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| --- |
| HL7 Version 2.9 Chapter 8: Master Files |
| *Change Request ID:* | *818* |
| *File Name:* | *OO\_CR168-818-OM4Addition.docx* |
| *Description:* | *Proposal to add field(s) to OM4 segment* |
| *Status:* | *New Proposal* |
| *Sponsoring Person* | *Mark Jones* |
| *Sponsoring Business Unit* |  |
| *Date Originated:* | *08/21/2014* |
| *Date HL7 approved:* |  |
| *Backward Compatible:* | *Yes?* |
| *Forward Compatible:* | *Yes* |
| *HL7 Status & Date* |  |

#

# Justification Detail:

To facilitate import of container information from the MFN messages described in the eDOS Implementation Guide, it is proposed to add a field to the OM4 segment labeled ‘Container Type’, with a datatype of CWE. The reasoning behind this is that having an identifier for each container allows the receiving system to utilize an internal table of container types to link specific container(s) to a particular test based said identifiers.

The proposed field would correspond to the SPM-27 field of the same name (Container Type) and datatype (CWE).

To transmit information on time-sensitive specimens (as identified by Jim Case on previous calls), proposal is to add a CQ datatype field in which to send that information. If time is not critical, then field may be left blank.

# Open Issues

A decision to deprecate OM4-3 Container Description (TX) or allow it to remain for the transmission of additional information that is currently sent along with container descriptions needs to be made. This option was discussed by the eDOS WG with decision to retain. In practice, this field is being used for other purposes clarifying/related to the Container Description.

Deprecation of OM4-3 would require an additional field to be added to the OM4 segment to provide a transport mechanism for the previously mentioned additional information – e.g., notes on where to order containers, etc.

Allowing it to remain would require that all the information currently being sent there would still be allowed. It may be possible to restrict it via the IG to only the additional information, but is that a feasible or even desirable action?

Codifying the tubes/containers - this would either need to be left as-is (with no pre-defined table of codes, allowing for local codes or other code systems as determined by trading partners), we look to SNOMED or similar standard for codes, we turn to the Vocab WG for assistance, or we as a WG develop our own codes and submit them to Vocab.

# Change Request Impact:

Implementers may need to move and reformat information from OM4-3 (TX) to OM4-19 (CWE).

# Documentation Changes:

HL7 Attribute Table - OM4 - Observations that Require Specimens

| SEQ | LEN | C.LEN | DT | OPT | RP/# | TBL# | ITEM # | ELEMENT NAME |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 |  | 4= | NM | O |  |  | 00586 | Sequence Number - Test/Observation Master File |
| … |  |  |  |  |  |  |  |  |
| 19 |  |  | CWE | O |  | 9999 | 01773 | Container Type |
| 20 |  |  | CQ | O |  |  | ???? | Specimen delivery time |

OM4-3 Container Description (TX)

Proposed note to be added to OM4-3 (definition below from V2.8)

Definition: This field contains the physical appearance, including color of tube tops, shape, and material composition (e.g., red-top glass tube). Note that the color is not necessarily a unique identifier of the additive and/or use of the tube. This is especially true for black and some blue tube tops, as can be seen above. Color is included here for user convenience. This field repeats to accommodate all the possible specimen that will be allowed. If a container is preferred, only that container should be messaged here with the alternate containers messaged in a repeat OM4 segment.

New sentence: For coded values use OM4-19 (Container Type).

OM4-19 Container Type (CWE)

Components: <Identifier (ST)> ^ <Text (ST)> ^ <Name of Coding System (ID)> ^ <Alternate Identifier (ST)> ^ <Alternate Text (ST)> ^ <Name of Alternate Coding System (ID)> ^ <Coding System Version ID (ST)> ^ <Alternate Coding System Version ID (ST)> ^ <Original Text (ST)> ^ <Second Alternate Identifier (ST)> ^ <Second Alternate Text (ST)> ^ <Name of Second Alternate Coding System (ID)> ^ <Second Alternate Coding System Version ID (ST)> ^ <Coding System OID (ST)> ^ <Value Set OID (ST)> ^ <Value Set Version ID (DTM)> ^ <Alternate Coding System OID (ST)> ^ <Alternate Value Set OID (ST)> ^ <Alternate Value Set Version ID (DTM)> ^ <Second Alternate Coding System OID (ST)> ^ <Second Alternate Value Set OID (ST)> ^ <Second Alternate Value Set Version ID (DTM)>

Definition: The container in or on which a specimen is transported.

Constrained Table – values

| **Identifier** | **Tube Descriptions** | **Comment** |
| --- | --- | --- |
| 001 | 24 Hour Urine Container |  |
| 002 | Affirm Transport System |  |
| 003 | Amniotic Fluid |  |
| 004 | Anaerobic Culture Transport |  |
| 005 | Aptima (Gen-probe) Endocx/ureth swab |  |
| 006 | Aptima (Gen-probe) Urine |  |
| 007 | Aptima Org |  |
| 008 | Attest Vial |  |
| 009 | Bacteral Cult Trans Swab Dry |  |
| 010 | Bacterial Cult Trans Swab w/Media |  |
| 011 | BD SST Tube |  |
| 012 | Blood Culture Bottles |  |
| 013 | Blue-Top (Sodium Citrate) Tube |  |
| 014 | Body Fluid |  |
| 015 | Bordetella Culture Transport |  |
| 016 | Breath Bag |  |
| 017 | Calculi |  |
| 018 | ColoSure |  |
| 019 | CSF (Cerebrospinal Fluid) |  |
| 020 | Cytyc Vial |  |
| 021 | Digene HPV Transport |  |
| 022 | Fecal Occult Blood Card |  |
| 023 | Gastric Fluid |  |
| 024 | Gel Barrier Tube |  |
| 025 | Gen-Probe (PACE) endocx/ureth swab |  |
| 026 | Gray-Top (Sodium Fluoride) Tube |  |
| 027 | Gray-Top Vacutainer Urin Culture |  |
| 028 | Green-Top (Heparin) Tube |  |
| 029 | Holter Monitor |  |
| 030 | Holter Monitor Kit |  |
| 031 | Jembec |  |
| 032 | Kidney Stone Container |  |
| 033 | Lavender-Top (EDTA) Tube |  |
| 034 | MicroTrak |  |
| 035 | Millipore Filter |  |
| 036 | Miscellane Other Micro Transport |  |
| 037 | Naso-pharyngeal Swab |  |
| 038 | NMR LipoTube (Black/Yellow) |  |
| 039 | ORASURE |  |
| 040 | Organism Isolate |  |
| 041 | Other (Miscellaneous) |  |
| 042 | Para Pak - Gray |  |
| 043 | Para Pak - Orange |  |
| 044 | Para Pak - Pink |  |
| 045 | Para Pak - Pink & Gray |  |
| 046 | Para Pak - White |  |
| 047 | Paraffin Block |  |
| 048 | Pediatric Blood Culture Bottle |  |
| 049 | Percloric Acid (Gray-Top Tube) |  |
| 050 | PKU Card or Filter Paper |  |
| 051 | Plasma from Gray Top Tube |  |
| 052 | Plasma from Green Top Tube |  |
| 053 | Plasma from Lavender Top Tube |  |
| 054 | Plasma from Light Blue Top Tube |  |
| 055 | Plasma from PPT(TM) Tube |  |
| 056 | Plasma from Royal Blue Top Tube |  |
| 057 | Plasma from Yellow Top Tube |  |
| 058 | Plasma Transfer Tube |  |
| 059 | Plasma Transfer Tube with Trasylol |  |
| 060 | Plated Media |  |
| 061 | Polymedco iFOBT Bottle |  |
| 062 | PPT (White) |  |
| 063 | Previously Prepared Cyto Slide |  |
| 064 | Probe Tec |  |
| 065 | Progensa Urine Transport Tube |  |
| 066 | QuantiFERON |  |
| 067 | Quantisal |  |
| 068 | QuickVue iFOB Tube |  |
| 069 | Red-Top Tube |  |
| 070 | Royal Blue-Top (EDTA) Tube |  |
| 071 | Semen |  |
| 072 | Serum Transfer Tube |  |
| 073 | Slide |  |
| 074 | Sputum |  |
| 075 | Sterile Cup |  |
| 076 | Stool |  |
| 077 | Swab (non-micro) |  |
| 078 | Tan Top Lead-Free Tube |  |
| 079 | Tissue |  |
| 080 | Trichomonas Transport |  |
| 081 | Uniprobe |  |
| 082 | Urinalysis Transport(Red/Yellow) |  |
| 083 | Urine 24hr 6N HCl |  |
| 084 | Urine 24hr No Preservative |  |
| 085 | Urine Bottle |  |
| 086 | Urine Culture Transport |  |
| 087 | Urine Monovette |  |
| 088 | Urine Transport Tube |  |
| 089 | Urine with Acetic Acid Preservative |  |
| 090 | Urine with Boric Acid Preservative |  |
| 091 | Urine with HCL Preservative |  |
| 092 | Urine with Sodium Carbonate Preservative |  |
| 093 | Vacutainer with No Additive |  |
| 094 | VIAL TriPath Collection Vial |  |
| 095 | Viral Transport System |  |
| 096 | Whole Blood |  |
| 097 | Yellow-Top (ACD) Tube |  |

OM4-20 Specimen delivery time (CQ)

Components: <Quantity (NM)> ^ <Units (CWE)>

Where quantity is a positive integer and units are either minutes or hours

Definition: This field contains the maximum transport time allowed for specimen delivery to the testing facility.

**eDOS Work Group Discussion:**

OM4-19 Container Type

TBL# and ITEM# TBD - in discussion with Publishing and Vocabulary whether to use same element as in SPM-27, item #01773. However, SPM-27 element uses Table 9999.

* + 2014-09-23 eDOS WG – agreed to use same TBL# and ITEM# as in SPM-27 and constrain the '9999' TBL to eDOS desired values in the eDOS IG, vs. User Defined table.
	+ Added comment column to per 2014-09-23 eDOS WG call to further define container type. In Chapter. 2C this column is titled "Comment"
	+ Tube Descriptions in table - Outstanding question re: using copyright trade name in proposed table. Need to check with HL7 HQ re: trademark/license issue.
		- If add © ® ™ symbol to table, do not want it messaged.
		- 2014-09-25 Follow up with Karen Van Hentenryck at HL7 HQ – will have to get permission to include trademark/copyright items. Can either:
		- -remove trademark items and add statement that the list is not exhaustive and excludes trademark/copyright
		- -secure permission for trademark items
		- 2014-09-30 eDOS motion to remove from the table items that are trademarked, and add note that this is not exhaustive list and trademarked items are excluded by Mark Jones, second Les Keepper. Against-0; Abstain-0; 8