



C.

## Version 2.X BNF Message Descriptions

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## C.1 APPENDIX C CONTENTS

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## C.2 BNF DESCRIPTIONS OF HL7 VERSION 2.X ABSTRACT MESSAGES

## C.2.1 Messages

```
/*-- MessageStructures --*/
MessageStructure :=
       ADT_A02 /* ADT/ACK - Transfer a patient */
                 /* ADT/ACK - Discharge/end visit */
       ADT A03
       ADT A05
                 /* ADT/ACK - Pre-admit a patient */
       ADT A06
                  /* ADT/ACK - Change an outpatient to an inpatient
* /
                  /* ADT/ACK - Cancel admit/visit notification */
       ADT A09
       ADT A12
                  /* ADT/ACK - Cancel transfer */
                  /* ADT/ACK - Pending transfer */
       ADT_A15
                  /* ADT/ACK - Pending discharge */
       ADT_A16
                  /* ADT/ACK - Swap patients */
       ADT_A17
                  /* ADT/ACK - Bed status update */
       ADT_A20
       ADT_A21 /* ADT/ACK - Delete person information */
       ADT_A24
                  /* ADT/ACK - Link patient information */
       ADT_A37
                  /* ADT/ACK - Unlink patient information */
                  /* ADT/ACK - Cancel pre-admit */
       ADT A38
       ADT_A39
                  /* ADT/ACK - Merge account - patient account number
* /
       ADT A43
                  /* ADT/ACK - Change patient account number */
       ADT A44
                  /* ADT/ACK - Move account information - patient
account number */
       ADT_A45
                  /* ADT/ACK - Move visit information - visit number
* /
                  /* ADT/ACK - Change visit number */
       ADT_A50
       ADT_A52
                  /* ADT/ACK - Cancel leave of absence for a patient
       ADT_A54
                  /* ADT/ACK - Change attending doctor */
       ADT_A60
                  /* ADT/ACK - Update allergy information */
       ADT_A61
                  /* ADT/ACK - Change consulting doctor */
                  /* BAR/ACK - Add patient accounts */
       BAR P01
                  /* BAR/ACK - Purge patient accounts */
       BAR P02
       BAR P05
                  /* BAR/ACK - Update account */
       BAR P06
                  /* BAR/ACK - End account */
       BAR P10
                  /* BAR/ACK -Transmit Ambulatory Payment
Classification(APC) */
                  /* BAR/ACK - Update Diagnosis/Procedure */
       BAR_P12
       BPS_029
                  /* BPS - Blood product dispense status */
                  /* BRP - Blood product dispense status
       BRP_030
acknowledgment */
       BRT_032
                  /* BRT - Blood product transfusion/disposition
acknowledgment */
       BTS_031
                  /* BTS - Blood product transfusion/disposition */
                  /* Collaborative Care Fetch / Collaborative Care
       CCF I22
Information */
       CCM_I21  /* Collaborative Care Message */
```

```
CCQ I19
                   /* Collaborative Care Query/Collaborative Care
Query Update */
                   /* Cancel Collaborative Care Referral */
        CCR I16
                   /* Asynchronous Collaborative Care Update */
        CCU I20
        CRM C01
                   /* CRM - Cancel a patient registration on clinical
trial (for clerical mistakes onl */
                   /* CSU - Update/correction of patient order/result
        CSU C09
information */
        DBC_041
                   /* DBC - Create Donor Record Message */
                   /* DBU - Update Donor Record Message */
        DBC 042
        DEL_046
                   /* Donor Eligiblity Message */
                   /* Donor Eligibility Observations Message */
        DEO_045
                   /* Donor Registration - Minimal Message */
        DER 044
        DFT P03
                   /* DFT/ACK - Post detail financial transaction */
                   /* DFT/ACK - Post Detail Financial Transactions -
        DFT P11
New */
                   /* Donation Procedure Message */
        DPR 048
        DRC 047
                   /* Donor Request to Collect Message */
        DRG_043
                   /* General Order Message with Document Payload
Acknowledgement Message */
                   /* EAC/ACK - Automated equipment command */
        EAC_U07
                   /* EAN/ACK - Automated equipment notification */
        EAN_U09
                   /* EAR/ACK - Automated equipment response */
        EAR_U08
                   /* Submit HealthCare Services Invoice */
        EHC E01
        EHC_E02
                   /* Cancel HealthCare Services Invoice */
        EHC E04
                   /* Re-Assess HealthCare Services Invoice Request */
        EHC E10
                   /* Edit/Adjudication Results */
                   /* Request Additional Information */
        EHC E12
                   /* Additional Information Response */
        EHC E13
                   /* Payment/Remittance Advice */
        EHC E15
                   /* Submit Authorization Request */
        EHC E20
        EHC E21
                   /* Cancel Authorization Request */
                   /* Authorization Response */
        EHC_E24
        ESR U02
                   /* ESR/ACK - Automated equipment status request */
        ESU U01
                   /* ESU/ACK - Automated equipment status update */
        INR_U06
                   /* INR/ACK - Automated equipment inventory request
* /
        INR_U14
        INU_U05
                   /* INU/ACK - Automated equipment inventory update
                   /* LSU/ACK - Automated equipment log/service update
        LSU_U12
                   /* MDM/ACK - Document edit notification */
        MDM T01
                   /* MDM/ACK - Document edit notification and content
        MDM T02
* /
                   /* MFN/MFK - Master file - staff practitioner */
        MFN M02
                   /* MFN/MFK - Master files charge description */
        MFN M04
        MFN_M05
                   /* MFN/MFK - Patient location master file */
```

```
MFN M06
                  /* MFN/MFK - Clinical study with phases and
schedules master file */
       MFN M07
                /* MFN/MFK - Clinical study without phases but with
schedules master file */
       MFN M08
                  /* MFN/MFK - Test/observation (numeric) master file
* /
       MFN M09
                 /* MFN/MFK - Test/observation (categorical) master
file */
                  /* MFN/MFK - Test /observation batteries master
   MFN_M10
file */
                  /* MFN/MFK - Test/calculated observations master
      MFN_M11
file */
                  /* MFN/MFK - Master file notification message */
       MFN_M12
                  /* MFN/MFK - Master file notification - general */
       MFN_M13
                  /* MFN/MFK - Inventory item master file
       MFN M15
notification */
                  /* MFN/MFK - Master File Notification Inventory
       MFN M16
Item Enhanced */
                  /* DRG Master File Message */
       MFN M17
                  /* MFN/MFK - Master file notification -
       MFN M18
Test/Observation (Payer) */
       MFN M19
       MFN Znn
                  /* MFN/MFK - Master file notification - site
defined */
       NMD_N02
                  /* NMD/ACK - Application management data message
(unsolicited) */
                  /* OMB - Blood product order */
       OMB_027
                  /* OMD - Diet order */
       OMD_003
       OMG_019
                  /* OMG - General clinical order */
       OMI O23
                  /* OMI - Imaging order */
                  /* OML - Laboratory order */
       OML 021
       OML_O33
                  /* OML - Laboratory order for multiple orders
related to a single specimen */
       OML 035
                  /* OML - Laboratory order for multiple orders
related to a single container of a sp */
       OML_O39
                  /* Specimen shipment centric laboratory order */
       OML 059
       OMN_007
               /* OMN - Non-stock requisition order */
       OMP_009
                  /* OMP - Pharmacy/treatment order */
       OMQ_057
       OMS_O05 /* OMS - Stock requisition order */
       OPL_037
                  /* OPL - Population/Location-Based Laboratory Order
Message */
       OPR 038
                 /* OPR - Population/Location-Based Laboratory Order
Acknowledgment Message */
       OPU R25
                  /* OPU - Unsolicited Population/Location-Based
Laboratory Observation Message */
       ORA_R33 /* ORA - Observation Report Acknowledgement */
```

```
ORA R41
                   /* Observation Report Alert Acknowledgement */
                   /* ORB - Blood product order acknowledgment */
        ORB 028
        ORD 004
                   /* ORD - Diet order acknowledgment */
                  /* ORG/ORL - General clinical order response */
        ORG 020
        ORI 024
                   /* ORI - Imaging order response message to any OMI
* /
                  /* ORL - General laboratory order response message
       ORL_022
to any OML */
       ORL_034
                   /* ORL - Laboratory order response message to a
multiple order related to single sp */
       ORL 036
                  /* ORL - Laboratory order response message to a
single container of a specimen OML */
                  /* Specimen Shipment Centric Laboratory Order
        ORL 040
Acknowledgment Message */
       ORL 053
       ORL 054
       ORL 055
       ORL 056
                  /* ORN - Non-stock requisition acknowledgment */
       ORN_008
                   /* ORP - Pharmacy/treatment order acknowledgment */
       ORP_010
                   /* ORS - Stock requisition acknowledgment */
       ORS_006
        ORU R01
                   /* ORU - Unsolicited Point-Of-Care Observation
        ORU_R30
Message Without Existing Order - Pla */
       ORX_058
        OSM R26
                   /* OSM - Unsolicited Specimen Shipment Manifest
Message */
       OSU 051
       OSU 052
       OUL R22 /* OUL - Unsolicited Specimen Oriented Observation
Message */
       OUL R23
                   /* OUL - Unsolicited Specimen Container Oriented
Observation Message */
       OUL R24
                   /* OUL - Unsolicited Order Oriented Observation
Message */
       PEX_P07
                   /* PEX - Unsolicited update individual product
experience report */
       PGL_PC6
                  /* PGL - PC/ goal delete */
                   /* PMU/ACK - Update personnel record */
       PMU_B01
       PMU_B03
                   /* PMU/ACK - Delete personnel re cord */
                   /* PMU/ACK - Terminate practicing person */
       PMU_B04
       PMU B07
                   /* PMU/ACK - Grant Certificate/Permission */
                   /* PMU/ACK - Revoke Certificate/Permission */
       PMU B08
                  /* PPG - PC/ pathway (goal-oriented) add */
       PPG PCG
       PPP PCB
                  /* PPP - PC/ pathway (problem-oriented) update */
                   /* PPR - PC/ problem add */
       PPR PC1
        QBP E03
                   /* HealthCare Services Invoice Status */
        QBP_E22
                  /* Authorization Request Status */
```

```
/* OBP - Get Donor Record Candidates */
        OBP 033
                   /* QBP - Get Donor Record */
        QBP_034
        OBP 011
                   /* QBP Query Dispense history */
        QBP_Q13
        QBP_Q15
                   /* QBP - Query by parameter requesting an RDY
display response */
       QBP_Q21
                   /* QBP - Personnel Information by Segment Query */
       QBP_Z73
                   /* Information about Phone Calls */
                   /* QCN/ACK - Cancel query/acknowledge message */
       QCN_J01
                   /* QSB - Create subscription */
       QSB Q16
       QVR_Q17
                   /* QVR - Query for previous events */
       RAS 017
                   /* RAS - Pharmacy/treatment administration */
                   /* RDE - Pharmacy/treatment encoded order */
       RDE_O11
       RDE_O49
                  /* Pharmacy/treatment Dispense Information */
       RDR_RDR
                  /* RDS - Pharmacy/treatment dispense */
       RDS_013
                  /* RDY - Display response in response to QBP^Q15 */
       RDY K15
       RDY_Z80
                   /* Dispense Information (Response) */
       REF I12
                   /* REF/RRI - Patient referral */
                   /* RGV - Pharmacy/treatment give */
       RGV_015
                   /* RQA/RPA - Request for treatment authorization
       RQA I08
information */
                   /* PIN/ACK - Unsolicited insurance information */
       RQI I01
                   /* RQD/RPI - Request for patient demographic data
       ROP IO4
* /
                   /* RRA - Pharmacy/treatment administration
       RRA_018
acknowledgment */
       RRD_014
                   /* RRD - Pharmacy/treatment dispense acknowledgment
* /
       RRE_O12
                   /* RRE - Pharmacy/treatment encoded order
acknowledgment */
       RRE_050
       RRG 016
                  /* RRG - Pharmacy/treatment give acknowledgment */
       RSP_K11
                  /* RSP - Segment pattern response in response to
OBP^011 */
       RSP_K25
                   /* RSP - Personnel Information by Segment Response
* /
       RSP_K31
                   /* RSP -Dispense History Response */
                   /* Get Donor Record Candidates Response Message */
       RSP_033
       RSP_034
                   /* Segment Pattern Response Message */
                   /* Dispense History (Response) */
       RSP_Z82
                   /* Who Am I (Response) */
       RSP_Z84
       RSP_Z86
                   /* Pharmacy Information Comprehensive (Response) */
                  /* Dispense Information (Response) */
       RSP Z88
       RSP Z90
                  /* Lab Results History (Response) */
                  /* RTB - Tabular response in response to QBP^Q13 */
       RTB K13
       RTB Z74
                  /* Information about Phone Calls (Response) */
                  /* SDR/SDS - Request anti-microbial device data */
        SDR S31
```

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SDR S32
                               /* SCN/ACK - Notification of anti-microbial device
cycle data */
             SIU S12
                               /* SIU/ACK - Notification of appointment
discontinuation */
             SLR S28
                               /* STI/STS - Request item */
             SRM_S01
                               /* SRM/SRR - Request cancellation of
service/resource on appointment */
                               /* SSR/ACK - specimen status request */
             SSR_U04
             SSU_U03
                               /* SSU/ACK - Specimen status update */
             STC_S33
                               /* STC/ACK - Notification of sterilization
configuration */
                               /* TCU/ACK - Automated equipment test code settings
             TCU_U10
update */
                               /* UDM/ACK - Unsolicited display update message */
            UDM Q05
                               /* VXU - Unsolicited vaccination record update */
             VXU V04
      /* ADT/ACK - Transfer a patient */
ADT_A01 := SOM MSH ST MSH ST MSH ST [{ ARV ST }] [{ ARV ST }]
[{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{ SFT ST }] [{
SFT ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ] [ UAC ST ] EVN ST EVN ST
EVN ST EVN ST PID ST PID ST PID ST PID ST [ PD1 ST ] [ PD1 ST ] [ PD1
ST ] [ PD1 ST ] [{ OH1 ST }] [{ OH1 ST }] [{ OH1 ST }] [{
OH2 ST }] [{ OH2 ST }] [{ OH2 ST }] [{ OH2 ST }] [ OH3 ST ]
[ OH3 ST ] [ OH4 ST ] [ { OH4 ST } ] [ { OH4 ST } ] [ { OH4 ST } ]
}] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ ROL ST }] [{
ROL ST }] [{ ROL ST }] [{ ROL ST }] [{ PRT ST }] [{ PRT ST }]
ST }] [{ PRT ST }] [{ ST [{ ST [{ ST NK1 ST NK1 ST NK1 ST NK1 ST
[{ OH2 ST }] [{ OH2 ST }] [{ OH2 ST }] [ OH3 ST ] [ OH3
ST ] [ OH3 ST ] [ OH3 ST ] }] ST }] ST }] ST PV1 ST PV1 ST PV1
ST PV1 ST [ PV2 ST ] [ PV2 ST ] [ PV2 ST ] [ ARV ST }] [{
ARV ST }] [{ ARV ST }] [{ ROL ST }] [{ ROL ST }] [{ ROL ST }]
ST }] [{ ROL ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }]
[{ DB1 ST }] [{ DB1 ST }] [{ DB1 ST }] [{ ST [{ ST [{ ST
[{ ST OBX ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST
}] [{ PRT ST }] }] ST }] ST }] ST }] ST [{ AL1 ST }] [{ AL1 ST }] [{
AL1 ST }] [{ AL1 ST }] [{ IAM ST }] [{ IAM ST }] [{ IAM ST }]
ST }] [{ DG1 ST }] [{ DG1 ST }] [{ DG1 ST }] [ DRG ST ] [
DRG ST ] [ DRG ST ] [ ST [{ ST [{ ST PR1 ST PR1 ST
PR1 ST PR1 ST [{ ROL ST }] [{ ROL ST }] [{ ROL ST }] [{ ROL ST }] [{
PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST }] ST }] ST }]
ST [{ GT1 ST }] [{ GT1 ST }] [{ GT1 ST }] [{ ST [{ ST [{
ST [{ ST IN1 ST IN1 ST IN1 ST IN1 ST [ IN2 ST ] [ IN2 ST ] [ IN2 ST ]
[ IN2 ST ] [{ IN3 ST }] [{ IN3 ST }] [{ IN3 ST }] [{ ROL
ST }] [{ ROL ST }] [{ ROL ST }] [{ ROL ST }] [{ PRT ST }]
[{ PRT ST }] [{ PRT ST }] [{ ST [{ ST [{ ST AUT ST 
AUT ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST
}] ST }] ST [{ ST [{ ST [{ ST RF1 ST RF1 ST RF1 ST RF1 ST [{ PRT
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ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST \$| ST

/\* ADT/ACK - Discharge/end visit \*/
ADT\_A02 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] EVN ST PID
ST [ PD1 ST ] [{ OH1 ST }] [{ OH2 ST }] [ OH3 ST ] [{ OH4 ST }] [{ ARV
ST }] [{ ROL ST }] [{ PRT ST }] PV1 ST [ PV2 ST ] [{ ARV ST }] [{ ROL
ST }] [{ PRT ST }] [{ DB1 ST }] [{ ST OBX ST [{ PRT ST }] }] ST [ PDA
ST ] EOM;

/\* ADT/ACK - Pre-admit a patient \*/
ADT\_A03 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] EVN ST PID
ST [ PD1 ST ] [{ OH1 ST }] [{ OH2 ST }] [ OH3 ST ] [{ OH4 ST }] [{ ARV
ST }] [{ ROL ST }] [{ PRT ST }] [{ ST NK1 ST [{ OH2 ST }] [ OH3 ST ]
}] ST PV1 ST [ PV2 ST ] [{ ARV ST }] [{ ROL ST }] [{ PRT ST }] [{ DB1
ST }] [{ AL1 ST }] [{ IAM ST }] [{ DG1 ST }] [ DRG ST ] [{ ST PR1 ST
[{ ROL ST }] [{ PRT ST }] }] ST [{ ST OBX ST [{ PRT ST }] }] ST [{ GT1
ST }] [{ ST IN1 ST [ IN2 ST ] [{ IN3 ST }] [{ ROL ST }] [{ PRT ST }]
[{ ST AUT ST [{ PRT ST }] }] ST [{ ST RF1 ST [{ PRT ST }] }] ST [{ ACC ST ] [ PDA ST ] EOM;

/\* ADT/ACK - Change an outpatient to an inpatient \*/ ADT\_A05 := SOM MSH ST MSH ST MSH ST [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ] EVN ST EVN ST EVN ST EVN ST PID ST PID ST PID ST PID ST [ PD1 ST ] [ PD1 ST ] [ PD1 ST ] [ PD1 ST ] [{ OH1 ST }] [{ OH1 ST }] [{ OH1 ST }] [{ OH2 ST }] [{ OH2 ST }] [{ OH2 ST }] [{ OH2 ST }] [ OH3 ST ] [ OH3 ST ] [ OH4 ST ] [ { OH4 ST }] [ { OH4 ST }] [ { OH4 ST }] }] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ ROL ST }] [{ ROL ST }] [{ ROL ST }] [{ ROL ST }] [{ PRT ST }] [{ PRT ST }] ST }] [{ PRT ST }] [{ ST [{ ST [{ ST NK1 ST NK1 ST NK1 ST NK1 ST [{ OH2 ST }] [{ OH2 ST }] [{ OH2 ST }] [{ OH2 ST }] [ OH3 ST ] [ OH3 ST ] [ OH3 ST ] [ OH3 ST ] }] ST }] ST }] ST PV1 ST PV1 ST PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] [ PV2 ST ] [ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ ROL ST }] [{ ROL ST }] ST }] [{ ROL ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ DB1 ST }] [{ DB1 ST }] [{ DB1 ST }] [{ ST [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] }] ST }] ST }] ST }] ST [{ AL1 ST }] [{ AL1 ST }] [{ AL1 ST }] [{ AL1 ST }] [{ IAM ST }] [{ IAM ST }] [{ IAM ST }] ST }] [{ DG1 ST }] [{ DG1 ST }] [{ DG1 ST }] [ DRG ST ] [ DRG ST ] [ DRG ST ] [  $\$  ST [{ ST [{ ST [{ ST PR1 PR1 ST PR1 ST [{ ROL ST }] [{ ROL ST }] [{ ROL ST }] [{

PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST }] ST }] ST }] ST }]

ST [{ GT1 ST }] [{ GT1 ST }] [{ GT1 ST }] [{ GT1 ST }] [{ ST [[ ST [[ ST [] [ ST ]] [ IN2 ST ] [ IN2 ST ] [ IN2 ST ]] [{ IN3 ST }] [{ ROL ST }] [{ ROL ST }] [{ ROL ST }] [{ ROL ST }] [{ PRT ST }] ST }

/\* ADT/ACK - Cancel admit/visit notification \*/ ADT\_A06 := SOM MSH ST MSH ST [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] EVN ST EVN ST PID ST PID ST [ PD1 ST ] [ PD1 ST ] [{ OH1 ST }] [{ OH1 ST }] [{ OH2 ST }] [{ OH2 ST }] [ OH3 ST ] [ OH3 ST ] [{ OH4 ST }] [{ OH4 ST }] [{ ARV ST }] [{ ROL ST }] [{ ROL ST }] [{ PRT ST }] [{ PRT ST }] [ MRG ST ] [{ ST [{ ST NK1 ST NK1 ST [{ OH2 ST }] [{ OH2 ST }] [ OH3 ST ] [ OH3 ST ] }] ST }] ST PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] [{ ARV ST }] [{ ARV ST }] [{ ROL ST }] [{ ROL ST }] [{ PRT ST }] [{ PRT ST }] [{ DB1 ST }] [{ DB1 ST }] [{ ST [{ ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] }] ST }] ST [{ AL1 ST }] [{ AL1 ST }] [{ IAM ST }] [{ DG1 ST }] [{ DG1 ST }] [ DRG ST ] [ DRG ST ] [{ ST [{ ST PR1 ST PR1 ST [{ ROL ST }] [{ ROL ST }] [{ PRT ST }] [{ PRT ST }] ST ] ST [{ GT1 ST }] [{ GT1 ST }] [{ ST [{ ST IN1 ST IN1 ST [ IN2 ST ] [ IN2 ST ] [{ IN3 ST }] [{ IN3 ST }] [{ ROL ST }] [{ ROL ST }] [{ PRT ST }] }] ST }] ST [ ACC ST ] [ ACC ST ] [ UB1 ST ] [ UB2 ST ] [ UB2 ST ] EOM;

/\* ADT/ACK - Cancel transfer \*/
ADT\_A09 := SOM MSH ST MSH ST MSH ST [{ ARV ST }] [{

/\* ADT/ACK - Pending transfer \*/
ADT\_A12 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] EVN ST PID ST [ PD1 ST ] PV1 ST [ PV2 ST ] [{ DB1 ST }] [{ ST OBX ST [{ PRT ST }]}] ST EOM;

/\* ADT/ACK - Pending discharge \*/

ADT\_A15 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] EVN ST PID ST [ PD1 ST ] [{ ARV ST }] [{ ROL ST }] [{ PRT ST }] PV1 ST [ PV2 ST ] [{ ARV ST }] [{ ROL ST }] { PRT ST } [{ DB1 ST }] [{ ST OBX ST [{ PRT ST }] }] ST EOM;

/\* ADT/ACK - Swap patients \*/
ADT\_A16 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] EVN ST PID
ST [ PD1 ST ] [{ OH1 ST }] [{ OH2 ST }] [ OH3 ST ] [{ OH4 ST }] [{ ARV
ST }] [{ ROL ST }] [{ PRT ST }] [{ ST NK1 ST [{ OH2 ST }] [ OH3 ST ]
}] ST PV1 ST [ PV2 ST ] [{ ARV ST }] [{ ROL ST }] [{ PRT ST }] [{ DB1
ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ AL1 ST }] [{ IAM ST }] [{ DG1
ST }] [ DRG ST ] [{ ST PR1 ST [{ ROL ST }] [{ PRT ST }] }] ST [{ GT1
ST }] [{ ST IN1 ST [ IN2 ST ] [{ IN3 ST }] [{ ROL ST }] [{ PRT ST }]
[{ ST AUT ST [{ PRT ST }] }] ST [{ ST RF1 ST [{ PRT ST }] }] ST [] ST [] ACC ST ] EOM;

/\* ADT/ACK - Bed status update \*/
ADT\_A17 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] EVN ST PID
ST [ PD1 ST ] PV1 ST [ PV2 ST ] [{ DB1 ST }] [{ ST OBX ST [{ PRT ST }]}
}] ST PID ST [ PD1 ST ] PV1 ST [ PV2 ST ] [{ DB1 ST }] [{ ST OBX ST [{ PRT ST }] }] ST EOM;

/\* ADT/ACK - Delete person information \*/ ADT\_A20 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EVN ST NPU ST EOM;

/\* ADT/ACK - Link patient information \*/ ADT A21 := SOM MSH ST [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] }] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ] ST ] [ UAC ST ] [ UAC ST ] [ UAC ST ] [ UAC ST ] EVN ST PID ST [ PD1 ST ] PV1 ST [ PV2 ST ] [ ST ] [ PV2 ST ] [ PV2 ST ] [{ DB1 ST }] [{ ST [ST OBX ST [{ PRT ST }] ST }] [{ PRT ST }] [{ PRT ST }] }] ST EOM;

```
/* ADT/ACK - Unlink patient information */
ADT A24 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] EVN ST PID
ST [ PD1 ST ] [ PV1 ST ] [{ DB1 ST }] PID ST [ PD1 ST ] [ PV1 ST ] [{
DB1 ST }] EOM;
    /* ADT/ACK - Cancel pre-admit */
ADT_A37 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] EVN ST PID
ST [ PD1 ST ] [ PV1 ST ] [{ DB1 ST }] PID ST [ PD1 ST ] [ PV1 ST ] [{
DB1 ST }] EOM;
   /* ADT/ACK - Merge account - patient account number */
ADT_A38 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] EVN ST PID
ST [ PD1 ST ] PV1 ST [ PV2 ST ] [{ DB1 ST }] [{ ST OBX ST [{ PRT ST }]
}] ST [{ DG1 ST }] [ DRG ST ] EOM;
   /* ADT/ACK - Change patient account number */
ADT A39 := SOM MSH ST MSH ST MSH ST [{ ARV ST }] [{ ARV ST }] [{ ARV
ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ]
UAC ST ] EVN ST EVN ST EVN ST { ST { ST PID ST PID ST PID ST [
PD1 ST ] [ PD1 ST ] [ PD1 ST ] MRG ST MRG ST MRG ST [ PV1 ST ] [ PV1
ST ] [ PV1 ST ] } ST } ST } ST EOM;
   /* ADT/ACK - Move account information - patient account number */
ADT_A43 := SOM MSH ST MSH ST [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{
SFT ST }] [ UAC ST ] [ UAC ST ] EVN ST EVN ST { ST PID ST PID ST
[ PD1 ST ] [ PD1 ST ] MRG ST MRG ST } ST } ST EOM;
   /* ADT/ACK - Move visit information - visit number */
ADT_A44 := SOM MSH ST MSH ST [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{
SFT ST }] [ UAC ST ] [ UAC ST ] EVN ST EVN ST { ST PID ST PID ST
[ PD1 ST ] [ PD1 ST ] [{ ARV ST }] [{ ARV ST }] MRG ST MRG ST } ST }
ST EOM;
    /* ADT/ACK - Change visit number */
ADT_A45 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] EVN ST PID
ST [ PD1 ST ] { ST MRG ST PV1 ST } ST EOM;
    /* ADT/ACK - Cancel leave of absence for a patient */
ADT_A50 := SOM MSH ST MSH ST [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{
SFT ST }] [ UAC ST ] [ UAC ST ] EVN ST EVN ST PID ST PID ST [ PD1 ST ]
[ PD1 ST ] MRG ST MRG ST PV1 ST PV1 ST EOM;
```

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/* ADT/ACK - Change attending doctor */
ADT_A52 := SOM MSH ST MSH ST [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{
SFT ST }] [ UAC ST ] [ UAC ST ] EVN ST EVN ST PID ST PID ST [ PD1 ST ]
[ PD1 ST ] PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] EOM;
    /* ADT/ACK - Update allergy information */
ADT_A54 := SOM MSH ST MSH ST [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{
SFT ST }] [ UAC ST ] [ UAC ST ] EVN ST EVN ST PID ST PID ST [ PD1 ST ]
[ PD1 ST ] [{ ROL ST }] [{ ROL ST }] [{ PRT ST }] [{ PRT ST }] PV1 ST
PV1 ST [ PV2 ST ] [ PV2 ST ] [{ ROL ST }] [{ ROL ST }] [{ PRT ST }] [{
PRT ST }] EOM;
    /* ADT/ACK - Change consulting doctor */
ADT_A60 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] EVN ST PID
ST [{ ARV ST }] [ ST PV1 ST [ PV2 ST ] [{ ARV ST }] ] ST [{ ST IAM ST
[{ NTE ST }] [{ IAR ST }] }] ST EOM;
    /* BAR/ACK - Add patient accounts */
ADT_A61 := SOM MSH ST MSH ST [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{
SFT ST }] [ UAC ST ] [ UAC ST ] EVN ST EVN ST PID ST PID ST [ PD1 ST ]
[ PD1 ST ] [{ ROL ST }] [{ ROL ST }] [{ PRT ST }] [{ PRT ST }] PV1 ST
PV1 ST [{ ROL ST }] [{ ROL ST }] [{ PRT ST }] [{ PRT ST }] [ PV2 ST ]
[ PV2 ST ] EOM;
    /* BAR/ACK - Purge patient accounts */
BAR_P01 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EVN ST PID ST [ PD1 ST ]
[{ PRT ST }] [{ ROL ST }] { ST PV1 ST [ PV2 ST ] [{ PRT ST }] [{ ROL
ST }] [{ DB1 ST }] [{ OBX ST }] [{ PRT ST }] [{ AL1 ST }] [{ ST DG1 ST
}] ST [ DRG ST ] [{ ST PR1 ST [{ PRT ST }] [{ ROL ST }] }] ST [{ GT1
ST }] [{ NK1 ST }] [{ ST IN1 ST [ IN2 ST ] [{ IN3 ST }] [{ PRT ST }]
[{ ROL ST }] }] ST [ ACC ST ] [ UB1 ST ] [ UB2 ST ] } ST EOM;
    /* BAR/ACK - Update account */
BAR_P02 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EVN ST { ST PID ST [ PD1
ST ] [{ PRT ST }] [ PV1 ST ] [{ DB1 ST }] } ST EOM;
    /* BAR/ACK - End account */
BAR_P05 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EVN ST PID ST [ PD1 ST ]
[{ PRT ST }] [{ ROL ST }] { ST PV1 ST [ PV2 ST ] [{ PRT ST }] [{ ROL
ST }] [{ DB1 ST }] [{ OBX ST }] [{ PRT ST }] [{ AL1 ST }] [{ ST DG1 ST
}] ST [ DRG ST ] [{ ST PR1 ST [{ PRT ST }] [{ ROL ST }] }] ST [{ GT1
ST }] [{ NK1 ST }] [{ ST IN1 ST [ IN2 ST ] [{ IN3 ST }] [{ PRT ST }]
[{ ROL ST }] }] ST [ ACC ST ] [ UB1 ST ] [ UB2 ST ] [ ABS ST ] [{ BLC
ST }] [ RMI ST ] } ST EOM;
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/* BAR/ACK -Transmit Ambulatory Payment Classification(APC) */
BAR_P06 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EVN ST { ST PID ST [{
PRT ST }] [ PV1 ST ] } ST EOM;
    /* BAR/ACK - Update Diagnosis/Procedure */
BAR_P10 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EVN ST PID ST [{ PRT ST
}] PV1 ST [{ ST DG1 ST }] ST GP1 ST [{ ST PR1 ST [ GP2 ST ] }] ST
EOM;
   /* BPS - Blood product dispense status */
BAR_P12 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EVN ST PID ST [{ PRT ST
}] PV1 ST [{ ST DG1 ST }] ST [ DRG ST ] [{ ST PR1 ST [{ PRT ST }] [{
ROL ST }] }] ST [ OBX ST ] [{ PRT ST }] EOM;
   /* BRP - Blood product dispense status acknowledgment */
BPS_029 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST
}] [ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ ARV ST }] [{ NTE ST }] [ ST
PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST ] ST { ST ORC ST [{ PRT ST }] [{
ST TQ1 ST [{ TQ2 ST }] }] ST BPO ST [{ NTE ST }] [{ ST BPX ST [{ NTE
ST }] }] ST } ST EOM;
   /* BRT - Blood product transfusion/disposition acknowledgment */
BRP_O30 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ PRT ST }] [{ ARV ST }] [{ ST
ORC ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ BPO ST ] [{ BPX
/* BTS - Blood product transfusion/disposition */
BRT_032 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ PRT ST }] [{ ARV ST }] ] ST
[{ ST ORC ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ BPO ST ]
[{ BTX ST }] }] ST ] ST EOM;
   /* Collaborative Care Fetch / Collaborative Care Information */
BTS_031 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST
}] [ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ NTE ST }] [ ST PV1 ST [ PV2
ST ] [{ PRT ST }] ] ST ] ST { ST ORC ST [{ PRT ST }] [{ ST TQ1 ST [{
TQ2 ST }] }] ST BPO ST [{ NTE ST }] [{ ST BTX ST [{ NTE ST }] }] ST }
ST EOM;
```

/\* Collaborative Care Message \*/

CCF\_I22 := SOM MSH ST [{ SFT ST }] [ UAC ST ] PID ST EOM;

/\* Collaborative Care Query/Collaborative Care Query Update \*/ CCM\_I21 := SOM MSH ST [{ SFT ST }] [ UAC ST ] PID ST [ PD1 ST ] [{ NK1 ST }] [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ] }] ST [{ ST SCH ST [{ ST RGS ST [{ ST < ST AIS ST AIG ST AIL ST AIP ST > ST [{ ST OBX ST [{ PRT ST | ST ODS ST PR1 ST RF1 ST AL1 ST IAM ST ACC ST RMI ST DB1 ST DG1 ST DRG ST PDA ST > ST [{ ST OBX ST [{ PRT ST }] }] ST }] ST [{ ST < ST ROL ST PRT ST PRD ST > ST [{ VAR ST }] }] ST [{ CTI ST }] }] ST { ST PV1 ST [ PV2 ST ] } ST [{ ST ORC ST [ ST RXO ST { RXR ST } [{ RXC ST }] [{ ST OBX ST [{ PRT ST }] }] ST ] ST [ ST RXE ST { RXR ST } [{ RXC ST }] [{ ST OBX ST [{ PRT ST }] }] ST ] ST [{ ST { RXA ST } RXR ST [{ ST OBX ST [{ PRT ST }] }] ST }] ST [{ CTI ST }] }] ST [{ ST PRB ST [{ VAR ST }] [{ ST < ST ROL ST PRT ST PRD ST > ST [{ VAR ST }] }] ST [{ ST OBX ST [{ PRT ST }] }] ST [{ ST GOL ST [{ VAR ST }] [{ ST < ST ROL ST PRT ST PRD ST > ST [{ VAR ST }] }] ST [{ ST OBX ST [{ PRT ST [{ VAR ST }] }] ST [{ ST OBX ST [{ PRT ST }] }] ST }] ST [{ REL ST }] EOM;

/\* Cancel Collaborative Care Referral \*/ CCQ\_I19 := SOM MSH ST [{ SFT ST }] [ UAC ST ] RF1 ST [{ ST PRD ST [{ CTD ST }] }] ST [{ REL ST }] EOM;

/\* Asynchronous Collaborative Care Update \*/ CCR\_I16 := SOM MSH ST MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ] { RF1 ST } { RF1 ST } } { ST { ST PRD ST PRD ST PRD ST [{ CTD ST }] [{ CTD ST }] [{ CTD ST [{ ST TQ1 ST TQ1 ST TQ1 ST [{ TQ2 ST }] [{ TQ2 ST }] [{ TQ2 ST }] }] ST }] ST }] ST { ST { ST < ST < ST < ST OBR ST OBR ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] | ST | ST RXO ST RXO ST RXO ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] | ST | ST ODS ST ODS ST ODS ST PR1 ST PR1 ST PR1 ST > ST > ST [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST }] ST } ST } ST } ST } ST [{ CTI ST }] [{ CTI ST }] [{ CTI ST }] }] ST }] ST }] ST { ST { ST { ST PID ST PID ST PID ST [ PD1 ST ] [ PD1 ST ] [ PD1 ST ] } ST } ST } ST [{ NK1 ST }] [{ NK1 ST }] [{ NK1 ST }] [{ ST [{ ST [{ ST IN1 ST IN1 ST IN1 ST [ IN2 ST ] [ IN2 ST ] [ IN2 ST ] [ IN3 ST ] [ IN3 ST ] [ IN3 ST ] }] ST }] ST [{ ST [{ ST [{ ST SCH ST SCH ST SCH ST [{ ST [{ ST RGS ST RGS ST RGS ST [{ ST [{ ST < ST < ST AIS ST AIS ST AIS ST AIG ST AIG ST AIG ST AIL ST AIL ST AIL ST AIP ST AIP ST AIP ST > ST > ST | ST [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST [{ ST [{ ST [{ ST [{

ST ORC ST ORC ST [{ ST [{ ST (ST < ST < ST OBR ST OBR ST OBR ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] | ST | ST | ST ODS ST ODS ST ODS ST PR1 ST PR1 ST PR1 ST RF1 ST RF1 ST RF1 ST AL1 ST AL1 ST AL1 ST IAM ST IAM ST IAM ST ACC ST ACC ST ACC ST RMI ST RMI ST RMI ST DB1 ST DB1 ST DG1 ST DG1 ST DG1 ST DRG ST DRG ST DRG ST > ST > ST > ST [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] }] ST }] ST }] ST }] ST }] ST }] ST [{ ST [{ ST [{ ST < ST < ST < ST ROL ST ROL ST ROL ST PRT ST PRT ST PRT ST PRD ST PRD ST PRD ST > ST > ST [ { VAR ST }] [ { VAR ST }] [ { VAR ST }] ] ST }] ST }] ST [{ CTI ST }] [{ CTI ST }] [{ CTI ST }] ST }] ST }] ST }] ST } { ST { ST PV1 ST PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] [ PV2 ST ] } ST } ST } ST [{ ST [{ ST [{ ST ORC ST ORC ST ORC ST [ ST [ ST RXO ST RXO ST RXO ST [{ PRT ST }] [{ PRT ST }] { RXR ST } { RXR ST } { RXR ST } [{ RXC ST }] [{ RXC ST }] [{ ST [{ ST [{ ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] } ST }] ST }] ST ] ST ] ST ] ST [ ST [ ST RXE ST RXE ST RXE ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] { RXR ST } { RXR ST } [{ RXC ST }] [{ RXC ST }] [{ RXC ST }] [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST }] ST ] ST ] ST ] ST [{ ST [{ ST [{ ST RXA ST RXA ST RXA ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] RXR ST RXR ST RXR ST [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST }] ST }] ST }] ST }] ST }] ST [{ CTI ST }] [{ CTI ST }] [{ CTI ST }] ST }] ST }] ST [{ ST [{ ST PRB ST PRB ST PRB ST [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] [{ ST [{ ST < ST < ST < ST ROL ST ROL ST ROL ST PRT ST PRT ST PRT ST PRD ST PRD ST PRD ST > ST > ST [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] }] ST }] ST }] ST [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST }] ST }] ST }] ST }] }] ST }] ST [{ ST [{ ST [{ ST GOL ST GOL ST [{ VAR ST }}] [{ VAR ST }] [{ VAR ST }] [{ ST [{ ST < ST < ST < ST ROL ST ROL ST ROL ST PRT ST PRT ST PRD ST PRD ST PRD ST > ST > ST | { VAR ST }] [{ VAR ST }] [{ VAR ST }] }] ST }] ST }] ST [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST }] ST }] ST }] ST }] ST [{ ST [{ ST [{ ST PTH ST PTH ST PTH ST [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] [{ ST [{ ST [{ ST < ST < ST ROL ST ROL ST ROL ST PRT ST PRT ST PRD ST PRD ST PRD ST > ST > ST > ST [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] ST }] ST }] ST [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] }] ST [{ REL ST }] [{ REL ST }] [{ REL ST } ] EOM;

/\* CRM - Cancel a patient registration on clinical trial (for
clerical mistakes onl \*/
CCU\_I20 := SOM MSH ST [{ SFT ST }] [ UAC ST ] RF1 ST [{ ST PRD ST [{
CTD ST }] }] ST [{ ST PID ST [ PD1 ST ] }] ST [{ NK1 ST }] [{ ST IN1
ST [ IN2 ST ] [ IN3 ST ] }] ST [{ ST SCH ST [{ ST RGS ST [{ ST < ST
AIS ST AIG ST AIL ST AIP ST > ST [{ ST OBX ST [{ PRT ST }] }] ST }] ST

} ST } ST [{ ST ORC ST [{ ST < ST OBR ST [{ PRT ST }] | ST ODS ST
PR1 ST RF1 ST AL1 ST IAM ST ACC ST RMI ST DB1 ST DG1 ST DRG ST PDA ST
> ST [{ ST OBX ST [{ PRT ST }] }] ST [{ ST < ST ROL ST PRT ST
PRD ST > ST [{ VAR ST }] }] ST [{ CTI ST }] }] ST { ST PV1 ST [ PV2 ST
] } ST [{ ST ORC ST [ ST RXO ST [{ PRT ST }] { RXR ST } [{ RXC ST }]
[{ ST OBX ST [{ PRT ST }] }] ST [ ST RXE ST [{ PRT ST }] { RXR ST
} [{ RXC ST }] [{ ST OBX ST [{ PRT ST }] }] ST ] ST [{ CTI ST }] }]
ST [{ ST PRB ST [{ VAR ST }] [{ ST < ST ROL ST PRT ST PRD ST > ST [{ VAR ST }] }] ST [{ ST GOL ST [{ VAR ST }] }] ST [{ ST OBX ST [{ PRT ST }] }] ST [{ ST GOL ST [{ VAR ST }] }] ST [{ ST OBX ST [{ VAR ST }] }] ST [{ ST OBX ST [{ VAR ST }] }] ST [{ ST OBX ST [{ PRT ST }] }] ST [{ ST OBX ST OBX ST [{

/\* CSU - Update/correction of patient order/result information \*/ CRM\_C01 := SOM MSH ST [{ ARV ST }] ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{ SFT ST }] ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] { ST { ST { ST { ST { ST FID ST PID ST PID ST PID ST PID ST PID ST PID ST [{ PRT ST }] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] ST }] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [ ST [ ST [ ST [ ST [ ST [ ST PV1 ST [{ PRT ST }] ] ST CSR ST [{ CSP ST }] [{ 

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OBR ST OBR ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }]
}] [{ ST [{ ST [{ ST TQ1 ST TQ1 ST TQ1 ST TQ1 ST [{ TQ2 ST }] [{
TQ2 ST }] [{ TQ2 ST }] [{ TQ2 ST }] }] ST }] ST }] ST }] ST OBX ST OBX
ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] }
ST } ST } ST } ST { ST { ST { ST [ ST [ ST [ ST ORC ST ORC
ST ORC ST ORC ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }]
ST ] ST ] ST \{ ST \{ ST \{ ST \{ ST RXA ST RXA ST RXA ST RXA ST RXR
ST RXR ST RXR ST RXR ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }]
} ST EOM;
   /* DBU - Update Donor Record Message */
DBC_041 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [ ST PID ST
[ PD1 ST ] [{ PRT ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ NTE ST }]
[{ ARV ST }] [{ AL1 ST }] ] ST EOM;
   /* Donor Eligiblity Message */
DBC_042 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [ ST PID ST
[ PD1 ST ] [{ PRT ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ NTE ST }]
[{ AL1 ST }] [{ ARV ST }] ] ST EOM;
   /* Donor Eligibility Observations Message */
DEL_O46 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [ ST PID ST
[ PD1 ST ] [{ PRT ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ NTE ST }]
[{ AL1 ST }] [{ ARV ST }] [ ST PV1 ST [{ PRT ST }] [{ NTE ST }] ] ST ]
ST DON ST [{ NTE ST }] EOM;
   /* Donor Registration - Minimal Message */
DEO_045 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [ ST PID ST
[{ PRT ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ ARV ST }] [{ NTE ST }]
[ ST PV1 ST [{ PRT ST }] [{ NTE ST }] ] ST ] ST { ST OBR ST [{ PRT ST
}] [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] }] ST } ST
EOM;
   /* DFT/ACK - Post detail financial transaction */
DER_044 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [ ST PID ST
[ PD1 ST ] [{ PRT ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ NTE ST }]
[{ AL1 ST }] [{ ARV ST }] [ ST PV1 ST [{ PRT ST }] [{ NTE ST }] ] ST ]
ST { ST OBR ST [{ PRT ST }] [{ NTE ST }] } ST EOM;
   /* DFT/ACK - Post Detail Financial Transactions - New */
DFT_P03 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EVN ST PID ST [ PD1 ST ]
[{ PRT ST }] [{ ROL ST }] [ ST [ PV1 ST ] [ PV2 ST ] [{ PRT ST }] [{
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TQ2 ST }] }] ST [ ST OBR ST [{ PRT ST }] [{ NTE ST }] ] ST [{ ST OBX
ST [{ PRT ST }] [{ NTE ST }] ST }] ST { ST FT1 ST [{ PRT ST }] [{
ROL ST }] [{ NTE ST }] [{ ST PR1 ST [{ PRT ST }] [{ ROL ST }] }] ST [{
ST ORC ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST OBR ST [{
PRT ST }] [{ NTE ST }] ] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] }]
ST } ST } ST [{ ST DG1 ST }] ST [ DRG ST ] [{ GT1 ST }] [{ ST IN1 ST
[ IN2 ST ] [{ IN3 ST }] [{ PRT ST }] [{ ROL ST }] }] ST [ ACC ST ]
EOM;
   /* Donation Procedure Message */
DFT_P11 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EVN ST PID ST [{ PRT ST
}] [ PD1 ST ] [{ PRT ST }] [{ ROL ST }] [ ST [ PV1 ST ] [ PV2 ST ] [{
PRT ST }] [{ ROL ST }] ] ST [{ DB1 ST }] [{ ST ORC ST [{ PRT ST }] [{
ST TQ1 ST [{ TQ2 ST }] }] ST [ ST OBR ST [{ PRT ST }] [{ NTE ST }] ]
ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] }] ST ]] ST [{ ST DG1 ST }]
ST [ DRG ST ] [{ GT1 ST }] [{ ST IN1 ST [ IN2 ST ] [{ IN3 ST }] [{ PRT
ST }] [{ ROL ST }] }] ST [ ACC ST ] { ST FT1 ST [{ NTE ST }] [{ PRT ST
}] [{ ST PR1 ST [{ PRT ST }] [{ ROL ST }] }] ST [{ ST ORC ST [{ PRT ST
}] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST OBR ST [{ PRT ST }] [{ NTE ST
) | ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] }] ST }] ST [{ ST DG1
ST }] ST [ DRG ST ] [{ GT1 ST }] [{ ST IN1 ST [ IN2 ST ] [{ IN3 ST }]
[{ PRT ST }] [{ ROL ST }] }] ST } ST EOM;
    /* Donor Request to Collect Message */
DPR_048 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [ ST PID ST
[ PD1 ST ] [{ PRT ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ NTE ST }]
[{ AL1 ST }] [{ ARV ST }] [ ST PV1 ST [{ PRT ST }] [{ NTE ST }] ] ST ]
ST { ST OBR ST [{ PRT ST }] [{ NTE ST }] } ST [ ST DON ST [{ ST OBX ST
[{ PRT ST }] }] ST [{ NTE ST }] [ ST [{ BUI ST }] [{ NTE ST }] ] ST ]
ST EOM;
    /* General Order Message with Document Payload Acknowledgement
Message */
DRC_047 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [ ST PID ST
[ PD1 ST ] [{ PRT ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ NTE ST }]
[{ AL1 ST }] [{ ARV ST }] [ ST PV1 ST [{ PRT ST }] [{ NTE ST }] ] ST ]
ST { ST OBR ST [{ PRT ST }] [{ NTE ST }] } ST EOM;
    /* EAC/ACK - Automated equipment command */
DRG_O43 := SOM MSH ST [{ SFT ST }] [ UAC ST ] [ ST PID ST [ PD1 ST ]
[{ PRT ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ NTE ST }] [{ AL1 ST }]
[{ ARV ST }] [ ST PV1 ST [{ PRT ST }] [{ NTE ST }] ] ST ] ST EOM;
    /* EAN/ACK - Automated equipment notification */
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EAC_U07 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EQU ST { ST ECD ST [ TQ1
ST ] [{ ST SAC ST [{ ST [{ OBR ST }] [{ PRT ST }] }] ST [{ SPM ST }]
[{ DST ST }] }] ST [ CNS ST ] } ST [ ROL ST ] EOM;
    /* EAR/ACK - Automated equipment response */
EAN U09 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EQU ST { ST NDS ST [ NTE
ST ] } ST [ ROL ST ] EOM;
    /* Submit HealthCare Services Invoice */
EAR_U08 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EQU ST { ST ECD ST [ ST
SAC ST [{ SPM ST }] ] ST ECR ST } ST [ ROL ST ] EOM;
    /* Cancel HealthCare Services Invoice */
EHC_E01 := SOM MSH ST [{ SFT ST }] [{ UAC ST }] < ST IVC ST [ PYE ST ]</pre>
[{ CTD ST }] [ AUT ST ] [{ LOC ST }] [{ PRT ST }] [{ ROL ST }] { ST
PSS ST { ST PSG ST [{ LOC ST }] [{ PRT ST }] [{ ROL ST }] [{ ST PID ST
[{ PRT ST }] [ PV1 ST ] [ PV2 ST ] [{ ACC ST }] { ST IN1 ST [ IN2 ST ]
ST [{ ST DG1 ST [{ NTE ST }] }] ST [{ OBX ST }] [{ PRT ST }] }] ST {
ST PSL ST [{ NTE ST }] [{ ADJ ST }] [ AUT ST ] [{ LOC ST }] [{ PRT ST
}] [{ ROL ST }] } ST [{ ST PR1 ST [{ NTE ST }] [{ PRT ST }] [{ ROL ST
}] }] ST [{ IPR ST }] } ST > ST = EOM;
   /* Re-Assess HealthCare Services Invoice Request */
EHC_E02 := SOM MSH ST [{ SFT ST }] [{ UAC ST }] < ST IVC ST PYE ST [{
CTD ST }] [{ NTE ST }] [{ ST PSS ST [{ ST PSG ST [{ PSL ST }] }] ST }]
ST > ST EOM;
   /* Edit/Adjudication Results */
EHC_E04 := SOM MSH ST [{ SFT ST }] [{ UAC ST }] < ST IVC ST [{ NTE ST
}] [{ ST PSS ST [{ ST PSG ST [{ PSL ST }] }] ST > ST EOM;
    /* Request Additional Information */
EHC_E10 := SOM MSH ST [{ SFT ST }] [{ UAC ST }] MSA ST [{ ERR ST }] {
ST IPR ST [{ NTE ST }] PYE ST IN1 ST [ IN2 ST ] IVC ST { ST PSS ST {
ST PSG ST { ST PSL ST [{ ADJ ST }] } ST } ST } ST } ST EOM;
   /* Additional Information Response */
EHC_E12 := SOM MSH ST [{ SFT ST }] [{ UAC ST }] RFI ST [{ CTD ST }]
IVC ST PSS ST PSG ST [ PID ST ] [{ PRT ST }] [{ PSL ST }] { ST [ CTD
ST ] OBR ST [{ PRT ST }] [ NTE ST ] [{ OBX ST }] [{ PRT ST }] } ST
EOM;
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```
/* Payment/Remittance Advice */
EHC_E13 := SOM MSH ST [{ SFT ST }] [{ UAC ST }] MSA ST [{ ERR ST }]
RFI ST [{ CTD ST }] IVC ST PSS ST PSG ST [ PID ST ] [{ PRT ST }] [ PSL
ST ] { ST [ CTD ST ] OBR ST [{ PRT ST }] [ NTE ST ] { ST OBX ST [{ PRT
ST }] [ NTE ST ] [ TXA ST ] } ST } ST EOM;
   /* Submit Authorization Request */
EHC_E15 := SOM MSH ST [{ SFT ST }] [{ UAC ST }] < ST PMT ST PYE ST >
ST [{ ST IPR ST IVC ST { ST PSS ST { ST PSG ST { ST PSL ST [{ ADJ ST
/* Cancel Authorization Request */
EHC_E20 := SOM MSH ST [{ SFT ST }] [{ UAC ST }] < ST IVC ST { CTD ST }</pre>
[{ LOC ST }] [{ ROL ST }] { ST PID ST [{ PRT ST }] [{ ACC ST }] { ST
IN1 ST [ IN2 ST ] } ST [ ST { ST DG1 ST [{ NTE ST }] } ST ] ST [{ OBX
ST }] [{ PRT ST }] } ST { ST PSL ST [{ NTE ST }] [{ ADJ ST }] [{ LOC
ST }] [{ PRT ST }] [{ ROL ST }] } ST > ST EOM;
   /* Authorization Response */
EHC_E21 := SOM MSH ST [{ SFT ST }] [{ UAC ST }] < ST IVC ST { ST PSL
ST [{ NTE ST }] [ AUT ST ] } ST > ST EOM;
   /* ESR/ACK - Automated equipment status request */
EHC_E24 := SOM MSH ST [{ SFT ST }] [{ UAC ST }] MSA ST [{ ERR ST }] <
ST IVC ST { ST PSL ST [ AUT ST ] [{ ADJ ST }] } ST > ST EOM;
   /* ESU/ACK - Automated equipment status update */
ESR_U02 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EQU ST [ ROL ST ] EOM;
    /* INR/ACK - Automated equipment inventory request */
ESU_U01 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EQU ST [{ ISD ST }] [
ROL ST ] EOM;
INR_U06 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EQU ST { INV ST } [ ROL
ST ] EOM;
    /* INU/ACK - Automated equipment inventory update */
INR_U14 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EQU ST [{ INV ST }]
EOM;
    /* LSU/ACK - Automated equipment log/service update */
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/* MDM/ACK - Document edit notification */
LSU_U12 := SOM MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [
UAC ST ] EQU ST EQU ST { EQP ST } { EQP ST } [ ROL ST ] [ ROL ST ]
EOM;
```

/\* MDM/ACK - Document edit notification and content \*/ MDM\_T01 := SOM MSH ST MSH ST MSH ST MSH ST MSH ST [{ SFT ST }] [ ST ] [ UAC ST ] EVN ST EVN ST EVN ST EVN ST EVN ST EVN ST PID ST PID ST PID ST PID ST PID ST PID ST [{ PRT ST }] PV1 ST PV1 ST PV1 ST PV1 ST PV1 ST PV1 ST [{ PRT ST }] [{ ST [{ ST [{ ST [{ ST [{ ST ORC ST ORC ST ORC ST ORC ST ORC ST [{ PRT ST }] [{ ST [{ ST [{ ST [{ ST TQ1 ST [{ TQ2 ST }] [{ TQ2 ST }] [{ TQ2 ST }] OBR ST OBR ST OBR ST OBR ST [{ PRT ST }] [{ NTE ST }] ST }] ST }] ST }] ST }] ST }] ST TXA ST TXA ST TXA ST TXA ST TXA ST [{ CON ST }] [{ CON ST }]

/\* MFN/MFK - Master file - staff practitioner \*/ MDM\_T02 := SOM MSH ST MSH ST MSH ST MSH ST [{ SFT ST }] [ UAC ST ] [ UAC ST ] UAC ST ] [ UAC ST ] [ UAC ST ] EVN ST EVN ST EVN ST EVN ST PID ST PID ST PID ST PID ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] PV1 ST PV1 ST PV1 ST PV1 ST [{ PRT ST }] [{ ST [{ ST [{ ST [{ ST [{ ST ORC ST ORC ST ORC ST ORC ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ ST [{ ST [{ ST [{ ST [{ ST TQ1 ST TQ1 ST TQ1 ST TQ1 ST TQ1 ST [{ TQ2 ST }] }] ST }] ST }] ST }] ST }] ST }] ST OBR ST OBR ST OBR ST [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] }] ST }] ST }] ST }] ST }] ST TXA ST TXA ST TXA ST TXA ST [{ CON ST }] [{ CON ST }] [{ CON ST }] [{ CON ST }] { ST { ST { ST GBX ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] } ST } ST } ST } ST EOM;

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/* MFN/MFK - Master files charge description */
MFN_M02 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST STF
ST [{ PRA ST }] [{ ORG ST }] [{ AFF ST }] [{ LAN ST }] [{ EDU ST }] [{
CER ST }] [{ NTE ST }] } ST EOM;
    /* MFN/MFK - Patient location master file */
MFN_M04 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST [{ NTE ST }] { ST
MFE ST [{ NTE ST }] CDM ST [{ NTE ST }] [{ PRC ST }] } ST EOM;
    /* MFN/MFK - Clinical study with phases and schedules master file
* /
MFN_M05 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST LOC
ST [{ LCH ST }] [{ LRL ST }] { ST LDP ST [{ LCH ST }] [{ LCC ST }] }
ST } ST EOM;
    /* MFN/MFK - Clinical study without phases but with schedules
master file */
MFN_M06 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST CM0
ST [{ ST CM1 ST [{ CM2 ST }] }] ST } ST EOM;
    /* MFN/MFK - Test/observation (numeric) master file */
MFN_M07 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST CM0
ST [{ CM2 ST }] } ST EOM;
    /* MFN/MFK - Test/observation (categorical) master file */
MFN_M08 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST OM1
ST [{ OMC ST }] [{ PRT ST }] [ OM2 ST ] [ OM3 ST ] [{ OM4 ST }] } ST
EOM;
    /* MFN/MFK - Test /observation batteries master file */
MFN_M09 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST OM1
ST [{ OMC ST }] [{ PRT ST }] [ ST OM3 ST [{ OM4 ST }] ] ST } ST EOM;
    /* MFN/MFK - Test/calculated observations master file */
MFN_M10 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST OM1
ST [{ OMC ST }] [{ PRT ST }] [ ST OM5 ST [{ OM4 ST }] ] ST } ST EOM;
    /* MFN/MFK - Master file notification message */
MFN_M11 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST OM1
ST [{ OMC ST }] [{ PRT ST }] [ ST OM6 ST OM2 ST ] ST } ST EOM;
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/* MFN/MFK - Master file notification - general */
MFN M12 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST OM1
ST [{ PRT ST }] [ ST OM7 ST [{ PRT ST }] ] ST } ST EOM;
   /* MFN/MFK - Inventory item master file notification */
MFN M13 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { MFE ST } EOM;
   /* MFN/MFK - Master File Notification Inventory Item Enhanced */
MFN_M15 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST IIM
ST } ST EOM;
   /* DRG Master File Message */
MFN_M16 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST ITM
ST [{ NTE ST }] [{ ST STZ ST [{ NTE ST }] }] ST [{ ST VND ST [{ ST PKG
ST [{ PCE ST }] }] ST }] ST [{ ST IVT ST [{ ILT ST }] [{ NTE ST }] }]
ST } ST EOM;
   /* MFN/MFK - Master file notification - Test/Observation (Payer)
MFN_M17 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST DMI
ST } ST EOM;
   /* */
MFN_M18 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST { ST
PM1 ST { ST MCP ST [{ DPS ST }] } ST } ST } ST EOM;
   /* MFN/MFK - Master file notification - site defined */
MFN_M19 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST CTR
ST [{ NTE ST }] { ST ITM ST { ST VND ST [{ ST PKG ST }] ST } ST } ST }
ST EOM;
   /* NMD/ACK - Application management data message (unsolicited) */
MFN_Znn := SOM MSH ST [{ SFT ST }] [ UAC ST ] MFI ST { ST MFE ST Hxx
ST } ST EOM;
   /* OMB - Blood product order */
NMD_N02 := SOM MSH ST [{ SFT ST }] [ UAC ST ] { ST [ ST NCK ST [{ NTE
} ST EOM;
   /* OMD - Diet order */
```

OMB\_O27 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }] [ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ ARV ST }] [{ NTE ST }] [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ] }] ST [ GT1 ST ] [{ AL1 ST }] ] ST { ST ORC ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST BPO ST [ SPM ST ] [{ NTE ST }] [{ DG1 ST }] [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ] ST [{ ST OBX ST [{ PRT ST }] ] }] ST [{ ST OBX ST [{ PRT ST }] ] }]

/\* OMG - General clinical order \*/
OMD\_O03 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }] [ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ ARV ST }] [{ NTE ST }] [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ] }] ST [ GT1 ST ] [{ AL1 ST }] ] ST { ST ORC ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST { ODS ST } [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] [{ ST TQ1 ST }] ] ST [{ TQ2 ST }] }] ST { ODT ST } [{ NTE ST }] ST EOM;

/\* OMI - Imaging order \*/ OMG\_019 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }] [ ST PID ST [ PD1 ST ] [{ PRT ST }] [ ST [{ OH1 ST }] [{ OH2 ST }] [ OH3 ST ] [{ OH4 ST }] ] ST [{ NTE ST }] [{ ST NK1 ST [{ OH2 ST }] [ OH3 ST ] }] ST [{ ARV ST }] [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ] }] ST [ GT1 ST ] [{ AL1 ST }] ST { ST ORC ST [{ NTE ST }] [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST OBR ST [{ NTE ST }] [{ PRT ST }] [ CTD ST ] [{ DG1 ST }] [ REL ST ] [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] }] ST [{ ST SPM ST [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ ST SAC ST [{ NTE ST }] [{ ST OBX ST [{ ARV ST }] [{ PRT ST }] ] ST [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ AL1 ST }] { ST ORC ST [{ PRT ST }] OBR ST [{ ST TQ1 ST [{ TQ2 ST }] }] ST [{ NTE ST }] [{ ST PRT ST [{ DEV ST }] }] ST [ CTD ST ] { ST OBX ST [{ PRT ST }] [{ NTE ST }] } ST } ST } ST [ SGT ST ] [{ FT1 ST }] [{ CTI ST }] [ BLG ST ] } ST [{ ST DEV ST [{ OBX ST }] }] ST EOM;

/\* OML - Laboratory order \*/
OMI\_O23 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }] [ ST PID ST [ PD1 ST ] [{ PRT ST }] [ ST [{ OH1 ST }] [{ OH2 ST }] [ OH3 ST ] [{ OH4 ST }] ] ST [{ ARV ST }] [{ NTE ST }] [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ] }] ST [ GT1 ST ] [{ AL1 ST }] ] ST { ST ORC ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST OBR ST [{ NTE ST }] [{ PRT ST }] [ CTD ST ] [{ DG1 ST }] [ REL ST ] [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] }] ST { IPC ST } } ST [{ ST DEV ST [{ OBX ST }] }] ST EOM;

/\* OML - Laboratory order for multiple orders related to a single specimen \*/ OML\_O21 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }] [ ST PID ST [ PD1 ST ] [{ PRT ST }] [ ST [{ OH1 ST }] [{ OH2 ST }] [ OH3 ST ] [{ OH4 ST }] ] ST [{ NTE ST }] [{ ST NK1 ST [{ OH2 ST }] [ OH3 ST ] }] ST [{ ARV ST }] [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ] }] ST [ GT1 ST ] [{ AL1 ST }] ] ST { ST ORC ST [{ NTE ST }] [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST OBR ST [ TCD ST ] [{ NTE ST }] [{ PRT ST }] [ CTD ST ] [{ DG1 ST }] [ REL ST ] [{ ST OBX ST [{ PRT ST }] [ TCD ST ] [{ NTE ST }] }] ST [{ ST SPM ST [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ ST SAC ST [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] }] ST }] ST }] ST [ IPC ST ] [ SGH ST ] [{ ST [ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ ARV ST }] ] ST [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ AL1 ST }] { ST ORC ST [{ PRT ST }] OBR ST [{ NTE ST }] [{ ST PRT ST [{ DEV ST }] }] ST [{ ST TQ1 ST [{ TQ2 ST }] }] ST { ST OBX ST [{ PRT ST }] [{ NTE ST }] } ST } ST } ST [ SGT ST ] ] ST [{ FT1 ST }] [{ CTI ST }] [ BLG ST ] } ST [{ ST DEV ST [{ OBX ST }] }] ST EOM;

/\* OML - Laboratory order for multiple orders related to a single container of a sp \*/ OML\_O33 := SOM MSH ST MSH ST MSH ST [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] UAC ST ] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [ ST [ ST PID ST PID ST PID ST [ PD1 ST ] [ PD1 ST ] [ PD1 ST ] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [ ST [ ST [ ST [{ OH1 ST }] [{ OH1 ST }] [{ OH2 ST }] [{ OH2 ST }] [{ OH2 ST }] [ OH3 ST ] [ OH3 ST ] [{ OH4 ST }] [{ OH4 ST }] [{ OH4 ST }] ] ST ] ST [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ ST [{ ST NK1 ST NK1 ST NK1 ST [{ OH2 ST }] [{ OH2 ST }] [{ OH2 ST }] [ OH3 ST ] [ OH3 ST ] }] ST }] ST [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [ ST [ ST [ ST PV1 ST PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] [ PRT ST }] [{ PRT ST }] [{ PRT ST }] ] ST ] ST [{ ST [{ ST [{ ST IN1 ST IN1 ST IN1 ST [ IN2 ST ] [ IN2 ST ] [ IN3 ST ] [ IN3 ST ] [ IN3 ST ] }] ST }] ST ]] ST [ GT1 ST ] [ GT1 ST ] [ AL1 ST }] [{ AL1 ST }] [{ AL1 ST }] ] ST ] ST ] ST { ST { ST SPM ST SPM ST SPM ST [{ NTE ST }] [{ NTE ST }] [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST }] ST }] ST [{ ST [{ ST SAC ST SAC ST SAC ST [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] ST }] ST }] ST { ST { ST { ST ORC ST ORC ST [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ PRT ST }] [{ PRT ST }] [{ ST [{ ST [{ ST TQ1 ST TQ1 ST TQ1 ST [{ TQ2 ST }] [{ TQ2 ST }] [{ TQ2 ST }] ST }] ST }] ST [ ST [ ST [ ST OBR ST OBR ST TCD ST ] [ TCD ST ] [ TCD ST ] [{ NTE ST }] [{ NTE ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ DG1 ST }] [{ DG1 ST }] [{ DG1 ST }] [ REL ST ] [ REL ST ] [ REL ST ] [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [ TCD ST ] [ TCD ST ] [

TCD ST ] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] ST }] ST }] ST [ IPC ST ] [ IPC ST ] [ IPC ST ] [ SGH ST ] [ SGH ST ] [ SGH ST ] [ ST [{ ST [{ ST [ ST [ ST PID ST PID ST PID ST [ PD1 ST ] [ PD1 ST ] [ PD1 ST ] [{ PRT ST }] [{ PRT ST }] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] ] ST ] ST ] ST [ ST [ ST PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] [ PRT ST }] [{ PRT ST }] [{ PRT ST }] }] ] ST ] ST [ { AL1 ST }] [ { AL1 ST }] [ { AL1 ST }] { ST { ST { ST ORC ST ORC ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] OBR ST OBR ST OBR ST [{ NTE ST }] [{ NTE ST }] [{ ST [{ ST [{ ST PRT ST PRT ST [{ DEV ST }] [{ DEV ST }] [{ DEV ST }] ST }] ST }] ST [{ ST [{ ST TQ1 ST TQ1 ST TQ1 ST [{ TQ2 ST }] [{ TQ2 ST }] [{ TQ2 ST }] }] ST }] ST }] ST { ST { ST ( ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ SGT ST ] [ SGT ST ] ] ST ] ST ] ST [{ FT1 ST }] [{ FT1 ST }] [{ FT1 ST }] [{ CTI ST }] [{ CTI ST }] [{ CTI ST }] [ BLG ST ] [ BLG ST ] ST ] ST } ST } ST } ST } ST } ST ] ST [{ ST [{ ST [{ ST DEV ST DE ST [{ OBX ST }] [{ OBX ST }] [{ OBX ST }] ST }] ST }] ST EOM;

/\* Specimen shipment centric laboratory order \*/  $OML_O35 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }]$ }] [ ST PID ST [ PD1 ST ] [{ PRT ST }] [ ST [{ OH1 ST }] [{ OH2 ST }] [ OH3 ST ] [{ OH4 ST }] ] ST [{ NTE ST }] [{ ST NK1 ST [{ OH2 ST }] [ OH3 ST ] }] ST [{ ARV ST }] [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ] }] ST [ GT1 ST ] [{ AL1 ST }] ] ST { ST SPM ST [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] }] ST { ST SAC ST [{ NTE ST }] { ST ORC ST [{ NTE ST }] [{ PRT ST }] [{ ST TQ1 ST [{ TQ2} ST }] }] ST [ ST OBR ST [ TCD ST ] [{ NTE ST }] [{ PRT ST }] [{ DG1 ST }] [ REL ST ] [{ ST OBX ST [{ PRT ST }] [ TCD ST ] [{ NTE ST }] }] ST [ IPC ST ] [ SGH ST ] [{ ST [ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ ARV ORC ST [{ PRT ST }] OBR ST [{ NTE ST }] [{ ST PRT ST [{ DEV ST }] }] ST [{ ST TQ1 ST [{ TQ2 ST }] }] ST { ST OBX ST [{ PRT ST }] [{ NTE ST 

/\* \*/
OML\_O39 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }] [ ST PID ST [ PD1 ST ] [{ PRT ST }] [ ST [{ OH1 ST }] [{ OH2 ST }] [ OH3 ST ] [{ OH4 ST }] ] ST [{ NTE ST }] [{ ST NK1 ST [{ OH2 ST }] [ OH3 ST ] }] ST [{ ARV ST }] [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ] }] ST [ GT1 ST ] [{ AL1 ST }] ] ST [ ST ORC ST [{ NTE ST }] [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST OBR ST [ TCD ST ] [{ NTE ST }] [ PRT ST }] [ TCD ST ] [{ DG1 ST }] [ ST SHP ST [{ ST OBX ST [{ PRT ST }] }] ST [{ ST PAC ST [{ ST SPM ST [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ ST SAC ST [{ NTE ST }] }]

/\* OMN - Non-stock requisition order \*/
OML\_O59 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }] [ST PID ST [PD1 ST ] [{ PRT ST }] [{ NTE ST }] [{ NK1 ST }] [ST PV1 ST [PV2 ST ] [{ PRT ST }] ] ST [{ ST IN1 ST [IN2 ST ] [IN3 ST ]} ] ST [GT1 ST ] [{ AL1 ST }] ] ST [ST ORC ST [{ NTE ST }] [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ST OBR ST [TCD ST ] [{ NTE ST }] [{ PRT ST }] [TCD ST ] [{ NTE ST }] ] ST [ST SPM ST [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ ST SAC ST [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] }] ST ]] ST ]] ST ]] ST [IPC ST ] [SGH ST ] [{ ST [ST PID ST [PD1 ST ]] [{ PRT ST }] ]] ST [ST PV1 ST [PV2 ST ] [{ PRT ST }] ]] ST [{ AL1 ST }] ] ST [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ST OBX ST [{ PRT ST }] [{ ST PRT ST }] [{ NTE ST }] ]] ST [{ ST TQ1 ST [{ TQ2 ST }] }] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ]] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ]] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ]] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ]] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ]] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ]] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ]] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ]] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ]] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ]] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ]] ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST [{ PRT ST }] ]] ST [{ ST OBX ST OBX ST [{ ST OBX ST OBX ST OBX ST OBX ST [{ ST OBX ST OBX ST O

/\* OMP - Pharmacy/treatment order \*/
OMN\_O07 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }] [ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ ARV ST }] [{ NTE ST }] [ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ]}] ST [ GT1 ST ] [{ AL1 ST }] ] ST { ST ORC ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST RQD ST [ RQ1 ST ] [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ] ST [ BLG ST ] } ST EOM;

/\* \*/
OMP\_O09 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }] [ ST PID ST [ ST PD1 ST [{ PRT ST }] ] ST [{ NTE ST }] [{ ARV ST }] [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] [{ ARV ST }] ] ST [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ] }] ST [ GT1 ST ] [{ AL1 ST }] ] ST { ST ORC ST [{ ST TQ1 ST [{ TQ2 ST }] }] ST RXO ST [{ PRT ST }] [{ NTE ST }] { RXR ST } [ { ST RXC ST [{ NTE ST }] }] ST [{ CDO ST }] [{ ST OBX ST [{ PRT ST }] ] [ NTE ST }] ] ST [{ ST OBX ST [{ PRT ST }] ] [ NTE ST }] ] ST [{ NTE ST }] ] ST [{ ST OBX ST [{ PRT ST }] ] [ NTE ST }] ] ST [{ NTE ST }] ] ST [{ ST OBX ST [{ PRT ST }] ] [ NTE ST ]] ] ST [{ ST OBX ST [{ PRT ST }] ] [ NTE ST ]] [ NTE ST ]] [ NTE ST ]] [ NTE ST ]] ST [ NTE ST ]] [ NTE ST ]] ST [ NTE ST ]] [ NTE ST ]]

/\* OMS - Stock requisition order \*/
OMQ\_O57 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }] [ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ NTE ST }] [{ NK1 ST }] [{ ARV ST }] [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ] }] ST [ GT1 ST ] [{ AL1 ST }] ] ST { ST ORC ST [{ PRT ST }] OBX ST [{ PRT ST }] TXA ST [ CTD ST ] [{ DG1 ST }] [{ ST OBX ST [{ PRT ST }] [{ ARV ST }] ] ST [{ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ AL1 ST }] ] ST [{ ST ORC ST [{ PRT ST }] ] ST [{ ST TQ1 ST [{ TQ2 ST }] }] ] ST

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[{ NTE ST }] [{ ST PRT ST [{ DEV ST }] }] ST [ CTD ST ] { ST OBX ST [{ PRT ST }] [{ NTE ST }] } ST } ST }] ST [{ FT1 ST }] [{ CTI ST }] [ BLG ST ] } ST EOM;
```

/\* OPL - Population/Location-Based Laboratory Order Message \*/
OMS\_O05 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }] [ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ ARV ST }] [{ NTE ST }] [ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ]}] ST [ GT1 ST ] [{ AL1 ST }] ] ST { ST ORC ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST RQD ST [ RQ1 ST ] [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] ] ST EOM;

/\* OPR - Population/Location-Based Laboratory Order Acknowledgment
Message \*/
OPL\_O37 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }] { PRT ST } [ ST GT1 ST [{ NTE ST }] ] ST { ST { NK1 ST } [ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ ARV ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ] }] ST [{ AL1 ST }] ] ST { ST SPM ST [{ ST OBX ST [{ PRT ST }] }] ST [{ ST OBX ST [{ PRT ST

/\* OPU - Unsolicited Population/Location-Based Laboratory
Observation Message \*/
OPR\_O38 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST { ST { NK1 ST } [ ST PID ST [{ PRT ST }] [{
ARV ST }] ] ST [{ ST SPM ST [{ ST OBX ST [{ PRT ST }] }] ST [{ SAC ST
}] [{ ST ORC ST [{ PRT ST }] OBR ST [{ PRT ST }] }] ST [{ ST TQ1 ST [{
TQ2 ST }] }] ST }] ST } ST ] ST EOM;

```
/* Observation Report Alert Acknowledgement */
ORA_R33 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MSA ST [{ ERR ST }] [ ST
ORC ST [{ PRT ST }] ] ST EOM;
   /* ORB - Blood product order acknowledgment */
ORA_R41 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MSA ST [{ ERR ST }] [{
PRT ST }] EOM;
   /* ORD - Diet order acknowledgment */
ORB_028 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ PRT ST }] [{ ARV ST }] [{ ST
ORC ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ BPO ST ] }] ST ]
ST ] ST EOM;
   /* ORG/ORL - General clinical order response */
ORD_004 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ PRT ST }] [{ ARV ST }] [{
ST [{ ODS ST }] [{ NTE ST }] } ST [{ ST ORC ST [{ PRT ST }] [{ ST TQ1
ST [{ TQ2 ST }] }] ST [{ ODT ST }] [{ NTE ST }] }] ST ] ST EOM;
   /* ORI - Imaging order response message to any OMI */
ORG_O20 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ NTE ST }] [{ PRT ST }] [{
ARV ST }] ] ST { ST ORC ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }]
ST [ ST OBR ST [{ PRT ST }] [{ NTE ST }] ] ST [{ CTI ST }] [{ ST SPM
ST [{ SAC ST }] }] ST } ST ] ST EOM;
   /* ORL - General laboratory order response message to any OML */
ORI_024 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ ARV ST }] [{ NTE ST }] [{
ST OBR ST [{ NTE ST }] [{ PRT ST }] { IPC ST } } ST ] ST EOM;
   /* ORL - Laboratory order response message to a multiple order
related to single sp */
ORL_022 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST PID ST [{ PRT ST }] [{ ARV ST }] [{ ST ORC
ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST OBR ST [{ PRT ST
}] [{ ST SPM ST [{ SAC ST }] }] ST ] ST ] ST ] ST EOM;
```

```
/* ORL - Laboratory order response message to a single container
of a specimen OML */
ORL_O34 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST PID ST [{ PRT ST }] [{ ARV ST }] { ST SPM
ST [{ ST OBX ST [{ PRT ST }] }] ST [{ SAC ST }] [{ ST ORC ST [{ PRT ST
}] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST OBR ST [{ PRT ST }] ] ST }] ST
} ST ] ST EOM;
    /* Specimen Shipment Centric Laboratory Order Acknowledgment
ORL_036 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST PID ST [{ PRT ST }] [{ ARV ST }] { ST SPM
ST [{ ST OBX ST [{ PRT ST }] }] ST [{ NTE ST }] { ST SAC ST [{ ST ORC
ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST OBR ST [{ PRT ST
}] ] ST }] ST } ST } ST ] ST EOM;
ORL_040 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ PRT ST }] [{ ARV ST }] [{ ST
ORC ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST OBR ST [{ PRT
ST }] [{ ST SHP ST { ST PAC ST [{ ST SPM ST [{ ST SAC ST }] ST }] ST }
ST }] ST ] ST ] ST ] ST EOM;
   /* */
ORL_053 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ PRT ST }] ] ST [{ ST ORC ST
[{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST OBR ST [{ PRT ST }]
[{ ST SPM ST [{ SAC ST }] }] ST ] ST ] ST ] ST EOM;
ORL_054 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ PRT ST }] ] ST { ST SPM ST
[{ ST OBX ST [{ PRT ST }] }] ST [{ SAC ST }] [{ ST ORC ST [{ PRT ST }]
[{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST OBR ST [{ PRT ST }] ] ST }] ST }
ST ] ST EOM;
ORL_055 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ PRT ST }] ] ST { ST SPM ST
[{ ST OBX ST [{ PRT ST }] }] ST [{ NTE ST }] { ST SAC ST [{ ST ORC ST
[{ PRT ST }] [{ ST TO1 ST [{ TO2 ST }] }] ST [ ST OBR ST [{ PRT ST }]
] ST } ST } ST ] ST EOM;
    /* ORN - Non-stock requisition acknowledgment */
```

```
ORL_056 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ PRT ST }] ] ST [{ ST ORC ST
[{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST OBR ST [{ PRT ST }]
[{ ST SHP ST { ST PAC ST [{ ST SPM ST [{ ST SAC ST }] ST }] ST }] ST }]
ST ] ST }] ST ] ST EOM;
   /* ORP - Pharmacy/treatment order acknowledgment */
ORN_O08 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ PRT ST }] [{ ARV ST }] [{
ST RQD ST [ RQ1 ST ] [{ NTE ST }] } ST ] ST EOM;
   /* ORS - Stock requisition acknowledgment */
ORP_010 := SOM MSH ST MSA ST [{ ERR ST }] [{ SFT ST }] [ UAC ST ] [{
NTE ST }] [ ST [ ST PID ST [{ PRT ST }] [{ NTE ST }] ] ST { ST ORC ST
[{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST RXO ST [{ PRT ST }]
[{ NTE ST }] { RXR ST } [{ ST RXC ST [{ NTE ST }] }] ST ] ST ] ST
EOM;
   /* */
ORS_006 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ PRT ST }] [{ ARV ST }] [{
ST RQD ST [ RQ1 ST ] [{ NTE ST }] } ST ] ST EOM;
   /* ORU - Unsolicited Point-Of-Care Observation Message Without
Existing Order - Pla */
ORU_R01 := SOM MSH ST MSH ST MSH ST [{ ARV ST }] [{ ARV ST }]
[{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{ SFT ST }] [{
SFT ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ] { ST { ST { ST {
ST [ ST [ ST [ ST PID ST PID ST PID ST PID ST [ PD1 ST ] [ PD1 ST
] [ PD1 ST ] [ PD1 ST ] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }]
ST }] [{ OH1 ST }] [{ OH1 ST }] [{ OH1 ST }] [{ OH2 ST }]
[{ OH2 ST }] [{ OH2 ST }] [{ OH2 ST }] [ OH3 ST ] [ OH3 ST ]
] [ OH3 ST ] [{ OH4 ST }] [{ OH4 ST }] [{ OH4 ST }] [{
NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ ST [{ ST [{
ST NK1 ST NK1 ST NK1 ST [{ OH2 ST }] [{ OH2 ST }] [{ OH2 ST }]
[\{ OH2 ST \} ] [ OH3 ST ] [ OH3 ST ] [ OH3 ST ] \} ] ST \} ] ST
}] ST }] ST [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ ST
[{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] }] }]  
}] [{ PRT ST }] [{ PRT ST }] }] ST }] ST }] ST }] ST [ ST [ ST [ ST [
ST PV1 ST PV1 ST PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] [ PV2 ST ] [ PV2
ST ] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ] ST ] ST ]
ST ] ST [{ ST [{ ST [{ ST IN1 ST IN1 ST IN1 ST IN1 ST [ IN2 ST ]
[ IN2 ST ] [ IN2 ST ] [ IN3 ST ] [ IN3 ST ] [ IN3 ST ] [
```

ST [ ST [ ST [ ST ORC ST ORC ST ORC ST [ { PRT ST } ] [ { PRT ST }] [{ PRT ST }] [{ PRT ST }] [ ST [ ST [ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] TXA ST OBR ST OBR ST [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] }] [{ ST [{ ST [{ ST PRT ST PRT ST PRT ST PRT ST [{ DEV ST }] [{ DEV ST }] [{ DEV ST }] [{ DEV ST }] }] ST }] ST }] ST }] ST [{ ST [{ ST [{ ST [{ ST TQ1 ST TQ1 ST TQ1 ST TQ1 ST [{ TQ2 ST }] [{ TQ2 ST }] [{ TQ2 ST }] [{ TQ2 ST }] }] ST }] ST }] ST }] ST [ CTD ST ] [ CTD ST ] [ CTD ST ] [ CTD ST ] [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] }] ST }] ST }] ST }] ST }] FT1 ST }] [{ FT1 ST }] [{ FT1 ST }] [{ CTI ST }] [{ CTI ST }] [{ CTI ST }] [{ CTI ST }] [{ ST [{ ST [{ ST SPM ST SPM ST SPM ST SPM ST [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST }] ST }] ST }] DEV ST DEV ST DEV ST DEV ST [{ OBX ST }] [{ OBX ST }] [{ OBX ST }] [{ ST ] [ DSC ST ] [ DSC ST ] EOM;

ORU\_R30 := SOM MSH ST MSH ST MSH ST [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] UAC ST ] PID ST PID ST PID ST [ PD1 ST ] [ PD1 ST ] [ PD1 ST ] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ OH1 ST }] [{ OH1 ST }] [{ OH2 ST }] [{ OH2 ST }] [{ OH2 ST }] [ OH3 ST ] [ OH3 ST ] ] [{ OH4 ST }] [{ OH4 ST }] [{ OH4 ST }] [{ ARV ST }] [{ ARV ST }] ARV ST }] [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] }] ST }] ST }] ST [ ST [ ST [ ST PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] [ PRT ST }] [{ PRT ST }] [{ PRT ST }] PRT ST }] OBR ST OBR ST OBR ST [{ NTE ST }] [{ NTE ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ ST [{ ST TQ1 ST TQ1 ST TQ1 ST [{ TQ2 ST }] [{ TQ2 ST }] [{ TQ2 ST }] ST }] ST }] ST }] ST { ST { ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] } ST } ST [{ ST [{ ST [{ ST DEV ST DEV ST [{ OBX ST }] [{ OBX ST }] ] [ OBX ST }] ST }] ST }] ST EOM;

/\* OSM - Unsolicited Specimen Shipment Manifest Message \*/
ORX\_O58 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST [ ST PID ST [{ NTE ST }] [{ PRT ST }] [{
ARV ST }] ] ST { ST ORC ST [{ PRT ST }] TXA ST [{ CTI ST }] } ST ] ST EOM;

```
/* */
OSM_R26 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] { ST SHP ST
{ PRT ST } [{ ST OBX ST [{ PRT ST }] }] ST { ST PAC ST [{ PRT ST }] [{
ST SPM ST [{ PRT ST }] [{ ST OBX ST [{ PRT ST }] }] ST [{ ST SAC ST [{
ST OBX ST [{ PRT ST }] }] ST }] ST [ ST PID ST [{ PRT ST }] [{ ARV ST
}] [{ ST OBX ST [{ PRT ST }] }] ST [{ NK1 ST }] ] ST [ ST PV1 ST [{
PRT ST }] [{ ST OBX ST [{ PRT ST }] }] ST [ PID ST ] [{ PRT ST }] [{
NK1 ST }] ST }] ST } ST } ST EOM;
   /* */
OSU_O51 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST
}] [ PID ST ] [{ PRT ST }] [{ ARV ST }] { ST ORC ST [{ PRT ST }] } ST
EOM;
   /* OUL - Unsolicited Specimen Oriented Observation Message */
OSU_O52 := SOM MSH ST MSA ST [{ ARV ST }] [{ ERR ST }] [{ SFT ST }] [
UAC ST ] [{ NTE ST }] [ ST PID ST [{ PRT ST }] ] ST [{ ARV ST }] { ST
ORC ST [{ PRT ST }] } ST EOM;
   /* OUL - Unsolicited Specimen Container Oriented Observation
OUL_R22 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [ NTE ST ]
[ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ ARV ST }] [{ NTE ST }] [{ ST
OBX ST [{ PRT ST }] }] ST [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST ]
ST [{ NK1 ST }] { ST SPM ST [{ ST OBX ST [{ PRT ST }] }] ST [{ ST SAC
ST [ INV ST ] }] ST { ST OBR ST [{ PRT ST }] [ ST ORC ST [{ PRT ST }]
[ ST OBX ST [{ PRT ST }] TXA ST ] ST [{ NTE ST }] [{ PRT ST }] [{
ST TQ1 ST [{ TQ2 ST }] }] ST [{ ST OBX ST [{ PRT ST }] [ TCD ST ] [{
SID ST }] [{ INV ST }] [{ NTE ST }] }] ST [{ CTI ST }] } ST } ST [{ ST
DEV ST [{ OBX ST }] }] ST [ DSC ST ] EOM;
   /* OUL - Unsolicited Order Oriented Observation Message */
OUL_R23 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [ NTE ST ]
[ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ OH1 ST }] [{ OH2 ST }] [ OH3 ST
] [{ OH4 ST }] [{ ARV ST }] [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] }]
ST [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST ] ST [{ NK1 ST }] { ST SPM
ST [{ ST OBX ST [{ PRT ST }] }] ST { ST SAC ST [ INV ST ] { ST OBR ST
[{ PRT ST }] [ ST ORC ST [{ PRT ST }] [ ST OBX ST [{ PRT ST }] TXA ST
] ST ] ST [{ NTE ST }] [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [{
ST OBX ST [{ PRT ST }] [ TCD ST ] [{ SID ST }] [{ INV ST }] [{ NTE ST
DSC ST ] EOM;
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/\* PEX - Unsolicited update individual product experience report

OUL\_R24 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [ NTE ST ]

[ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ OH1 ST }] [{ OH2 ST }] [ OH3 ST ]

] [{ OH4 ST }] [{ ARV ST }] [{ NTE ST }] [{ ST OBX ST [{ PRT ST }] }]

ST [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST ] ST [{ NK1 ST }] { ST OBR ST [{ PRT ST }] TXA ST ] ST ] ST [{ NTE ST }] [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [{ ST SPM ST [{ ST OBX ST [{ PRT ST }] }] ST [{ ST SAC ST [ INV ST ]}] ST }]

ST }] ST [{ ST OBX ST [{ PRT ST }] [ TCD ST ] [{ SID ST }] [{ INV ST }] ]

ST }] [{ NTE ST }] }] ST [{ CTI ST }] [{ ST DEV ST [{ OBX ST }] }] ST ]

ST [ DSC ST ] EOM;

/\* PGL - PC/ goal delete \*/ PEX\_P07 := SOM MSH ST MSH ST [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] EVN ST EVN ST PID ST PID ST [ PD1 ST ] [ PD1 ST ] [{ PRT ST }] [{ ARV ST }] [{ ARV ST }] [{ NTE ST }] [{ NTE ST }] [ ST [ ST PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] [{ PRT ST }] [{ PRT ST }] ] ST ] ST { ST PES ST PES ST { ST PEO ST PEO ST { ST PCR ST PCR ST [ ST RXE ST RXE ST [{ PRT ST }] [{ PRT ST }] { ST { ST TQ1 ST TQ1 ST [{ TQ2 ST }] [{ TQ2 ST }] } ST } ST [ $\{ RXR ST \}$ ] [ $\{ RXR ST \}$ ] ] ST ] ST [ $\{ ST RXA ST RXA ST [ RXR ST ] \}$ ST ] [ RXR ST ] [{ PRT ST }] [{ PRT ST }] ST [{ PRB ST }] [{ PRB ST }] [{ ST [{ ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] }] ST }] ST [{ NTE ST }] [{ NTE ST }] [ ST [ ST NK1 ST NK1 ST [ ST RXE ST RXE ST [{ PRT ST }] [{ PRT ST }] { ST { ST TQ1 ST TQ1 ST [{ TQ2 ST }] [{ TQ2 ST }] } ST } ST [{ RXR ST }] [{ RXR ST }] ] ST ] ST [{ ST [{ ST RXA ST RXA ST [ RXR ST ] [ RXR ST ] [ { PRT ST }] [ { PRT ST }] }] ST }] ST [{ PRB ST }] [{ PRB ST }] [{ ST [{ ST OBX ST OBX ST [{ PRT ST }] [{ 

/\* PMU/ACK - Update personnel record \*/ PGL\_PC6 := SOM MSH ST MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ] PID ST PID ST FID ST { ST { ST { ST PRD ST PRD ST PRD ST [{ CTD ST }] [{ CTD ST }] } ST } ST } ST [ ST [ ST PV1 ST PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] [ PV2 ST ] ST ] ST ] ST { ST { ST GOL ST GOL ST [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ VAR ST }] [{ VAR ST }] [{ ST [{ ST [{ ST ROL ST ROL ST PRT ST PRT ST PRT ST [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] }] ST }] ST }] ST [{ ST [{ ST [{ ST PTH ST PTH ST PTH ST [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] ST }] ST }] ST [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] ST }] ST }] ST [{ ST [{ ST [{ ST PRB ST PRB ST PRB ST [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ VAR ST }] [{ VAR ST }] [{ ST [{ ST [{ ST ROL ST ROL ST ROL ST PRT ST PRT ST [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }]

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ST }] ST }] ST }] ST }] ST }] ST [{ ST [{ ST [{ ST ORC ST ORC
ST [ ST [ ST [ ST < ST < ST < ST OBR ST OBR ST OBR ST | ST | ST | ST
Hxx ST Hxx ST Hxx ST > ST > ST > ST [{ NTE ST }] [{ NTE ST }] [{ NTE
ST }] [{ VAR ST }] [{ VAR ST }] [{ ST [{ ST [{ ST OBX ST
OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{
NTE ST }] [{ NTE ST }] [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] }] ST }]
/* PMU/ACK - Delete personnel re cord */
PMU_B01 := SOM MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [
UAC ST ] EVN ST EVN ST STF ST STF ST [{ PRA ST }] [{ PRA ST }] [{ ORG
ST }] [{ ORG ST }] [{ AFF ST }] [{ AFF ST }] [{ LAN ST }] [{ LAN ST }]
[{ EDU ST }] [{ EDU ST }] [{ CER ST }] [{ CER ST }] [{ NK1 ST }] [{
NK1 ST }] [{ PRT ST }] [{ PRT ST }] [{ ROL ST }] [{ ROL ST }] EOM;
   /* PMU/ACK - Terminate practicing person */
PMU_B03 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EVN ST STF ST EOM;
   /* PMU/ACK - Grant Certificate/Permission */
PMU_B04 := SOM MSH ST MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [{ SFT
ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ] EVN ST EVN ST EVN ST STF ST STF
ST STF ST [{ PRA ST }] [{ PRA ST }] [{ ORG ST }] [{ ORG
ST }] [{ ORG ST }] EOM;
   /* PMU/ACK - Revoke Certificate/Permission */
PMU_B07 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EVN ST STF ST [ PRA ST ]
[{ ST CER ST [{ PRT ST }] [{ ROL ST }] }] ST EOM;
   /* PPG - PC/ pathway (goal-oriented) add */
PMU_B08 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EVN ST STF ST [ PRA ST ]
[{ CER ST }] EOM;
   /* PPP - PC/ pathway (problem-oriented) update */
PPG_PCG := SOM MSH ST MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [{ SFT
ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ] PID ST PID ST PID ST { ST { ST
{ ST PRD ST PRD ST PRD ST [{ CTD ST }] [{ CTD ST }] } ST
} ST } ST [ ST [ ST PV1 ST PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] [
PV2 ST ] ST ] ST | ST { ST { ST PTH ST PTH ST PTH ST [{ NTE ST
}] [{ NTE ST }] [{ NTE ST }] [{ VAR ST }] [{ VAR ST }] [{
ST [{ ST [{ ST ROL ST ROL ST ROL ST PRT ST PRT ST [{ VAR ST }]
[\{ VAR ST \}] [\{ VAR ST \}] \}] ST \}] ST [\{ ST [<math>\{ ST [\{ ST GOL ST \} \} \} \}]
GOL ST GOL ST [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ VAR ST }] [{
VAR ST \}] [{ VAR ST \}] [{ ST [{ ST ROL ST ROL ST ROL ST PRT ST
```

PRT ST PRT ST [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] ST }] ST }] ST

[{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PR

/\* PPR - PC/ problem add \*/ PPP\_PCB := SOM MSH ST MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ] PID ST PID ST FID ST { ST { ST { ST PRD ST PRD ST PRD ST [{ CTD ST }] [{ CTD ST }] } ST } ST } ST [ ST [ ST PV1 ST PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] [ PV2 ST ] ST ] ST | ST { ST { ST PTH ST PTH ST PTH ST [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ VAR ST }] [{ VAR ST }] [{ ST [{ ST [{ ST ROL ST ROL ST ROL ST PRT ST PRT ST PRT ST [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] }] ST }] ST }] ST [{ ST [{ ST [{ ST PRB ST PRB ST PRB ST [{ NTE ST }] [{ NTE ST }] [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] [{ ST [{ ST ROL ST ROL ST PRT ST PRT ST PRT ST [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] ST }] ST }] ST [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] ST }] ST }] ST [{ ST [{ ST [{ ST GOL ST GOL ST GOL ST [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] [{ ST [{ ST [{ ST ROL ST ROL ST ROL ST PRT ST PRT ST [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] }] ST }] ST }] ST }] ST }] ST }] ST [{ ST [{ ST [{ ST ORC ST ORC ST [ ST [ ST [ ST < ST < ST < ST OBR ST OBR ST OBR ST | ST | ST | ST Hxx ST Hxx ST Hxx ST ST ST ST ST ST [{ NTE ST }] [{ NTE ST }] [{ VAR ST }] [{ VAR ST }] [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] }] ST }] } ST EOM;

/\* HealthCare Services Invoice Status \*/
PPR\_PC1 := SOM MSH ST MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] PID ST PID ST FID ST { ST }

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{ ST PRD ST PRD ST PRD ST [{ CTD ST }] [{ CTD ST }] [{ CTD ST }] } ST
} ST } ST [ ST [ ST [ ST PV1 ST PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] [
PV2 ST ] ST ] ST | ST { ST { ST PRB ST PRB ST PRB ST [{ NTE ST
}] [{ NTE ST }] [{ NTE ST }] [{ VAR ST }] [{ VAR ST }] [{
ST [{ ST [{ ST ROL ST ROL ST ROL ST PRT ST PRT ST PRT ST [{ VAR ST }]
[{ VAR ST }] [{ VAR ST }] }] ST }] ST [{ ST [{ ST [{ ST PTH ST
PTH ST PTH ST [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] ST }] ST }] ST
[{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{
PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] ST }] ST }] ST [{
ST [{ ST [{ ST GOL ST GOL ST [{ NTE ST }] [{ NTE ST }] [{ NTE
ST }] [{ VAR ST }] [{ VAR ST }] [{ ST [{ ST [{ ST ROL ST
ROL ST ROL ST PRT ST PRT ST [{ VAR ST }] [{ VAR ST }] [{ VAR ST
}] [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] }]
ST }] ST }] ST }] ST }] ST }] ST [{ ST [{ ST [{ ST ORC ST ORC
ST [ ST [ ST [ ST < ST < ST < ST OBR ST OBR ST OBR ST | ST | ST | ST
Hxx ST Hxx ST Hxx ST > ST > ST > ST [{ NTE ST }] [{ NTE ST }] [{ NTE
ST }] [{ VAR ST }] [{ VAR ST }] [{ ST [{ ST [{ ST OBX ST
OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{
NTE ST }] [{ NTE ST }] [{ VAR ST }] [{ VAR ST }] [{ VAR ST }] |
/* Authorization Request Status */
QBP_E03 := SOM MSH ST [{ SFT ST }] [{ UAC ST }] < ST QPD ST RCP ST >
ST EOM;
   /* QBP - Get Donor Record Candidates */
QBP_E22 := SOM MSH ST [{ SFT ST }] [{ UAC ST }] < ST QPD ST RCP ST >
ST EOM;
   /* QBP - Get Donor Record */
QBP_O33 := SOM MSH ST [{ SFT ST }] [ UAC ST ] QPD ST RCP ST EOM;
   /* QBP Query Dispense history */
QBP_O34 := SOM MSH ST [{ SFT ST }] [ UAC ST ] QPD ST RCP ST
QBP_Q11 := SOM MSH ST MSH ST MSH ST MSH ST MSH ST [{ ARV ST }]
[{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{ ARV ST }] [{
SFT ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }]
ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ] [ UAC ST ] [ UAC ST ]
] QPD ST QPD ST QPD ST QPD ST QPD ST [ ST [ ST [ ST [ ST [
ST [ Hxx ST ] ]
ST ] ST ] ST ] ST ] ST RCP ST RCP ST RCP ST RCP ST RCP ST RCP ST
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[ DSC ST ] [ DSC ST ] [ DSC ST ] [ DSC ST ] [ DSC ST ]
EOM;
   /* QBP - Query by parameter requesting an RDY display response */
QBP_Q13 := SOM MSH ST MSH ST MSH ST MSH ST MSH ST [{ SFT ST }]
[{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }]
ST ] [ UAC ST ] OPD ST OPD
ST OPD ST OPD ST OPD ST [ PID ST ] [ PID ST ] [ PID ST ] [ PID ST ]
ST ] [ PID ST ] [ PID ST ] [ RDF ST ] [ RDF ST ] [ RDF ST ]
[ RDF ST ] [ RDF ST ] RCP ST RCP ST RCP ST RCP ST RCP ST RCP ST [ RDF
ST ] [ RDF ST ] [ RDF ST ] [ RDF ST ] [ RDF ST ] [ DSC ST ]
[ DSC ST ] [ DSC ST ] [ DSC ST ] [ DSC ST ] EOM;
   /* QBP - Personnel Information by Segment Query */
QBP_Q15 := SOM MSH ST MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [{ SFT
ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ] QPD ST QPD ST QPD ST [ Hxx ST ]
[ HXX ST ] [ HXX ST ] RCP ST RCP ST RCP ST [ DSC ST ] [ DSC ST ] [ DSC
ST ] EOM;
   /* Information about Phone Calls */
QBP_Q21 := SOM MSH ST MSH ST MSH ST MSH ST MSH ST [{ SFT ST }]
[{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [
ST ] [ UAC ST ] [ UAC ST ] [ UAC ST ] [ UAC ST ] QPD ST QPD
ST OPD ST OPD ST OPD ST OPD ST RCP ST RCP ST RCP ST RCP ST RCP
ST [ DSC ST ] [ DSC ST ] [ DSC ST ] [ DSC ST ] [ DSC ST ]
EOM;
   /* QCN/ACK - Cancel query/acknowledge message */
QBP_Z73 := SOM MSH ST [{ SFT ST }] [ UAC ST ] QPD ST RCP ST EOM;
   /* QSB - Create subscription */
QCN_J01 := SOM MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [
UAC ST ] QID ST QID ST EOM;
   /* QVR - Query for previous events */
QSB_Q16 := SOM MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [
UAC ST ] OPD ST OPD ST RCP ST RCP ST [ DSC ST ] [ DSC ST ] EOM;
   /* RAS - Pharmacy/treatment administration */
OVR 017 := SOM MSH ST [{ SFT ST }] [ UAC ST ] OPD ST [ ST [ Hxx ST ] ]
ST RCP ST [ DSC ST ] EOM;
   /* RDE - Pharmacy/treatment encoded order */
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RAS\_017 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST }] [ ST PID ST PD1 ST [{ PRT ST }] [{ NTE ST }] [{ ARV ST }] [{ AL1 ST }] [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] [{ ARV ST }] ] ST ] ST { ST ORC ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST RXO ST [{ PRT ST }] [ ST { NTE ST } { RXR ST } [{ ST RXC ST [{ NTE ST }] }] ST ] ST ] ST [ ST RXE ST [{ PRT ST }] [{ NTE ST }] { ST TQ1 ST [{ TQ2 ST }] } ST { RXR ST } [{ RXR ST }] [{ CD0 ST }] ] ST { ST { RXA ST } [{ PRT ST }] RXR ST [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] }] ST } ST [{ CTI ST }] } ST EOM;

/\* \*/ RDE\_011 := SOM MSH ST MSH ST [{ ARV ST }] [{ ARV ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] [{ NTE ST }] [{ NTE ST }] [ ST [ ST PID ST PID ST [ PD1 ST ] [ PD1 ST ] [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ ARV ST }] [{ ARV ST }] [ ST [ ST PV1 ST PV1 ST [ PV2 ST ] [ PV2 ST ] [{ PRT ST }] [{ ARV ST }] [{ ARV ST ] [ IN3 ST ] }] ST }] ST [ GT1 ST ] [ GT1 ST ] [{ AL1 ST }] [{ AL1 ST }] ] ST ] ST { ST ORC ST ORC ST [{ PRT ST }] [{ PRT ST }] [{ ST [ $\{$  ST TQ1 ST TQ1 ST [ $\{$  TQ2 ST  $\}$ ] [ $\{$  TQ2 ST  $\}$ ] ST [ ST [ ST RXO ST RXO ST [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] { RXR ST } { RXR ST } [{ ST [{ ST RXC ST RXC ST [{ NTE ST }] [{ NTE ST NTE ST }] [{ NTE ST }] { ST { ST TQ1 ST TQ1 ST [{ TQ2 ST }] [{ TQ2 ST NTE ST }] [{ NTE ST }] { ST { ST TQ1 ST TQ1 ST [{ TQ2 ST }] [{ TQ2 ST }] [{ CDO ST }] [{ CDO ST }] [{ ST [{ ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] ST [{ FT1 ST }] [{ FT1 ST }] [ BLG ST ] [ BLG ST ] [{ CTI ST }] [{ CTI ST }] } ST } ST EOM;

/\* Pharmacy/treatment Dispense Information \*/
RDE\_O49 := SOM MSH ST [{ SFT ST }] [ UAC ST ] [{ NTE ST }] [ ST PID ST
[ PD1 ST ] [{ PRT ST }] [{ NTE ST }] [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] ] ST [{ ST IN1 ST [ IN2 ST ] [ IN3 ST ] }] ST [ GT1 ST ] [{ AL1 ST }] ] ST { ST ORC ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST RXO ST [{ PRT ST }] [{ NTE ST }] { RXR ST } [{ ST RXC ST [{ NTE ST }] }] ST ] ST [{ PRT ST }] RXE ST [{ PRT ST }] [{ NTE ST }] { ST TQ1 ST [{ TQ2 ST }] } ST [{ TQ2 ST }] }] ST [{ ST TQ1 ST ]] [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] ]] }

/\* RDS - Pharmacy/treatment dispense \*/
RDR\_RDR := SOM MSH ST MSA ST [{ ERR ST }] [ SFT ST ] [ UAC ST ] { ST
QRD ST [ QRF ST ] [ ST PID ST [{ NTE ST }] ] ST { ST ORC ST [{ ST TQ1
ST [{ TQ2 ST }] }] ST [ ST RXE ST [{ ST TQ1 ST [{ TQ2 ST }] }] ST {

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RXR ST } [{ RXC ST }] ] ST { ST RXD ST { RXR ST } [{ RXC ST }] } ST }
ST } ST [ DSC ST ] EOM;
    /* RDY - Display response in response to QBP^Q15 */
RDS_013 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] [{ NTE ST
}] [ ST PID ST PD1 ST [{ PRT ST }] [{ ARV ST }] [{ NTE ST }] [{ AL1 ST
}] [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] [{ ARV ST }] ] ST ] ST { ST ORC
ST [{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST RXO ST [{ PRT ST
}] [ ST { NTE ST } { RXR ST } [{ ST RXC ST [{ NTE ST }] }] ST ] ST ]
ST [ ST RXE ST [{ PRT ST }] [{ NTE ST }] { ST TQ1 ST [{ TQ2 ST }] } ST
{ RXR ST } [{ RXC ST }] ] ST RXD ST [{ PRT ST }] [{ NTE ST }] { RXR ST
} [{ RXC ST }] [{ CDO ST }] [{ ST OBX ST [{ PRT ST }] [{ NTE ST }] }]
ST [{ FT1 ST }] } ST EOM;
    /* Dispense Information (Response) */
RDY_K15 := SOM MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [
UAC ST ] MSA ST MSA ST [ ERR ST ] [ ERR ST ] QAK ST QAK ST QPD ST QPD
ST [{ DSP ST }] [{ DSP ST }] [ DSC ST ] [ DSC ST ] EOM;
    /* REF/RRI - Patient referral */
\texttt{RDY} \_ \texttt{Z80} \ := \ \texttt{SOM} \ \texttt{MSH} \ \texttt{ST} \ \ \big[ \ \big\{ \ \texttt{SFT} \ \texttt{ST} \ \big\} \, \big] \ \ \big[ \ \texttt{UAC} \ \texttt{ST} \ \big] \ \ \texttt{MSA} \ \texttt{ST} \ \big[ \ \texttt{ERR} \ \texttt{ST} \ \big] \ \ \texttt{QAK} \ \texttt{ST}
OPD ST [{ DSP ST }] [ DSC ST ] EOM;
    /* RGV - Pharmacy/treatment give */
REF_I12 := SOM MSH ST MSH ST MSH ST [{ SFT ST }] [{ SFT ST }]
[{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ]
[ RF1 ST ] [ RF1 ST ] [ RF1 ST ] [ ST [ ST [ ST AUT ST
AUT ST AUT ST AUT ST [ CTD ST ] [ CTD ST ] [ CTD ST ] [ CTD ST ] ST
] ST ] ST { ST { ST { ST PRD ST PRD ST PRD ST PRD ST [{ CTD
ST }] [{ CTD ST }] [{ CTD ST }] [{ CTD ST }] } ST } ST } ST PID
ST PID ST PID ST [{ NK1 ST }] [{ NK1 ST }] [{ NK1 ST }] [{ NK1 ST }]
ST }] [{ GT1 ST }] [{ GT1 ST }] [{ GT1 ST }] [{ ST [{ ST
[{ ST [{ ST IN1 ST IN1 ST IN1 ST IN1 ST [ IN2 ST ] [ IN2 ST ] [ IN2 ST
] [ IN2 ST ] [ IN3 ST ] [ IN3 ST ] [ IN3 ST ] [ IN3 ST ] }] ST }] ST
}] ST }] ST [ ACC ST ] [ ACC ST ] [ ACC ST ] [ ACC ST ] [{ DG1 ST }]
[{ DG1 ST }] [{ DG1 ST }] [{ DG1 ST }] [{ DRG ST }] [{
DRG ST }] [{ DRG ST }] [{ AL1 ST }] [{ AL1 ST }] [{ AL1 ST }]
ST }] [{ ST [{ ST [{ ST PR1 ST PR1 ST PR1 ST PR1 ST [ ST [ ST [
ST [ ST AUT ST AUT ST AUT ST [ CTD ST ] [ CTD ST ] [ CTD ST ] [
[{ ST OBR ST OBR ST OBR ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST
}] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{
ST [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT
ST }] [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }]
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[{ NTE ST }] }] ST [ ST [ ST [ ST

[ ST [ ST PV1 ST PV1 ST PV1 ST [ PV2 ST ] ] ST ] ST ] ST [ { NTE ST }] [ { NTE ST } ] [ { NTE ST } ]

/\* PIN/ACK - Unsolicited insurance information \*/ RQA\_IO8 := SOM MSH ST MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ] [ RF1 ST ] [ RF1 ST ] [ RF1 ST ] [ ST [ ST [ ST AUT ST AUT ST AUT ST AUT ST [ CTD ST ] [ CTD ST ] [ CTD ST ] [ CTD ST ] ST ] ST ] ST { ST { ST { ST PRD ST PRD ST PRD ST PRD ST [{ CTD ST }] [{ CTD ST }] [{ CTD ST }] [{ CTD ST }] } ST } ST } ST } ST PID ST PID ST PID ST [{ NK1 ST }] [{ NK1 ST }] [{ NK1 ST }] ST }] [ ST [ ST [ ST [ GT1 ST }] [{ GT1 ST }] [{ GT1 ST }] [{ GT1 ST }] { ST { ST { ST IN1 ST IN1 ST IN1 ST IN1 ST [ IN2 ST ] [ IN2 ST ] [ IN2 ST ] [ IN2 ST ] [ IN3 ST ] [ IN3 ST ] [ IN3 ST ] ST [ ACC ST ] [ ACC ST ] [ ACC ST ] [ ACC ST ] [{ DG1 ST }] [{ DG1 ST }] [{ DG1 ST }] [{ DG1 ST }] [{ DRG ST }] [{ DRG ST }] [{ DRG ST }] [{ AL1 ST }] [{ AL1 ST }] [{ AL1 ST }] [{ AL1 ST }] [{ ST [{ ST [{ ST PR1 ST PR1 ST PR1 ST PR1 ST [ ST [ ST [ ST AUT ST AUT ST AUT ST AUT ST [ CTD ST ] [ CTD ST ] [ CTD ST ] [ CTD ST ] ST ] ST ] ST ] ST ] ST ] ST }] ST }] ST [{ ST [{ ST [{ ST OBR ST OBR ST OBR ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ ST [{ ST [{ ST OBX ST OBX ST OBX ST [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] ST }] ST }] ST }] ST }] ST }] ST [ ST [ ST [ ST FV1 ST PV2 ST ] [ PV2 ST ] [ PV2 ST ] [ PV2 ST ] ] ST ] ST ] ST [ { NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] EOM;

/\* RQD/RPI - Request for patient demographic data \*/
RQI\_IO1 := SOM MSH ST MSH ST MSH ST MSH ST [{ SFT ST }] [{ SFT ST }]
[{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] [ UAC ST ]
{ ST { ST { ST PRD ST PRD ST PRD ST PRD ST [{ CTD ST }] [{ CTD ST }] [{ CTD ST }] ] }
} [{ CTD ST }] [{ CTD ST }] }

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PID ST [{ NK1 ST }] [{ NK1 ST }] [{ NK1 ST }] [{ NK1 ST }] [ ST [ ST [
ST [ ST [{ GT1 ST }] [{ GT1 ST }] [{ GT1 ST }] [{ GT1 ST }] { ST { ST
{ ST { ST IN1 ST IN1 ST IN1 ST [ IN2 ST ] [ IN2 ST ] [ IN2 ST ]
[ IN2 ST ] [ IN3 ST ] [ IN3 ST ] [ IN3 ST ] [ IN3 ST ] } ST } ST
} ST ] ST ] ST ] ST [ { NTE ST } ] [ { NTE ST } ] [ { NTE ST } ] [ { NTE ST } ]
ST }] EOM;
       /* RRA - Pharmacy/treatment administration acknowledgment */
RQP_IO4 := SOM MSH ST [{ SFT ST }] [ UAC ST ] { ST PRD ST [{ CTD ST }]
} ST PID ST [{ NK1 ST }] [{ GT1 ST }] [{ NTE ST }] EOM;
       /* RRD - Pharmacy/treatment dispense acknowledgment */
RRA_018 := SOM MSH ST MSA ST [{ ERR ST }] [{ SFT ST }] [ UAC ST ] [{
NTE ST }] [ ST [ ST PID ST [{ PRT ST }] [{ NTE ST }] ] ST { ST ORC ST
[{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST { ST RXA ST [{ PRT ST }] }] ST [ ST \{ ST RXA ST \{ PRT 
ST }] } ST RXR ST ] ST } ST ] ST EOM;
      /* RRE - Pharmacy/treatment encoded order acknowledgment */
RRD_014 := SOM MSH ST MSA ST [{ ERR ST }] [{ SFT ST }] [ UAC ST ] [{
NTE ST }] [ ST [ ST PID ST [{ PRT ST }] [{ NTE ST }] ] ST { ST ORC ST
[{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST RXD ST [{ PRT ST }]
[{ NTE ST }] { RXR ST } [{ RXC ST }] ] ST } ST ] ST EOM;
      /* */
RRE_O12 := SOM MSH ST MSH ST MSA ST MSA ST [{ ERR ST }] [{ ERR ST }]
[{ SFT ST }] [{ SFT ST }] [ UAC ST ] [ UAC ST ] [{ NTE ST }] [{ NTE ST
}] [ ST [ ST [ ST PID ST PID ST [{ PRT ST }] [{ PRT ST }] [{ NTE
ST }] [{ NTE ST }] ] ST ] ST { ST ORC ST ORC ST [{ PRT ST }] [{
PRT ST }] [{ ST [{ ST TQ1 ST TQ1 ST [{ TQ2 ST }] [{ TQ2 ST }] }] ST }]
ST [ ST [ ST RXE ST RXE ST [{ PRT ST }] [{ PRT ST }] [{ NTE ST }] [{
NTE ST }] { ST { ST TQ1 ST TQ1 ST [{ TQ2 ST }] [{ TQ2 ST }] } ST } ST
{ RXR ST } { RXR ST } [{ RXC ST }] [{ RXC ST }] ] ST ] ST } ST } ST ]
ST ] ST EOM;
       /* RRG - Pharmacy/treatment give acknowledgment */
RRE_050 := SOM MSH ST MSA ST [{ ERR ST }] [{ SFT ST }] [ UAC ST ] [{
NTE ST }] [ ST [ ST PID ST [{ PRT ST }] [{ NTE ST }] ] ST { ST ORC ST
[{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST RXE ST [{ PRT ST }]
[{ NTE ST }] { ST TQ1 ST [{ TQ2 ST }] } ST { RXR ST } [{ RXC ST }] ]
ST [{ PRT ST }] } ST ] ST EOM;
      /* RSP - Segment pattern response in response to QBP^Q11 */
RRG_016 := SOM MSH ST MSA ST [{ ERR ST }] [{ SFT ST }] [ UAC ST ] [{
NTE ST }] [ ST [ ST PID ST [{ PRT ST }] [{ NTE ST }] ] ST { ST ORC ST
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[{ PRT ST }] [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST RXG ST [{ PRT ST }]
{ ST TQ1 ST [{ TQ2 ST }] } ST { RXR ST } [{ RXC ST }] ] ST } ST ] ST
EOM;
   /* RSP - Personnel Information by Segment Response */
RSP K11 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MSA ST [{ ERR ST }] OAK
ST QPD ST [ ST Hxx ST ] ST [ DSC ST ] EOM;
   /* RSP -Dispense History Response */
RSP_K25 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MSA ST [{ ERR ST }] QAK
ST QPD ST RCP ST { ST STF ST [{ PRA ST }] [{ ORG ST }] [{ AFF ST }] [{
LAN ST }] [{ EDU ST }] [{ CER ST }] [{ NK1 ST }] [{ PRT ST }] [{ ROL
ST }] } ST [ DSC ST ] EOM;
   /* Get Donor Record Candidates Response Message */
RSP_K31 := SOM MSH ST MSA ST [{ ERR ST }] [{ SFT ST }] [ UAC ST ] QAK
ST QPD ST RCP ST { ST [ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ NTE ST }]
[{ ARV ST }] [{ AL1 ST }] [ ST PV1 ST [ PV2 ST ] [{ PRT ST }] [{ ARV
ST [ ST RXO ST [{ PRT ST }] [{ NTE ST }] { RXR ST } [{ ST RXC ST [{
[{ TQ2 ST }] } ST { RXR ST } [{ RXC ST }] ] ST RXD ST [{ PRT ST }] {
RXR ST } [{ RXC ST }] [{ CDO ST }] [{ ST OBX ST [{ PRT ST }] [{ NTE ST
}] }] ST } ST } ST [ DSC ST ] EOM;
   /* Segment Pattern Response Message */
RSP_O33 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] MSA ST [
ERR ST ] QAK ST QPD ST [ ST PID ST [{ PRT ST }] [{ ARV ST }] ] ST
EOM;
   /* Dispense History (Response) */
RSP_034 := SOM MSH ST [{ ARV ST }] [{ SFT ST }] [ UAC ST ] MSA ST [
ERR ST ] QAK ST QPD ST [ ST PID ST [ PD1 ST ] [{ PRT ST }] [{ ST OBX
ST [{ PRT ST }] }] ST [{ NTE ST }] [{ AL1 ST }] [{ ARV ST }] [ ST PV1
ST [{ PRT ST }] [{ NTE ST }] ] ST ] ST [ ST DON ST [{ ST OBX ST [{ PRT
/* Who Am I (Response) */
RSP_Z82 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MSA ST [ ERR ST ] QAK ST
QPD ST RCP ST { ST PID ST [ PD1 ST ] [{ NTE ST }] [ ST { AL1 ST }
PV1 ST [ PV2 ST ] ] ST ] ST { ST ORC ST [{ ST TQ1 ST [{ TQ2 ST }] }]
ST [ ST RXO ST [{ NTE ST }] { RXR ST } [ ST { RXC ST } [{ NTE ST }] ]
ST ] ST [ ST RXE ST [{ ST TQ1 ST [{ TQ2 ST }] }] ST { RXR ST } [{ RXC
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} ST } ST } ST [ DSC ST ] EOM;
   /* Pharmacy Information Comprehensive (Response) */
RSP_Z84 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MSA ST [ ERR ST ] QAK ST
OPD ST [ ST RDF ST [{ RDT ST }] ] ST [ DSC ST ] EOM;
   /* Dispense Information (Response) */
RSP_Z86 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MSA ST [ ERR ST ] QAK ST
QPD ST { ST [ ST PID ST [ PD1 ST ] [{ NTE ST }] [{ AL1 ST }] ] ST { ST
ORC ST [{ ST TQ1 ST [{ TQ2 ST }] }] ST [ ST RXO ST { RXR ST } [{ RXC
RXR ST } [{ RXC ST }] ] ST [ ST RXA ST { RXR ST } [{ RXC ST }] ] ST {
ST [ OBX ST ] [{ NTE ST }] } ST } ST ] ST [ DSC ST ] EOM;
   /* Lab Results History (Response) */
RSP_Z88 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MSA ST [ ERR ST ] QAK ST
QPD ST RCP ST { ST [ ST PID ST [ PD1 ST ] [{ NTE ST }] [ ST { AL1 ST }
[ ST PV1 ST [ PV2 ST ] ] ST ] ST ] ST { ST ORC ST [{ ST TQ1 ST [{ TQ2
NTE ST }] } ST } ST } ST DSC ST EOM;
   /* RTB - Tabular response in response to QBP^Q13 */
RSP_Z90 := SOM MSH ST [{ SFT ST }] [ UAC ST ] MSA ST [ ERR ST ] QAK ST
QPD ST RCP ST { ST [ ST PID ST [ PD1 ST ] [{ NK1 ST }] [{ NTE ST }] [
ST PV1 ST [ PV2 ST ] ] ST ] ST { ST ORC ST [{ ST TQ1 ST [{ TQ2 ST }}]
}] ST OBR ST [{ NTE ST }] [ CTD ST ] { ST [ OBX ST ] [{ NTE ST }] } ST
} ST [{ ST SPM ST [{ OBX ST }] }] ST } ST DSC ST EOM;
   /* Information about Phone Calls (Response) */
RTB_K13 := SOM MSH ST MSH ST MSH ST MSH ST MSH ST [{ SFT ST }]
[{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [{ SFT ST }] [
ST ] [ UAC ST ] MSA ST MSA
ST MSA ST MSA ST MSA ST [ ERR ST ] [ ERR ST ] [ ERR ST ] [ ERR
ST ] [ ERR ST ] [ ERR ST ] QAK ST QAK ST QAK ST QAK ST QAK ST
QPD ST QPD ST QPD ST QPD ST QPD ST [ ST [ ST [ ST [ ST [
ST RDF ST RDF ST RDF ST RDF ST RDF ST [{ RDT ST }] [{ RDT ST }]
[{ RDT ST }] [{ RDT ST }] [{ RDT ST }] [{ RDT ST }] ST ] ST ]
ST ] ST ] ST [ DSC ST ] [ DSC ST ] [ DSC ST ] [ DSC ST ] [
```

DSC ST ] EOM;

```
/* SDR/SDS - Request anti-microbial device data */
RTB_Z74 := SOM MSH ST MSA ST [{ ERR ST }] [{ SFT ST }] [ UAC ST ] QAK
ST QPD ST [ ST RDF ST [{ RDT ST }] ] ST [ DSC ST ] EOM;

/* SCN/ACK - Notification of anti-microbial device cycle data */
SDR_S31 := SOM MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [
UAC ST ] < ST < ST SDD ST SDD ST [{ SCD ST }] > ST > ST
EOM;

/* SIU/ACK - Notification of appointment discontinuation */
SDR_S32 := SOM MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [
UAC ST ] < ST < ST SDD ST SDD ST [{ SCD ST }] > ST > ST
EOM;
```

/\* STI/STS - Request item \*/ SIU S12 := SOM MSH ST SCH ST [{ TQ1 ST }] ST }] [{ TQ1 ST }] [{ TQ1 ST }] [{ TQ1 ST }] [{ TQ1 ST }] [{ NTE ST }] ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ ST [}}]})}}} ST [{ ST PID ST [ PD1 ST ] [{ PRT ST }] ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [ PV1 ST ] ST ] [ PV1 ST ] [ PV2 ST ] [ ST ] [ PV2 ST ] [ PV2 ST ] [ PV2 ST ] [{ PRT ST }] [{ OBX ST }] [{ OBX ST }] [{ OBX ST }] ST }] [{ OBX ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST }] [{ PRT ST }] [{ DG1 ST }]

ST }] [{ DG1 ST }] ST { ST RGS ST [{ ST [} AIS ST [{ NTE ST }] ST }] [{ NTE ST }] }] ST [{ ST []}]}}}] [{ ST AIG ST [{ NTE ST }] ST }] ST }] ST }] ST }] ST [{ St}]}}})}} [{ ST [{ ST [{ ST [{ ST [{ ST [{ ST AIL ST [{ NTE ST }] ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] }] ST [{ ST [} [{ ST [{ ST [{ ST [{ ST [{ ST [{ ST AIP ST [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] }] [{ NTE ST }] ST } ST } ST } ST EOM;

/\* SRM/SRR - Request cancellation of service/resource on
appointment \*/
SLR\_S28 := SOM MSH ST MSH ST MSH ST MSH ST [{ SFT ST }] [ UAC ST ] [ UAC ST ] [
UAC ST ] [ UAC ST ] [ UAC ST ] { SLT ST } { SLT ST } { SLT ST }

/\* SSR/ACK - specimen status request \*/
SRM\_S01 := SOM MSH ST ARQ S

] [ APR ST ] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] }] [{ NTE ST }] [{ ST PID ST [{ PRT ST }] ST }] [{ PRT ST }] [ PV1 ST ] [ PV2 ST ] [ { PRT ST } ] [ { PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] ST }] [{ PRT ST }] [{ PRT ST }] [{ PRT ST }] [{ ST [ST OBX ST [{ PRT ST }] } ST }] ST [{ DG1 ST }] ST { ST  $\{$  ST RGS ST [{ ST AIS ST [ APR ST ] [{ NTE ST }] }] ST [{ ST AIG ST ST AIG ST AIG ST AIG ST AIG ST [ APR ST ] [{ NTE ST }] }] ST }] }] ST }] ST }] ST [{ ST}]}]}}}] ST [{ ST [{ ST AIL ST A AIL ST AIL ST AIL ST [ APR ST ] [{ NTE ST }] ST [{ ST [} AIP ST [ APR ST ] ] [ APR ST ] [ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{

```
NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] [{ NTE ST }] ST }]
/* SSU/ACK - Specimen status update */
SSR U04 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EQU ST { ST SAC ST [{
SPM ST } ] ST [ ROL ST ] EOM;
   /* STC/ACK - Notification of sterilization configuration */
SSU_U03 := SOM MSH ST [{ SFT ST }] [ UAC ST ] EQU ST { ST SAC ST [{
OBX ST }] [{ NTE ST }] [{ PRT ST }] [{ ST SPM ST [{ OBX ST }] [{ PRT
ST }] }] ST } ST [ ROL ST ] EOM;
   /* TCU/ACK - Automated equipment test code settings update */
STC_S33 := SOM MSH ST [{ SFT ST }] [ UAC ST ] { SCP ST } EOM;
   /* UDM/ACK - Unsolicited display update message */
TCU_U10 := SOM MSH ST MSH ST [{ SFT ST }] [{ SFT ST }] [ UAC ST ] [
UAC ST ] EQU ST EQU ST { ST [ SPM ST ] [ SPM ST ] { TCC ST } {
TCC ST } ST } ST [ ROL ST ] [ ROL ST ] EOM;
   /* VXU - Unsolicited vaccination record update */
UDM_Q05 := SOM MSH ST [{ SFT ST }] [ UAC ST ] URD ST [ URS ST ] { DSP
ST } [ DSC ST ] EOM;
ST := \langle CR \rangle_i
```

### C.2.2 Segments

ARV AUT BHS BLC BLG BPO  $\mathtt{BPX}$  $\mathtt{BTS}$  $\mathtt{BTX}$ BUI CDMCDO CER CM0 CM1 CM2 CNS CON CSP CSR CSS  $\mathtt{CTD}$ CTI CTR DB1 DEV DG1 DMI DON DPS DRG DSC DSP DST ECD ECR EDU EQP EQU ERR EVN FAC FHS FT1 FTS GOL GP1

GP2

GT1 IAM IAR IIM  ${\tt ILT}$ IN1 IN2 IN3 INV IPC IPR ISD ITM IVC IVT LAN LCC LCH LDP LOC LRL MCP MFA MFE MFI MRG MSA MSH NCK NDS NK1 NPU NSC NST NTEOBR OBX ODS ODT OH1 OH2 OH3 OH4 OM1 OM2 ом3 OM4 OM5

ОМб OM7 OMC ORC ORG OVR PAC PCE PCR PD1 PDA PDC PEO PES PID PKG PM1 PMTPR1 PRA PRB PRC PRD PRT PSG PSH PSL PSS PTHPV1 PV2 PYE QAK QID QPD QRI RCP RDF RDT REL RF1 RFI RGS RMI ROL RQ1 RQD

RXA

**RXC** RXD RXE RXG RXO RXR RXV SAC SCD SCH SCP SDD SFT SGH SGT SHP SID SLT SPM STF STZ TCC TCD TQ1 TQ2 TXA UAC UB1 UB2 VAR VND ZL7

ABS := ABS-1 F-SEP ABS-2 F-SEP ABS-3 F-SEP ABS-4 F-SEP ABS-5 F-SEP ABS-6 F-SEP ABS-7 F-SEP ABS-8 F-SEP ABS-9 F-SEP ABS-10 F-SEP ABS-11 F-SEP ABS-12 F-SEP ABS-13 F-SEP ABS-14

ACC := ACC-1 F-SEP ACC-2 F-SEP ACC-3 F-SEP ACC-4 F-SEP ACC-5 F-SEP ACC-6 F-SEP ACC-7 F-SEP ACC-8 F-SEP ACC-9 F-SEP ACC-10 F-SEP ACC-11 F-SEP ACC-12 F-SEP ACC-13

ADD := ADD-1

ADJ := ADJ-1 F-SEP ADJ-2 F-SEP ADJ-3 F-SEP ADJ-4 F-SEP ADJ-5 F-SEP ADJ-6 F-SEP ADJ-7 F-SEP ADJ-8 F-SEP ADJ-9 F-SEP ADJ-10 F-SEP ADJ-11 F-SEP ADJ-12 F-SEP ADJ-13 F-SEP ADJ-14 F-SEP ADJ-15

AFF := AFF-1 F-SEP AFF-2 F-SEP AFF-3 F-SEP AFF-4 F-SEP AFF-5

AIG := AIG-1 F-SEP AIG-2 F-SEP AIG-3 F-SEP AIG-4 F-SEP AIG-5 F-SEP AIG-6 F-SEP AIG-7 F-SEP AIG-8 F-SEP AIG-9 F-SEP AIG-10 F-SEP AIG-11 F-SEP AIG-12 F-SEP AIG-13 F-SEP AIG-14

AIL := AIL-1 F-SEP AIL-2 F-SEP AIL-3 F-SEP AIL-4 F-SEP AIL-5 F-SEP AIL-6 F-SEP AIL-7 F-SEP AIL-8 F-SEP AIL-9 F-SEP AIL-10 F-SEP AIL-11 F-SEP AIL-12

AIP := AIP-1 F-SEP AIP-2 F-SEP AIP-3 F-SEP AIP-4 F-SEP AIP-5 F-SEP AIP-6 F-SEP AIP-7 F-SEP AIP-8 F-SEP AIP-9 F-SEP AIP-10 F-SEP AIP-11 F-SEP AIP-12

AIS := AIS-1 F-SEP AIS-2 F-SEP AIS-3 F-SEP AIS-4 F-SEP AIS-5 F-SEP AIS-6 F-SEP AIS-7 F-SEP AIS-8 F-SEP AIS-9 F-SEP AIS-10 F-SEP AIS-11 F-SEP AIS-12

AL1 := AL1-1 F-SEP AL1-2 F-SEP AL1-3 F-SEP AL1-4 F-SEP AL1-5 F-SEP AL1-6

APR := APR-1 F-SEP APR-2 F-SEP APR-3 F-SEP APR-4 F-SEP APR-5

ARQ := ARQ-1 F-SEP ARQ-2 F-SEP ARQ-3 F-SEP ARQ-4 F-SEP ARQ-5 F-SEP ARQ-6 F-SEP ARQ-7 F-SEP ARQ-8 F-SEP ARQ-9 F-SEP ARQ-10 F-SEP ARQ-11 F-SEP ARQ-12 F-SEP ARQ-13 F-SEP ARQ-14 F-SEP ARQ-15 F-SEP ARQ-16 F-SEP ARQ-17 F-SEP ARQ-18 F-SEP ARQ-19 F-SEP ARQ-20 F-SEP ARQ-21 F-SEP ARQ-22 F-SEP ARQ-23 F-SEP ARQ-24 F-SEP ARQ-25 F-SEP ARQ-26

ARV := ARV-1 F-SEP ARV-2 F-SEP ARV-3 F-SEP ARV-4 F-SEP ARV-5 F-SEP ARV-6 F-SEP ARV-7 F-SEP ARV-8 F-SEP ARV-9 F-SEP ARV-10

AUT := AUT-1 F-SEP AUT-2 F-SEP AUT-3 F-SEP AUT-4 F-SEP AUT-5 F-SEP AUT-6 F-SEP AUT-7 F-SEP AUT-8 F-SEP AUT-9 F-SEP AUT-10 F-SEP AUT-11 F-SEP AUT-12 F-SEP AUT-13 F-SEP AUT-14 F-SEP AUT-15 F-SEP AUT-16 F-SEP AUT-17 F-SEP AUT-18 F-SEP AUT-19 F-SEP AUT-20 F-SEP AUT-21 F-SEP AUT-

22 F-SEP AUT-23 F-SEP AUT-24 F-SEP AUT-25 F-SEP AUT-26 F-SEP AUT-27 F-SEP AUT-28 F-SEP AUT-29

BHS:= BHS-1 F-SEP BHS-2 F-SEP BHS-3 F-SEP BHS-4 F-SEP BHS-5 F-SEP BHS-6 F-SEP BHS-7 F-SEP BHS-8 F-SEP BHS-9 F-SEP BHS-10 F-SEP BHS-11 F-SEP BHS-12 F-SEP BHS-13 F-SEP BHS-14 F-SEP BHS-15 F-SEP BHS-16 F-SEP BHS-17

BLC := BLC-1 F-SEP BLC-2

BLG := BLG-1 F-SEP BLG-2 F-SEP BLG-3 F-SEP BLG-4

BPO := BPO-1 F-SEP BPO-2 F-SEP BPO-3 F-SEP BPO-4 F-SEP BPO-5 F-SEP BPO-6 F-SEP BPO-7 F-SEP BPO-8 F-SEP BPO-9 F-SEP BPO-10 F-SEP BPO-11 F-SEP BPO-12 F-SEP BPO-13 F-SEP BPO-14

BPX := BPX-1 F-SEP BPX-2 F-SEP BPX-3 F-SEP BPX-4 F-SEP BPX-5 F-SEP BPX-6 F-SEP BPX-7 F-SEP BPX-8 F-SEP BPX-9 F-SEP BPX-10 F-SEP BPX-11 F-SEP BPX-12 F-SEP BPX-13 F-SEP BPX-14 F-SEP BPX-15 F-SEP BPX-16 F-SEP BPX-17 F-SEP BPX-18 F-SEP BPX-19 F-SEP BPX-20 F-SEP BPX-21 F-SEP BPX-22

BTS := BTS-1 F-SEP BTS-2 F-SEP BTS-3

BTX := BTX-1 F-SEP BTX-2 F-SEP BTX-3 F-SEP BTX-4 F-SEP BTX-5 F-SEP BTX-6 F-SEP BTX-7 F-SEP BTX-8 F-SEP BTX-9 F-SEP BTX-10 F-SEP BTX-11 F-SEP BTX-12 F-SEP BTX-13 F-SEP BTX-14 F-SEP BTX-15 F-SEP BTX-16 F-SEP BTX-17 F-SEP BTX-18 F-SEP BTX-19 F-SEP BTX-20 F-SEP BTX-21

BUI := BUI-1 F-SEP BUI-2 F-SEP BUI-3 F-SEP BUI-4 F-SEP BUI-5 F-SEP BUI-6 F-SEP BUI-7 F-SEP BUI-8 F-SEP BUI-9 F-SEP BUI-10 F-SEP BUI-11 F-SEP BUI-12 F-SEP BUI-13

CDM := CDM-1 F-SEP CDM-2 F-SEP CDM-3 F-SEP CDM-4 F-SEP CDM-5 F-SEP CDM-6 F-SEP CDM-7 F-SEP CDM-8 F-SEP CDM-9 F-SEP CDM-10 F-SEP CDM-11 F-SEP CDM-12 F-SEP CDM-13

CDO := CDO-1 F-SEP CDO-2 F-SEP CDO-3 F-SEP CDO-4

CER := CER-1 F-SEP CER-2 F-SEP CER-3 F-SEP CER-4 F-SEP CER-5 F-SEP CER-6 F-SEP CER-7 F-SEP CER-8 F-SEP CER-9 F-SEP CER-10 F-SEP CER-11 F-

SEP CER-12 F-SEP CER-13 F-SEP CER-14 F-SEP CER-15 F-SEP CER-16 F-SEP CER-17 F-SEP CER-18 F-SEP CER-19 F-SEP CER-20 F-SEP CER-21 F-SEP CER-22 F-SEP CER-23 F-SEP CER-24 F-SEP CER-25 F-SEP CER-26 F-SEP CER-27 F-SEP CER-28 F-SEP CER-29 F-SEP CER-30 F-SEP CER-31

CMO := CMO-1 F-SEP CMO-2 F-SEP CMO-3 F-SEP CMO-4 F-SEP CMO-5 F-SEP CMO-6 F-SEP CMO-7 F-SEP CMO-8 F-SEP CMO-9 F-SEP CMO-10 F-SEP CMO-11

CM1 := CM1-1 F-SEP CM1-2 F-SEP CM1-3

CM2 := CM2-1 F-SEP CM2-2 F-SEP CM2-3 F-SEP CM2-4

CNS := CNS-1 F-SEP CNS-2 F-SEP CNS-3 F-SEP CNS-4 F-SEP CNS-5 F-SEP CNS-6

CON := CON-1 F-SEP CON-2 F-SEP CON-3 F-SEP CON-4 F-SEP CON-5 F-SEP CON-6 F-SEP CON-7 F-SEP CON-8 F-SEP CON-9 F-SEP CON-10 F-SEP CON-11 F-SEP CON-12 F-SEP CON-13 F-SEP CON-14 F-SEP CON-15 F-SEP CON-16 F-SEP CON-17 F-SEP CON-18 F-SEP CON-19 F-SEP CON-20 F-SEP CON-21 F-SEP CON-22 F-SEP CON-23 F-SEP CON-24 F-SEP CON-25

CSP := CSP-1 F-SEP CSP-2 F-SEP CSP-3 F-SEP CSP-4

CSR := CSR-1 F-SEP CSR-2 F-SEP CSR-3 F-SEP CSR-4 F-SEP CSR-5 F-SEP CSR-6 F-SEP CSR-7 F-SEP CSR-8 F-SEP CSR-9 F-SEP CSR-10 F-SEP CSR-11 F-SEP CSR-12 F-SEP CSR-13 F-SEP CSR-14 F-SEP CSR-15 F-SEP CSR-16 F-SEP CSR-17

CSS := CSS-1 F-SEP CSS-2 F-SEP CSS-3

CTD := CTD-1 F-SEP CTD-2 F-SEP CTD-3 F-SEP CTD-4 F-SEP CTD-5 F-SEP CTD-6 F-SEP CTD-7

CTI := CTI-1 F-SEP CTI-2 F-SEP CTI-3 F-SEP CTI-4

CTR := CTR-1 F-SEP CTR-2 F-SEP CTR-3 F-SEP CTR-4 F-SEP CTR-5 F-SEP CTR-6 F-SEP CTR-7 F-SEP CTR-8 F-SEP CTR-9 F-SEP CTR-10 F-SEP CTR-11 F-SEP CTR-12 F-SEP CTR-13 F-SEP CTR-14 F-SEP CTR-15 F-SEP CTR-16 F-SEP CTR-17 F-SEP CTR-18 F-SEP CTR-19 F-SEP CTR-20 F-SEP CTR-21

DB1 := DB1-1 F-SEP DB1-2 F-SEP DB1-3 F-SEP DB1-4 F-SEP DB1-5 F-SEP DB1-6 F-SEP DB1-7 F-SEP DB1-8

DEV := DEV-1 F-SEP DEV-2 F-SEP DEV-3 F-SEP DEV-4 F-SEP DEV-5 F-SEP DEV-6 F-SEP DEV-7 F-SEP DEV-8 F-SEP DEV-9 F-SEP DEV-10 F-SEP DEV-11 F-SEP DEV-12 F-SEP DEV-13 F-SEP DEV-14 F-SEP DEV-15 F-SEP DEV-16 F-SEP DEV-17

DG1 := DG1-1 F-SEP DG1-2 F-SEP DG1-3 F-SEP DG1-4 F-SEP DG1-5 F-SEP DG1-6 F-SEP DG1-7 F-SEP DG1-8 F-SEP DG1-9 F-SEP DG1-10 F-SEP DG1-11 F-SEP DG1-12 F-SEP DG1-13 F-SEP DG1-14 F-SEP DG1-15 F-SEP DG1-16 F-SEP DG1-17 F-SEP DG1-18 F-SEP DG1-19 F-SEP DG1-20 F-SEP DG1-21 F-SEP DG1-22 F-SEP DG1-23 F-SEP DG1-24 F-SEP DG1-25 F-SEP DG1-26

DMI := DMI-1 F-SEP DMI-2 F-SEP DMI-3 F-SEP DMI-4 F-SEP DMI-5

DON: DON-1 F-SEP DON-2 F-SEP DON-3 F-SEP DON-4 F-SEP DON-5 F-SEP DON-6 F-SEP DON-7 F-SEP DON-8 F-SEP DON-9 F-SEP DON-10 F-SEP DON-11 F-SEP DON-12 F-SEP DON-13 F-SEP DON-14 F-SEP DON-15 F-SEP DON-16 F-SEP DON-17 F-SEP DON-18 F-SEP DON-19 F-SEP DON-20 F-SEP DON-21 F-SEP DON-22 F-SEP DON-23 F-SEP DON-24 F-SEP DON-25 F-SEP DON-26 F-SEP DON-27 F-SEP DON-28 F-SEP DON-29 F-SEP DON-30 F-SEP DON-31 F-SEP DON-32 F-SEP DON-34

DPS := DPS-1 F-SEP DPS-2 F-SEP DPS-3 F-SEP DPS-4 F-SEP DPS-5

DRG := DRG-1 F-SEP DRG-2 F-SEP DRG-3 F-SEP DRG-4 F-SEP DRG-5 F-SEP DRG-6 F-SEP DRG-7 F-SEP DRG-8 F-SEP DRG-9 F-SEP DRG-10 F-SEP DRG-11 F-SEP DRG-12 F-SEP DRG-13 F-SEP DRG-14 F-SEP DRG-15 F-SEP DRG-16 F-SEP DRG-17 F-SEP DRG-18 F-SEP DRG-19 F-SEP DRG-20 F-SEP DRG-21 F-SEP DRG-22 F-SEP DRG-23 F-SEP DRG-24 F-SEP DRG-25 F-SEP DRG-26 F-SEP DRG-27 F-SEP DRG-28 F-SEP DRG-29 F-SEP DRG-30 F-SEP DRG-31 F-SEP DRG-32 F-SEP DRG-33

DSC := DSC-1 F-SEP DSC-2

DSP := DSP-1 F-SEP DSP-2 F-SEP DSP-3 F-SEP DSP-4 F-SEP DSP-5

DST := DST-1 F-SEP DST-2

ECD := ECD-1 F-SEP ECD-2 F-SEP ECD-3 F-SEP ECD-4 F-SEP ECD-5

ECR := ECR-1 F-SEP ECR-2 F-SEP ECR-3

EDU := EDU-1 F-SEP EDU-2 F-SEP EDU-3 F-SEP EDU-4 F-SEP EDU-5 F-SEP EDU-6 F-SEP EDU-7 F-SEP EDU-8 F-SEP EDU-9

EQP := EQP-1 F-SEP EQP-2 F-SEP EQP-3 F-SEP EQP-4 F-SEP EQP-5

EQU := EQU-1 F-SEP EQU-2 F-SEP EQU-3 F-SEP EQU-4 F-SEP EQU-5 F-SEP EQU-6

ERR := ERR-1 F-SEP ERR-2 F-SEP ERR-3 F-SEP ERR-4 F-SEP ERR-5 F-SEP ERR-6 F-SEP ERR-7 F-SEP ERR-8 F-SEP ERR-9 F-SEP ERR-10 F-SEP ERR-11 F-SEP ERR-12

EVN := EVN-1 F-SEP EVN-2 F-SEP EVN-3 F-SEP EVN-4 F-SEP EVN-5 F-SEP EVN-6 F-SEP EVN-7

FAC := FAC-1 F-SEP FAC-2 F-SEP FAC-3 F-SEP FAC-4 F-SEP FAC-5 F-SEP FAC-6 F-SEP FAC-7 F-SEP FAC-8 F-SEP FAC-9 F-SEP FAC-10 F-SEP FAC-11 F-SEP FAC-12

FHS := FHS-1 F-SEP FHS-2 F-SEP FHS-3 F-SEP FHS-4 F-SEP FHS-5 F-SEP FHS-6 F-SEP FHS-7 F-SEP FHS-8 F-SEP FHS-9 F-SEP FHS-10 F-SEP FHS-11 F-SEP FHS-12 F-SEP FHS-13 F-SEP FHS-14 F-SEP FHS-15 F-SEP FHS-16 F-SEP FHS-17

FT1 := FT1-1 F-SEP FT1-2 F-SEP FT1-3 F-SEP FT1-4 F-SEP FT1-5 F-SEP FT1-6 F-SEP FT1-7 F-SEP FT1-8 F-SEP FT1-9 F-SEP FT1-10 F-SEP FT1-11 F-SEP FT1-12 F-SEP FT1-13 F-SEP FT1-14 F-SEP FT1-15 F-SEP FT1-16 F-SEP FT1-17 F-SEP FT1-18 F-SEP FT1-19 F-SEP FT1-20 F-SEP FT1-21 F-SEP FT1-22 F-SEP FT1-23 F-SEP FT1-24 F-SEP FT1-25 F-SEP FT1-26 F-SEP FT1-27 F-SEP FT1-28 F-SEP FT1-29 F-SEP FT1-30 F-SEP FT1-31 F-SEP FT1-32 F-SEP FT1-33 F-SEP FT1-34 F-SEP FT1-35 F-SEP FT1-36 F-SEP FT1-37 F-SEP FT1-38 F-SEP FT1-39 F-SEP FT1-40 F-SEP FT1-41 F-SEP FT1-42 F-SEP FT1-43 F-SEP FT1-44 F-SEP FT1-45 F-SEP FT1-46 F-SEP FT1-47 F-SEP FT1-48 F-SEP FT1-49 F-SEP FT1-50 F-SEP FT1-51 F-SEP FT1-52 F-SEP FT1-53 F-SEP FT1-54 F-SEP FT1-55 F-SEP FT1-56

FTS := FTS-1 F-SEP FTS-2

GOL:= GOL-1 F-SEP GOL-2 F-SEP GOL-3 F-SEP GOL-4 F-SEP GOL-5 F-SEP GOL-6 F-SEP GOL-7 F-SEP GOL-8 F-SEP GOL-9 F-SEP GOL-10 F-SEP GOL-11 F-SEP GOL-12 F-SEP GOL-13 F-SEP GOL-14 F-SEP GOL-15 F-SEP GOL-16 F-SEP GOL-17 F-SEP GOL-18 F-SEP GOL-19 F-SEP GOL-20 F-SEP GOL-21 F-SEP GOL-22

GP1 := GP1-1 F-SEP GP1-2 F-SEP GP1-3 F-SEP GP1-4 F-SEP GP1-5

GP2 := GP2-1 F-SEP GP2-2 F-SEP GP2-3 F-SEP GP2-4 F-SEP GP2-5 F-SEP GP2-6 F-SEP GP2-7 F-SEP GP2-8 F-SEP GP2-9 F-SEP GP2-10 F-SEP GP2-11 F-SEP GP2-12 F-SEP GP2-13 F-SEP GP2-14

GT1 := GT1-1 F-SEP GT1-2 F-SEP GT1-3 F-SEP GT1-4 F-SEP GT1-5 F-SEP GT1-6 F-SEP GT1-7 F-SEP GT1-8 F-SEP GT1-9 F-SEP GT1-10 F-SEP GT1-11 F-SEP GT1-12 F-SEP GT1-13 F-SEP GT1-14 F-SEP GT1-15 F-SEP GT1-16 F-SEP GT1-17 F-SEP GT1-18 F-SEP GT1-19 F-SEP GT1-20 F-SEP GT1-21 F-SEP GT1-22 F-SEP GT1-23 F-SEP GT1-24 F-SEP GT1-25 F-SEP GT1-26 F-SEP GT1-27 F-SEP GT1-28 F-SEP GT1-29 F-SEP GT1-30 F-SEP GT1-31 F-SEP GT1-32 F-SEP GT1-33 F-SEP GT1-34 F-SEP GT1-35 F-SEP GT1-36 F-SEP GT1-37 F-SEP GT1-38 F-SEP GT1-39 F-SEP GT1-40 F-SEP GT1-41 F-SEP GT1-42 F-SEP GT1-43 F-SEP GT1-44 F-SEP GT1-45 F-SEP GT1-46 F-SEP GT1-47 F-SEP GT1-48 F-SEP GT1-49 F-SEP GT1-50 F-SEP GT1-51 F-SEP GT1-52 F-SEP GT1-53 F-SEP GT1-54 F-SEP GT1-55 F-SEP GT1-56 F-SEP GT1-57

IAM := IAM-1 F-SEP IAM-2 F-SEP IAM-3 F-SEP IAM-4 F-SEP IAM-5 F-SEP IAM-6 F-SEP IAM-7 F-SEP IAM-8 F-SEP IAM-9 F-SEP IAM-10 F-SEP IAM-11 F-SEP IAM-12 F-SEP IAM-13 F-SEP IAM-14 F-SEP IAM-15 F-SEP IAM-16 F-SEP IAM-17 F-SEP IAM-18 F-SEP IAM-19 F-SEP IAM-20 F-SEP IAM-21 F-SEP IAM-22 F-SEP IAM-23 F-SEP IAM-24 F-SEP IAM-25 F-SEP IAM-26 F-SEP IAM-27 F-SEP IAM-28 F-SEP IAM-29 F-SEP IAM-30

IAR := IAR-1 F-SEP IAR-2 F-SEP IAR-3 F-SEP IAR-4

IIM := IIM-1 F-SEP IIM-2 F-SEP IIM-3 F-SEP IIM-4 F-SEP IIM-5 F-SEP IIM-6 F-SEP IIM-7 F-SEP IIM-8 F-SEP IIM-9 F-SEP IIM-10 F-SEP IIM-11 F-SEP IIM-12 F-SEP IIM-13 F-SEP IIM-14 F-SEP IIM-15

ILT := ILT-1 F-SEP ILT-2 F-SEP ILT-3 F-SEP ILT-4 F-SEP ILT-5 F-SEP ILT-6 F-SEP ILT-7 F-SEP ILT-8 F-SEP ILT-9 F-SEP ILT-10

IN1 := IN1-1 F-SEP IN1-2 F-SEP IN1-3 F-SEP IN1-4 F-SEP IN1-5 F-SEP IN1-6 F-SEP IN1-7 F-SEP IN1-8 F-SEP IN1-9 F-SEP IN1-10 F-SEP IN1-11 F-SEP IN1-12 F-SEP IN1-13 F-SEP IN1-14 F-SEP IN1-15 F-SEP IN1-16 F-SEP

IN1-17 F-SEP IN1-18 F-SEP IN1-19 F-SEP IN1-20 F-SEP IN1-21 F-SEP IN1-22 F-SEP IN1-23 F-SEP IN1-24 F-SEP IN1-25 F-SEP IN1-26 F-SEP IN1-27 F-SEP IN1-28 F-SEP IN1-29 F-SEP IN1-30 F-SEP IN1-31 F-SEP IN1-32 F-SEP IN1-33 F-SEP IN1-34 F-SEP IN1-35 F-SEP IN1-36 F-SEP IN1-37 F-SEP IN1-38 F-SEP IN1-39 F-SEP IN1-40 F-SEP IN1-41 F-SEP IN1-42 F-SEP IN1-43 F-SEP IN1-44 F-SEP IN1-45 F-SEP IN1-46 F-SEP IN1-47 F-SEP IN1-48 F-SEP IN1-49 F-SEP IN1-50 F-SEP IN1-51 F-SEP IN1-52 F-SEP IN1-53 F-SEP IN1-54 F-SEP IN1-55

IN2 := IN2-1 F-SEP IN2-2 F-SEP IN2-3 F-SEP IN2-4 F-SEP IN2-5 F-SEP IN2-6 F-SEP IN2-7 F-SEP IN2-8 F-SEP IN2-9 F-SEP IN2-10 F-SEP IN2-11 F-SEP IN2-12 F-SEP IN2-13 F-SEP IN2-14 F-SEP IN2-15 F-SEP IN2-16 F-SEP IN2-17 F-SEP IN2-18 F-SEP IN2-19 F-SEP IN2-20 F-SEP IN2-21 F-SEP IN2-22 F-SEP IN2-23 F-SEP IN2-24 F-SEP IN2-25 F-SEP IN2-26 F-SEP IN2-27 F-SEP IN2-28 F-SEP IN2-29 F-SEP IN2-30 F-SEP IN2-31 F-SEP IN2-32 F-SEP IN2-33 F-SEP IN2-34 F-SEP IN2-35 F-SEP IN2-36 F-SEP IN2-37 F-SEP IN2-38 F-SEP IN2-39 F-SEP IN2-40 F-SEP IN2-41 F-SEP IN2-42 F-SEP IN2-43 F-SEP IN2-44 F-SEP IN2-45 F-SEP IN2-46 F-SEP IN2-47 F-SEP IN2-48 F-SEP IN2-49 F-SEP IN2-50 F-SEP IN2-51 F-SEP IN2-52 F-SEP IN2-53 F-SEP IN2-54 F-SEP IN2-56 F-SEP IN2-56 F-SEP IN2-58 F-SEP IN2-59 F-SEP IN2-60 F-SEP IN2-61 F-SEP IN2-62 F-SEP IN2-63 F-SEP IN2-64 F-SEP IN2-65 F-SEP IN2-66 F-SEP IN2-67 F-SEP IN2-68 F-SEP IN2-69 F-SEP IN2-70 F-SEP IN2-71 F-SEP IN2-72 F-SEP IN2-73

IN3 := IN3-1 F-SEP IN3-2 F-SEP IN3-3 F-SEP IN3-4 F-SEP IN3-5 F-SEP IN3-6 F-SEP IN3-7 F-SEP IN3-8 F-SEP IN3-9 F-SEP IN3-10 F-SEP IN3-11 F-SEP IN3-12 F-SEP IN3-13 F-SEP IN3-14 F-SEP IN3-15 F-SEP IN3-16 F-SEP IN3-17 F-SEP IN3-18 F-SEP IN3-19 F-SEP IN3-20 F-SEP IN3-21 F-SEP IN3-22 F-SEP IN3-23 F-SEP IN3-24 F-SEP IN3-25 F-SEP IN3-26 F-SEP IN3-27 F-SEP IN3-28 F-SEP IN3-29 F-SEP IN3-30 F-SEP IN3-31

INV := INV-1 F-SEP INV-2 F-SEP INV-3 F-SEP INV-4 F-SEP INV-5 F-SEP INV-6 F-SEP INV-7 F-SEP INV-8 F-SEP INV-9 F-SEP INV-10 F-SEP INV-11 F-SEP INV-12 F-SEP INV-13 F-SEP INV-14 F-SEP INV-15 F-SEP INV-16 F-SEP INV-17 F-SEP INV-18 F-SEP INV-19 F-SEP INV-20 F-SEP INV-21 F-SEP INV-22

IPC := IPC-1 F-SEP IPC-2 F-SEP IPC-3 F-SEP IPC-4 F-SEP IPC-5 F-SEP IPC-6 F-SEP IPC-7 F-SEP IPC-8 F-SEP IPC-9 F-SEP IPC-10

IPR := IPR-1 F-SEP IPR-2 F-SEP IPR-3 F-SEP IPR-4 F-SEP IPR-5 F-SEP IPR-6 F-SEP IPR-7 F-SEP IPR-8

ISD := ISD-1 F-SEP ISD-2 F-SEP ISD-3

ITM := ITM-1 F-SEP ITM-2 F-SEP ITM-3 F-SEP ITM-4 F-SEP ITM-5 F-SEP ITM-6 F-SEP ITM-7 F-SEP ITM-8 F-SEP ITM-9 F-SEP ITM-10 F-SEP ITM-11 F-SEP ITM-12 F-SEP ITM-13 F-SEP ITM-14 F-SEP ITM-15 F-SEP ITM-16 F-SEP ITM-17 F-SEP ITM-18 F-SEP ITM-19 F-SEP ITM-20 F-SEP ITM-21 F-SEP ITM-22 F-SEP ITM-23 F-SEP ITM-24 F-SEP ITM-25 F-SEP ITM-26 F-SEP ITM-27 F-SEP ITM-28 F-SEP ITM-29 F-SEP ITM-30 F-SEP ITM-31 F-SEP ITM-32 F-SEP ITM-33 F-SEP ITM-34 F-SEP ITM-35 F-SEP ITM-36 F-SEP ITM-37 F-SEP ITM-38

IVC := IVC-1 F-SEP IVC-2 F-SEP IVC-3 F-SEP IVC-4 F-SEP IVC-5 F-SEP IVC-6 F-SEP IVC-7 F-SEP IVC-8 F-SEP IVC-9 F-SEP IVC-10 F-SEP IVC-11 F-SEP IVC-12 F-SEP IVC-13 F-SEP IVC-14 F-SEP IVC-15 F-SEP IVC-16 F-SEP IVC-17 F-SEP IVC-18 F-SEP IVC-19 F-SEP IVC-20 F-SEP IVC-21 F-SEP IVC-22 F-SEP IVC-23 F-SEP IVC-24 F-SEP IVC-25 F-SEP IVC-26 F-SEP IVC-27 F-SEP IVC-28 F-SEP IVC-29 F-SEP IVC-30

IVT := IVT-1 F-SEP IVT-2 F-SEP IVT-3 F-SEP IVT-4 F-SEP IVT-5 F-SEP IVT-6 F-SEP IVT-7 F-SEP IVT-8 F-SEP IVT-9 F-SEP IVT-10 F-SEP IVT-11 F-SEP IVT-12 F-SEP IVT-13 F-SEP IVT-14 F-SEP IVT-15 F-SEP IVT-16 F-SEP IVT-17 F-SEP IVT-18 F-SEP IVT-19 F-SEP IVT-20 F-SEP IVT-21 F-SEP IVT-22 F-SEP IVT-23 F-SEP IVT-24 F-SEP IVT-25 F-SEP IVT-26

LAN := LAN-1 F-SEP LAN-2 F-SEP LAN-3 F-SEP LAN-4

LCC := LCC-1 F-SEP LCC-2 F-SEP LCC-3 F-SEP LCC-4

LCH := LCH-1 F-SEP LCH-2 F-SEP LCH-3 F-SEP LCH-4 F-SEP LCH-5

LDP := LDP-1 F-SEP LDP-2 F-SEP LDP-3 F-SEP LDP-4 F-SEP LDP-5 F-SEP LDP-6 F-SEP LDP-7 F-SEP LDP-8 F-SEP LDP-9 F-SEP LDP-10 F-SEP LDP-11 F-SEP LDP-12

LOC := LOC-1 F-SEP LOC-2 F-SEP LOC-3 F-SEP LOC-4 F-SEP LOC-5 F-SEP LOC-6 F-SEP LOC-7 F-SEP LOC-8 F-SEP LOC-9

LRL := LRL-1 F-SEP LRL-2 F-SEP LRL-3 F-SEP LRL-4 F-SEP LRL-5 F-SEP LRL-6

MCP := MCP-1 F-SEP MCP-2 F-SEP MCP-3 F-SEP MCP-4 F-SEP MCP-5

MFA := MFA-1 F-SEP MFA-2 F-SEP MFA-3 F-SEP MFA-4 F-SEP MFA-5 F-SEP MFA-6

MFE := MFE-1 F-SEP MFE-2 F-SEP MFE-3 F-SEP MFE-4 F-SEP MFE-5 F-SEP MFE-6 F-SEP MFE-7

MFI := MFI-1 F-SEP MFI-2 F-SEP MFI-3 F-SEP MFI-4 F-SEP MFI-5 F-SEP MFI-6

MRG := MRG-1 F-SEP MRG-2 F-SEP MRG-3 F-SEP MRG-4 F-SEP MRG-5 F-SEP MRG-6 F-SEP MRG-7

MSA := MSA-1 F-SEP MSA-2 F-SEP MSA-3 F-SEP MSA-4 F-SEP MSA-5 F-SEP MSA-6 F-SEP MSA-7 F-SEP MSA-8

MSH := MSH-1 F-SEP MSH-2 F-SEP MSH-3 F-SEP MSH-4 F-SEP MSH-5 F-SEP MSH-6 F-SEP MSH-7 F-SEP MSH-8 F-SEP MSH-9 F-SEP MSH-10 F-SEP MSH-11 F-SEP MSH-12 F-SEP MSH-13 F-SEP MSH-14 F-SEP MSH-15 F-SEP MSH-16 F-SEP MSH-17 F-SEP MSH-18 F-SEP MSH-19 F-SEP MSH-20 F-SEP MSH-21 F-SEP MSH-22 F-SEP MSH-23 F-SEP MSH-24 F-SEP MSH-25 F-SEP MSH-26 F-SEP MSH-27 F-SEP MSH-28

NCK := NCK-1

NDS := NDS-1 F-SEP NDS-2 F-SEP NDS-3 F-SEP NDS-4

NK1 := NK1-1 F-SEP NK1-2 F-SEP NK1-3 F-SEP NK1-4 F-SEP NK1-5 F-SEP NK1-6 F-SEP NK1-7 F-SEP NK1-8 F-SEP NK1-9 F-SEP NK1-10 F-SEP NK1-11 F-SEP NK1-12 F-SEP NK1-13 F-SEP NK1-14 F-SEP NK1-15 F-SEP NK1-16 F-SEP NK1-17 F-SEP NK1-18 F-SEP NK1-19 F-SEP NK1-20 F-SEP NK1-21 F-SEP NK1-22 F-SEP NK1-23 F-SEP NK1-24 F-SEP NK1-25 F-SEP NK1-26 F-SEP NK1-27 F-SEP NK1-28 F-SEP NK1-29 F-SEP NK1-30 F-SEP NK1-31 F-SEP NK1-32 F-SEP NK1-33 F-SEP NK1-34 F-SEP NK1-35 F-SEP NK1-36 F-SEP NK1-37 F-SEP NK1-38 F-SEP NK1-39 F-SEP NK1-40 F-SEP NK1-41

NPU := NPU-1 F-SEP NPU-2

NSC := NSC-1 F-SEP NSC-2 F-SEP NSC-3 F-SEP NSC-4 F-SEP NSC-5 F-SEP NSC-6 F-SEP NSC-7 F-SEP NSC-8 F-SEP NSC-9

NST := NST-1 F-SEP NST-2 F-SEP NST-3 F-SEP NST-4 F-SEP NST-5 F-SEP NST-6 F-SEP NST-7 F-SEP NST-8 F-SEP NST-9 F-SEP NST-10 F-SEP NST-11 F-SEP NST-12 F-SEP NST-13 F-SEP NST-14 F-SEP NST-15

NTE := NTE-1 F-SEP NTE-2 F-SEP NTE-3 F-SEP NTE-4 F-SEP NTE-5 F-SEP NTE-6 F-SEP NTE-7 F-SEP NTE-8 F-SEP NTE-9

OBR := OBR-1 F-SEP OBR-2 F-SEP OBR-3 F-SEP OBR-4 F-SEP OBR-5 F-SEP OBR-6 F-SEP OBR-7 F-SEP OBR-8 F-SEP OBR-9 F-SEP OBR-10 F-SEP OBR-11 F-SEP OBR-12 F-SEP OBR-13 F-SEP OBR-14 F-SEP OBR-15 F-SEP OBR-16 F-SEP OBR-17 F-SEP OBR-18 F-SEP OBR-19 F-SEP OBR-20 F-SEP OBR-21 F-SEP OBR-22 F-SEP OBR-23 F-SEP OBR-24 F-SEP OBR-25 F-SEP OBR-26 F-SEP OBR-27 F-SEP OBR-28 F-SEP OBR-29 F-SEP OBR-30 F-SEP OBR-31 F-SEP OBR-32 F-SEP OBR-33 F-SEP OBR-34 F-SEP OBR-35 F-SEP OBR-36 F-SEP OBR-37 F-SEP OBR-38 F-SEP OBR-39 F-SEP OBR-40 F-SEP OBR-41 F-SEP OBR-42 F-SEP OBR-43 F-SEP OBR-44 F-SEP OBR-45 F-SEP OBR-46 F-SEP OBR-47 F-SEP OBR-48 F-SEP OBR-49 F-SEP OBR-50 F-SEP OBR-51 F-SEP OBR-52 F-SEP OBR-53 F-SEP OBR-54 F-SEP OBR-55

OBX := OBX-1 F-SEP OBX-2 F-SEP OBX-3 F-SEP OBX-4 F-SEP OBX-5 F-SEP OBX-6 F-SEP OBX-7 F-SEP OBX-8 F-SEP OBX-9 F-SEP OBX-10 F-SEP OBX-11 F-SEP OBX-12 F-SEP OBX-13 F-SEP OBX-14 F-SEP OBX-15 F-SEP OBX-16 F-SEP OBX-17 F-SEP OBX-18 F-SEP OBX-19 F-SEP OBX-20 F-SEP OBX-21 F-SEP OBX-22 F-SEP OBX-23 F-SEP OBX-24 F-SEP OBX-25 F-SEP OBX-26 F-SEP OBX-27 F-SEP OBX-28 F-SEP OBX-29 F-SEP OBX-30 F-SEP OBX-31 F-SEP OBX-32 F-SEP OBX-33

ODS := ODS-1 F-SEP ODS-2 F-SEP ODS-3 F-SEP ODS-4

ODT := ODT-1 F-SEP ODT-2 F-SEP ODT-3

OH1 := OH1-1 F-SEP OH1-2 F-SEP OH1-3 F-SEP OH1-4 F-SEP OH1-5 F-SEP OH1-6 F-SEP OH1-7

OH2 := OH2-1 F-SEP OH2-2 F-SEP OH2-3 F-SEP OH2-4 F-SEP OH2-5 F-SEP OH2-6 F-SEP OH2-7 F-SEP OH2-8 F-SEP OH2-9 F-SEP OH2-10 F-SEP OH2-11 F-SEP OH2-12 F-SEP OH2-13 F-SEP OH2-14 F-SEP OH2-15 F-SEP OH2-16 F-SEP OH2-17 F-SEP OH2-18

OH3 := OH3-1 F-SEP OH3-2 F-SEP OH3-3 F-SEP OH3-4 F-SEP OH3-5 F-SEP OH3-6 F-SEP OH3-7 F-SEP OH3-8

OH4 := OH4-1 F-SEP OH4-2 F-SEP OH4-3 F-SEP OH4-4 F-SEP OH4-5 F-SEP OH4-6

OM1 := OM1-1 F-SEP OM1-2 F-SEP OM1-3 F-SEP OM1-4 F-SEP OM1-5 F-SEP OM1-6 F-SEP OM1-7 F-SEP OM1-8 F-SEP OM1-9 F-SEP OM1-10 F-SEP OM1-11 F-SEP OM1-12 F-SEP OM1-13 F-SEP OM1-14 F-SEP OM1-15 F-SEP OM1-16 F-SEP OM1-17 F-SEP OM1-18 F-SEP OM1-19 F-SEP OM1-20 F-SEP OM1-21 F-SEP OM1-22 F-SEP OM1-23 F-SEP OM1-24 F-SEP OM1-25 F-SEP OM1-26 F-SEP OM1-27 F-SEP OM1-28 F-SEP OM1-29 F-SEP OM1-30 F-SEP OM1-31 F-SEP OM1-32 F-SEP OM1-33 F-SEP OM1-34 F-SEP OM1-35 F-SEP OM1-36 F-SEP OM1-37 F-SEP OM1-38 F-SEP OM1-39 F-SEP OM1-40 F-SEP OM1-41 F-SEP OM1-42 F-SEP OM1-43 F-SEP OM1-44 F-SEP OM1-45 F-SEP OM1-46 F-SEP OM1-47 F-SEP OM1-48 F-SEP OM1-49 F-SEP OM1-50 F-SEP OM1-51 F-SEP OM1-52 F-SEP OM1-53 F-SEP OM1-59

OM2 := OM2-1 F-SEP OM2-2 F-SEP OM2-3 F-SEP OM2-4 F-SEP OM2-5 F-SEP OM2-6 F-SEP OM2-7 F-SEP OM2-8 F-SEP OM2-9 F-SEP OM2-10

OM3 := OM3-1 F-SEP OM3-2 F-SEP OM3-3 F-SEP OM3-4 F-SEP OM3-5 F-SEP OM3-6 F-SEP OM3-7

OM4 := OM4-1 F-SEP OM4-2 F-SEP OM4-3 F-SEP OM4-4 F-SEP OM4-5 F-SEP OM4-6 F-SEP OM4-7 F-SEP OM4-8 F-SEP OM4-9 F-SEP OM4-10 F-SEP OM4-11 F-SEP OM4-12 F-SEP OM4-13 F-SEP OM4-14 F-SEP OM4-15 F-SEP OM4-16 F-SEP OM4-17 F-SEP OM4-18

OM5 := OM5-1 F-SEP OM5-2 F-SEP OM5-3

OM6 := OM6-1 F-SEP OM6-2

OM7 := OM7-1 F-SEP OM7-2 F-SEP OM7-3 F-SEP OM7-4 F-SEP OM7-5 F-SEP OM7-6 F-SEP OM7-7 F-SEP OM7-8 F-SEP OM7-9 F-SEP OM7-10 F-SEP OM7-11 F-SEP OM7-12 F-SEP OM7-13 F-SEP OM7-14 F-SEP OM7-15 F-SEP OM7-16 F-SEP OM7-17 F-SEP OM7-18 F-SEP OM7-19 F-SEP OM7-20 F-SEP OM7-21 F-SEP OM7-22 F-SEP OM7-23 F-SEP OM7-24

OMC := OMC-1 F-SEP OMC-2 F-SEP OMC-3 F-SEP OMC-4 F-SEP OMC-5 F-SEP OMC-6 F-SEP OMC-7 F-SEP OMC-8 F-SEP OMC-9 F-SEP OMC-10 F-SEP OMC-11 F-SEP OMC-12 F-SEP OMC-13

ORC := ORC-1 F-SEP ORC-2 F-SEP ORC-3 F-SEP ORC-4 F-SEP ORC-5 F-SEP ORC-6 F-SEP ORC-7 F-SEP ORC-8 F-SEP ORC-9 F-SEP ORC-10 F-SEP ORC-11 F-

SEP ORC-12 F-SEP ORC-13 F-SEP ORC-14 F-SEP ORC-15 F-SEP ORC-16 F-SEP ORC-17 F-SEP ORC-18 F-SEP ORC-19 F-SEP ORC-20 F-SEP ORC-21 F-SEP ORC-22 F-SEP ORC-23 F-SEP ORC-24 F-SEP ORC-25 F-SEP ORC-26 F-SEP ORC-27 F-SEP ORC-28 F-SEP ORC-29 F-SEP ORC-30 F-SEP ORC-31 F-SEP ORC-32 F-SEP ORC-33 F-SEP ORC-34 F-SEP ORC-35 F-SEP ORC-36 F-SEP ORC-37 F-SEP ORC-38

ORG := ORG-1 F-SEP ORG-2 F-SEP ORG-3 F-SEP ORG-4 F-SEP ORG-5 F-SEP ORG-6 F-SEP ORG-7 F-SEP ORG-8 F-SEP ORG-9 F-SEP ORG-10 F-SEP ORG-11 F-SEP ORG-12 F-SEP ORG-13

OVR := OVR-1 F-SEP OVR-2 F-SEP OVR-3 F-SEP OVR-4 F-SEP OVR-5

PAC := PAC-1 F-SEP PAC-2 F-SEP PAC-3 F-SEP PAC-4 F-SEP PAC-5 F-SEP PAC-6 F-SEP PAC-7 F-SEP PAC-8 F-SEP PAC-9

PCE := PCE-1 F-SEP PCE-2 F-SEP PCE-3 F-SEP PCE-4

PCR := PCR-1 F-SEP PCR-2 F-SEP PCR-3 F-SEP PCR-4 F-SEP PCR-5 F-SEP PCR-6 F-SEP PCR-7 F-SEP PCR-8 F-SEP PCR-9 F-SEP PCR-10 F-SEP PCR-11 F-SEP PCR-12 F-SEP PCR-13 F-SEP PCR-14 F-SEP PCR-15 F-SEP PCR-16 F-SEP PCR-17 F-SEP PCR-18 F-SEP PCR-19 F-SEP PCR-20 F-SEP PCR-21 F-SEP PCR-22 F-SEP PCR-23

PD1 := PD1-1 F-SEP PD1-2 F-SEP PD1-3 F-SEP PD1-4 F-SEP PD1-5 F-SEP PD1-6 F-SEP PD1-7 F-SEP PD1-8 F-SEP PD1-9 F-SEP PD1-10 F-SEP PD1-11 F-SEP PD1-12 F-SEP PD1-13 F-SEP PD1-14 F-SEP PD1-15 F-SEP PD1-16 F-SEP PD1-17 F-SEP PD1-18 F-SEP PD1-19 F-SEP PD1-20 F-SEP PD1-21 F-SEP PD1-22 F-SEP PD1-23

PDA := PDA-1 F-SEP PDA-2 F-SEP PDA-3 F-SEP PDA-4 F-SEP PDA-5 F-SEP PDA-6 F-SEP PDA-7 F-SEP PDA-8 F-SEP PDA-9

PDC := PDC-1 F-SEP PDC-2 F-SEP PDC-3 F-SEP PDC-4 F-SEP PDC-5 F-SEP PDC-6 F-SEP PDC-7 F-SEP PDC-8 F-SEP PDC-9 F-SEP PDC-10 F-SEP PDC-11 F-SEP PDC-12 F-SEP PDC-13 F-SEP PDC-14 F-SEP PDC-15

PEO := PEO-1 F-SEP PEO-2 F-SEP PEO-3 F-SEP PEO-4 F-SEP PEO-5 F-SEP PEO-6 F-SEP PEO-7 F-SEP PEO-8 F-SEP PEO-9 F-SEP PEO-10 F-SEP PEO-11 F-SEP PEO-12 F-SEP PEO-13 F-SEP PEO-14 F-SEP PEO-15 F-SEP PEO-16 F-SEP PEO-17 F-SEP PEO-18 F-SEP PEO-19 F-SEP PEO-20 F-SEP PEO-21 F-SEP PEO-22 F-SEP PEO-23 F-SEP PEO-24 F-SEP PEO-25

PES := PES-1 F-SEP PES-2 F-SEP PES-3 F-SEP PES-4 F-SEP PES-5 F-SEP PES-6 F-SEP PES-7 F-SEP PES-8 F-SEP PES-9 F-SEP PES-10 F-SEP PES-11 F-SEP PES-12 F-SEP PES-13

PID := PID-1 F-SEP PID-2 F-SEP PID-3 F-SEP PID-4 F-SEP PID-5 F-SEP PID-6 F-SEP PID-7 F-SEP PID-8 F-SEP PID-9 F-SEP PID-10 F-SEP PID-11 F-SEP PID-12 F-SEP PID-13 F-SEP PID-14 F-SEP PID-15 F-SEP PID-16 F-SEP PID-17 F-SEP PID-18 F-SEP PID-19 F-SEP PID-20 F-SEP PID-21 F-SEP PID-22 F-SEP PID-23 F-SEP PID-24 F-SEP PID-25 F-SEP PID-26 F-SEP PID-27 F-SEP PID-28 F-SEP PID-29 F-SEP PID-30 F-SEP PID-31 F-SEP PID-32 F-SEP PID-33 F-SEP PID-34 F-SEP PID-35 F-SEP PID-36 F-SEP PID-37 F-SEP PID-38 F-SEP PID-39 F-SEP PID-40

PKG := PKG-1 F-SEP PKG-2 F-SEP PKG-3 F-SEP PKG-4 F-SEP PKG-5 F-SEP PKG-6 F-SEP PKG-7 F-SEP PKG-8 F-SEP PKG-9 F-SEP PKG-10 F-SEP PKG-11

PM1 := PM1-1 F-SEP PM1-2 F-SEP PM1-3 F-SEP PM1-4 F-SEP PM1-5 F-SEP PM1-6 F-SEP PM1-7 F-SEP PM1-8 F-SEP PM1-9 F-SEP PM1-10 F-SEP PM1-11 F-SEP PM1-12 F-SEP PM1-13 F-SEP PM1-14 F-SEP PM1-15 F-SEP PM1-16 F-SEP PM1-17 F-SEP PM1-18 F-SEP PM1-19 F-SEP PM1-20 F-SEP PM1-21 F-SEP PM1-22 F-SEP PM1-23 F-SEP PM1-24

PMT := PMT-1 F-SEP PMT-2 F-SEP PMT-3 F-SEP PMT-4 F-SEP PMT-5 F-SEP PMT-6 F-SEP PMT-7 F-SEP PMT-8 F-SEP PMT-9 F-SEP PMT-10 F-SEP PMT-11 F-SEP PMT-12

PR1 := PR1-1 F-SEP PR1-2 F-SEP PR1-3 F-SEP PR1-4 F-SEP PR1-5 F-SEP
PR1-6 F-SEP PR1-7 F-SEP PR1-8 F-SEP PR1-9 F-SEP PR1-10 F-SEP PR1-11 FSEP PR1-12 F-SEP PR1-13 F-SEP PR1-14 F-SEP PR1-15 F-SEP PR1-16 F-SEP
PR1-17 F-SEP PR1-18 F-SEP PR1-19 F-SEP PR1-20 F-SEP PR1-21 F-SEP PR122 F-SEP PR1-23 F-SEP PR1-24 F-SEP PR1-25

PRA := PRA-1 F-SEP PRA-2 F-SEP PRA-3 F-SEP PRA-4 F-SEP PRA-5 F-SEP PRA-6 F-SEP PRA-7 F-SEP PRA-8 F-SEP PRA-9 F-SEP PRA-10 F-SEP PRA-11 F-SEP PRA-12

PRB := PRB-1 F-SEP PRB-2 F-SEP PRB-3 F-SEP PRB-4 F-SEP PRB-5 F-SEP PRB-6 F-SEP PRB-7 F-SEP PRB-8 F-SEP PRB-9 F-SEP PRB-10 F-SEP PRB-11 F-SEP PRB-12 F-SEP PRB-13 F-SEP PRB-14 F-SEP PRB-15 F-SEP PRB-16 F-SEP PRB-17 F-SEP PRB-18 F-SEP PRB-19 F-SEP PRB-20 F-SEP PRB-21 F-SEP PRB-

22 F-SEP PRB-23 F-SEP PRB-24 F-SEP PRB-25 F-SEP PRB-26 F-SEP PRB-27 F-SEP PRB-28

PRC := PRC-1 F-SEP PRC-2 F-SEP PRC-3 F-SEP PRC-4 F-SEP PRC-5 F-SEP PRC-6 F-SEP PRC-7 F-SEP PRC-8 F-SEP PRC-9 F-SEP PRC-10 F-SEP PRC-11 F-SEP PRC-12 F-SEP PRC-13 F-SEP PRC-14 F-SEP PRC-15 F-SEP PRC-16 F-SEP PRC-17 F-SEP PRC-18

PRD := PRD-1 F-SEP PRD-2 F-SEP PRD-3 F-SEP PRD-4 F-SEP PRD-5 F-SEP PRD-6 F-SEP PRD-7 F-SEP PRD-8 F-SEP PRD-9 F-SEP PRD-10 F-SEP PRD-11 F-SEP PRD-12 F-SEP PRD-13 F-SEP PRD-14

PRT := PRT-1 F-SEP PRT-2 F-SEP PRT-3 F-SEP PRT-4 F-SEP PRT-5 F-SEP
PRT-6 F-SEP PRT-7 F-SEP PRT-8 F-SEP PRT-9 F-SEP PRT-10 F-SEP PRT-11 FSEP PRT-12 F-SEP PRT-13 F-SEP PRT-14 F-SEP PRT-15 F-SEP PRT-16 F-SEP
PRT-17 F-SEP PRT-18 F-SEP PRT-19 F-SEP PRT-20 F-SEP PRT-21 F-SEP PRT22 F-SEP PRT-23 F-SEP PRT-24

PSG := PSG-1 F-SEP PSG-2 F-SEP PSG-3 F-SEP PSG-4 F-SEP PSG-5 F-SEP PSG-6

PSH := PSH-1 F-SEP PSH-2 F-SEP PSH-3 F-SEP PSH-4 F-SEP PSH-5 F-SEP PSH-6 F-SEP PSH-7 F-SEP PSH-8 F-SEP PSH-9 F-SEP PSH-10 F-SEP PSH-11 F-SEP PSH-12 F-SEP PSH-13 F-SEP PSH-14

PSL := PSL-1 F-SEP PSL-2 F-SEP PSL-3 F-SEP PSL-4 F-SEP PSL-5 F-SEP PSL-6 F-SEP PSL-7 F-SEP PSL-8 F-SEP PSL-9 F-SEP PSL-10 F-SEP PSL-11 F-SEP PSL-12 F-SEP PSL-13 F-SEP PSL-14 F-SEP PSL-15 F-SEP PSL-16 F-SEP PSL-17 F-SEP PSL-18 F-SEP PSL-19 F-SEP PSL-20 F-SEP PSL-21 F-SEP PSL-22 F-SEP PSL-23 F-SEP PSL-24 F-SEP PSL-25 F-SEP PSL-26 F-SEP PSL-27 F-SEP PSL-28 F-SEP PSL-29 F-SEP PSL-30 F-SEP PSL-31 F-SEP PSL-32 F-SEP PSL-33 F-SEP PSL-34 F-SEP PSL-35 F-SEP PSL-36 F-SEP PSL-37 F-SEP PSL-38 F-SEP PSL-39 F-SEP PSL-40 F-SEP PSL-41 F-SEP PSL-42 F-SEP PSL-43 F-SEP PSL-44 F-SEP PSL-45 F-SEP PSL-46 F-SEP PSL-47 F-SEP PSL-48

PSS := PSS-1 F-SEP PSS-2 F-SEP PSS-3 F-SEP PSS-4 F-SEP PSS-5

PTH := PTH-1 F-SEP PTH-2 F-SEP PTH-3 F-SEP PTH-4 F-SEP PTH-5 F-SEP PTH-6 F-SEP PTH-7

PV1 := PV1-1 F-SEP PV1-2 F-SEP PV1-3 F-SEP PV1-4 F-SEP PV1-5 F-SEP PV1-6 F-SEP PV1-7 F-SEP PV1-8 F-SEP PV1-9 F-SEP PV1-10 F-SEP PV1-11 F-

SEP PV1-12 F-SEP PV1-13 F-SEP PV1-14 F-SEP PV1-15 F-SEP PV1-16 F-SEP PV1-17 F-SEP PV1-18 F-SEP PV1-19 F-SEP PV1-20 F-SEP PV1-21 F-SEP PV1-22 F-SEP PV1-23 F-SEP PV1-24 F-SEP PV1-25 F-SEP PV1-26 F-SEP PV1-27 F-SEP PV1-28 F-SEP PV1-29 F-SEP PV1-30 F-SEP PV1-31 F-SEP PV1-32 F-SEP PV1-33 F-SEP PV1-34 F-SEP PV1-35 F-SEP PV1-36 F-SEP PV1-37 F-SEP PV1-38 F-SEP PV1-39 F-SEP PV1-40 F-SEP PV1-41 F-SEP PV1-42 F-SEP PV1-43 F-SEP PV1-44 F-SEP PV1-45 F-SEP PV1-46 F-SEP PV1-47 F-SEP PV1-48 F-SEP PV1-49 F-SEP PV1-50 F-SEP PV1-51 F-SEP PV1-52 F-SEP PV1-53 F-SEP PV1-54

PV2 := PV2-1 F-SEP PV2-2 F-SEP PV2-3 F-SEP PV2-4 F-SEP PV2-5 F-SEP PV2-6 F-SEP PV2-7 F-SEP PV2-8 F-SEP PV2-9 F-SEP PV2-10 F-SEP PV2-11 F-SEP PV2-12 F-SEP PV2-13 F-SEP PV2-14 F-SEP PV2-15 F-SEP PV2-16 F-SEP PV2-17 F-SEP PV2-18 F-SEP PV2-19 F-SEP PV2-20 F-SEP PV2-21 F-SEP PV2-22 F-SEP PV2-23 F-SEP PV2-24 F-SEP PV2-25 F-SEP PV2-26 F-SEP PV2-27 F-SEP PV2-28 F-SEP PV2-29 F-SEP PV2-30 F-SEP PV2-31 F-SEP PV2-32 F-SEP PV2-33 F-SEP PV2-34 F-SEP PV2-35 F-SEP PV2-36 F-SEP PV2-37 F-SEP PV2-38 F-SEP PV2-39 F-SEP PV2-40 F-SEP PV2-41 F-SEP PV2-42 F-SEP PV2-43 F-SEP PV2-44 F-SEP PV2-45 F-SEP PV2-46 F-SEP PV2-47 F-SEP PV2-48 F-SEP PV2-49 F-SEP PV2-50

PYE := PYE-1 F-SEP PYE-2 F-SEP PYE-3 F-SEP PYE-4 F-SEP PYE-5 F-SEP PYE-6 F-SEP PYE-7

QAK := QAK-1 F-SEP QAK-2 F-SEP QAK-3 F-SEP QAK-4 F-SEP QAK-5 F-SEP QAK-6

QID := QID-1 F-SEP QID-2

QPD := QPD-1 F-SEP QPD-2 F-SEP QPD-3

QRI := QRI-1 F-SEP QRI-2 F-SEP QRI-3

RCP := RCP-1 F-SEP RCP-2 F-SEP RCP-3 F-SEP RCP-4 F-SEP RCP-5 F-SEP RCP-6 F-SEP RCP-7

RDF := RDF-1 F-SEP RDF-2

RDT := RDT-1

REL := REL-1 F-SEP REL-2 F-SEP REL-3 F-SEP REL-4 F-SEP REL-5 F-SEP REL-6 F-SEP REL-7 F-SEP REL-8 F-SEP REL-9 F-SEP REL-10 F-SEP REL-11 F-SEP REL-12 F-SEP REL-13 F-SEP REL-14 F-SEP REL-15 F-SEP REL-16 F-SEP REL-17 F-SEP REL-18

RF1 := RF1-1 F-SEP RF1-2 F-SEP RF1-3 F-SEP RF1-4 F-SEP RF1-5 F-SEP RF1-6 F-SEP RF1-7 F-SEP RF1-8 F-SEP RF1-9 F-SEP RF1-10 F-SEP RF1-11 F-SEP RF1-12 F-SEP RF1-13 F-SEP RF1-14 F-SEP RF1-15 F-SEP RF1-16 F-SEP RF1-17 F-SEP RF1-18 F-SEP RF1-19 F-SEP RF1-20 F-SEP RF1-21 F-SEP RF1-22 F-SEP RF1-23 F-SEP RF1-24 F-SEP RF1-25

RFI := RFI-1 F-SEP RFI-2 F-SEP RFI-3 F-SEP RFI-4

RGS := RGS-1 F-SEP RGS-2 F-SEP RGS-3

RMI := RMI-1 F-SEP RMI-2 F-SEP RMI-3

ROL := ROL-1 F-SEP ROL-2 F-SEP ROL-3 F-SEP ROL-4 F-SEP ROL-5 F-SEP ROL-6 F-SEP ROL-7 F-SEP ROL-8 F-SEP ROL-9 F-SEP ROL-10 F-SEP ROL-11 F-SEP ROL-12 F-SEP ROL-13 F-SEP ROL-14

RQ1 := RQ1-1 F-SEP RQ1-2 F-SEP RQ1-3 F-SEP RQ1-4 F-SEP RQ1-5 F-SEP RQ1-6 F-SEP RQ1-7

RQD := RQD-1 F-SEP RQD-2 F-SEP RQD-3 F-SEP RQD-4 F-SEP RQD-5 F-SEP RQD-6 F-SEP RQD-7 F-SEP RQD-8 F-SEP RQD-9 F-SEP RQD-10

RXA := RXA-1 F-SEP RXA-2 F-SEP RXA-3 F-SEP RXA-4 F-SEP RXA-5 F-SEP RXA-6 F-SEP RXA-7 F-SEP RXA-8 F-SEP RXA-9 F-SEP RXA-10 F-SEP RXA-11 F-SEP RXA-12 F-SEP RXA-13 F-SEP RXA-14 F-SEP RXA-15 F-SEP RXA-16 F-SEP RXA-17 F-SEP RXA-18 F-SEP RXA-19 F-SEP RXA-20 F-SEP RXA-21 F-SEP RXA-22 F-SEP RXA-23 F-SEP RXA-24 F-SEP RXA-25 F-SEP RXA-26 F-SEP RXA-27 F-SEP RXA-28 F-SEP RXA-29

RXC := RXC-1 F-SEP RXC-2 F-SEP RXC-3 F-SEP RXC-4 F-SEP RXC-5 F-SEP RXC-6 F-SEP RXC-7 F-SEP RXC-8 F-SEP RXC-9 F-SEP RXC-10 F-SEP RXC-11

RXD := RXD-1 F-SEP RXD-2 F-SEP RXD-3 F-SEP RXD-4 F-SEP RXD-5 F-SEP RXD-6 F-SEP RXD-7 F-SEP RXD-8 F-SEP RXD-9 F-SEP RXD-10 F-SEP RXD-11 F-SEP RXD-12 F-SEP RXD-13 F-SEP RXD-14 F-SEP RXD-15 F-SEP RXD-16 F-SEP RXD-17 F-SEP RXD-18 F-SEP RXD-19 F-SEP RXD-20 F-SEP RXD-21 F-SEP RXD-

22 F-SEP RXD-23 F-SEP RXD-24 F-SEP RXD-25 F-SEP RXD-26 F-SEP RXD-27 F-SEP RXD-28 F-SEP RXD-29 F-SEP RXD-30 F-SEP RXD-31 F-SEP RXD-32 F-SEP RXD-33 F-SEP RXD-34 F-SEP RXD-35

RXE := RXE-1 F-SEP RXE-2 F-SEP RXE-3 F-SEP RXE-4 F-SEP RXE-5 F-SEP RXE-6 F-SEP RXE-7 F-SEP RXE-8 F-SEP RXE-9 F-SEP RXE-10 F-SEP RXE-11 F-SEP RXE-12 F-SEP RXE-13 F-SEP RXE-14 F-SEP RXE-15 F-SEP RXE-16 F-SEP RXE-17 F-SEP RXE-18 F-SEP RXE-19 F-SEP RXE-20 F-SEP RXE-21 F-SEP RXE-22 F-SEP RXE-23 F-SEP RXE-24 F-SEP RXE-25 F-SEP RXE-26 F-SEP RXE-27 F-SEP RXE-28 F-SEP RXE-29 F-SEP RXE-30 F-SEP RXE-31 F-SEP RXE-32 F-SEP RXE-33 F-SEP RXE-34 F-SEP RXE-35 F-SEP RXE-36 F-SEP RXE-37 F-SEP RXE-38 F-SEP RXE-39 F-SEP RXE-40 F-SEP RXE-41 F-SEP RXE-42 F-SEP RXE-43 F-SEP RXE-44 F-SEP RXE-45

RXG := RXG-1 F-SEP RXG-2 F-SEP RXG-3 F-SEP RXG-4 F-SEP RXG-5 F-SEP RXG-6 F-SEP RXG-7 F-SEP RXG-8 F-SEP RXG-9 F-SEP RXG-10 F-SEP RXG-11 F-SEP RXG-12 F-SEP RXG-13 F-SEP RXG-14 F-SEP RXG-15 F-SEP RXG-16 F-SEP RXG-17 F-SEP RXG-18 F-SEP RXG-19 F-SEP RXG-20 F-SEP RXG-21 F-SEP RXG-22 F-SEP RXG-23 F-SEP RXG-24 F-SEP RXG-25 F-SEP RXG-26 F-SEP RXG-27 F-SEP RXG-28 F-SEP RXG-29 F-SEP RXG-30 F-SEP RXG-31 F-SEP RXG-32 F-SEP RXG-33

RXO := RXO-1 F-SEP RXO-2 F-SEP RXO-3 F-SEP RXO-4 F-SEP RXO-5 F-SEP RXO-6 F-SEP RXO-7 F-SEP RXO-8 F-SEP RXO-9 F-SEP RXO-10 F-SEP RXO-11 F-SEP RXO-12 F-SEP RXO-13 F-SEP RXO-14 F-SEP RXO-15 F-SEP RXO-16 F-SEP RXO-17 F-SEP RXO-18 F-SEP RXO-19 F-SEP RXO-20 F-SEP RXO-21 F-SEP RXO-22 F-SEP RXO-23 F-SEP RXO-24 F-SEP RXO-25 F-SEP RXO-26 F-SEP RXO-27 F-SEP RXO-28 F-SEP RXO-29 F-SEP RXO-30 F-SEP RXO-31 F-SEP RXO-32 F-SEP RXO-33 F-SEP RXO-34 F-SEP RXO-35 F-SEP RXO-36

RXR := RXR-1 F-SEP RXR-2 F-SEP RXR-3 F-SEP RXR-4 F-SEP RXR-5 F-SEP RXR-6

RXV := RXV-1 F-SEP RXV-2 F-SEP RXV-3 F-SEP RXV-4 F-SEP RXV-5 F-SEP RXV-6 F-SEP RXV-7 F-SEP RXV-8 F-SEP RXV-9 F-SEP RXV-10 F-SEP RXV-11 F-SEP RXV-12 F-SEP RXV-13 F-SEP RXV-14 F-SEP RXV-15 F-SEP RXV-16 F-SEP RXV-17 F-SEP RXV-18 F-SEP RXV-19 F-SEP RXV-20 F-SEP RXV-21 F-SEP RXV-22

SAC := SAC-1 F-SEP SAC-2 F-SEP SAC-3 F-SEP SAC-4 F-SEP SAC-5 F-SEP SAC-6 F-SEP SAC-7 F-SEP SAC-8 F-SEP SAC-9 F-SEP SAC-10 F-SEP SAC-11 F-SEP SAC-12 F-SEP SAC-13 F-SEP SAC-14 F-SEP SAC-15 F-SEP SAC-16 F-SEP SAC-17 F-SEP SAC-18 F-SEP SAC-19 F-SEP SAC-20 F-SEP SAC-21 F-SEP SAC-22 F-SEP SAC-23 F-SEP SAC-24 F-SEP SAC-25 F-SEP SAC-26 F-SEP SAC-27 F-

SEP SAC-28 F-SEP SAC-29 F-SEP SAC-30 F-SEP SAC-31 F-SEP SAC-32 F-SEP SAC-33 F-SEP SAC-34 F-SEP SAC-35 F-SEP SAC-36 F-SEP SAC-37 F-SEP SAC-38 F-SEP SAC-39 F-SEP SAC-40 F-SEP SAC-41 F-SEP SAC-42 F-SEP SAC-43 F-SEP SAC-44 F-SEP SAC-45 F-SEP SAC-46 F-SEP SAC-47 F-SEP SAC-48 F-SEP SAC-49

SCD := SCD-1 F-SEP SCD-2 F-SEP SCD-3 F-SEP SCD-4 F-SEP SCD-5 F-SEP SCD-6 F-SEP SCD-7 F-SEP SCD-8 F-SEP SCD-9 F-SEP SCD-10 F-SEP SCD-11 F-SEP SCD-12 F-SEP SCD-13 F-SEP SCD-14 F-SEP SCD-15 F-SEP SCD-16 F-SEP SCD-17 F-SEP SCD-18 F-SEP SCD-19 F-SEP SCD-20 F-SEP SCD-21 F-SEP SCD-22 F-SEP SCD-23 F-SEP SCD-24 F-SEP SCD-25 F-SEP SCD-26 F-SEP SCD-27 F-SEP SCD-28 F-SEP SCD-29 F-SEP SCD-30 F-SEP SCD-31 F-SEP SCD-32 F-SEP SCD-33 F-SEP SCD-34 F-SEP SCD-35 F-SEP SCD-36 F-SEP SCD-37

SCH := SCH-1 F-SEP SCH-2 F-SEP SCH-3 F-SEP SCH-4 F-SEP SCH-5 F-SEP SCH-6 F-SEP SCH-7 F-SEP SCH-8 F-SEP SCH-9 F-SEP SCH-10 F-SEP SCH-11 F-SEP SCH-12 F-SEP SCH-13 F-SEP SCH-14 F-SEP SCH-15 F-SEP SCH-16 F-SEP SCH-17 F-SEP SCH-18 F-SEP SCH-19 F-SEP SCH-20 F-SEP SCH-21 F-SEP SCH-22 F-SEP SCH-23 F-SEP SCH-24 F-SEP SCH-25 F-SEP SCH-26 F-SEP SCH-27 F-SEP SCH-28

SCP := SCP-1 F-SEP SCP-2 F-SEP SCP-3 F-SEP SCP-4 F-SEP SCP-5 F-SEP SCP-6 F-SEP SCP-7 F-SEP SCP-8

SDD := SDD-1 F-SEP SDD-2 F-SEP SDD-3 F-SEP SDD-4 F-SEP SDD-5 F-SEP SDD-6 F-SEP SDD-7

SFT := SFT-1 F-SEP SFT-2 F-SEP SFT-3 F-SEP SFT-4 F-SEP SFT-5 F-SEP SFT-6

SGH := SGH-1 F-SEP SGH-2

SGT := SGT-1 F-SEP SGT-2

SHP := SHP-1 F-SEP SHP-2 F-SEP SHP-3 F-SEP SHP-4 F-SEP SHP-5 F-SEP SHP-6 F-SEP SHP-7 F-SEP SHP-8 F-SEP SHP-9 F-SEP SHP-10 F-SEP SHP-11 F-SEP SHP-12

SID := SID-1 F-SEP SID-2 F-SEP SID-3 F-SEP SID-4

SLT := SLT-1 F-SEP SLT-2 F-SEP SLT-3 F-SEP SLT-4 F-SEP SLT-5

SPM := SPM-1 F-SEP SPM-2 F-SEP SPM-3 F-SEP SPM-4 F-SEP SPM-5 F-SEP SPM-6 F-SEP SPM-7 F-SEP SPM-8 F-SEP SPM-9 F-SEP SPM-10 F-SEP SPM-11 F-SEP SPM-12 F-SEP SPM-13 F-SEP SPM-14 F-SEP SPM-15 F-SEP SPM-16 F-SEP SPM-17 F-SEP SPM-18 F-SEP SPM-19 F-SEP SPM-20 F-SEP SPM-21 F-SEP SPM-22 F-SEP SPM-23 F-SEP SPM-24 F-SEP SPM-25 F-SEP SPM-26 F-SEP SPM-27 F-SEP SPM-28 F-SEP SPM-29 F-SEP SPM-30 F-SEP SPM-31 F-SEP SPM-32 F-SEP SPM-33 F-SEP SPM-34 F-SEP SPM-35

STF := STF-1 F-SEP STF-2 F-SEP STF-3 F-SEP STF-4 F-SEP STF-5 F-SEP STF-6 F-SEP STF-7 F-SEP STF-8 F-SEP STF-9 F-SEP STF-10 F-SEP STF-11 F-SEP STF-12 F-SEP STF-13 F-SEP STF-14 F-SEP STF-15 F-SEP STF-16 F-SEP STF-17 F-SEP STF-18 F-SEP STF-19 F-SEP STF-20 F-SEP STF-21 F-SEP STF-22 F-SEP STF-23 F-SEP STF-24 F-SEP STF-25 F-SEP STF-26 F-SEP STF-27 F-SEP STF-28 F-SEP STF-29 F-SEP STF-30 F-SEP STF-31 F-SEP STF-32 F-SEP STF-33 F-SEP STF-34 F-SEP STF-35 F-SEP STF-36 F-SEP STF-37 F-SEP STF-38 F-SEP STF-39 F-SEP STF-40 F-SEP STF-41

STZ := STZ-1 F-SEP STZ-2 F-SEP STZ-3 F-SEP STZ-4

TCC := TCC-1 F-SEP TCC-2 F-SEP TCC-3 F-SEP TCC-4 F-SEP TCC-5 F-SEP TCC-6 F-SEP TCC-7 F-SEP TCC-8 F-SEP TCC-9 F-SEP TCC-10 F-SEP TCC-11 F-SEP TCC-12 F-SEP TCC-13 F-SEP TCC-14 F-SEP TCC-15

TCD := TCD-1 F-SEP TCD-2 F-SEP TCD-3 F-SEP TCD-4 F-SEP TCD-5 F-SEP TCD-6 F-SEP TCD-7 F-SEP TCD-8 F-SEP TCD-9 F-SEP TCD-10 F-SEP TCD-11

TQ1 := TQ1-1 F-SEP TQ1-2 F-SEP TQ1-3 F-SEP TQ1-4 F-SEP TQ1-5 F-SEP TQ1-6 F-SEP TQ1-7 F-SEP TQ1-8 F-SEP TQ1-9 F-SEP TQ1-10 F-SEP TQ1-11 F-SEP TQ1-12 F-SEP TQ1-13 F-SEP TQ1-14

TQ2 := TQ2-1 F-SEP TQ2-2 F-SEP TQ2-3 F-SEP TQ2-4 F-SEP TQ2-5 F-SEP TQ2-6 F-SEP TQ2-7 F-SEP TQ2-8 F-SEP TQ2-9 F-SEP TQ2-10

TXA := TXA-1 F-SEP TXA-2 F-SEP TXA-3 F-SEP TXA-4 F-SEP TXA-5 F-SEP
TXA-6 F-SEP TXA-7 F-SEP TXA-8 F-SEP TXA-9 F-SEP TXA-10 F-SEP TXA-11 FSEP TXA-12 F-SEP TXA-13 F-SEP TXA-14 F-SEP TXA-15 F-SEP TXA-16 F-SEP
TXA-17 F-SEP TXA-18 F-SEP TXA-19 F-SEP TXA-20 F-SEP TXA-21 F-SEP TXA22 F-SEP TXA-23 F-SEP TXA-24 F-SEP TXA-25 F-SEP TXA-26 F-SEP TXA-27 FSEP TXA-28

UAC := UAC-1 F-SEP UAC-2

UB1 := UB1-1 F-SEP UB1-2 F-SEP UB1-3 F-SEP UB1-4 F-SEP UB1-5 F-SEP UB1-6 F-SEP UB1-7 F-SEP UB1-8 F-SEP UB1-9 F-SEP UB1-10 F-SEP UB1-11 F-SEP UB1-12 F-SEP UB1-13 F-SEP UB1-14 F-SEP UB1-15 F-SEP UB1-16 F-SEP UB1-17 F-SEP UB1-18 F-SEP UB1-19 F-SEP UB1-20 F-SEP UB1-21 F-SEP UB1-22 F-SEP UB1-23

UB2 := UB2-1 F-SEP UB2-2 F-SEP UB2-3 F-SEP UB2-4 F-SEP UB2-5 F-SEP UB2-6 F-SEP UB2-7 F-SEP UB2-8 F-SEP UB2-9 F-SEP UB2-10 F-SEP UB2-11 F-SEP UB2-12 F-SEP UB2-13 F-SEP UB2-14 F-SEP UB2-15 F-SEP UB2-16 F-SEP UB2-17

VAR := VAR-1 F-SEP VAR-2 F-SEP VAR-3 F-SEP VAR-4 F-SEP VAR-5 F-SEP VAR-6

VND := VND-1 F-SEP VND-2 F-SEP VND-3 F-SEP VND-4 F-SEP VND-5 F-SEP VND-6 F-SEP VND-7 F-SEP VND-8 F-SEP VND-9 F-SEP VND-10 F-SEP VND-11

ZL7 := ZL7-1 F-SEP ZL7-2

F-SEP := MSH-1;