RAILINC | Umler® Release Notes

Release Notes for June 16, 2022 Umler System Release

The Umler system release scheduled for Thursday, June 16, 2022, includes functional enhancements to Umler which includes docket implementation work as directed by the Umler Committee to implement new elements, element changes/updates, as well as modifications to permissible values and business rules within the application.

Below are the complete details of this release.

- **Element Updates (New Elements/Element Changes & Removals)**
    - LVVR Compliant (B594) *
        - Equipment Group: LOCO
        - New Element
        - Element Description:
            - The unit is Voice and Video Recorder Compliant
            - Presentation Group: Feature
        - Permissible Value(s):
            - Y - Yes
            - N - No
        - Validation Rule(s):
            LVVR Compliant cannot be Y-Yes if Cab Camera (B108) = NTEQ – Not Equipped
        - Note(s):
            - Transport Canada requirements defined in SOR/2020-178
            - Units operating in the lead in Canada are required to be LVVR capable
            - Cab cameras must be able to determine status of instrument displays and controls, and operator facial features and expressions
            - Microphones must be able to record the voice of the locomotive engineer distinctly and clearly from the conductor; record the voice of the conductor distinctly and clearly from the locomotive engineer; and safety-related sounds and aural warnings in the controlling locomotive
            - System must store 48 hours of data in crash-hardened memory

- **Permissible Value/Range Updates - Updates/Removals/New Values**
    - Energy Management Systems (A303)
        - Equipment Group(s): LOCO
        - Removed Permissible Value:
            - TOH – Trip Optimizer with Smart HPT

*Indicates this is a new element.

- Coupler Style (B058)
  - Equipment Group(s): BOXC, GOND, HOPP, FLAT, IFLT, VFLT, TANK, MISC, PSGR
  - Removed Permissible Value(s):
    - L – Drawbar Rotary
    - M - Drawbar

- **Business Rule Changes – New/Changed or Updated/Removed Rules**

  - Weighing Status (A289)
    - Equipment Group(s): BOXC, GOND, HOPP, TANK, IFLT, VFLT, FLAT
    - Updated Rule:
      - **Old**: When Status Code changes to Active or Inactive Weighing Status must be reported as Actual (A) or Verified (V) within 90 days of Status Code change
      - **New**: When Status Code changes to Active or Inactive, Weighing Status must be reported as Actual (A) or Verified (V) within 60 days of Status Code change

  - Weighing Date (A288)
    - Equipment Group(s): BOXC, GOND, HOPP, MISC, TANK, IFLT, VFLT, FLAT
    - Updated Rule (Code 100083):
      - **Old**: When Status Code changes to Active or Inactive Weighing Status must be reported as Actual (A) or Verified (V) within 30 days of Status Code change
      - **New**: When Weighing Date is reported then Weighing Status (A289) must be A (Actual) or V (Verified)

  - Outside Extreme Height (A185)
    - Equipment Group(s): IFLT, MISC
    - Added Rule:
      - Outside Extreme Height for Plate Code H must be less than or equal to 20 feet 3 inches
    - Equipment Group(s): HOPP, GOND, TANK, FLAT, IFLT, MISC
    - Updated Rule:
      - **Old**: Outside Extreme Height for Plate Codes A, B, or H must be less than or equal to 15 feet 1 inch
      - **New**: Outside Extreme Height for Plate Code B must be less than or equal to 15 feet 1 inch

  - Coupler Code (A057)
    - Equipment Group(s): BOXC, GOND, HOPP, FLAT, IFLT, VFLT, TANK, MISC, PSGR
    - Updated Rule:
      - **Old**: If Coupler Code is a rotary coupler, then Coupler Style must be R (Rotary) or L (Rotary Drawbar)
      - **New**: If Coupler Code is a rotary coupler, then Coupler Style must be R (Rotary)
    - Updated Rule:

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- If Rotary Coupler Style is reported, then Coupler Code must be a rotary coupler
    - Removed Coupler Style permissible value 'L' from rule condition.

- Draft Gear Group/Cushion Unit Pocket (B562)
    - Equipment Group(s): BOXC, GOND, HOPP, FLAT, IFLT, VFLT, TANK, MISC, PSGR
    - Removed Rule:
        - If Draft Gear Group/Cushion Unit Pocket (B562) is N or P then Coupler Style (B058) cannot be reported as M (Solid Drawbar) or L (Rotary Drawbar)

- Single Length Loading Configuration (B288)
    - Equipment Group(s): IFLT
    - Updated Rules setting system-generated value for 20 Ft Container Capable (B549):
        - If Single Length Loading Configuration (B288) is DC2, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
        - If Single Length Loading Configuration (B288) is QB4, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg B
        - If Single Length Loading Configuration (B288) is QB4, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg A
        - If Single Length Loading Configuration (B288) is QB4, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg C
        - If Single Length Loading Configuration (B288) is QB5, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
        - If Single Length Loading Configuration (B288) is QB5, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg A
        - If Single Length Loading Configuration (B288) is QB5, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg C
        - If Single Length Loading Configuration (B288) is QB5, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg D
        - If Single Length Loading Configuration (B288) is QB5, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg E
        - If Single Length Loading Configuration (B288) is QC2, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
        - If Single Length Loading Configuration (B288) is QC2, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg A
        - If Single Length Loading Configuration (B288) is QC2, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg C
        - If Single Length Loading Configuration (B288) is QC2, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg D
        - If Single Length Loading Configuration (B288) is QC2, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg E
        - If Single Length Loading Configuration (B288) is SA2, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
        - If Single Length Loading Configuration (B288) is SA2, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg A

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- If Single Length Loading Configuration (B288) is SA2, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg C
- If Single Length Loading Configuration (B288) is SA2, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg D
- If Single Length Loading Configuration (B288) is SA3, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
- If Single Length Loading Configuration (B288) is SA3, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg A
- If Single Length Loading Configuration (B288) is SA3, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg C
- If Single Length Loading Configuration (B288) is SA3, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg D
- If Single Length Loading Configuration (B288) is SA4, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
- If Single Length Loading Configuration (B288) is SA5, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
- If Single Length Loading Configuration (B288) is SA5, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg A
- If Single Length Loading Configuration (B288) is SA5, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg C
- If Single Length Loading Configuration (B288) is SA6, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
- If Single Length Loading Configuration (B288) is SA6, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg A
- If Single Length Loading Configuration (B288) is SA6, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg C
- If Single Length Loading Configuration (B288) is SA7, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
- If Single Length Loading Configuration (B288) is SA7, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg A
- If Single Length Loading Configuration (B288) is SA7, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg C
- If Single Length Loading Configuration (B288) is SA8, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
- If Single Length Loading Configuration (B288) is SA8, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg A
- If Single Length Loading Configuration (B288) is SA8, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg C
- If Single Length Loading Configuration (B288) is SA9, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
- If Single Length Loading Configuration (B288) is SC1, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg C
- If Single Length Loading Configuration (B288) is SC1, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg D
- If Single Length Loading Configuration (B288) is SC1, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg E
- If Single Length Loading Configuration (B288) is SC2, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg C

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- If Single Length Loading Configuration (B288) is SC2, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg D
- If Single Length Loading Configuration (B288) is SC2, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg E
- If Single Length Loading Configuration (B288) is SD2, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
- If Single Length Loading Configuration (B288) is SD2, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg A
- If Single Length Loading Configuration (B288) is SD2, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg C
- If Single Length Loading Configuration (B288) is SD2, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg D
- If Single Length Loading Configuration (B288) is SD2, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg E
- If Single Length Loading Configuration (B288) is SD6, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
- If Single Length Loading Configuration (B288) is SD6, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg A
- If Single Length Loading Configuration (B288) is SD6, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg C
- If Single Length Loading Configuration (B288) is SD6, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg D
- If Single Length Loading Configuration (B288) is SD6, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg E
- If Single Length Loading Configuration (B288) is SD7, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg B
- If Single Length Loading Configuration (B288) is SD7, then IFLT 20 Ft Container Capable (B549) should be set to Y for UnitSeg A
- If Single Length Loading Configuration (B288) is SD7, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg C
- If Single Length Loading Configuration (B288) is SD7, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg D
- If Single Length Loading Configuration (B288) is SD7, then IFLT 20 Ft Container Capable (B549) should be set to N for UnitSeg E

Got Questions? Get Answers.

If you have any questions about Railinc's Umler system or this release, contact the Railinc Customer Success Center by email at or by phone at 877-724-5462.

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