 segment. In this case the ORM is used by the receiving system (HIS) to process the observation. See ORU

OBX — Observation Result

Element number 1 2 3 4
 OBX | 1 | ED | AUDDOC^^^AUDSFLLRR | |

Element number

SEQ	Format	Option	Element / Field Name
0		R	Segment ID = "OBX"
1	SI	O	Set ID - OBX
2*	ID	R	Value Type (ED, RP, TX or FT)
3	CE	R	Observation Identifier
4	ST	O	Observation Sub-ID
5	NM	O	Observation Value
6	CE	O	Units
7	ST	O	References Range
8	ID	O	Abnormal Flags
9	NM	O	Probability
10	ID	O	Nature of Abnormal Test
11	ID	O	Result Status (P=Preliminary, F=Final)
12	TS	O	Date of Last Normal Values
13	ST	O	User Defined Access Checks
14	TS	O	Date/Time of the Observation
15	CE	O	Producer's ID
16	CN	O	Responsible Observer
17	CE	O	Observation Method

Observation Result (SEQ 2*)

Value Type	Description
ED	Encapsulated Data
FT	Formatted Text
TX	Text Data
RP	Reference Pointer or UNC Name

DG1 — Diagnosis

In this case the DG1 segment is used to instruct the test/s needed for a patient diagnosis. All diagnosis will be transmitted individually. If there is a new diagnosis, or a change in any of the diagnoses, they should all be re-transmitted to the interface. AudBase will employ elements such as DG code , description , date/time etc...

DG1 — Diagnosis

```

Element number      1  2                               3
                   DG1|1|DX|XXX.15^audiogram comprehensive, unilateral^DX|
Element number      4                               5 6 7 10 14
                   audiogram comprehensive, unilateral|||||||
    
```

SEQ	Format	Option	Element / Field Name
0		R	Segment ID = "DG1"
1	SI	O	Set ID - Diagnosis
2	ID	R	Diagnosis coding method
3	ID	R	Diagnosis code
4	ST	R	Diagnosis description
5	TS	R	Diagnosis date/time
6	ID	O	Diagnosis/DRG type
7	ST	O	Major diagnostic category
8	ID	O	Diagnosis related group (DRG)
9	ID	O	DRG approval indicator
10	ID	O	DRG grouper review code
11	ID	O	Outlier type
12	NM	O	Outlier days
13	NM	O	Outlier cost
14	ST	O	Grouper version and type

OBR|1|20060307110114||003038^Urinalysis^L||20060307110114