

| Sort Order | HL7 v2 | | | | Condition (IF True) | | | HL7 FHIR | | | Comments | |
|------------|--|-------------|--|-------------------|---------------------|---|---------------------|---|----------------------|--------------------------------|--|---|
| | Identifier | Syntax | Name | Cardinality - Min | Cardinality - Max | Computable ANTLR | Computable FHIRPath | Narrative | Primary Target | Segment Map | | References |
| 1 | SIU_S12.MSH | MSH | Message Header | 1 | 1 | | | | Bundle | MSH[Bundle] | | |
| 1 | SIU_S12.MSH | MSH | Message Header | 1 | 1 | | | | MessageHeader[1] | MSH[MessageHeader] | | Processing of the MSH segment results in the creation of a new MessageHeader resource |
| 1 | SIU_S12.MSH | MSH | Message Header | 1 | 1 | | | | Provenance[1] | MSH[Provenance-Source] | Provenance[1].target.reference=Bundle.id; Provenance[1].target.reference=MessageHeader[1].id | |
| 1 | SIU_S12.MSH | MSH | Message Header | 1 | 1 | | | | Provenance[2] | MSH[Provenance-Transformation] | Provenance[2].target.reference=Bundle.id | |
| 2 | SIU_S12.SCH | SCH | Schedule Activity Information | 1 | 1 | | | | Appointment[1] | SCH[Appointment] | Appointment.participant.actor=Patient[1].id | |
| 2 | SIU_S12.SCH | SCH | Schedule Activity Information | 1 | 1 | IF SCH-26 or SCH-27 VALUED | | | ServiceRequest[1..n] | SCH[ServiceRequest] | Appointment[1].basedOn=ServiceRequest[1..n].id; ServiceRequest[1..n].subject=Patient[1].id | |
| 2 | SIU_S12.SCH | SCH | Schedule Activity Information | 1 | 1 | | | | Provenance[3] | SCH[Provenance] | | |
| 3 | SIU_S12.NTE | [{ NTE }] | Notes and Comments | 0 | -1 | | | | Appointment[1] | NTE[Appointment-Comment] | Appointment.participant.actor=Patient[1].id | Because multiple NTE segments in a message all need to map to a single Appointment.comment element, the content of the NTEs will need to be concatenated together in R4 |
| 4 | SIU_S12.PATIENT | [{] | --- PATIENT begin | 0 | -1 | | | | | | | |
| 4.1 | SIU_S12.PATIENT.PID | PID | Patient Identification | 1 | 1 | | | | Patient[1] | PID[Patient] | | Processing of the PID segment results in the creation of a new Patient resource |
| 4.1 | SIU_S12.PATIENT.PID | PID | Patient Identification | 1 | 1 | | | | Appointment[1] | PID[Appointment] | Appointment.participant.actor=Patient[1].id | |
| 4.1 | SIU_S12.PATIENT.PID | PID | Patient Identification | 1 | 1 | IF PID-33 AND PID-34 VALUED | | One may drop PID-33 from the condition if PID-34 Last Update Facility is all sufficient without a date. | Provenance[4] | PID[Provenance-Patient] | Provenance.target.reference=Patient[1].id | |
| 4.2 | SIU_S12.PATIENT.PV1 | [PV1] | Patient Visit | 0 | 1 | | | | Encounter[1] | PV1[Encounter] | Encounter[1].subject.reference=Patient | Processing of the PV1 segment results in the creation of a new Encounter resource |
| 4.2 | SIU_S12.PATIENT.PV1 | [PV1] | Patient Visit | 0 | 1 | IF PV1-43 VALUED | | | Basic | PV1[Basic-EncounterHistory] | Basic.extension-EncounterHistory.subject.reference=Patient[1].id | |
| 4.2 | SIU_S12.PATIENT.PV1 | [PV1] | Patient Visit | 0 | 1 | | | | Patient[1] | PV1[Patient] | | |
| 4.2 | SIU_S12.PATIENT.PV1 | [PV1] | Patient Visit | 0 | 1 | IF PV1-20 VALUE | | | Coverage[1] | PV1[Coverage] | Coverage.beneficiary.reference=Patient[1].id | |
| 4.3 | SIU_S12.PATIENT.PV2 | [PV2] | Patient Visit - Additional Info | 0 | 1 | | | | Encounter[1] | PV2[Encounter] | Encounter.subject=Patient[1].id | Incorporate PV2 content into the Encounter created from the PV1 segment. |
| 4.4 | SIU_S12.PATIENT.OBX | [{ OBX }] | Observation/Result | 0 | -1 | | | | Observation | OBX[Observation] | Observation.subject=Patient[1].id | |
| 4.5 | SIU_S12.PATIENT.DG1 | [{ DG1 }] | Diagnosis | 0 | -1 | | | If in context of the patient | Condition[1] | DG1[Condition] | Condition[1].subject.reference=Patient[1].id | Processing of the DG1 segment results in the creation of a new Condition resource |
| 4.6 | SIU_S12.PATIENT |]] | --- PATIENT end | 0 | -1 | | | | | | | |
| 5 | SIU_S12.RESOURCES | { | --- RESOURCES begin RGS | 1 | -1 | | | | | | | |
| 5.1 | SIU_S12.RESOURCES.RGS | RGS | Resource Group Segment | 1 | 1 | | | | | | | |
| 5.2 | SIU_S12.RESOURCES.SERVICE | [{ | --- SERVICE begin AIS | 0 | -1 | | | | | | | |
| 5.2.1 | SIU_S12.RESOURCES.SERVICE.AIS | AIS | Appointment Information - Service | 1 | 1 | | | Determine which AIS populates Appointment if there is more than one AIS. | Appointment[1] | AIS[Appointment] | | |
| 5.2.1 | SIU_S12.RESOURCES.SERVICE.AIS | AIS | Appointment Information - Service | 1 | 1 | IF SCH-26 IS VALUED OR SCH-27 IS VALUED | | | ServiceRequest[n] | AIS[ServiceRequest] | | Note that each ServiceRequest being created includes data from SCH segment. If SCH-26 and SCH-27 repeat, then the implementer needs to determine how to align this with potentially repeating AIS segments. |
| 5.2.2 | SIU_S12.RESOURCES.SERVICE.NTE | [{ NTE }] | Notes and Comments | 0 | -1 | | | Determine which AIS populates Appointment if there is more than one AIS. | Appointment[1] | NTE[Appointment-Comment] | Appointment.participant.actor=Patient[1].id | Because multiple NTE segments in a message all need to map to a single Appointment.comment element, the content of the NTEs will need to be concatenated together in R4 |
| 5.2.3 | SIU_S12.RESOURCES.SERVICE |]] | --- SERVICE end | 0 | -1 | | | | | | | |
| 5.3 | SIU_S12.RESOURCES.GENERAL_RESOURCE | [{ | --- GENERAL_RESOURCE begin AIG | 0 | -1 | | | | | | | |
| 5.3.1 | SIU_S12.RESOURCES.GENERAL_RESOURCE.AIG | AIG | Appointment Information - General Resource | 1 | 1 | | | Determine which AIG populates Appointment if there is more than one AIG. | Appointment[1] | AIG[Appointment] | | |
| 5.3.2 | SIU_S12.RESOURCES.GENERAL_RESOURCE.NTE | [{ NTE }] | Notes and Comments | 0 | -1 | | | | | | | |
| 5.3.3 | SIU_S12.RESOURCES.GENERAL_RESOURCE |]] | --- GENERAL_RESOURCE end | 0 | -1 | | | | | | | |
| 5.4 | SIU_S12.RESOURCES.LOCATION_RESOURCE | [{ | --- LOCATION_RESOURCE begin AIL | 0 | -1 | | | | | | | |
| 5.4.1 | SIU_S12.RESOURCES.LOCATION_RESOURCE.AIL | AIL | Appointment Information - Location Resource | 1 | -1 | | | Determine which AIL populates Appointment if there is more than one AIL. | Appointment[1] | AIL[Appointment] | | |
| 5.4.2 | SIU_S12.RESOURCES.LOCATION_RESOURCE.NTE | [{ NTE }] | Notes and Comments | 0 | -1 | | | | | | | |
| 5.4.3 | SIU_S12.RESOURCES.LOCATION_RESOURCE |]] | --- LOCATION_RESOURCE end | 0 | -1 | | | | | | | |
| 5.5 | SIU_S12.RESOURCES.PERSONNEL_RESOURCE | [{ | --- PERSONNEL_RESOURCE begin AIP | 0 | -1 | | | | | | | |
| 5.5.1 | SIU_S12.RESOURCES.PERSONNEL_RESOURCE.AIP | AIP | Appointment Information - Personnel Resource | 1 | -1 | | | | Appointment[1] | AIP[Appointment] | | |
| 5.5.2 | SIU_S12.RESOURCES.PERSONNEL_RESOURCE.NTE | [{ NTE }] | Notes and Comments | 0 | -1 | | | | | | | |
| 5.5.3 | SIU_S12.RESOURCES.PERSONNEL_RESOURCE |]] | --- PERSONNEL_RESOURCE end | 0 | -1 | | | | | | | |
| 5.6 | SIU_S12.RESOURCES | } | --- RESOURCES end | 1 | -1 | | | | | | | |

