

V2-FHIR Mapping - Segment: MSH[General]

v2 Description: <segment description>

FHIR Description (<resource goes here>): <resource description>

Homework:

- Review v2-to-FHIR threads on Zulip
 - Come back and talk about version ID and profile ID
- What is the best way to send a sender or responsible organization when there is minimal data (maybe only a name)
- Send examples to Craig to compare to this mapping

Mapping to <resource>

HL7 V2					HL7 FHIR					Comments
Name	Definition	D a t a T y p e	C a r d i n a l i t y	M a p p i n g R u l e s	Name	Definition	D a t a T 	C a r d i n a l i t y	M a p p i n g R u l e s	
					MessageHeader.id					
MSH-01.00.00 - Field Separator	This field contains the separator between the segment ID and the first real field, MSH-2 Encoding Characters.	ST	1..1		N/A					Field separators are not used in FHIR. Either XML or JSON or
MSH-02.00.00 - Encoding Characters	This field contains five characters in the following order: the component separator, repetition separator, escape character, subcomponent separator, and truncation character. Recommended values are ^~\& #(ASCII 94, 126, 92, 38, and 35, respectively).	ST	1..1		N/A					Encoding characters are not used in FHIR.
MSH-03.00.00 - Sending Application	This field uniquely identifies the sending application among all other applications within the network enterprise.	HD	0..1		MessageHeader.source		Backbone Element			
MSH-03.01.00 - Sending Application : Namespace ID	User-defined table 0300 - Namespace ID is used as the HL7 identifier for the user-defined table of values for this component.	IS			IF uri THEN MessageHeader.source.endpoint ELSE MessageHeader.source.name AND MessageHeader.source.#ext-endpoint-v2namespaceidentifier# AND Provenance.agent.who (Device.identifier.value) Provenance.agent.who (Device.identifier.system) is NOT valued.		string			Example: MSH[^-%\LAB]... If taking Provenance, should have both an instance of the original source (which may include a binary of the full v2 message) as well as an instance of the transformation. See v2-to-FHIR Provenance . It also may be that depending on how the v2 message is transformed, either into a FHIR message, or a FHIR "something else", would yield MessageHeader and/or Provenance for this data.
MSH-03.02.00 - Sending Application : Universal ID	The HD's second component, <universal ID (UID), is a string formatted according to the scheme defined by the third component, <universal ID type> (UID type). The UID is intended to be unique over time with-in the UID type. It is rigorously defined. Each UID must belong to one of the specifically enumerated schemes for constructing UID's (defined by the UID type). The UID (second component) must follow the syntactic rules of the particular universal identifier scheme (defined by the third component_). Note that these syntactic rules are not defined within HL7 but are defined by the rules of the particular universal identifier scheme (defined by the third component).	ST			MessageHeader.source.#ext-v2nameAssignmentIdentifier# AND The identifier of the organization that established the MessageHeader.source.name.		String			Example: MSH[^-%\LAB^2.16.840.1.113883.3.987.1^ISO]...

					Provenance.agent.who (Device.identifier.value) and if unique then Provenance.agent.who (Device.identifier.system="urn:ietf:rfc:3986") (or whatever)	Use identifier?? If not, consider Organization??		Provenance??
MSH-03.03.00 - Sending Application : Universal ID Type	The third component governs the interpretation of the second component of the HD. If the third component is a known UID refer to HL7 table 0301 - Universal ID type for valid values, then the second component is a universal ID of that type.	ID		MessageHeader.source.#ext-assigningAuthority# AND Provenance.agent.who (Device.	The UID of the code system according to which MessageHeader.source.#ext-nameAssignmentIdentifier#.	String Use identifier?? If not, consider Organization??		Example: MSH[^-%[LAB^2.16.840.1.113883.3.987.1^ISO]...
MSH-04.00.00 - Sending Facility	This field further describes the sending application, MSH-3 Sending Application.	HD	0..1	MessageHeader.sender		Reference (Organization)	If MSH-24 is not valued, then MSH-04 is used to map also into MessageHeader.source.endpoint	How do we represent HD and identifiers? Need to work with InM. Should consider aligning sender/receiver constructs. Open gForge to request that
MSH-04.01.00 - Sending Facility : Namespace ID	User-defined table 0300 - Namespace ID is used as the HL7 identifier for the user-defined table of values for this component.	IS		MessageHeader.sender (Organization.identifier.value) MessageHeader.sender.endpoint			Normally, only MSH-04.01.00 OR MSH-04.02.00 is valued. If both are valued, each creates a separate identifier instance. If MSH-24 is not valued, then MSH-04 is used to map also into MessageHeader.source.endpoint	MessageHeader.source.endpoint is 0..1. Must be a reachable address.
MSH-04.02.00 - Sending Facility : Universal ID	The HD's second component, <universal ID (UID)>, is a string formatted according to the scheme defined by the third component, <universal ID type> (UID type). The UID is intended to be unique over time with-in the UID type. It is rigorously defined. Each UID must belong to one of the specifically enumerated schemes for constructing UID's (defined by the UID type). The UID (second component) must follow the syntactic rules of the particular universal identifier scheme (defined by the third component). Note that these syntactic rules are not defined within HL7 but are defined by the rules of the particular universal identifier scheme (defined by the third component).	ST		MessageHeader.sender (Organization.identifier.value)		Reference (Organization)	If MSH-04.02.00 is an OID or UUID (MSH-04.03.00="ISO" or "UUID") then ... system = "urn:ietf:rfc:3986" while the OID is put into value.	Need a gForge (#20522) to identifier data type to add the value set subset from HL7 0301 OR clarification on how to populate ...system when it is a DNS (or other relevant "types"), e.g., point to another RFC that defines domain names. And get better clarification between type and system. Note that in messages that include the CLIA# for labs here would fall in the right place here. However, in non-messages the CLIA # would not be in MessageHeader, but elsewhere. That needs to be clarified first elsewhere before we can determine what additional guidance to provide.

MSH-07.00.00 - Date/Time of Message	This field contains the date/time that the sending system created the message.	DTM	1..1	MessageHeader.extension.timestamp					The Bundle timestamp is valued when the v2 message is converted to FHIR and put into a bundle, if that is what happens. See https://chat.fhir.org/#narrow/stream/179188-v2-to-20FHIR/topic/MessageHeader.2Etimestamp for a discussion on this topic.
MSH-08.00.00 - Security	In some applications of HL7, this field is used to implement security features.	ST	0..1	MessageHeader.meta.security					Depending on vocabulary used, mapping is locally defined.
MSH-09.00.00 - Message Type	The receiving system uses this field to recognize the data segments, and possibly, the application to which to route this message	MSG	1..1	MessageHeader.event					Set up time with InM. Set up mapping tables for all components (message code, trigger event, structure)
MSH-09.01.00 - Message Type : Message Code	Specifies the message type code.	ID		N/A					
MSH-09.02.00 - Message Type : Trigger Event	Specifies the trigger event code.	ID		MessageHeader.event.eventCoding.code				Need to express that table in FHIR (extension) to stay in sync.	
MSH-09.03.00 - Message Type : Message Structure	Specifies the abstract message structure code.	ID		MessageHeader.definition (MessageDefinition.identifier)					Do we still care about message structure, or is MessageHeader.definition enough? Yes. Do we need to define a value set of message definitions to map into? At some point. Should MessageDefinition.event be a repeat as one message structure can be used in different events? Likely need MessageHeader.definition to be 0..*
MSH-10.00.00 - Message Control ID	This field contains a number or other identifier that uniquely identifies the message.	ST	1..1	MessageHeader.id or #identifier#?					Need to check on zulip whether this acceptable. Will create a gForge to suggest .identifier. Note that as messages switch from V2 to FHIR and the response back from FHIR to V2, the "mapping engine" needs to track the actual MSH.10.00.00 value and Bundle.identifier value to connect responses correctly.
MSH-11.00.00 - Processing ID	This field is used to decide whether to process the message as defined in HL7 Application (level 7) Processing rules.	PT	1..1	MessageHeader.meta.tag		Coding			Would have to agree on how to recognize value set reflecting T and P.
MSH-11.01.00 - Processing ID : Processing ID	A value that defines whether the message is part of a production, training, or debugging system.	ID		MessageHeader.meta.tag.code		code	MessageHeader.meta.tag.system = ???		Need to define the code system that would represent T=Test, P=Production, etc.
MSH-11.02.00 - Processing ID : Processing Mode	A value that defines whether the message is part of an archival process or an initial load.	ID		MessageHeader.meta.tag.code		code	MessageHeader.meta.tag.system = ???		Need to define the code system that would represent I=Initial, A=Archive, etc.
MSH-12.00.00 - Version ID	This field is matched by the receiving system to its own version to be sure the message will be interpreted correctly	VID	1..1						Note that use MessageHeader.meta.profile to indicate the version of FHIR that MessageHeader conforms to.
MSH.12.01.00 - Version ID : Version ID	Used to identify the HL7 version.	ID		N/A				Based on a mapping.	Need a gForge/zulip (#20523) to create a list of HL7 V2.x to a set of HL7 defined uri-s. E.g., V2.2 => hl7.messageVersion.v2.2 alternatively point to https://www.hl7.org/implement/standards/product_brief.cfm?product_id=139 . This field would at most go into Provenance either as a reference or the full binary.
MSH.12.02.00 - Version ID : Internationalization Code	Used to identify the international affiliate country code.	CWE		N/A				Based on a mapping.	Need a gForge/zulip (#20523) to create a list of HL7 V2.x to a set of HL7 defined uri-s. E.g., V2.2 => hl7.messageVersion.v2.2 alternatively point to https://www.hl7.org/implement/standards/product_brief.cfm?product_id=139 .

MSH.12.02.01 - Version ID : Internationalization Code : Identifier	Sequence of characters (the code) that uniquely identifies the item being referenced by the <text>. Differ-ent coding schemes will have different elements here.	ST			N/A					
MSH.12.02.02 - Version ID : Internationalization Code : Text	Name or description of the item in question. E.g., myocardial infarction or X-ray impression. Its data type is string (ST).	ST			N/A					
MSH.12.02.03 - Version ID : Internationalization Code : Name of Coding System	Each coding system is assigned a unique identifier. This component will serve to identify the coding scheme being used in the identifier component. The combination of the identifier and name of coding system components will be a unique code for a data item.	ST			N/A					
MSH.12.02.04 - Version ID : Internationalization Code : Alternate Identifier	Sequence of characters (the code) that uniquely identifies the item being referenced by the <text>. Differ-ent coding schemes will have different elements here.	ST			N/A					
MSH.12.02.05 - Version ID : Internationalization Code : Alternate Text	Name or description of the item in question. E.g., myocardial infarction or X-ray impression. Its data type is string (ST).	ST			N/A					
MSH.12.02.06 - Version ID : Internationalization Code : Alternate Name of Coding System	Each coding system is assigned a unique identifier. This component will serve to identify the coding scheme being used in the identifier component. The combination of the identifier and name of coding system components will be a unique code for a data item.	ST			N/A					
MSH.12.02.07 - Version ID : Internationalization Code : Coding System Version ID	This component carries the version for the coding system identified by components 1-3. If CWE.3 is populated with a value other than HL7nnnn or is of table type user-defined, version ID must be valued with an actual version ID. If CWE.3 is populated with a value of HL7nnnn and nnnn is of table type HL7, version ID may have an actual value or it may be absent. If version ID is absent, it will be interpreted to have the same value as the HL7 version number in the message header.	ST			N/A					
MSH.12.02.08 - Version ID : Internationalization Code : Alternate Coding System Version ID	This component carries the version for the coding system identified by components 4-6. Analogous To CWE.7 - Coding System Version ID.	ST			N/A					
MSH.12.02.09 - Version ID : Internationalization Code : Original Text	The text as seen and/or selected by the user who entered the data. Original text can be used in a structured user interface to capture what the user saw as a representation of the code on the data input screen, or in a situation where the user dictates or directly enters text, it is the text entered or uttered by the user. In a situation where the code is assigned sometime after the text was entered, original text is the text or phrase used as the basis for assigning the code.	ST			N/A					
MSH.12.02.10 - Version ID : Internationalization Code : Second Alternate Identifier	A sequence of characters that uniquely identifies a second alternate code. Analogous to CWE.1- Identifier.	ST			N/A					
MSH.12.02.11 - Version ID : Internationalization Code : Second Alternate Text	The descriptive or textual name of the alternate identifier. Analogous to CWE.2 - Text. See usage note in section introduction.	ST			N/A					
MSH.12.02.12 - Version ID : Internationalization Code : Name of Second Alternate Coding System	Identifies the coding scheme being used in the alternate identifier component. Analogous to CWE.3 Name of Coding System. See usage note in section introduction. As of v2.7 this component is required when CWE.10 is populated and CWE.20 is not populated. Both CWE.6 and CWE.17 may be populated. Receivers should not identify a code based on its position within the tuples (Identifier, Alternate Identifier, or Second Alternate Identifier) or position within a repeating field. Instead, the receiver should always examine the coding System as specified in CWE.12 and/or CWE.20, the "Coding System" component or the "Coding System OID", for the tuple.	ID			N/A					
MSH.12.02.13 - Version ID : Internationalization Code : Second Alternate Coding System Version ID	This component carries the version for the coding system identified by components 10-12. Analogous to CWE.7 - Coding System Version ID.	ST			N/A					

MSH.12.02.14 - Version ID : Internationalization Code : Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.3. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.1 is populated and CWE.3 is not populated. Both CWE.3 and CWE.14 may be populated.	ST			N/A							
MSH.12.02.15 - Version ID : Internationalization Code : Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.1 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST			N/A							
MSH.12.02.16 - Version ID : Internationalization Code : Value Set Version ID	This component carries the version for the value set identified by CWE.15. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.15 is populated.	DTM			N/A							
MSH.12.02.17 - Version ID : Internationalization Code : Alternate Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.6. Analogous to CWE.14 Coding System OID. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.4 is populated and CWE.6 is not populated. Both CWE.6 and CWE.17 may be populated.	ST			N/A							
MSH.12.02.18 - Version ID : Internationalization Code : Alternate Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.4 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST			N/A							
MSH.12.02.19 - Version ID : Internationalization Code : Alternate Value Set Version ID	This component carries the version for the value set identified by CWE.18. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.18 is populated.	DTM			N/A							
MSH.12.02.20 - Version ID : Internationalization Code : Second Alternate Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.12. Analogous to CWE.14 - Coding System OID. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.10 is populated and CWE.12 is not populated. Both CWE.12 and CWE.20 may be populated.	ST			N/A							
MSH.12.02.21 - Version ID : Internationalization Code : Second Alternate Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.10 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST			N/A							
MSH.12.02.22 - Version ID : Internationalization Code : Second Alternate Value Set Version ID	This component carries the version for the value set identified by CWE.21. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.21 is populated.	DTM			N/A							
MSH.12.03.00 - Version ID : International Version ID	This field component identifies international affiliate's version; it is especially important when the international affiliate has more than a single local version associated with a single US version.	CWE			MessageHeader.implicitRules		Based on a mapping.					Need a gForge/zulip (#20523) to create a list of HL7 V2.x to a set of HL7 defined uri-s. E.g., V2.2 => hl7.messageVersion.v2.2 alternatively point to https://www.hl7.org/implementation/standards/product_brief.cfm?product_id=139 .
MSH.12.03.01 - Version ID : International Version ID : Identifier	Sequence of characters (the code) that uniquely identifies the item being referenced by the <text>. Different coding schemes will have different elements here.	ST			N/A							
MSH.12.03.02 - Version ID : International Version ID : Text	Name or description of the item in question. E.g., myocardial infarction or X-ray impression. Its data type is string (ST).	ST			N/A							
MSH.12.03.03 - Version ID : International Version ID : Name of Coding System	Each coding system is assigned a unique identifier. This component will serve to identify the coding scheme being used in the identifier component. The combination of the identifier and name of coding system components will be a unique code for a data item.	ST			N/A							

MSH.12.03.04 - Version ID : International Version ID : Alternate Identifier	Sequence of characters (the code) that uniquely identifies the item being referenced by the <text>. Differ-ent coding schemes will have different elements here.	ST			N/A					
MSH.12.03.05 - Version ID : International Version ID : Alternate Text	Name or description of the item in question. E.g., myocardial infarction or X-ray impression. Its data type is string (ST).	ST			N/A					
MSH.12.03.06 - Version ID : International Version ID : Alternate Name of Coding System	Each coding system is assigned a unique identifier. This component will serve to identify the coding scheme being used in the identifier component. The combination of the identifier and name of coding system components will be a unique code for a data item.	ST			N/A					
MSH.12.03.07 - Version ID : International Version ID : Coding System Version ID	This component carries the version for the coding system identified by components 1-3. If CWE.3 is populated with a value other than HL7nnnn or is of table type user-defined, version ID must be valued with an actual version ID. If CWE.3 is populated with a value of HL7nnnn and nnnn is of table type HL7, version ID may have an actual value or it may be absent. If version ID is absent, it will be interpreted to have the same value as the HL7 version number in the message header.	ST			N/A					
MSH.12.03.08 - Version ID : International Version ID : Alternate Coding System Version ID	This component carries the version for the coding system identified by components 4-6. Analogous To CWE.7 - Coding System Version ID.	ST			N/A					
MSH.12.03.09 - Version ID : International Version ID : Original Text	The text as seen and/or selected by the user who entered the data. Original text can be used in a structured user interface to capture what the user saw as a representation of the code on the data input screen, or in a situation where the user dictates or directly enters text, it is the text entered or uttered by the user. In a situation where the code is assigned sometime after the text was entered, original text is the text or phrase used as the basis for assigning the code.	ST			N/A					
MSH.12.03.10 - Version ID : International Version ID : Second Alternate Identifier	A sequence of characters that uniquely identifies a second alternate code. Analogous to CWE.1- Identifier.	ST			N/A					
MSH.12.03.11 - Version ID : International Version ID : Second Alternate Text	The descriptive or textual name of the alternate identifier. Analogous to CWE.2 - Text. See usage note in section introduction.	ST			N/A					
MSH.12.03.12 - Version ID : International Version ID : Name of Second Alternate Coding System	Identifies the coding scheme being used in the alternate identifier component. Analogous to CWE.3 Name of Coding System. See usage note in section introduction. As of v2.7 this component is required when CWE.10 is populated and CWE.20 is not populated. Both CWE.6 and CWE.17 may be populated. Receivers should not identify a code based on its position within the tuples (Identifier, Alternate Identifier, or Second Alternate Identifier) or position within a repeating field. Instead, the receiver should always examine the coding System as specified in CWE.12 and/or CWE.20, the "Coding System" component or the "Coding System OID", for the tuple.	ID			N/A					
MSH.12.03.13 - Version ID : International Version ID : Second Alternate Coding System Version ID	This component carries the version for the coding system identified by components 10-12. Analogous to CWE.7 - Coding System Version ID.	ST			N/A					
MSH.12.03.14 - Version ID : International Version ID : Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.3. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.1 is populated and CWE.3 is not populated. Both CWE.3 and CWE.14 may be populated.	ST			N/A					
MSH.12.03.15 - Version ID : International Version ID : Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.1 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST			N/A					
MSH.12.03.16 - Version ID : International Version ID : Value Set Version ID	This component carries the version for the value set identified by CWE.15. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.15 is populated.	D TM			N/A					

MSH.12.03.17 - Version ID : International Version ID : Alternate Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.6. Analogous to CWE.14 Coding System OID. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.4 is populated and CWE.6 is not populated. Both CWE.6 and CWE.17 may be populated.	ST				N/A						
MSH.12.03.18 - Version ID : International Version ID : Alternate Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.4 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST				N/A						
MSH.12.03.19 - Version ID : International Version ID : Alternate Value Set Version ID	This component carries the version for the value set identified by CWE.18. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.18 is populated.	DTM				N/A						
MSH.12.03.20 - Version ID : International Version ID : Second Alternate Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.12. Analogous to CWE.14 - Coding System OID. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.10 is populated and CWE.12 is not populated. Both CWE.12 and CWE.20 may be populated.	ST				N/A						
MSH.12.03.21 - Version ID : International Version ID : Second Alternate Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.10 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST				N/A						
MSH.12.03.22 - Version ID : International Version ID : Second Alternate Value Set Version ID	This component carries the version for the value set identified by CWE.21. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.21 is populated.	DTM				N/A						
MSH-13.00.00 - Sequence Number	A non null value in this field implies that the sequence number protocol is in use.	NM	0..1			Who is using it?						
MSH-14.00.00 - Continuation Pointer	This field is used to define continuations in application-specific ways.	ST	0..1			N/A						
MSH-15.00.00 - Accept Acknowledgment Type	This field identifies the conditions under which accept acknowledgments are required to be returned in response to this message.	ID	0..1			Offer in For Comment as a question to state a preference for: <ul style="list-style-type: none"> Message Header.#ext acceptAcknowledgmentType# Message Header.meta.tag (create a set of tags) 					Check what LRI/LOI terminology is and use that. Craig - we should consider creating MessageDefinition resources for each message type (and presumably response patterns (MSH-15/16 combinations)) which explicitly list out allowedResponse values	

MSH-16.00.00 - Application Acknowledgment Type	This field contains the conditions under which application acknowledgments are required to be returned in response to this message.	ID	0..1		Offer in For Comment as a question to state a preference for.						Check what LRI/LOI terminology is and use that.
					<ul style="list-style-type: none"> MessageHeader.#ext - applicationAcknowledgmentType# MessageHeader.meta.tag (create a set of tags) 						
MSH-17.00.00 - Country Code	This field contains the country of origin for the message. It will be used primarily to specify default elements, such as currency denominations.	ID	0..1		MessageHeader.sender (Organization.address.country)						
MSH-18.00.00 - Character Set	This field contains the character set for the entire message.	ID	0..*		N/A						We need to investigate how FHIR resources define a character set (if they even do).
MSH-19.00.00 - Principal Language Of Message	This field contains the principal language of the message	CWE	0..1		MessageHeader.language						This does only cover the MessageHeader resource. Need to have clarity that if other resources that are part of the message that do not have Resource.meta.language valued, then it is assumed to follow MessageHeader.meta.language?? Doesn't seem RESTful, so what is the default for Resource.meta.language?
MSH.19.01.00 - Principal Language of Message : Identifier	Sequence of characters (the code) that uniquely identifies the item being referenced by the <text>. Different coding schemes will have different elements here.	ST			MessageHeader.language		code				
MSH.19.02.00 - Principal Language of Message : Text	Name or description of the item in question. E.g., myocardial infarction or X-ray impression. Its data type is string (ST).	ST			Review the code/value set identifier from FHIR to be used here.						
MSH.19.03.00 - Principal Language of Message : Name of Coding System	Each coding system is assigned a unique identifier. This component will serve to identify the coding scheme being used in the identifier component. The combination of the identifier and name of coding system components will be a unique code for a data item.	ST									
MSH.19.04.00 - Principal Language of Message : Alternate Identifier	Sequence of characters (the code) that uniquely identifies the item being referenced by the <text>. Different coding schemes will have different elements here.	ST			N/A						
MSH.19.05.00 - Principal Language of Message : Alternate Text	Name or description of the item in question. E.g., myocardial infarction or X-ray impression. Its data type is string (ST).	ST			N/A						
MSH.19.06.00 - Principal Language of Message : Alternate Name of Coding System	Each coding system is assigned a unique identifier. This component will serve to identify the coding scheme being used in the identifier component. The combination of the identifier and name of coding system components will be a unique code for a data item.	ST			N/A						

MSH.19.07.00 - Principal Language of Message : Coding System Version ID	This component carries the version for the coding system identified by components 1-3. If CWE.3 is populated with a value other than HL7nnnn or is of table type user-defined, version ID must be valued with an actual version ID. If CWE.3 is populated with a value of HL7nnnn and nnnn is of table type HL7, version ID may have an actual value or it may be absent. If version ID is absent, it will be interpreted to have the same value as the HL7 version number in the message header.	ST			TBD					
MSH.19.08.00 - Principal Language of Message : Alternate Coding System Version ID	This component carries the version for the coding system identified by components 4-6. Analogous To CWE.7 - Coding System Version ID.	ST			N/A					
MSH.19.09.00 - Principal Language of Message : Original Text	The text as seen and/or selected by the user who entered the data. Original text can be used in a structured user interface to capture what the user saw as a representation of the code on the data input screen, or in a situation where the user dictates or directly enters text, it is the text entered or uttered by the user. In a situation where the code is assigned sometime after the text was entered, original text is the text or phrase used as the basis for assigning the code.	ST			N/A					
MSH.19.10.00 - Principal Language of Message : Second Alternate Identifier	A sequence of characters that uniquely identifies a second alternate code. Analogous to CWE.1- Identifier.	ST			N/A					
MSH.19.11.00 - Principal Language of Message : Second Alternate Text	The descriptive or textual name of the alternate identifier. Analogous to CWE.2 - Text. See usage note in section introduction.	ST			N/A					
MSH.19.12.00 - Principal Language of Message : Name of Second Alternate Coding System	Identifies the coding scheme being used in the alternate identifier component. Analogous to CWE.3 Name of Coding System. See usage note in section introduction. As of v2.7 this component is required when CWE.10 is populated and CWE.20 is not populated. Both CWE.6 and CWE.17 may be populated. Receivers should not identify a code based on its position within the tuples (Identifier, Alternate Identifier, or Second Alternate Identifier) or position within a repeating field. Instead, the receiver should always examine the coding System as specified in CWE.12 and/or CWE.20, the "Coding System" component or the "Coding System OID", for the tuple.	ID			N/A					
MSH.19.13.00 - Principal Language of Message : Second Alternate Coding System Version ID	This component carries the version for the coding system identified by components 10-12. Analogous to CWE.7 - Coding System Version ID.	ST			N/A					
MSH.19.14.00 - Principal Language of Message : Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.3. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.1 is populated and CWE.3 is not populated. Both CWE.3 and CWE.14 may be populated.	ST			??					
MSH.19.15.00 - Principal Language of Message : Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.1 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST			??					
MSH.19.16.00 - Principal Language of Message : Value Set Version ID	This component carries the version for the value set identified by CWE.15. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.15 is populated.	D TM			??					
MSH.19.17.00 - Principal Language of Message : Alternate Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.6. Analogous to CWE.14 Coding System OID. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.4 is populated and CWE.6 is not populated. Both CWE.6 and CWE.17 may be populated.	ST			N/A					
MSH.19.18.00 - Principal Language of Message : Alternate Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.4 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST			N/A					

MSH-19.19.00 - Principal Language of Message : Alternate Value Set Version ID	This component carries the version for the value set identified by CWE.18. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.18 is populated.	DTM			N/A					
MSH-19.20.00 - Principal Language of Message : Second Alternate Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.12. Analogous to CWE.14 - Coding System OID. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.10 is populated and CWE.12 is not populated. Both CWE.12 and CWE.20 may be populated.	ST			N/A					
MSH-19.21.00 - Principal Language of Message : Second Alternate Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.10 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST			N/A					
MSH-19.22.00 - Principal Language of Message : Second Alternate Value Set Version ID	This component carries the version for the value set identified by CWE.21. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.21 is populated.	DTM			N/A					
MSH-20.00.00 - Alternate Character Set Handling Scheme	When any alternative character sets are used (as specified in the second or later iterations of MSH-18 Character Set), and if any special handling scheme is needed, this component is to specify the scheme used, according to HL7 Table 0356- Alternate Character Set Handling Scheme as defined in Chapter 2C, Code Tables,.	ID	0..1		N/A					See MSH-18 for same guidance.
MSH-21.00.00 - Message Profile Identifier	Sites may use this field to assert adherence to, or reference, a message profile. Message profiles contain detailed explanations of grammar, syntax, and usage for a particular message or set of messages.	EI	0..*		MessageHeader.meta.profile AND/OR MessageHeader.definition (MessageDefinition)					Need to support multiple profiles. Also, comment on implicitRules is highly idealistic. Discuss with Grahame at Thursday Q0
MSH-21.01.00 - Message Profile Identifier : Entity Identifier	The first component, <entity identifier>, is usually defined to be unique within the series of identifiers created by the <assigning authority>, defined by a hierarchic designator, represented by components 2 through 4. See Section 2.A.33, "HD - hierarchic designator".	ST			??					
MSH-21.02.00 - Message Profile Identifier : Namespace ID	See Section 2.A.33.1, "Namespace ID (IS)" for definition. The component intentionally remains associated with the IS data type in v 2.7.	IS			??					
MSH-21.03.00 - Message Profile Identifier : Universal ID	See Section 2.A.33.2, "Universal ID (ST)" for definition.	ST			??					
MSH-21.04.00 - Message Profile Identifier : Universal ID Type	See Section 2.A.33.3, "Universal ID Type (ID)," for definition.	ID			??					
MSH-22.00.00 - Sending Responsible Organization	Business organization that originated and is accountable for the content of the message.	XON	0..1		MessageHeader.responsible (Organization)			R+1201efere nce (Organization)		
MSH-22.01.00 - Sending Responsible Organization : Organization Name	The name of the specified organization.	ST			MessageHeader.responsible (Organization.name)			string		

MSH-22.02.00 - Sending Responsible Organization : Organization Name Type Code	A code that represents the type of name i.e., legal name, display name. Refer to User-defined Table 0204 - Organizational Name Type for suggested values.	CWE			MessageHeader.responsible (Organization.#ext-nameType#)		coding				
MSH-22.02.01 - Sending Responsible Organization : Organization Name Type Code : Identifier	Sequence of characters (the code) that uniquely identifies the item being referenced by the <text>. Different coding schemes will have different elements here.	ST			MessageHeader.responsible (Organization.#ext-nameType.code#)		code				
MSH-22.02.02 - Sending Responsible Organization : Organization Name Type Code : Text	Name or description of the item in question. E.g., myocardial infarction or X-ray impression. Its data type is string (ST).	ST			MessageHeader.responsible (Organization.#ext-nameType.display#)		string				
MSH-22.02.03 - Sending Responsible Organization : Organization Name Type Code : Name of Coding System	Each coding system is assigned a unique identifier. This component will serve to identify the coding scheme being used in the identifier component. The combination of the identifier and name of coding system components will be a unique code for a data item.	ST			MessageHeader.responsible (Organization.#ext-nameType.system#)		uri				
MSH-22.02.04 - Sending Responsible Organization : Organization Name Type Code : Alternate Identifier	Sequence of characters (the code) that uniquely identifies the item being referenced by the <text>. Different coding schemes will have different elements here.	ST			N/A						
MSH-22.02.05 - Sending Responsible Organization : Organization Name Type Code : Alternate Text	Name or description of the item in question. E.g., myocardial infarction or X-ray impression. Its data type is string (ST).	ST			N/A						
MSH-22.02.06 - Sending Responsible Organization : Organization Name Type Code : Alternate Name of Coding System	Each coding system is assigned a unique identifier. This component will serve to identify the coding scheme being used in the identifier component. The combination of the identifier and name of coding system components will be a unique code for a data item.	ST			N/A						
MSH-22.02.07 - Sending Responsible Organization : Organization Name Type Code : Coding System Version ID	This component carries the version for the coding system identified by components 1-3. If CWE.3 is populated with a value other than HL7nnn or is of table type user-defined, version ID must be valued with an actual version ID. If CWE.3 is populated with a value of HL7nnnn and nnnn is of table type HL7, version ID may have an actual value or it may be absent. If version ID is absent, it will be interpreted to have the same value as the HL7 version number in the message header.	ST			MessageHeader.responsible (Organization.#ext-nameType.version#)		string				
MSH-22.02.08 - Sending Responsible Organization : Organization Name Type Code : Alternate Coding System Version ID	This component carries the version for the coding system identified by components 4-6. Analogous To CWE.7 - Coding System Version ID.	ST			N/A						

MSH-22.02.09 - Sending Responsible Organization : Organization Name Type Code : Original Text	The text as seen and/or selected by the user who entered the data. Original text can be used in a structured user interface to capture what the user saw as a representation of the code on the data input screen, or in a situation where the user dictates or directly enters text, it is the text entered or uttered by the user. In a situation where the code is assigned sometime after the text was entered, original text is the text or phrase used as the basis for assigning the code.	ST			N/A				
MSH-22.02.10 - Sending Responsible Organization : Organization Name Type Code : Second Alternate Identifier	A sequence of characters that uniquely identifies a second alternate code. Analogous to CWE.1- Identifier.	ST			N/A				
MSH-22.02.11 - Sending Responsible Organization : Organization Name Type Code : Second Alternate Text	The descriptive or textual name of the alternate identifier. Analogous to CWE.2 - Text. See usage note in section introduction.	ST			N/A				
MSH-22.02.12 - Sending Responsible Organization : Organization Name Type Code : Name of Second Alternate Coding System	Identifies the coding scheme being used in the alternate identifier component. Analogous to CWE.3 Name of Coding System. See usage note in section introduction. As of v2.7 this component is required when CWE.10 is populated and CWE.20 is not populated. Both CWE.6 and CWE.17 may be populated. Receivers should not identify a code based on its position within the tuples (Identifier, Alternate Identifier, or Second Alternate Identifier) or position within a repeating field. Instead, the receiver should always examine the coding System as specified in CWE.12 and/or CWE.20, the "Coding System" component or the "Coding System OID", for the tuple.	ID			N/A				
MSH-22.02.13 - Sending Responsible Organization : Organization Name Type Code : Second Alternate Coding System Version ID	This component carries the version for the coding system identified by components 10-12. Analogous to CWE.7 - Coding System Version ID.	ST			N/A				
MSH-22.02.14 - Sending Responsible Organization : Organization Name Type Code : Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.3. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.1 is populated and CWE.3 is not populated. Both CWE.3 and CWE.14 may be populated.	ST			??				
MSH-22.02.15 - Sending Responsible Organization : Organization Name Type Code : Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.1 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST			??				
MSH-22.02.16 - Sending Responsible Organization : Organization Name Type Code : Value Set Version ID	This component carries the version for the value set identified by CWE.15. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.15 is populated.	D TM			??				
MSH-22.02.17 - Sending Responsible Organization : Organization Name Type Code : Alternate Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.6. Analogous to CWE.14 Coding System OID. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.4 is populated and CWE.6 is not populated. Both CWE.6 and CWE.17 may be populated.	ST			N/A				

MSH-22.02.18 - Sending Responsible Organization : Organization Name Type Code : Alternate Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.4 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST			N/A					
MSH-22.02.19 - Sending Responsible Organization : Organization Name Type Code : Alternate Value Set Version ID	This component carries the version for the value set identified by CWE.18. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.18 is populated.	DTM			N/A					
MSH-22.02.20 - Sending Responsible Organization : Organization Name Type Code : Second Alternate Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.12. Analogous to CWE.14 - Coding System OID. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.10 is populated and CWE.12 is not populated. Both CWE.12 and CWE.20 may be populated.	ST			N/A					
MSH-22.02.21 - Sending Responsible Organization : Organization Name Type Code : Second Alternate Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.10 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST			N/A					
MSH-22.02.22 - Sending Responsible Organization : Organization Name Type Code : Second Alternate Value Set Version ID	This component carries the version for the value set identified by CWE.21. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.21 is populated.	DTM			N/A					
MSH-22.03.00 - Sending Responsible Organization : ID Number		NM			MessageHeader.responsible (Organization.identifier.value)		identifier			
MSH-22.04.00 - Sending Responsible Organization : Identifier Check Digit	The check digit in this data type is not an add-on produced by the message processor. It is the check digit that is part of the identifying number used in the sending application. If the sending application does not include a self-generated check digit in the identifying number, this component should be valued null.	NM			MessageHeader.responsible (Organization.#ext-identifier.CheckDigit #??)					
MSH-22.05.00 - Sending Responsible Organization : Check Digit Scheme	Contains the code identifying the check digit scheme employed. The check digit scheme codes are defined in HL7 Table 0061 - Check digit scheme.	ID			MessageHeader.responsible (Organization.#ext-identifier.CheckDigit Scheme#??)					
MSH-22.06.00 - Sending Responsible Organization : Assigning Authority	The assigning authority is a unique identifier of the system (or organization or agency or department) that creates the data. Assigning authorities are unique across a given HL7 implementation. Refer to User-defined Table 0363 - Assigning Authority for suggested values.	HD			MessageHeader.responsible (Organization.identifier.assigner (Organization))					
MSH-22.06.01 - Sending Responsible Organization : Assigning Authority : Namespace ID	User-defined table 0300 - Namespace ID is used as the HL7 identifier for the user-defined table of values for this component.	IS			MessageHeader.responsible (Organization.identifier.assigner (Organization.??))					

MSH-22.06.02 - Sending Responsible Organization : Assigning Authority : Universal ID	The HD's second component, <universal ID (UID), is a string formatted according to the scheme defined by the third component, <universal ID type> (UID type). The UID is intended to be unique over time with-in the UID type. It is rigorously defined. Each UID must belong to one of the specifically enumerated schemes for constructing UID's (defined by the UID type). The UID (second component) must follow the syntactic rules of the particular universal identifier scheme (defined by the third component). Note that these syntactic rules are not defined within HL7 but are defined by the rules of the particular universal identifier scheme (defined by the third component).	S	T			MessageHeader.responsible (Organization.identifier.assigner (Organization.??))					
MSH-22.06.03 - Sending Responsible Organization : Assigning Authority : Universal ID Type	The third component governs the interpretation of the second component of the HD. If the third component is a known UID refer to HL7 table 0301 - Universal ID type for valid values, then the second component is a universal ID of that type.	ID				MessageHeader.responsible (Organization.identifier.assigner (Organization.??))					
MSH-22.07.00 - Sending Responsible Organization : Identifier Type Code	A code corresponding to the type of identifier. In some cases, this code may be used as a qualifier to the "Assigning authority" component. Refer to HL7 Table 0203 - Identifier Type for suggested values.	ID				MessageHeader.responsible (Organization.identifier.type.coding.code) MessageHeader.responsible (Organization.identifier.type.coding.system) = "HL70203"					
MSH-22.08.00 - Sending Responsible Organization : Assigning Facility	The place or location identifier where the identifier was first assigned to the person. This component is not an inherent part of the identifier but rather part of the history of the identifier: as part of this data type, its existence is a convenience for certain intercommunicating systems.	HD				MessageHeader.responsible (Organization.#extension (Location)#)					
MSH-22.08.01 - Sending Responsible Organization : Assigning Facility : Namespace ID	User-defined table 0300 - Namespace ID is used as the HL7 identifier for the user-defined table of values for this component.	IS				MessageHeader.responsible (Organization.#extension (Location)#)					
MSH-22.08.02 - Sending Responsible Organization : Assigning Facility : Universal ID	The HD's second component, <universal ID (UID), is a string formatted according to the scheme defined by the third component, <universal ID type> (UID type). The UID is intended to be unique over time with-in the UID type. It is rigorously defined. Each UID must belong to one of the specifically enumerated schemes for constructing UID's (defined by the UID type). The UID (second component) must follow the syntactic rules of the particular universal identifier scheme (defined by the third component). Note that these syntactic rules are not defined within HL7 but are defined by the rules of the particular universal identifier scheme (defined by the third component).	S	T			??					
MSH-22.08.03 - Sending Responsible Organization : Assigning Facility : Universal ID Type	The third component governs the interpretation of the second component of the HD. If the third component is a known UID refer to HL7 table 0301 - Universal ID type for valid values, then the second component is a universal ID of that type.	ID				??					
MSH-22.09.00 - Sending Responsible Organization : Name Representation Code	Different <name/address types> and representations of the same <name/address> should be described by repeating of this field, with different values of the <name/address type> and/or <name/address representation> component. Refer to HL7 Table 0465 – Name/address Representation Code for valid values.	ID				N/A					
MSH-22.10.00 - Sending Responsible Organization : Organization Identifier	This component contains the sequence of characters (the code) that uniquely identifies the item being referenced by XON.1 Organization Name. This component replaces XON.3 ID Number as of v 2.5.	ST				MessageHeader.responsible (Organization.identifier.value)					
MSH-23.00.00 - Receiving Responsible Organization	Business organization that is the intended receiver of the message and is accountable for acting on the data conveyed by the transaction.	XON	0..1			MessageHeader.receiverResponsible (Organization)			R e f e r e n c e (O r g a n i z a t i o n)		We should see if this should be added to the base resource. FHIR Zulip thread on extension or base resource change: https://chat.fhir.org/#narrow/stream/179188-v2-to-20FHIR/topic/MSH-23.20to-20MessageHeader/near/163382914 .

MSH-23.01.00 - Receiving Responsible Organization : Organization Name	The name of the specified organization.	ST			MessageHeader.#ext-receiverResponsible (Organization.name)		string			
MSH-23.02.00 - Receiving Responsible Organization : Organization Name Type Code	A code that represents the type of name i.e., legal name, display name. Refer to User-defined Table 0204 - Organizational Name Type for suggested values.	CWE			MessageHeader.#ext-receiverResponsible (Organization.#ext-nameType#)		coding			
MSH-23.02.01 - Receiving Responsible Organization : Organization Name Type Code : Identifier	Sequence of characters (the code) that uniquely identifies the item being referenced by the <text>. Differ-ent coding schemes will have different elements here.	ST			MessageHeader.#ext-receiverResponsible (Organization.#ext-nameType.code#)		code			
MSH-23.02.02 - Receiving Responsible Organization : Organization Name Type Code : Text	Name or description of the item in question. E.g., myocardial infarction or X-ray impression. Its data type is string (ST).	ST			MessageHeader.#ext-receiverResponsible (Organization.#ext-nameType.display#)		string			
MSH-23.02.03 - Receiving Responsible Organization : Organization Name Type Code : Name of Coding System	Each coding system is assigned a unique identifier. This component will serve to identify the coding scheme being used in the identifier component. The combination of the identifier and name of coding system components will be a unique code for a data item.	ST			MessageHeader.#ext-receiverResponsible (Organization.#ext-nameType.system#)		uri			
MSH-23.02.04 - Receiving Responsible Organization : Organization Name Type Code : Alternate Identifier	Sequence of characters (the code) that uniquely identifies the item being referenced by the <text>. Differ-ent coding schemes will have different elements here.	ST			N/A					
MSH-23.02.05 - Receiving Responsible Organization : Organization Name Type Code : Alternate Text	Name or description of the item in question. E.g., myocardial infarction or X-ray impression. Its data type is string (ST).	ST			N/A					
MSH-23.02.06 - Receiving Responsible Organization : Organization Name Type Code : Alternate Name of Coding System	Each coding system is assigned a unique identifier. This component will serve to identify the coding scheme being used in the identifier component. The combination of the identifier and name of coding system components will be a unique code for a data item.	ST			N/A					
MSH-23.02.07 - Receiving Responsible Organization : Organization Name Type Code : Coding System Version ID	This component carries the version for the coding system identified by components 1-3. If CWE.3 is populated with a value other than HL7nnnn or is of table type user-defined, version ID must be valued with an actual version ID. If CWE.3 is populated with a value of HL7nnnn and nnnn is of table type HL7, version ID may have an actual value or it may be absent. If version ID is absent, it will be interpreted to have the same value as the HL7 version number in the message header.	ST			MessageHeader.#ext-receiverResponsible (Organization.#ext-nameType.version#)		string			
MSH-23.02.08 - Receiving Responsible Organization : Organization Name Type Code : Alternate Coding System Version ID	This component carries the version for the coding system identified by components 4-6. Analogous To CWE.7 - Coding System Version ID.	ST			N/A					

MSH-23.02.09 - Receiving Responsible Organization : Organization Name Type Code : Original Text	The text as seen and/or selected by the user who entered the data. Original text can be used in a structured user interface to capture what the user saw as a representation of the code on the data input screen, or in a situation where the user dictates or directly enters text, it is the text entered or uttered by the user. In a situation where the code is assigned sometime after the text was entered, original text is the text or phrase used as the basis for assigning the code.	ST			N/A				
MSH-23.02.10 - Receiving Responsible Organization : Organization Name Type Code : Second Alternate Identifier	A sequence of characters that uniquely identifies a second alternate code. Analogous to CWE.1- Identifier.	ST			N/A				
MSH-23.02.11 - Receiving Responsible Organization : Organization Name Type Code : Second Alternate Text	The descriptive or textual name of the alternate identifier. Analogous to CWE.2 - Text. See usage note in section introduction.	ST			N/A				
MSH-23.02.12 - Receiving Responsible Organization : Organization Name Type Code : Name of Second Alternate Coding System	Identifies the coding scheme being used in the alternate identifier component. Analogous to CWE.3 Name of Coding System. See usage note in section introduction. As of v2.7 this component is required when CWE.10 is populated and CWE.20 is not populated. Both CWE.6 and CWE.17 may be populated. Receivers should not identify a code based on its position within the tuples (Identifier, Alternate Identifier, or Second Alternate Identifier) or position within a repeating field. Instead, the receiver should always examine the coding System as specified in CWE.12 and/or CWE.20, the "Coding System" component or the "Coding System OID", for the tuple.	ID			N/A				
MSH-23.02.13 - Receiving Responsible Organization : Organization Name Type Code : Second Alternate Coding System Version ID	This component carries the version for the coding system identified by components 10-12. Analogous to CWE.7 - Coding System Version ID.	ST			N/A				
MSH-23.02.14 - Receiving Responsible Organization : Organization Name Type Code : Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.3. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.1 is populated and CWE.3 is not populated. Both CWE.3 and CWE.14 may be populated.	ST			??				
MSH-23.02.15 - Receiving Responsible Organization : Organization Name Type Code : Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.1 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST			??				
MSH-23.02.16 - Receiving Responsible Organization : Organization Name Type Code : Value Set Version ID	This component carries the version for the value set identified by CWE.15. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.15 is populated.	D TM			??				
MSH-23.02.17 - Receiving Responsible Organization : Organization Name Type Code : Alternate Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.6. Analogous to CWE.14 Coding System OID. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.4 is populated and CWE.6 is not populated. Both CWE.6 and CWE.17 may be populated.	ST			N/A				

MSH-23.02.18 - Receiving Responsible Organization : Organization Name Type Code : Alternate Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.4 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST			N/A					
MSH-23.02.19 - Receiving Responsible Organization : Organization Name Type Code : Alternate Value Set Version ID	This component carries the version for the value set identified by CWE.18. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.18 is populated.	DTM			N/A					
MSH-23.02.20 - Receiving Responsible Organization : Organization Name Type Code : Second Alternate Coding System OID	This component contains the ISO Object Identifier (OID) for the coding system or value set named in CWE.12. Analogous to CWE.14 - Coding System OID. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined code systems the OID registered in the HL7 OID registry SHALL be used. This component is required when CWE.10 is populated and CWE.12 is not populated. Both CWE.12 and CWE.20 may be populated.	ST			N/A					
MSH-23.02.21 - Receiving Responsible Organization : Organization Name Type Code : Second Alternate Value Set OID	This component contains the ISO Object Identifier (OID) to allow identification of the value set from which the value in CWE.10 is obtained. The value for this component is 2.16.840.1.113883.12.#### where "####" is to be replaced by the HL7 table number in the case of an HL7 defined or user defined table. For externally defined value sets, the OID registered in the HL7 OID registry SHALL be used. A value set may or need not be present irrespective of other fields. Note that if a code is provided, the meaning of the code must come from the definition of the code in the code system. The meaning of the code SHALL NOT depend on the value set. Applications SHALL NOT be required to interpret the code in light of the valueSet, and they SHALL NOT reject an instance because of the presence or absence of any or a particular value set/ value set version ID.	ST			N/A					
MSH-23.02.22 - Receiving Responsible Organization : Organization Name Type Code : Second Alternate Value Set Version ID	This component carries the version for the value set identified by CWE.21. The version is a date. The date is the date/time that the value set being used was published. Value set version ID is required if CWE.21 is populated.	DTM			N/A					
MSH-23.03.00 - Receiving Responsible Organization : ID Number		NM			MessageHeader.#ext-receiverResponsible (Organization.identifier.value)		identifier			
MSH-23.04.00 - Receiving Responsible Organization : Identifier Check Digit	The check digit in this data type is not an add-on produced by the message processor. It is the check digit that is part of the identifying number used in the sending application. If the sending application does not include a self-generated check digit in the identifying number, this component should be valued null.	NM			MessageHeader.#ext-receiverResponsible (Organization.#ext-identifier.CheckDigit#??)					
MSH-23.05.00 - Receiving Responsible Organization : Check Digit Scheme	Contains the code identifying the check digit scheme employed. The check digit scheme codes are defined in HL7 Table 0061 - Check digit scheme.	ID			MessageHeader.#ext-receiverResponsible (Organization.#ext-identifier.CheckDigitScheme#??)					
MSH-23.06.00 - Receiving Responsible Organization : Assigning Authority	The assigning authority is a unique identifier of the system (or organization or agency or department) that creates the data. Assigning authorities are unique across a given HL7 implementation. Refer to User-defined Table 0363 - Assigning Authority for suggested values.	HD			MessageHeader.#ext-receiverResponsible (Organization.identifier.assigner (Organization))					

MSH-24.00.00 - Sending Network Address	Identifier of the network location the message was transmitted from. Identified by an OID or text string (e.g., URI).	HD	0..1		Message header source endpoint			Depending on content of MSH-24, this may require a lookup. MSH-24 gets priority over MSH-4 if both are populated with URLs	
MSH-24.01.00 - Sending Network Address : Namespace ID	User-defined table 0300 - Namespace ID is used as the HL7 identifier for the user-defined table of values for this component.	IS			??				
MSH-24.02.00 - Sending Network Address : Universal ID	The HD's second component, <universal ID (UID), is a string formatted according to the scheme defined by the third component, <universal ID type> (UID type). The UID is intended to be unique over time within the UID type. It is rigorously defined. Each UID must belong to one of the specifically enumerated schemes for constructing UID's (defined by the UID type). The UID (second component) must follow the syntactic rules of the particular universal identifier scheme (defined by the third component). Note that these syntactic rules are not defined within HL7 but are defined by the rules of the particular universal identifier scheme (defined by the third component).	ST			??				
MSH-24.03.00 - Sending Network Address : Universal ID Type	The third component governs the interpretation of the second component of the HD. If the third component is a known UID refer to HL7 table 0301 - Universal ID type for valid values, then the second component is a universal ID of that type.	ID			??				
MSH-25.00.00 - Receiving Network Address	Identifier of the network location the message was transmitted to.	HD	0..1		Message header destination endpoint	url		Depending on content of MSH-25, this may require a lookup.	
MSH-25.01.00 - Receiving Network Address : Namespace ID	User-defined table 0300 - Namespace ID is used as the HL7 identifier for the user-defined table of values for this component.	IS			??				
MSH-25.02.00 - Receiving Network Address : Universal ID	The HD's second component, <universal ID (UID), is a string formatted according to the scheme defined by the third component, <universal ID type> (UID type). The UID is intended to be unique over time within the UID type. It is rigorously defined. Each UID must belong to one of the specifically enumerated schemes for constructing UID's (defined by the UID type). The UID (second component) must follow the syntactic rules of the particular universal identifier scheme (defined by the third component). Note that these syntactic rules are not defined within HL7 but are defined by the rules of the particular universal identifier scheme (defined by the third component).	ST			??				
MSH-25.03.00 - Receiving Network Address : Universal ID Type	The third component governs the interpretation of the second component of the HD. If the third component is a known UID refer to HL7 table 0301 - Universal ID type for valid values, then the second component is a universal ID of that type.	ID			??				