

HeidelbergCement - SyncroTESS Version 9.4

Scenarios for LEO

		Version Number / Date
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Business Owner	Dr. Marcell Hellmann, Eva-Maria Gruner	
Document Owner	Dr. Paul Flachskampf	

Document Revision History

Version	Date	Author	Revision Notes
1.0	05/09/13	Stefan Rupp	Initial Document
Part of history removed...			
6.0	24/03/2017	Tobias Vaegs	Changes in scenarios 250a/b, 260a/b, 261a/b and 420 due to SCRs 26005-41, 26005-43 and 26006-35
7.0	09/02/2018	Tobias Vaegs	Discontinued 330, 331, 333, 334b, 335, 355 and introduced 332a/b due to SCR 26006-39, adapted 400, 405, 530 due to SCR 26005-51

This document describes the information flow between Weighbridge / Operator, SAP / Order taker, SyncroTESS / Dispatcher, Telematics / CADIS and Truck / Driver designed according to the Individual Contract for BeNe.

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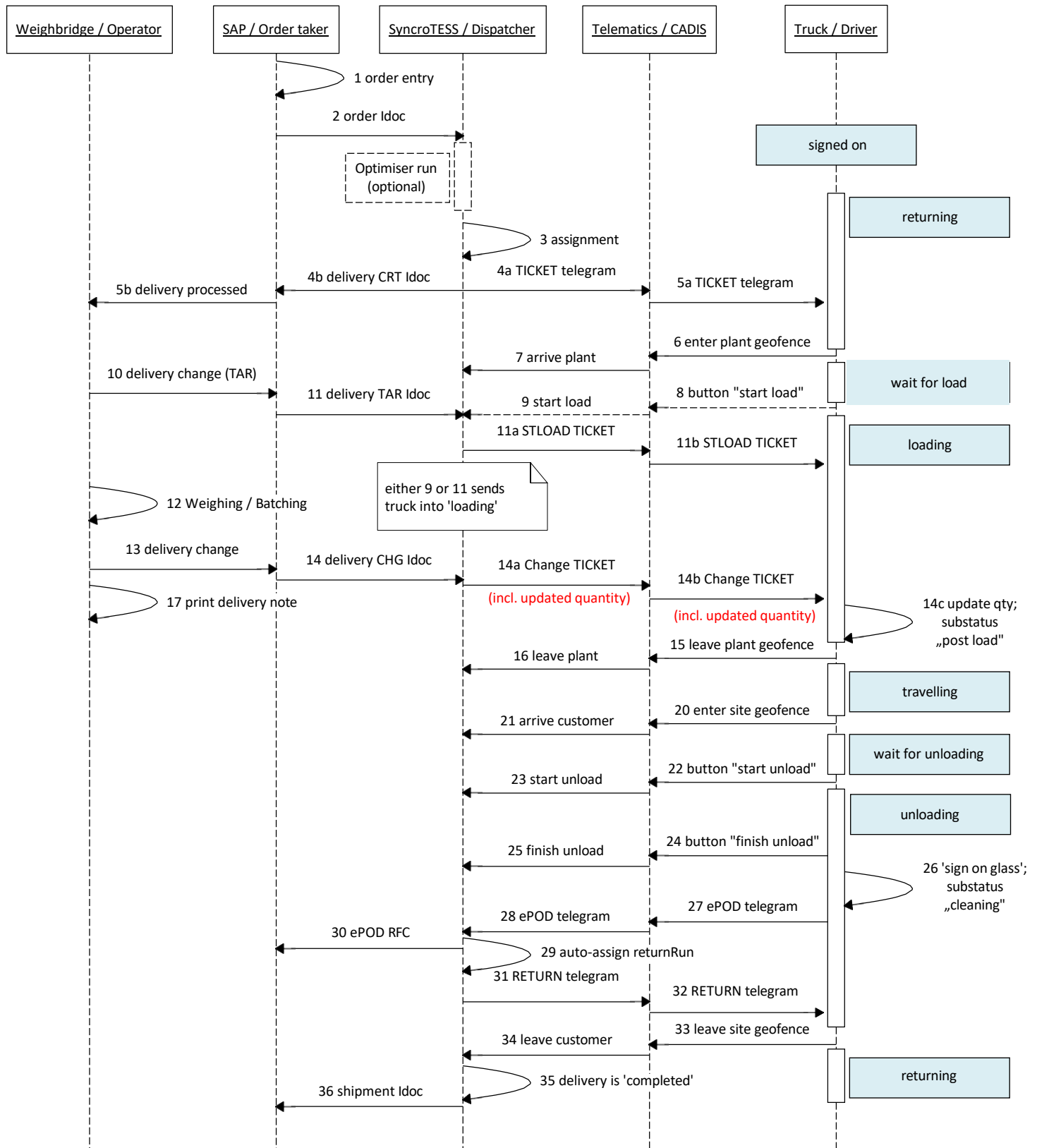
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(10) Standard scenario with Telematics, returning (Ag, As, Co, Mo, Ce)

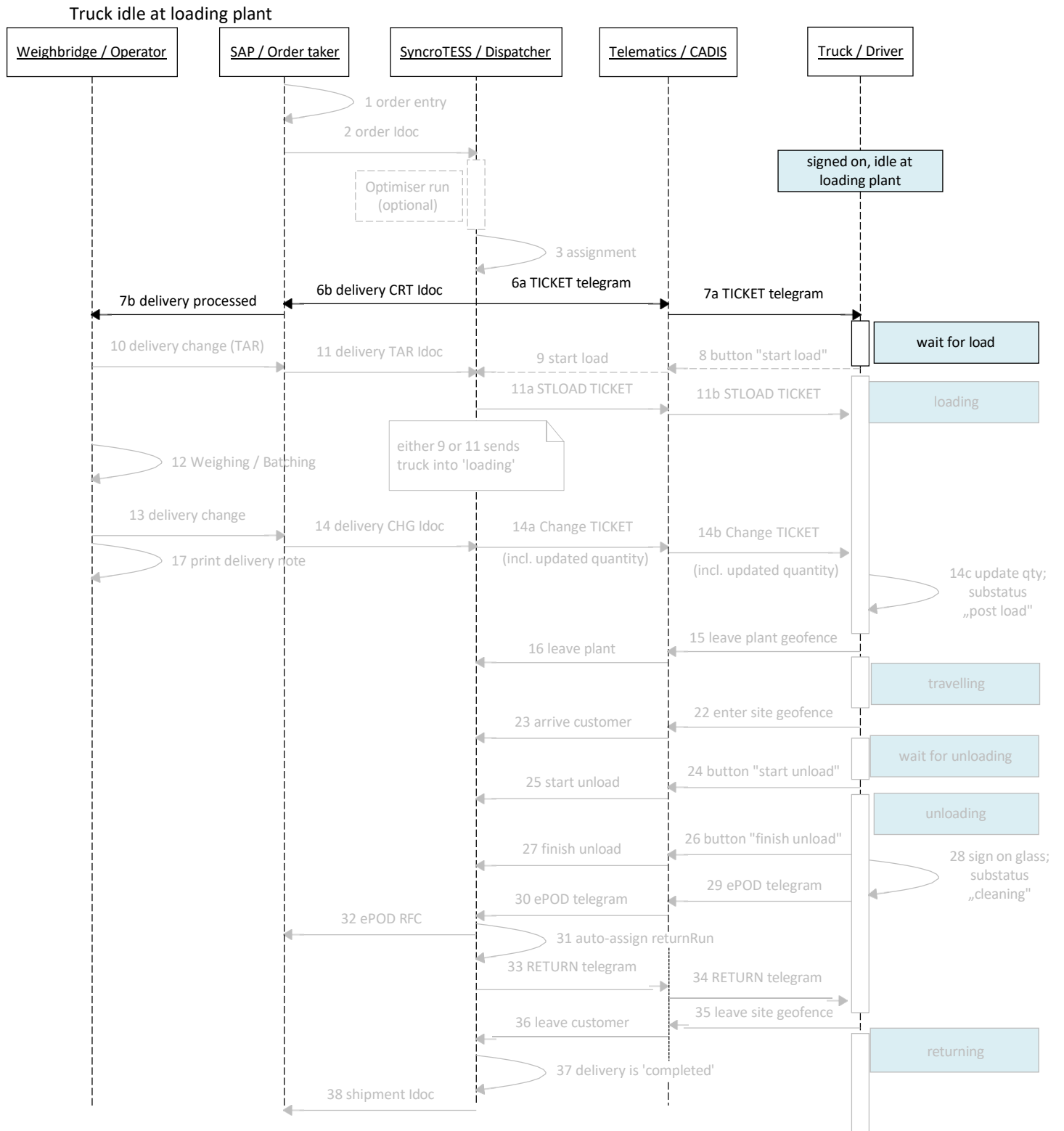
Truck returning to loading plant



Remarks:

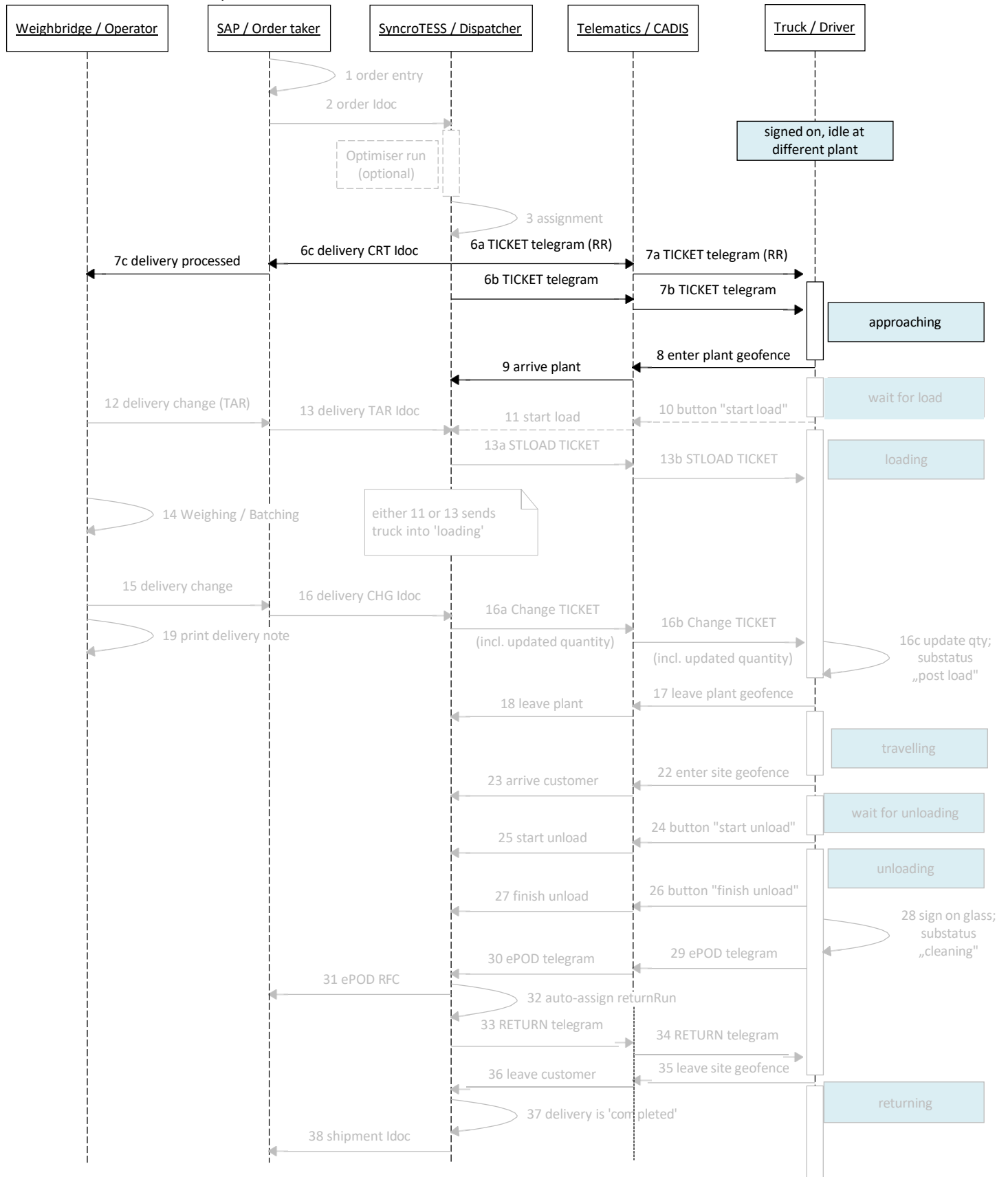
- if there is one assignment at a time, the steps 3 to 36 are repeated for the next delivery
- if there are several assignments at a time (repetition of steps 3 to 5), the steps 6 to 36 are repeated for each delivery
- the „Start Load” message (8/9) from the truck is optional (might be skipped)
- the completion of the delivery (35) is automatically done within SyncroTESS
- if no „finish unload” is received the „leave customer” triggers the return’un request
- during the capture of the signatur (24) also any additional services are signed

(15) Standard scenario with Telematics, idle (Ag, As, Co, Mo, Ce)



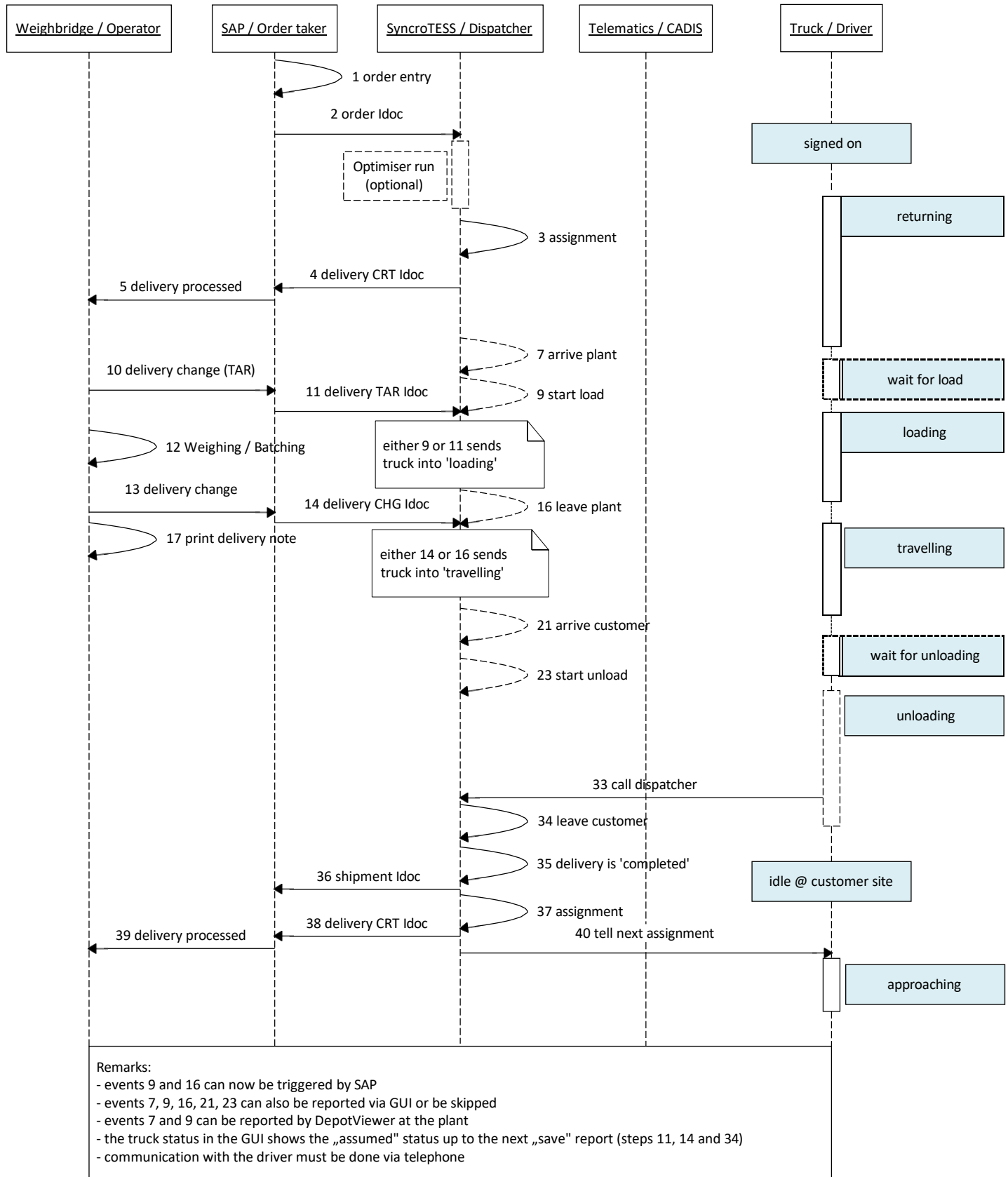
(17) Standard scenario with Telematics, approaching (Ag, As, Co, Mo, Ce)

Truck idle at different plant



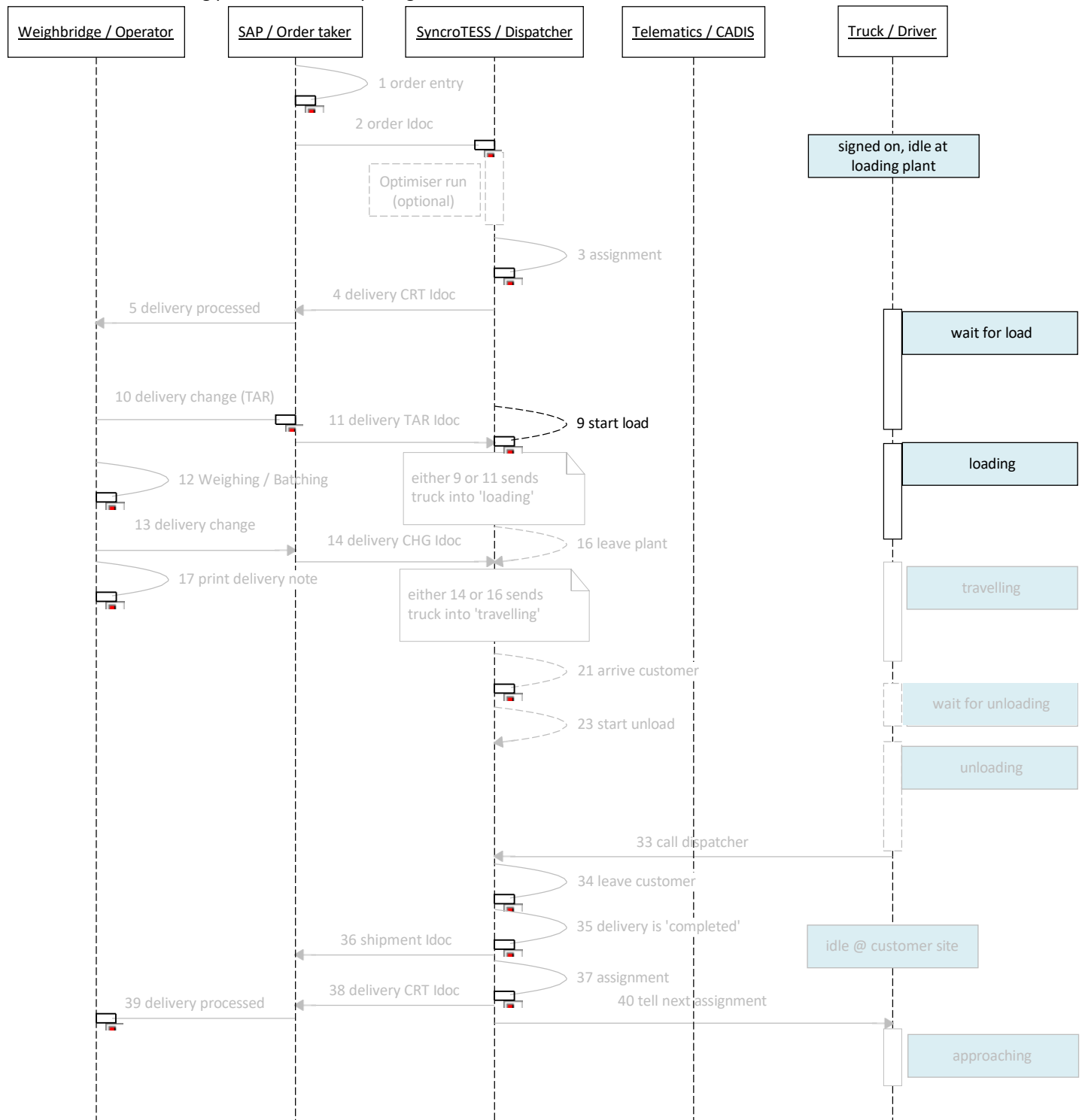
(20) Standard scenario without Telematics, returning (Ag, As, Co, Mo, Ce)

Truck returning to loading plant, no follow-up assignment before *LeavePlant*



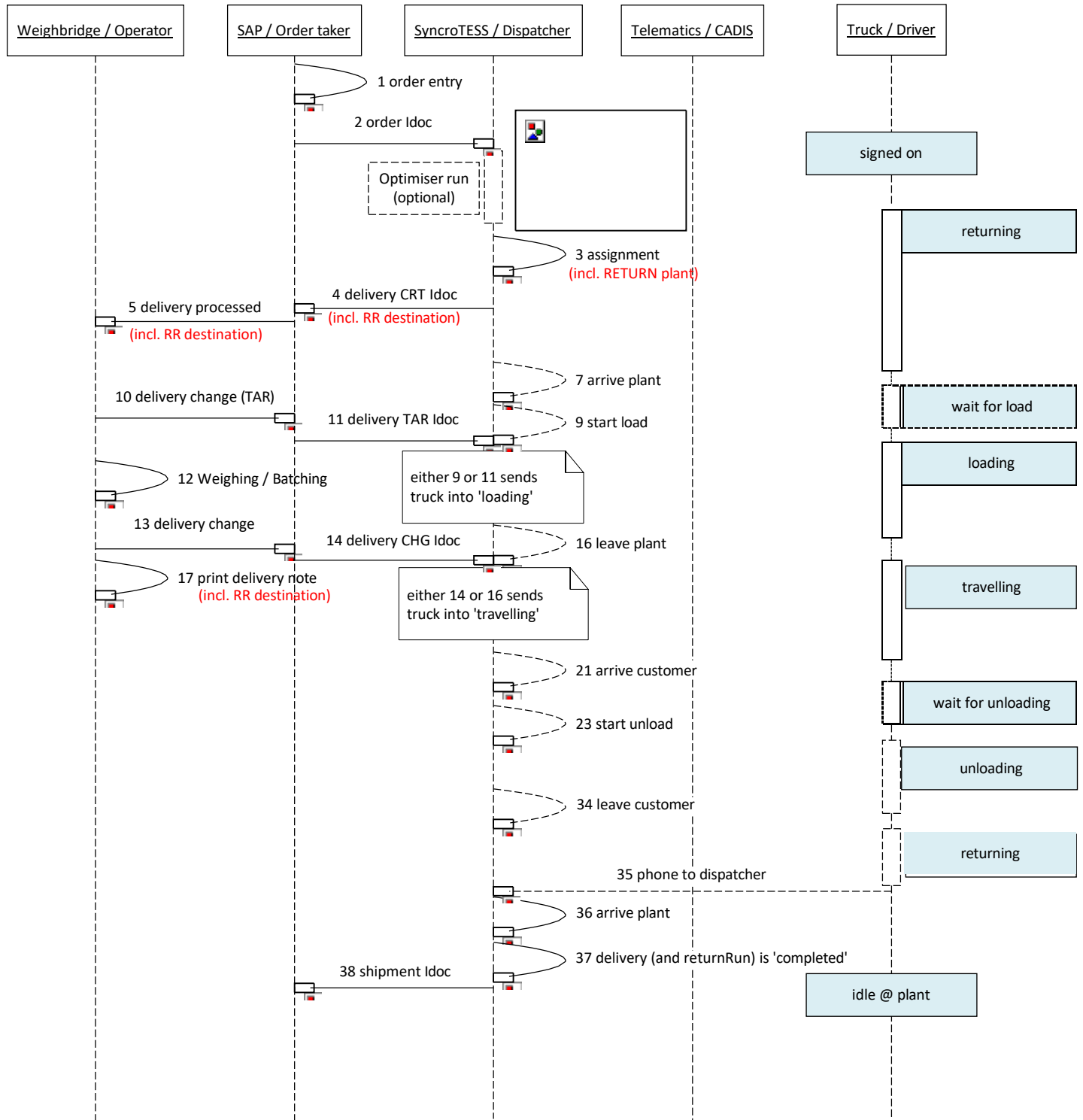
(25) Standard scenario without Telematics, idle (Ag, As, Co, Mo, Ce)

Truck idle at loading plant, no follow-up assignment before *LeavePlant*



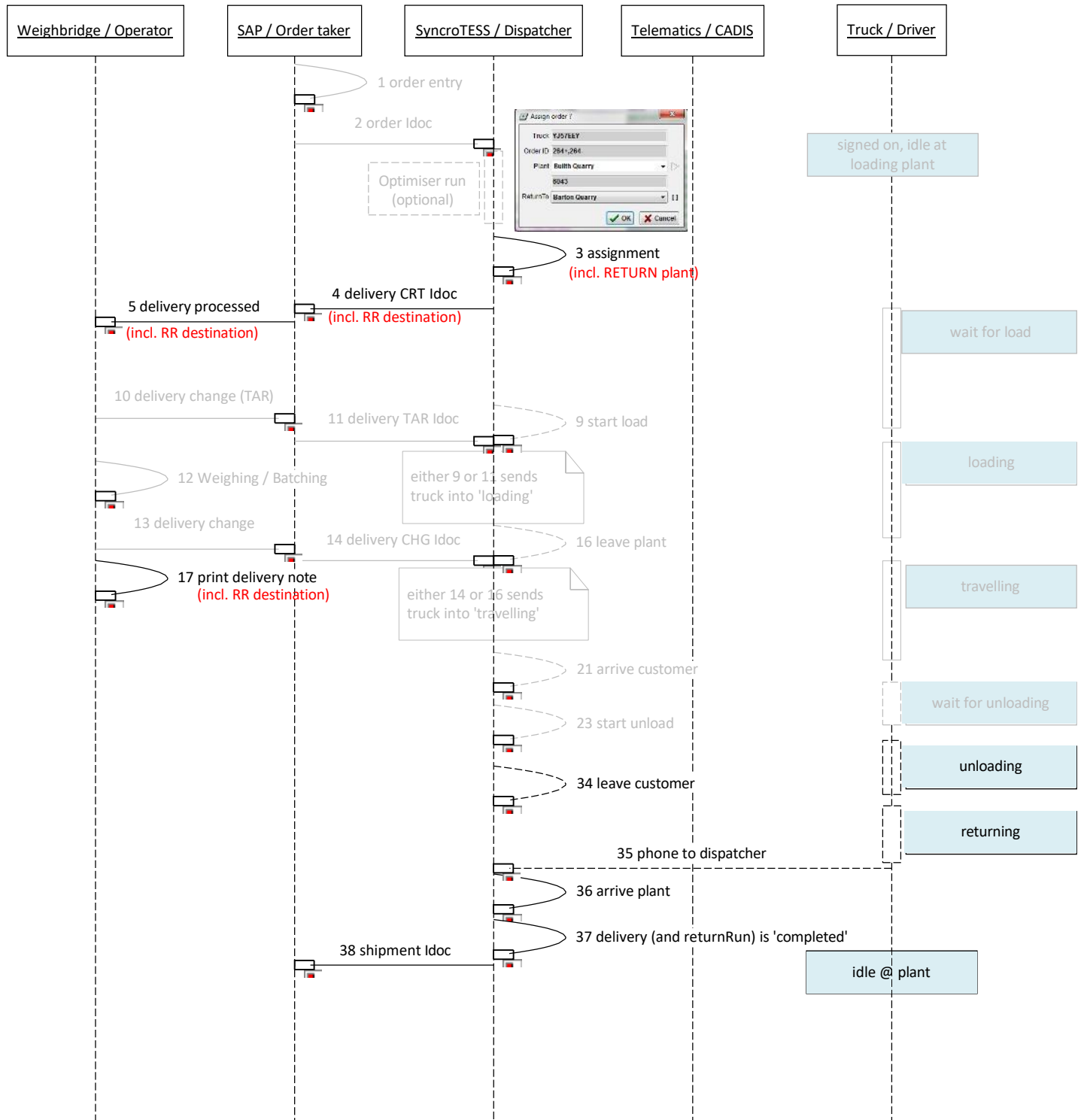
(30) Standard scenario without Telematics with RR, returning (Ag, As, Co, Mo, Ce)

Truck returning to loading plant, with follow-up returnRun



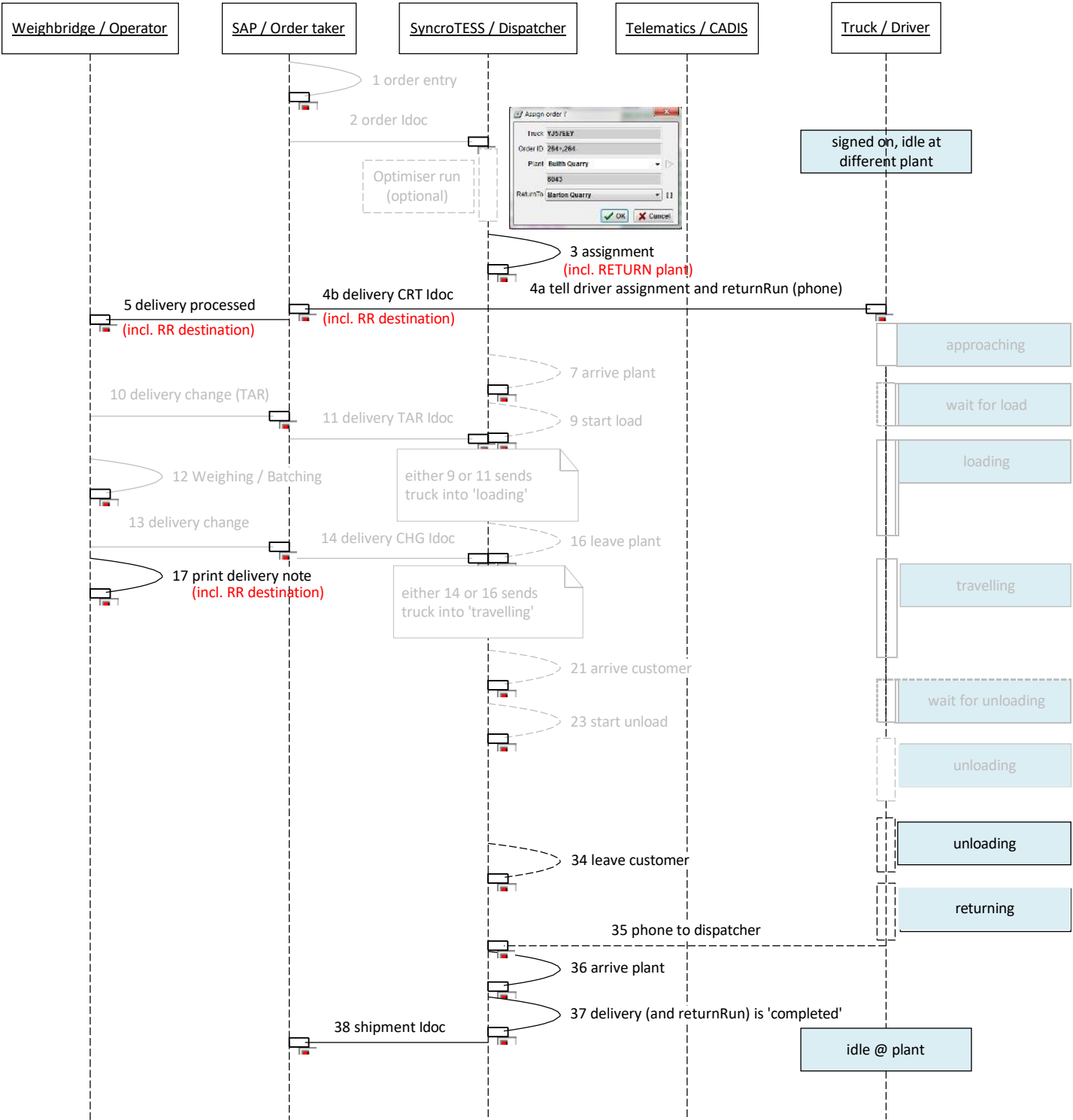
(35) Standard scenario without Telematics with RR, idle (Ag, As, Co, Mo, Ce)

Truck idle at loading plant, with follow-up returnRun



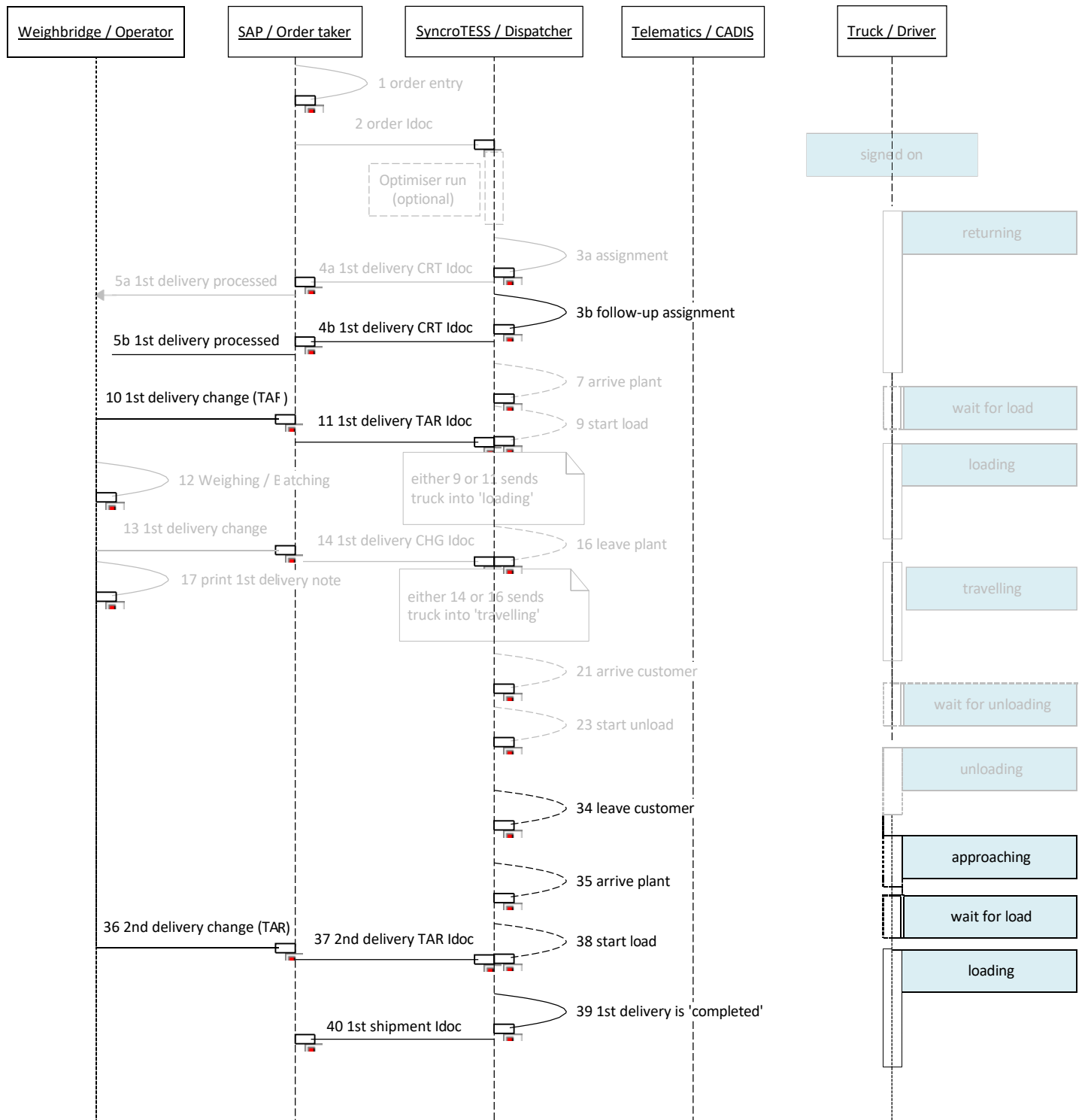
(37) Standard scenario without Telematics with RR, approaching (Ag, As, Co, Mo, Ce)

Truck idle at different plant, with follow-up returnRun



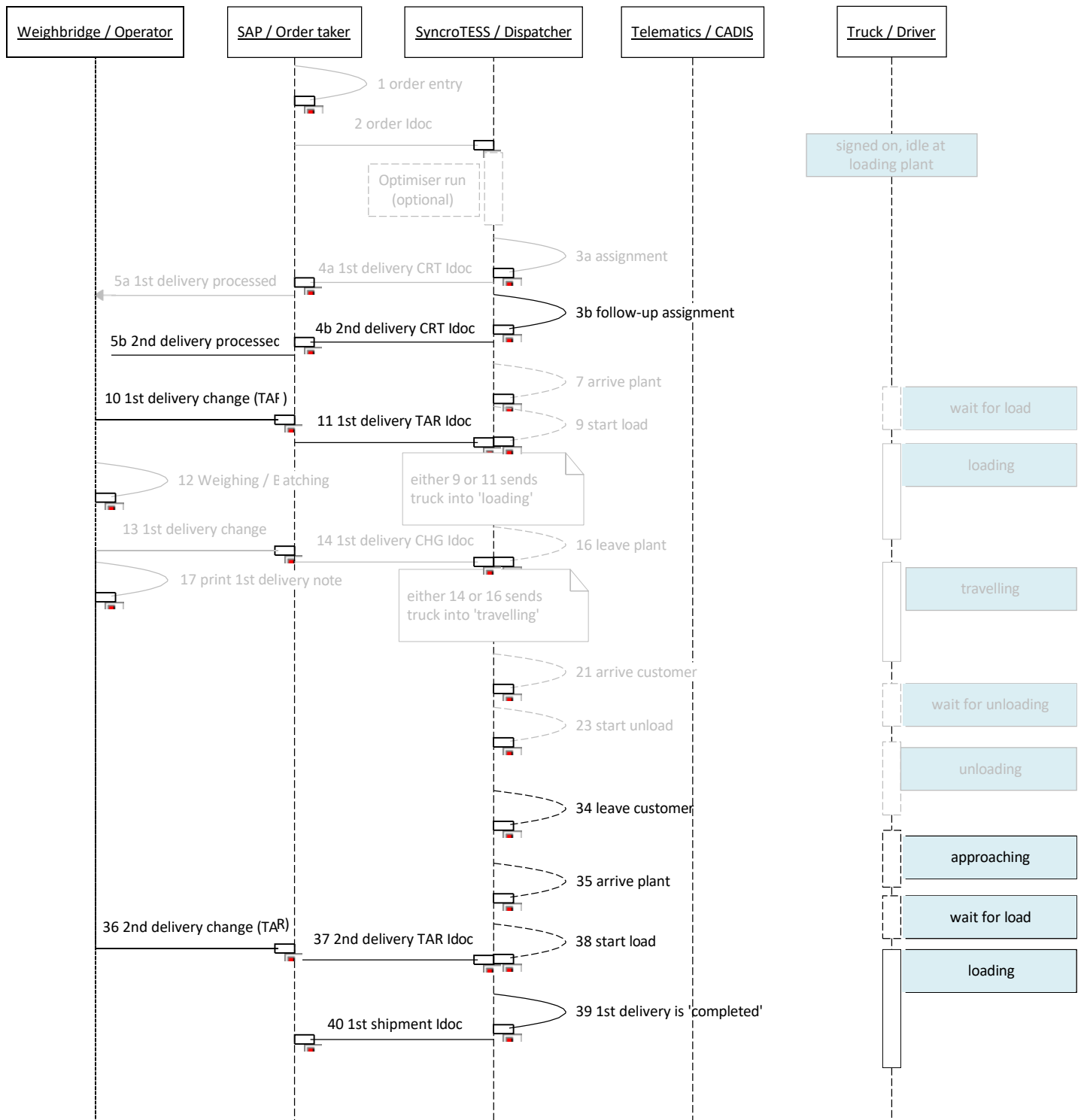
(40) Standard scenario without Telematics, F'up-Ass, returning (Ag, As, Co, Mo, Ce)

Truck returning to loading plant, with follow-up assignment



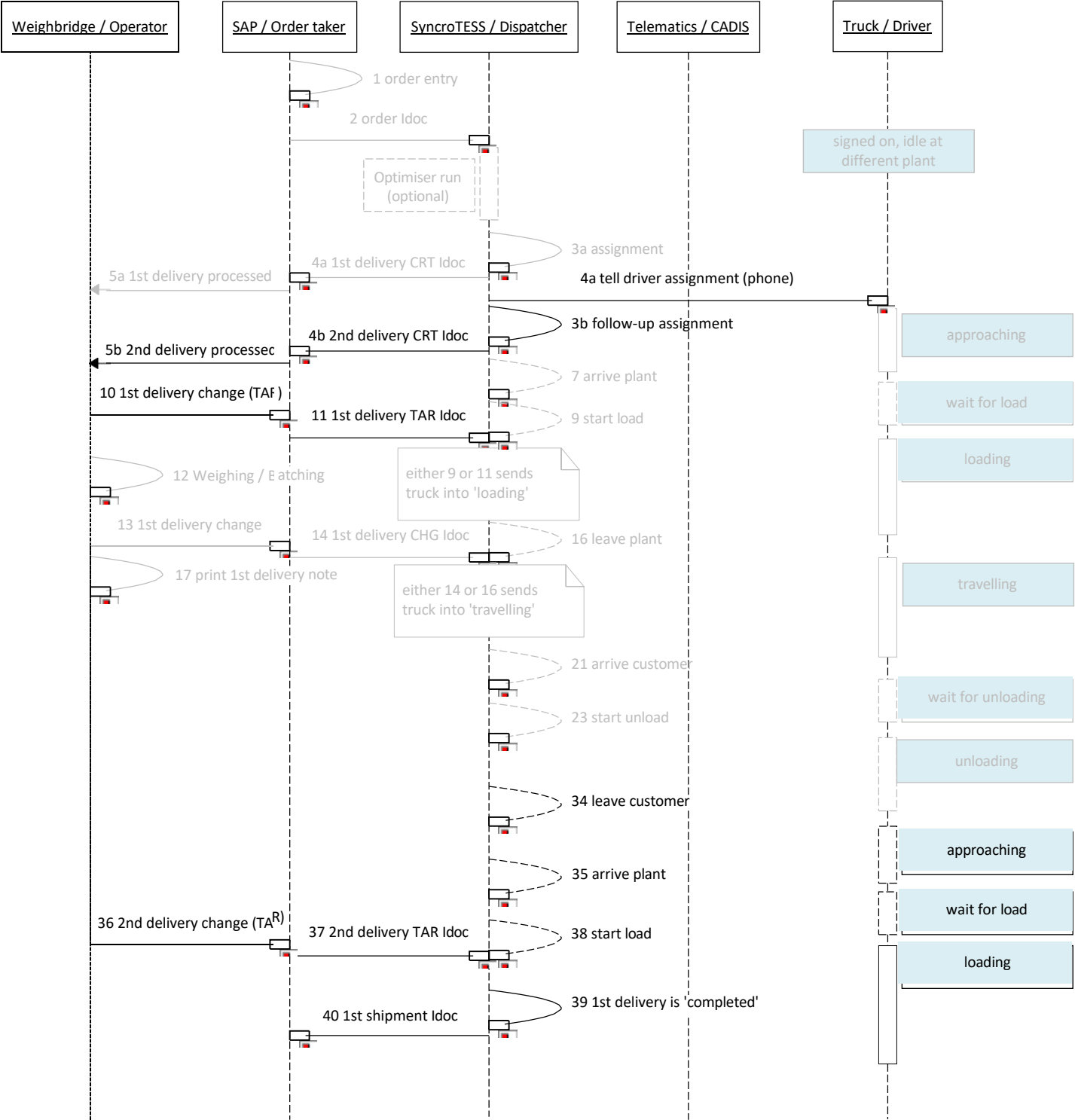
(45) Standard scenario without Telematics, F'up-Ass, idle (Ag, As, Co, Mo, Ce)

Truck idle at loading plant, with follow-up assignment



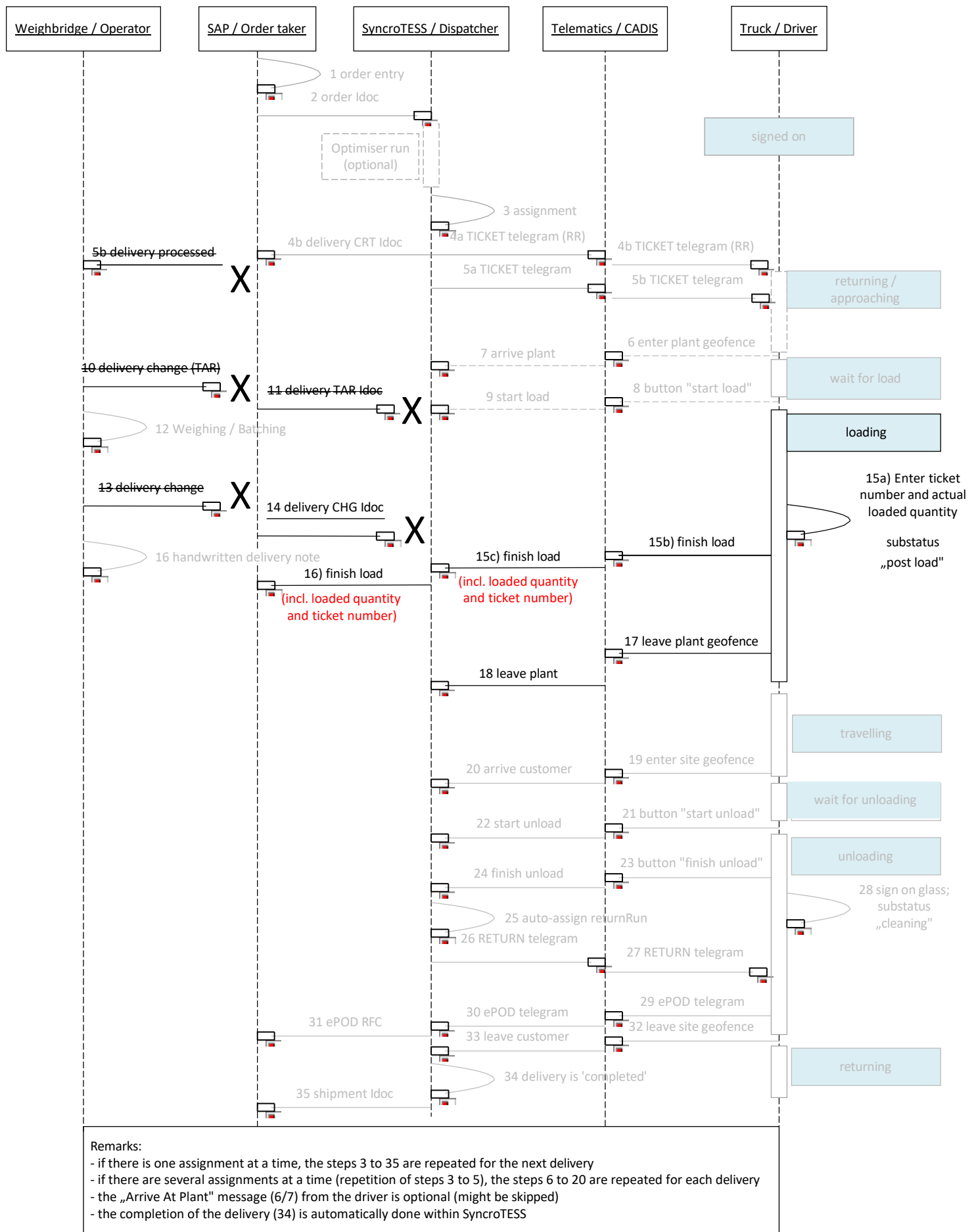
(47) Standard scenario without Telematics, F'up-Ass, approaching (Ag, As, Co, Mo, Ce)

Truck idle at different plant, with follow-up assignment



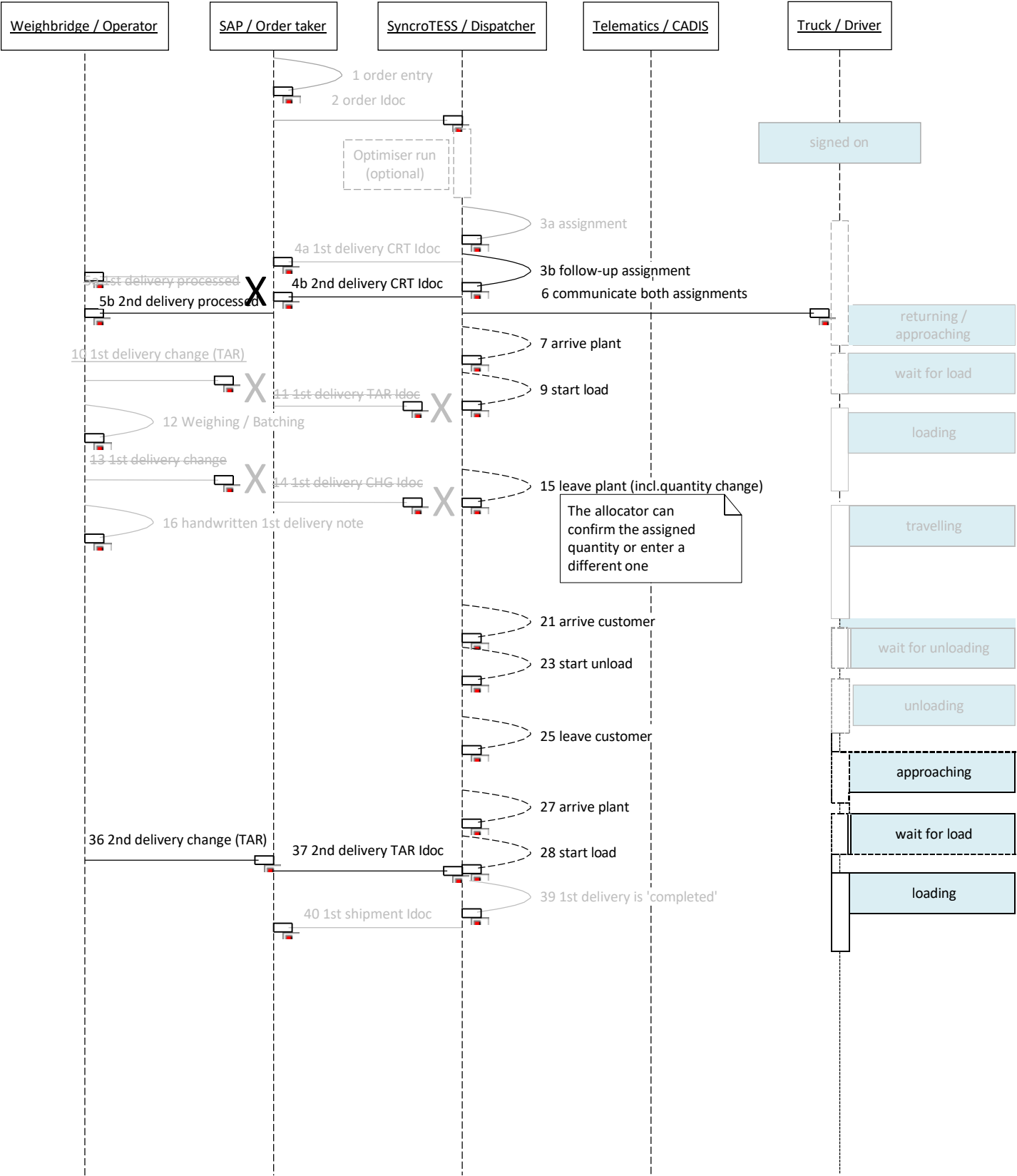
(50) No weighbridge link, with Telematics (Ag, As, Co, Mo, Ce)

With telematics

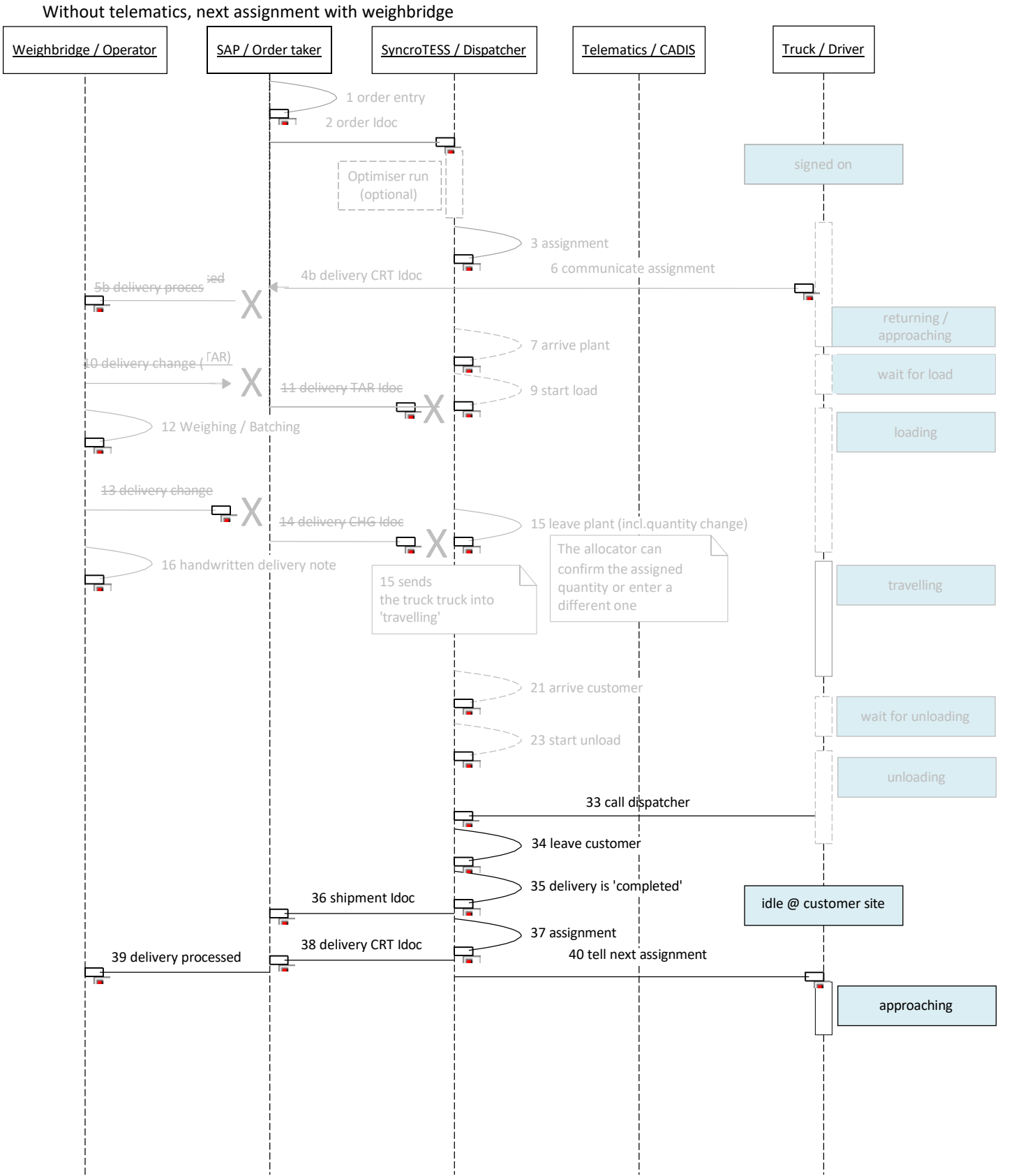


(60) No weighbridge link, without Telematics (Ag, As, Co, Mo, Ce)

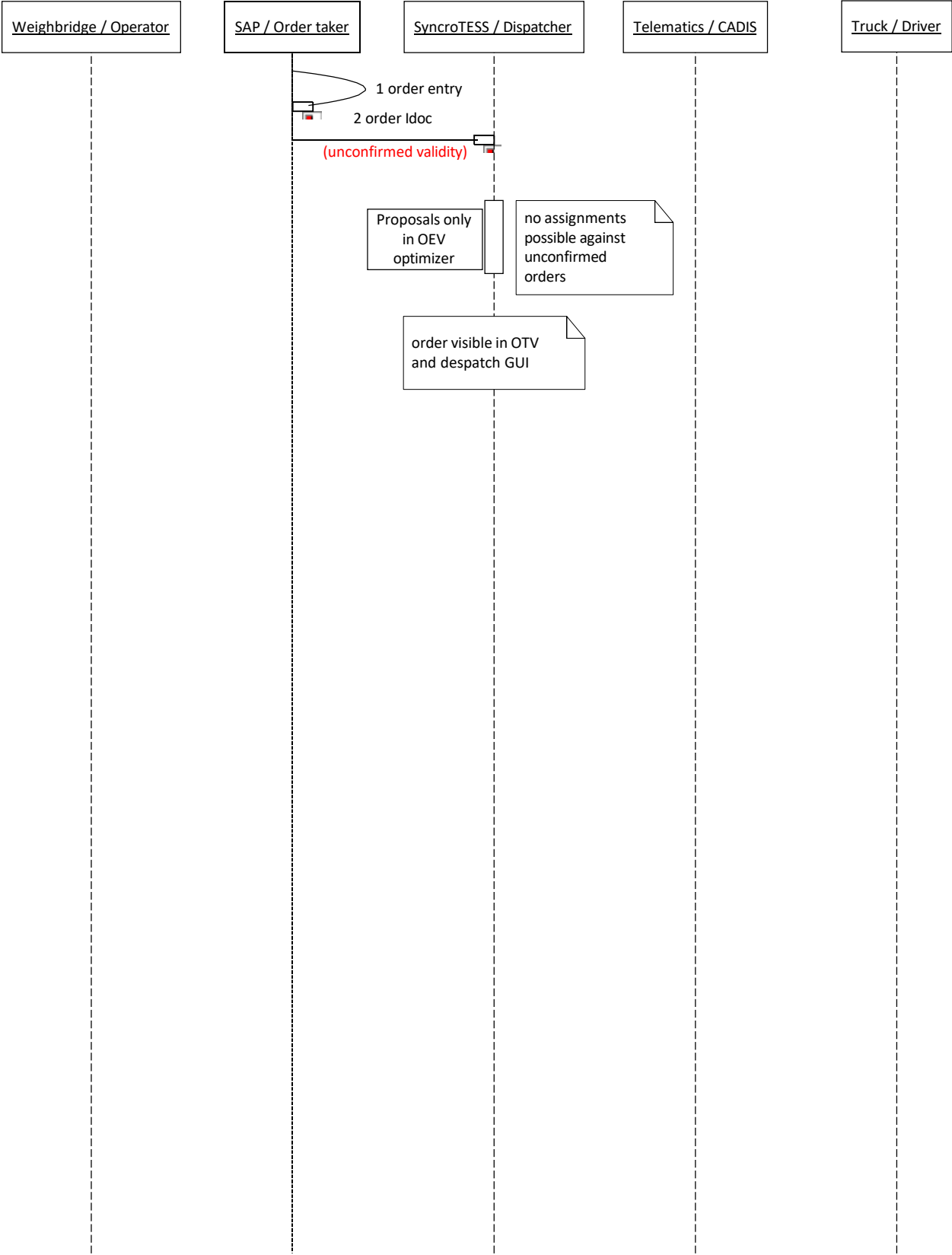
Without telematics, follow-up assignment with weighbridge



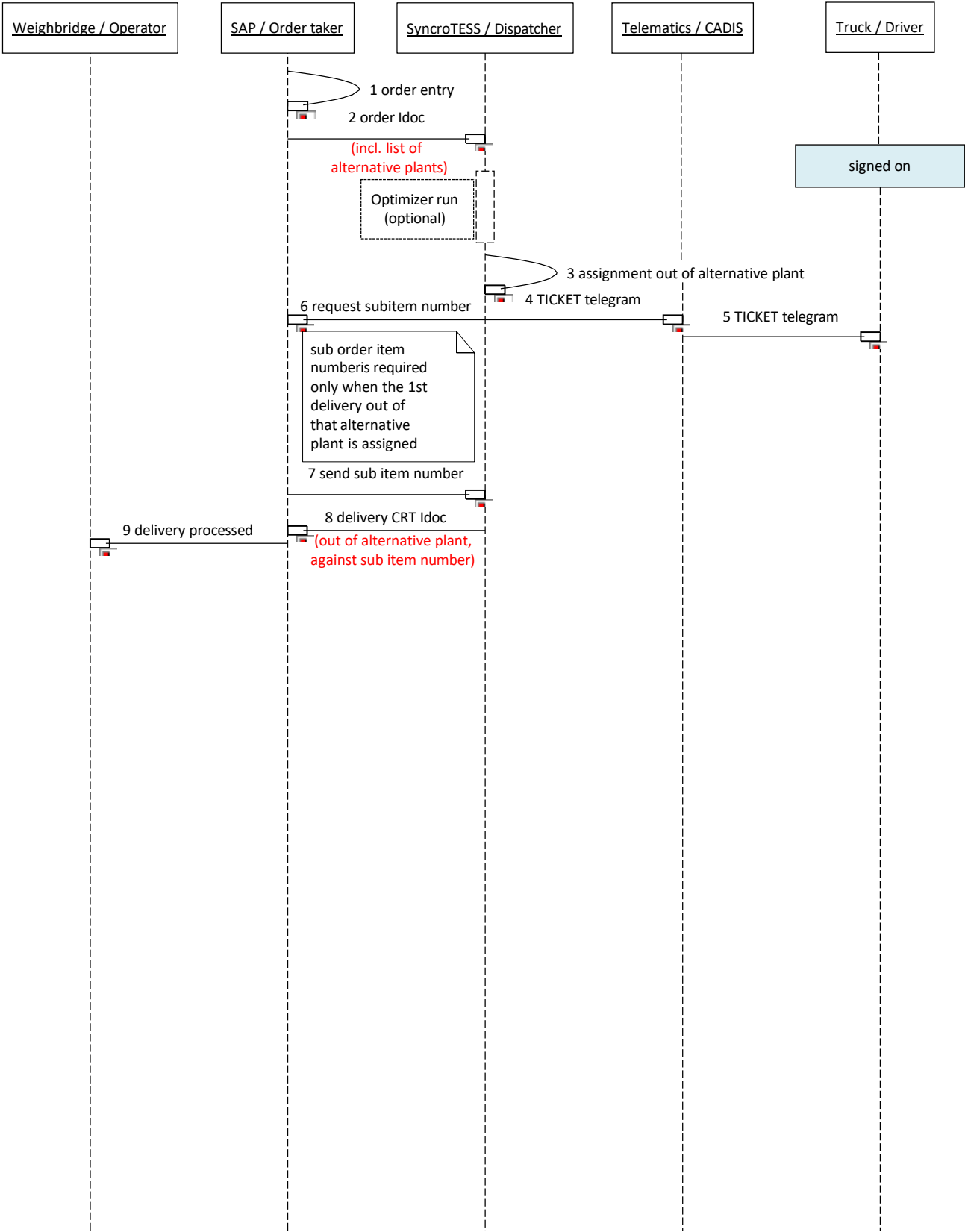
(70) No weighbridge link, without Telematics, Next delivery (Ag, As, Co, Mo, Ce)



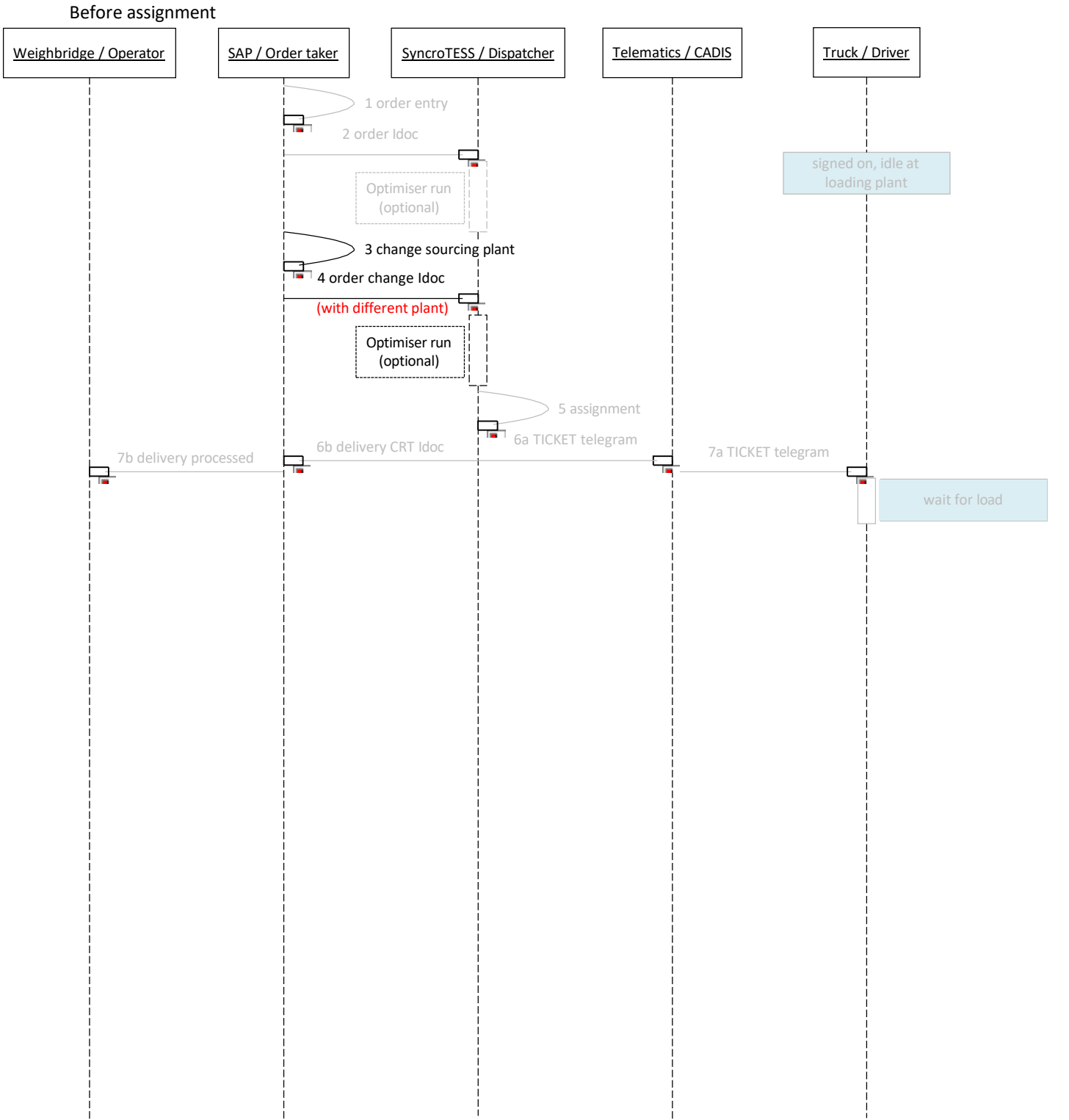
(80) Unconfirmed order (Ag, As, Co, Mo, Ce)



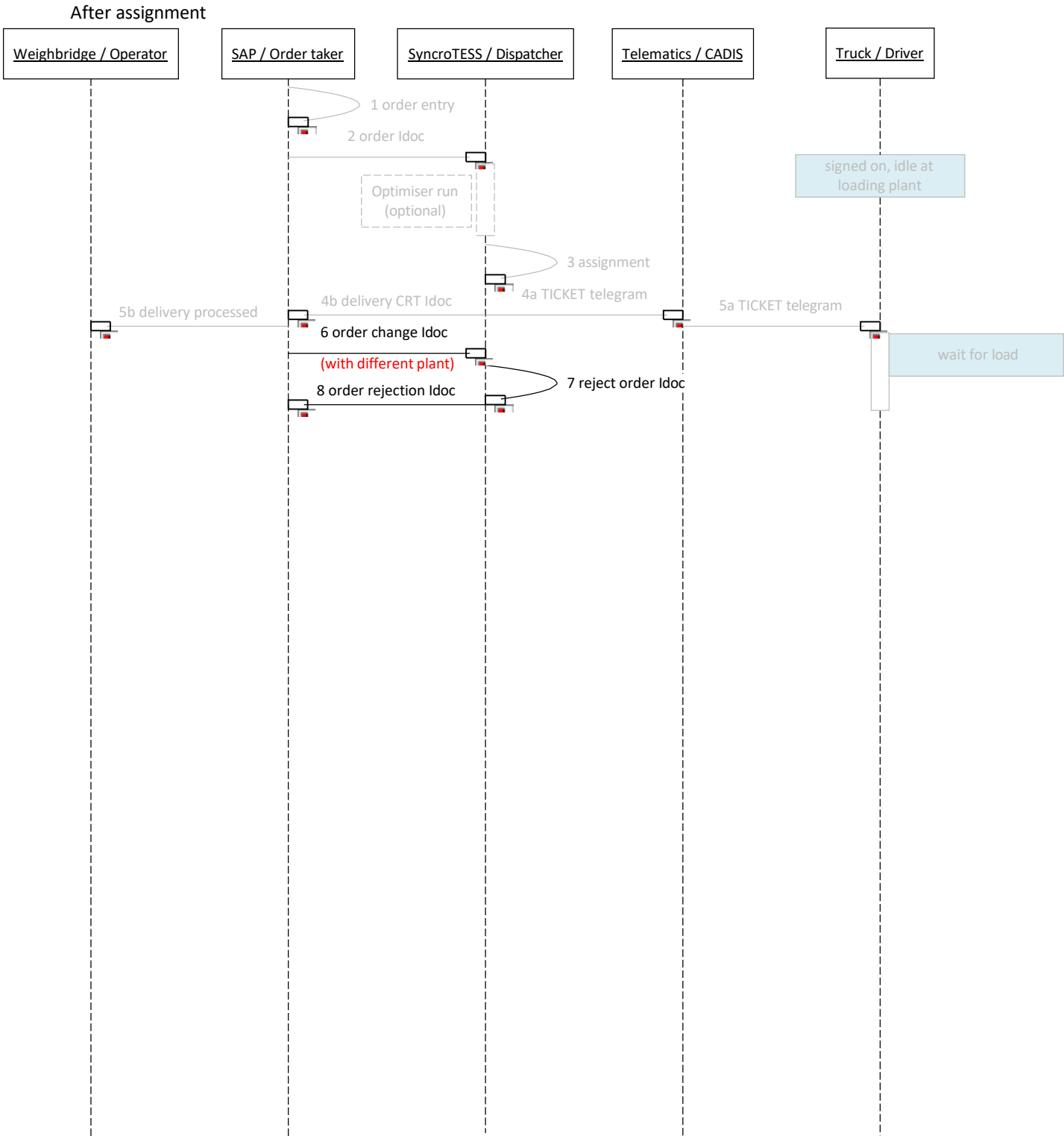
(90) Alternative plant handling in standard scenario (Ag, As, Co, Mo, Ce)



(170) Plant change on SAP order (Ag, As, Co, Mo, Ce)

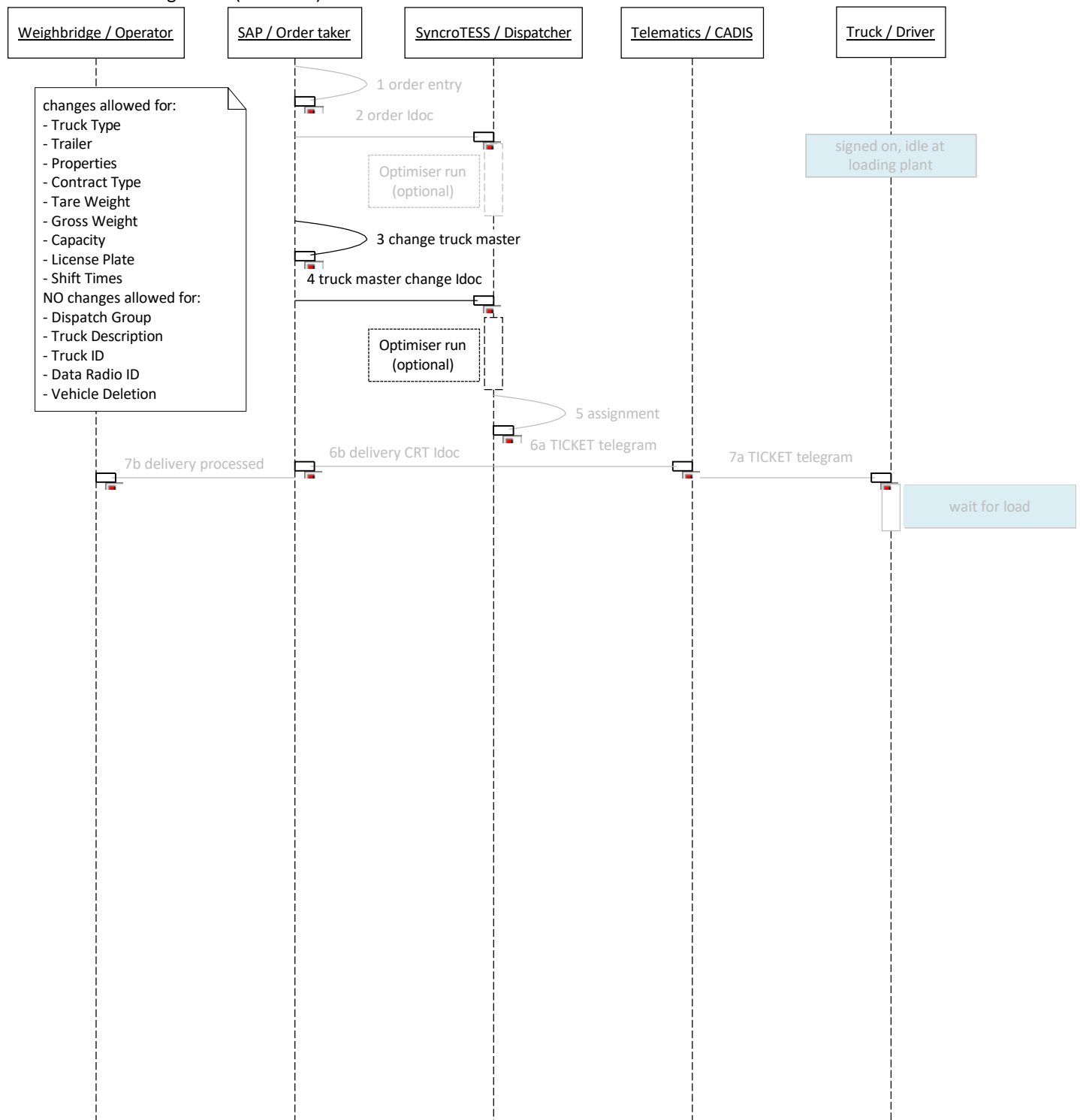


(180) Plant change on SAP order (Ag, As, Co, Mo, Ce)



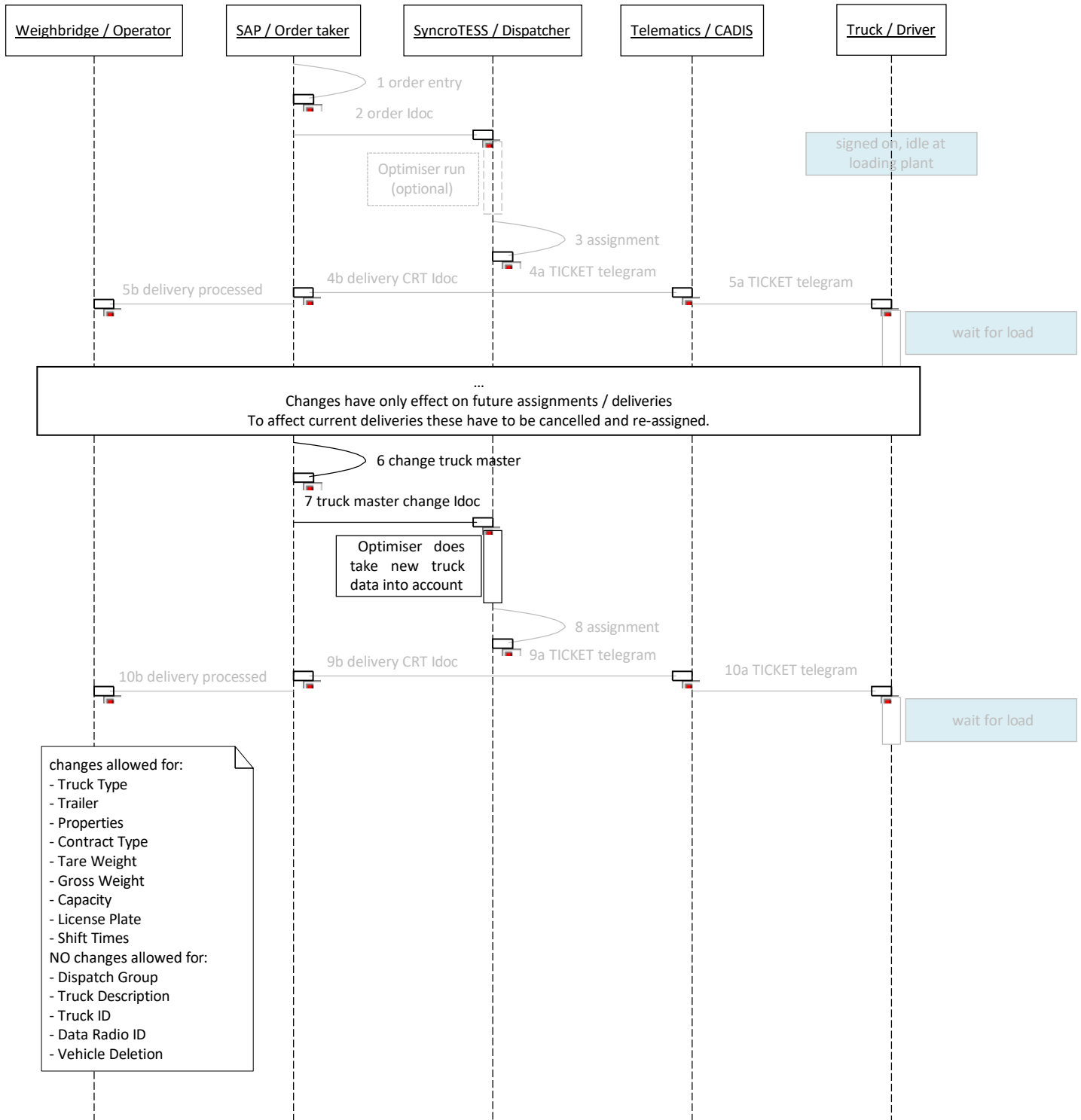
(190) Update truck master (Ag, As, Co, Mo, Ce)

Before assignment (idle truck)



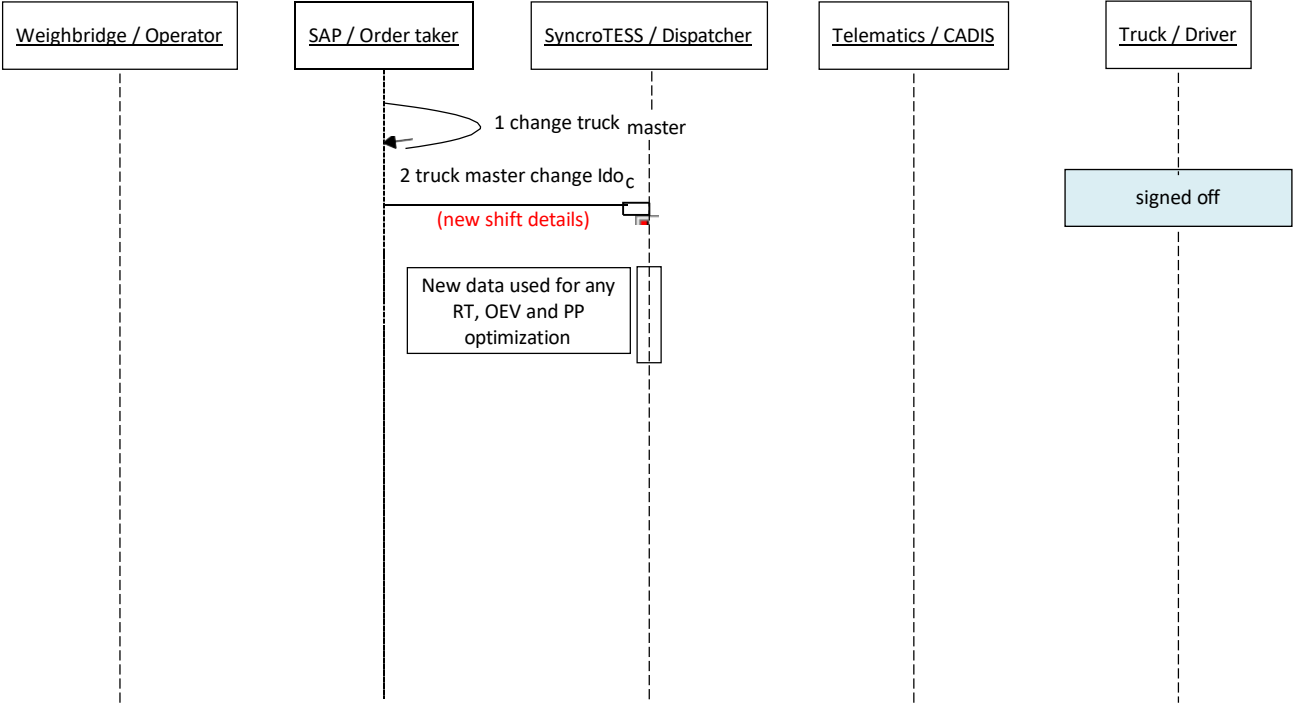
(200) Update truck master (Ag, As, Co, Mo, Ce)

After assignment (working truck)

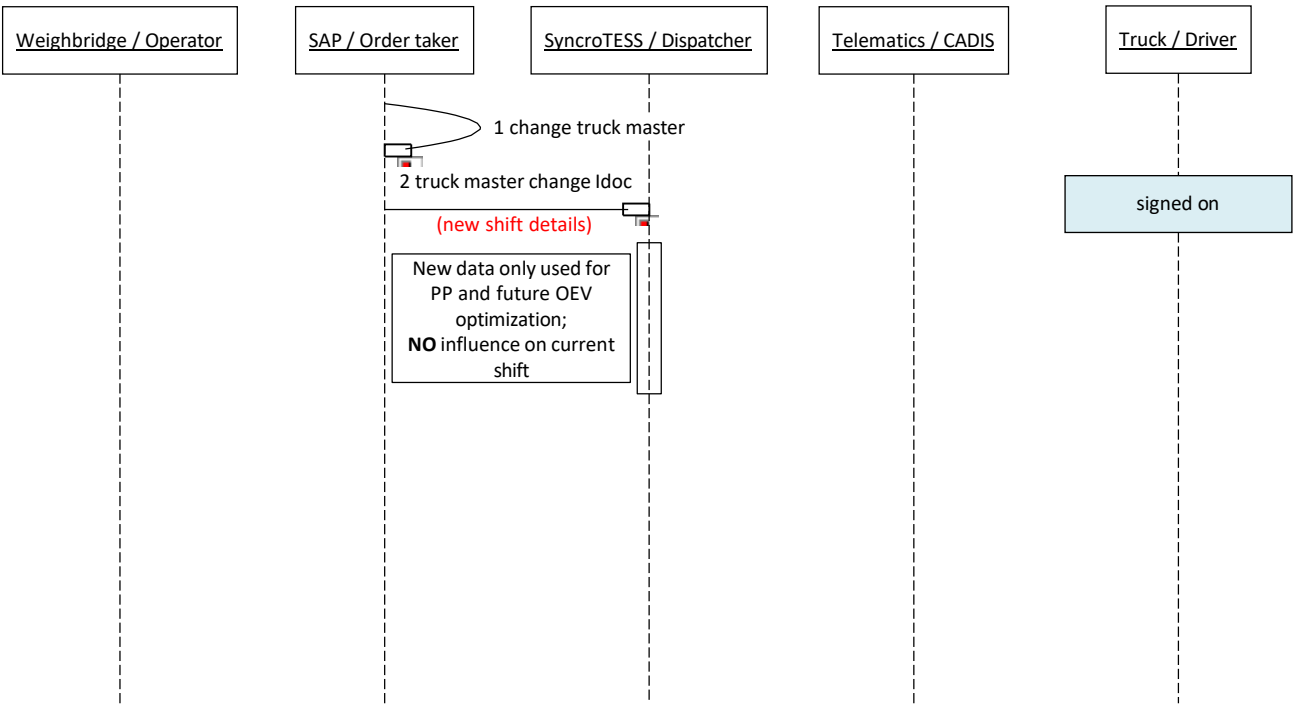


(140) Update to the truck shift (Ag, As, Co, Mo, Ce)

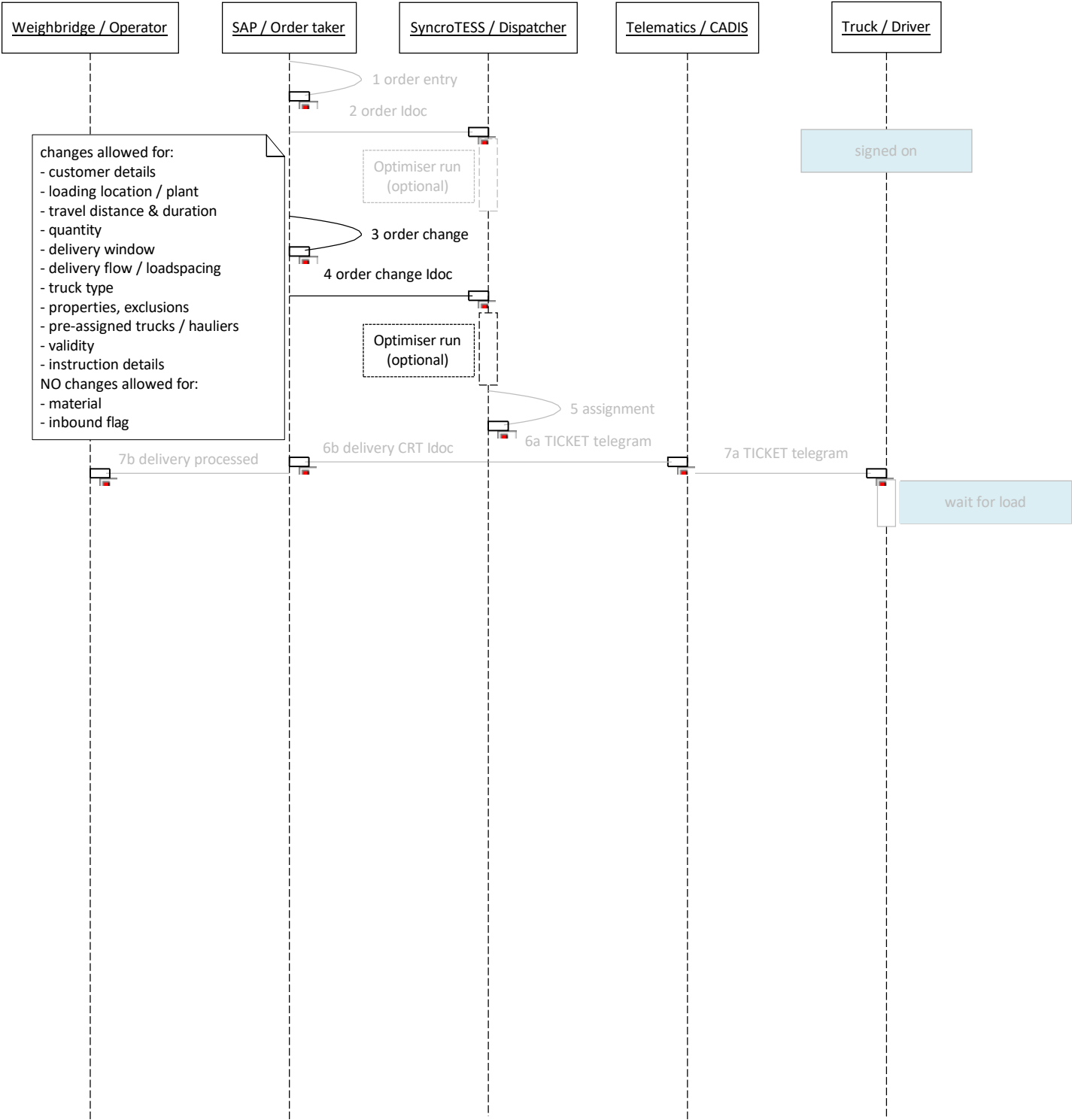
(a) Truck off duty



(b) Truck on duty

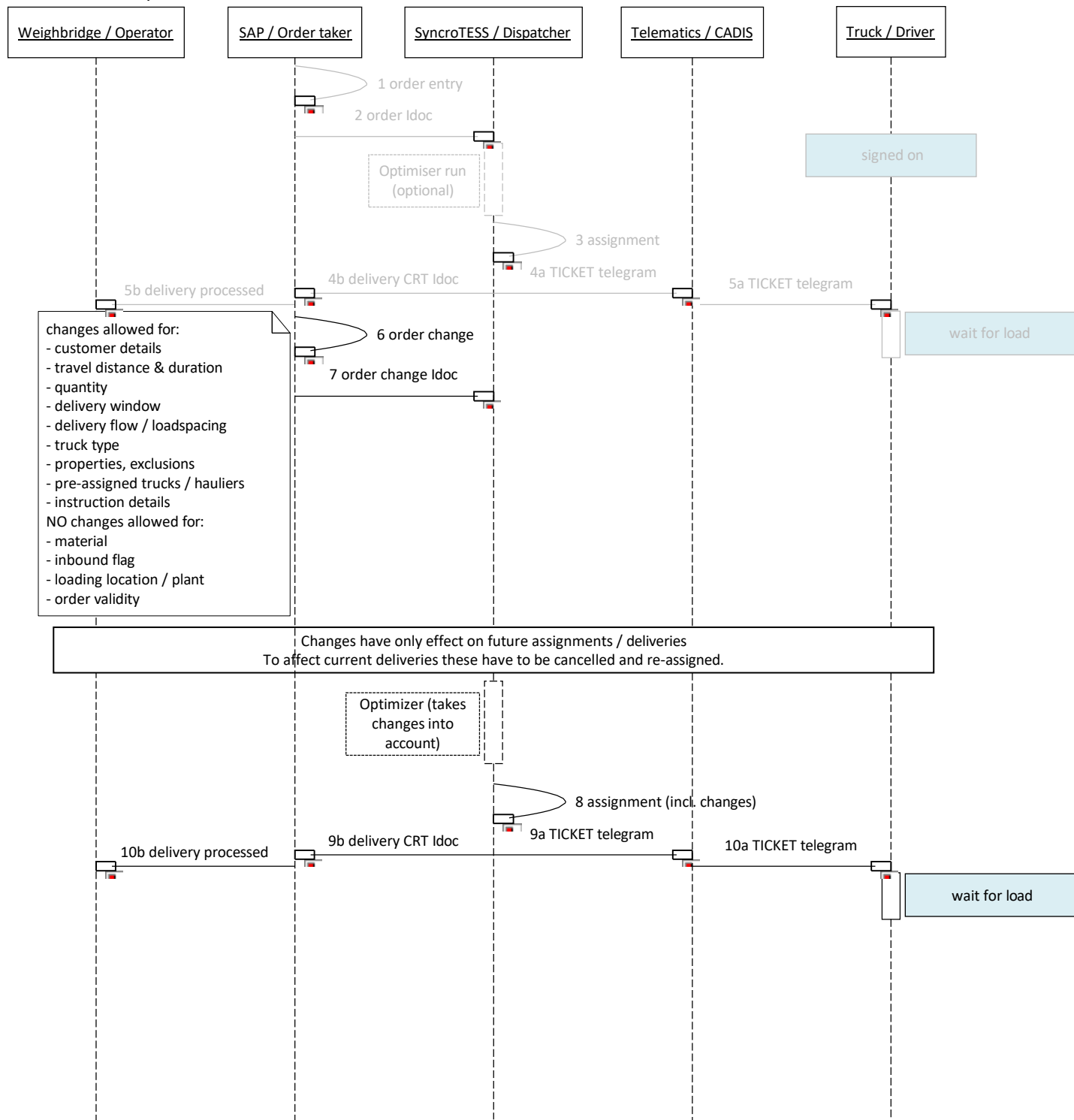


(150) Order change before any assignment (Ag, As, Co, Mo, Ce)

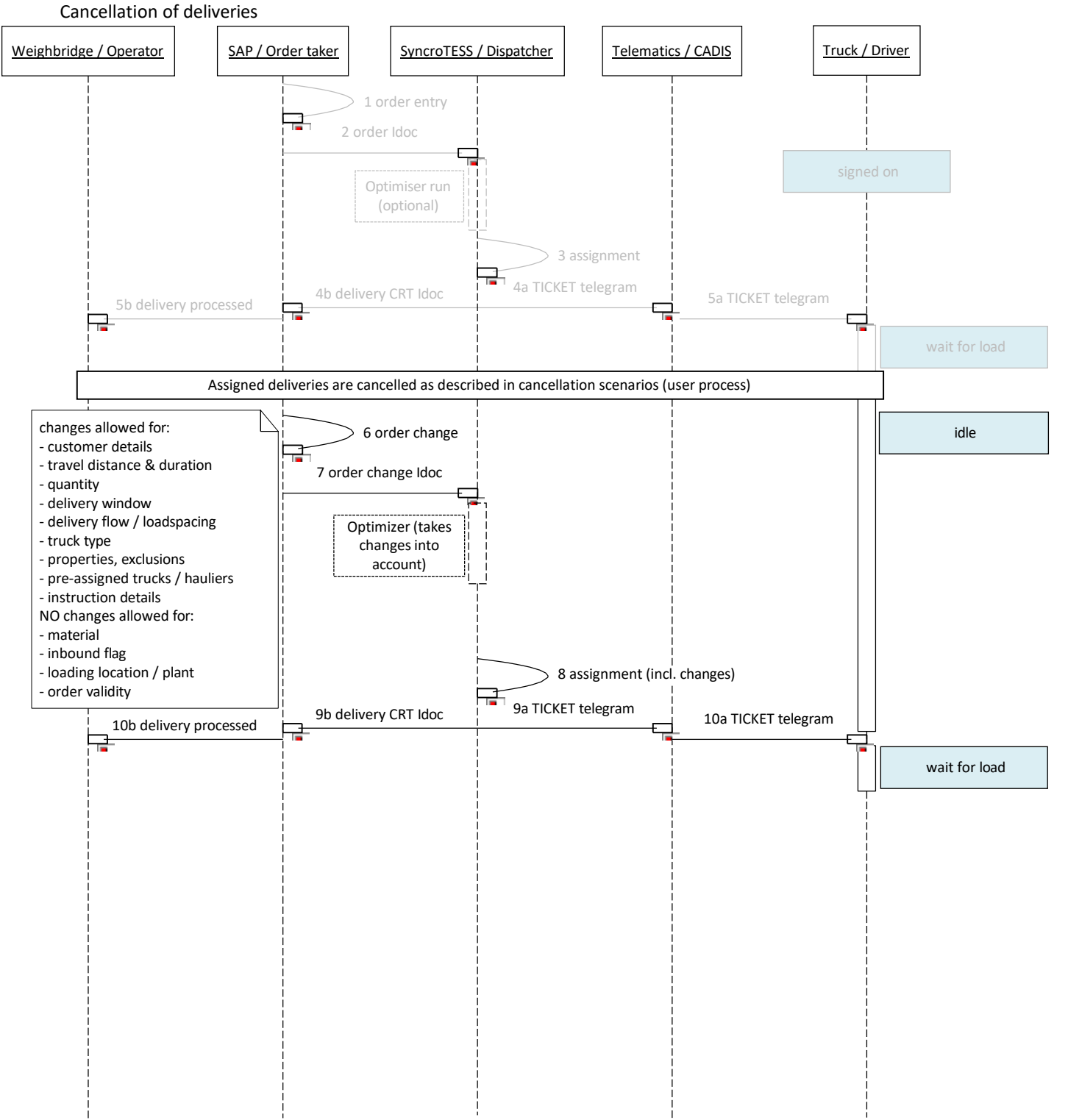


(230) Order change after assignment (Ag, As, Co, Mo, Ce)

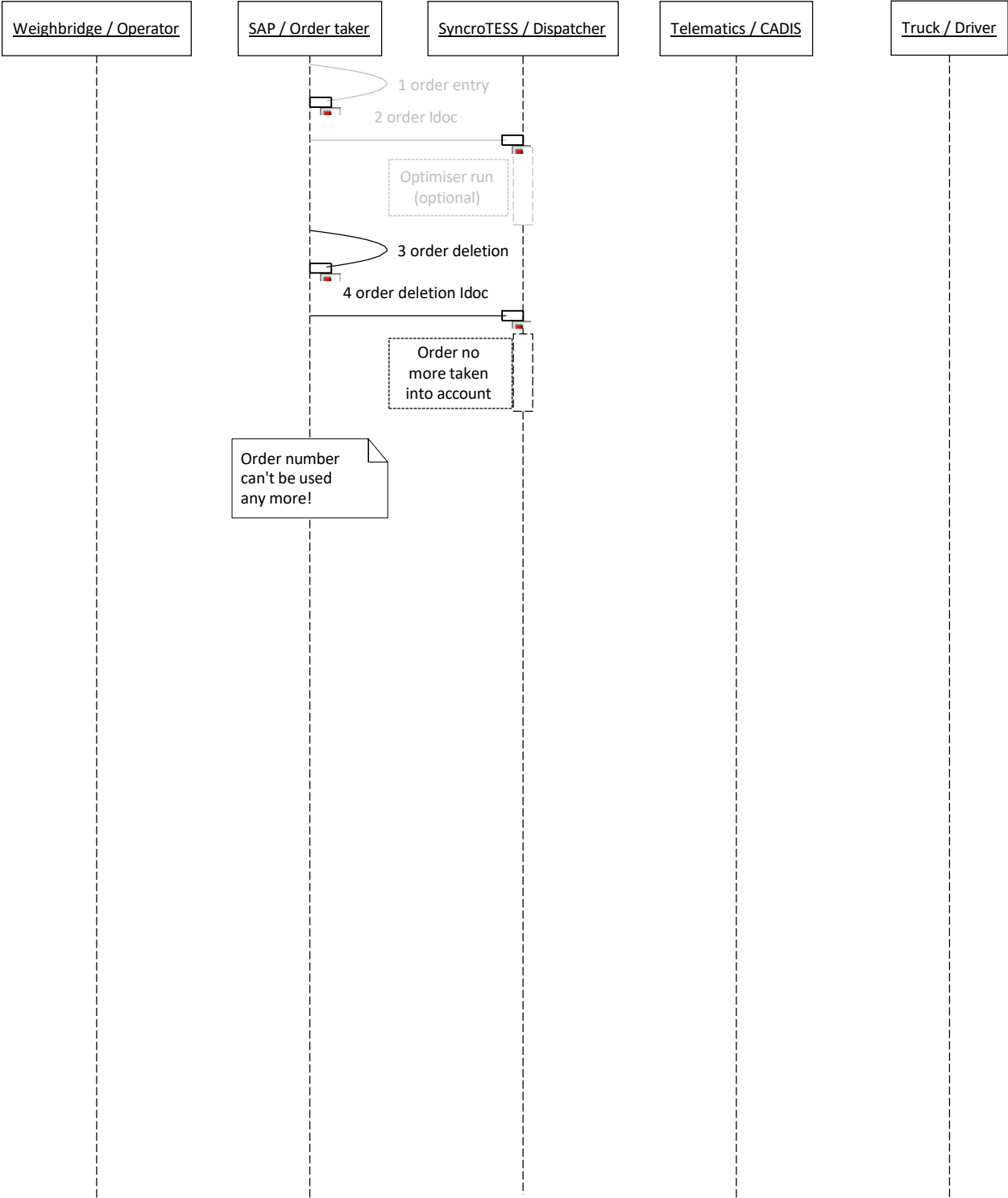
No delivery cancellation



(240) Order change after assignment (Ag, As, Co, Mo, Ce)

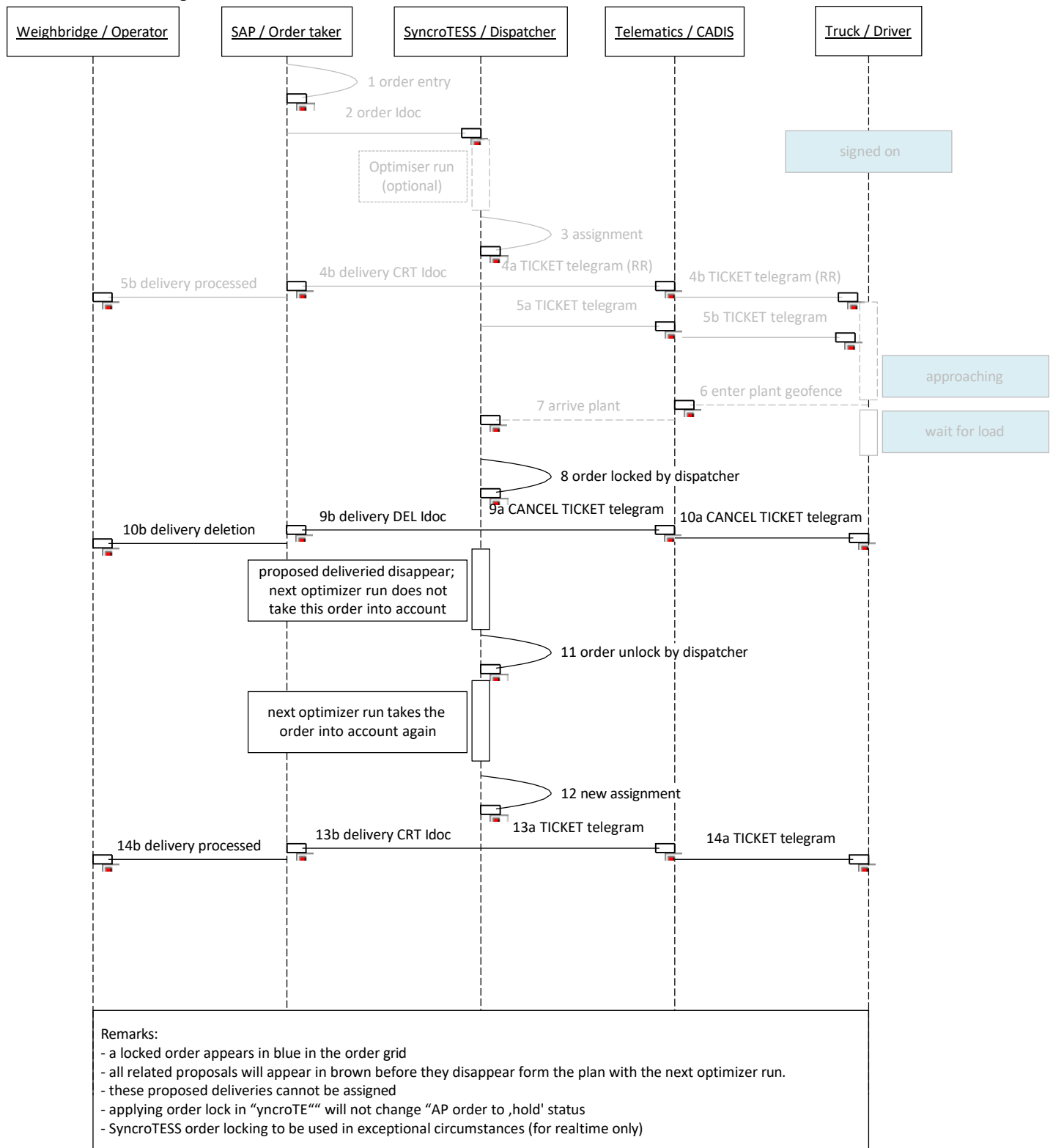


(180) Order deletion before any assignment (Ag, As, Co, Mo, Ce)



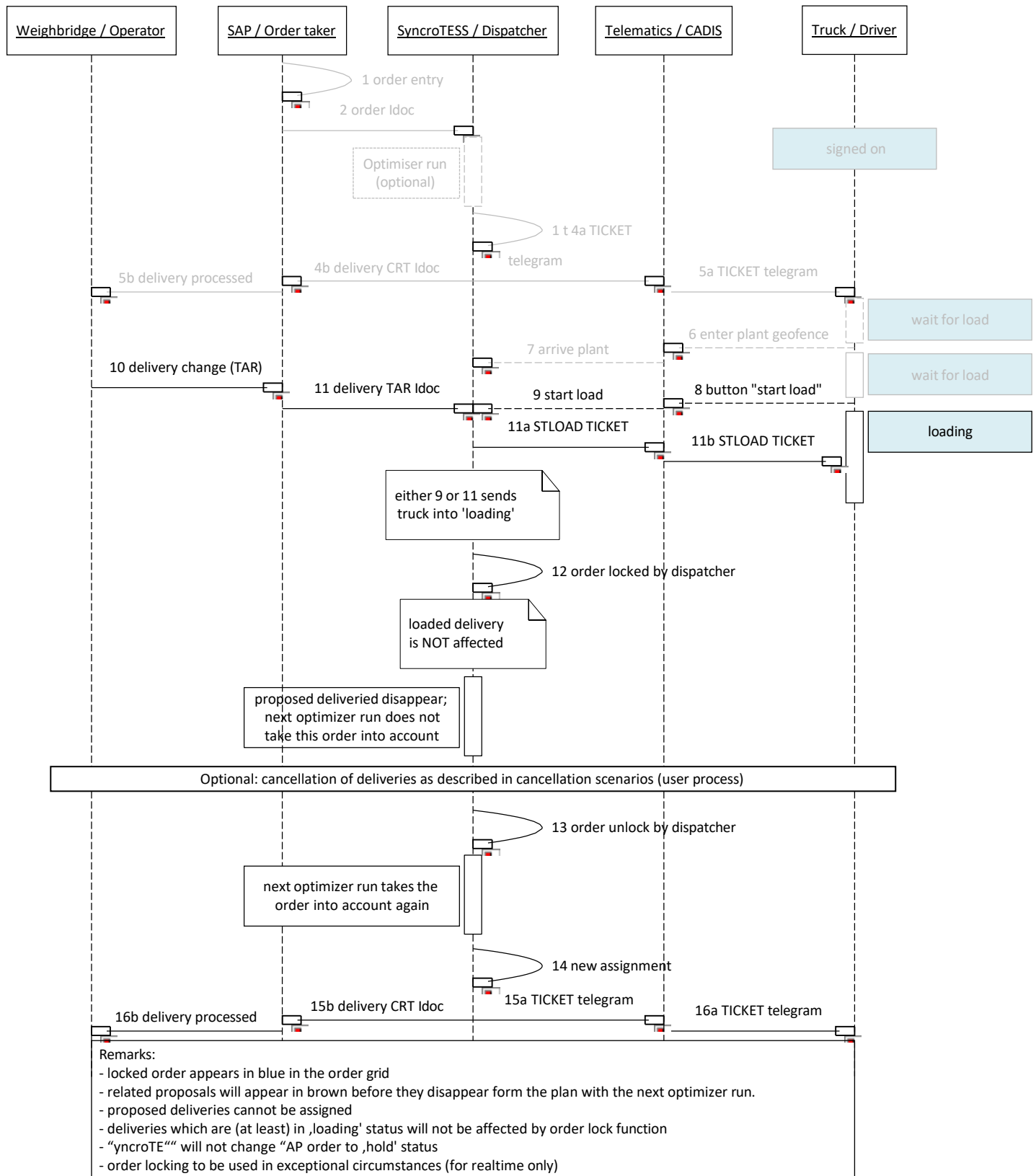
(260) Order locking via SyncroTESS (Ag, As, Co, Mo, Ce)

Before Loading

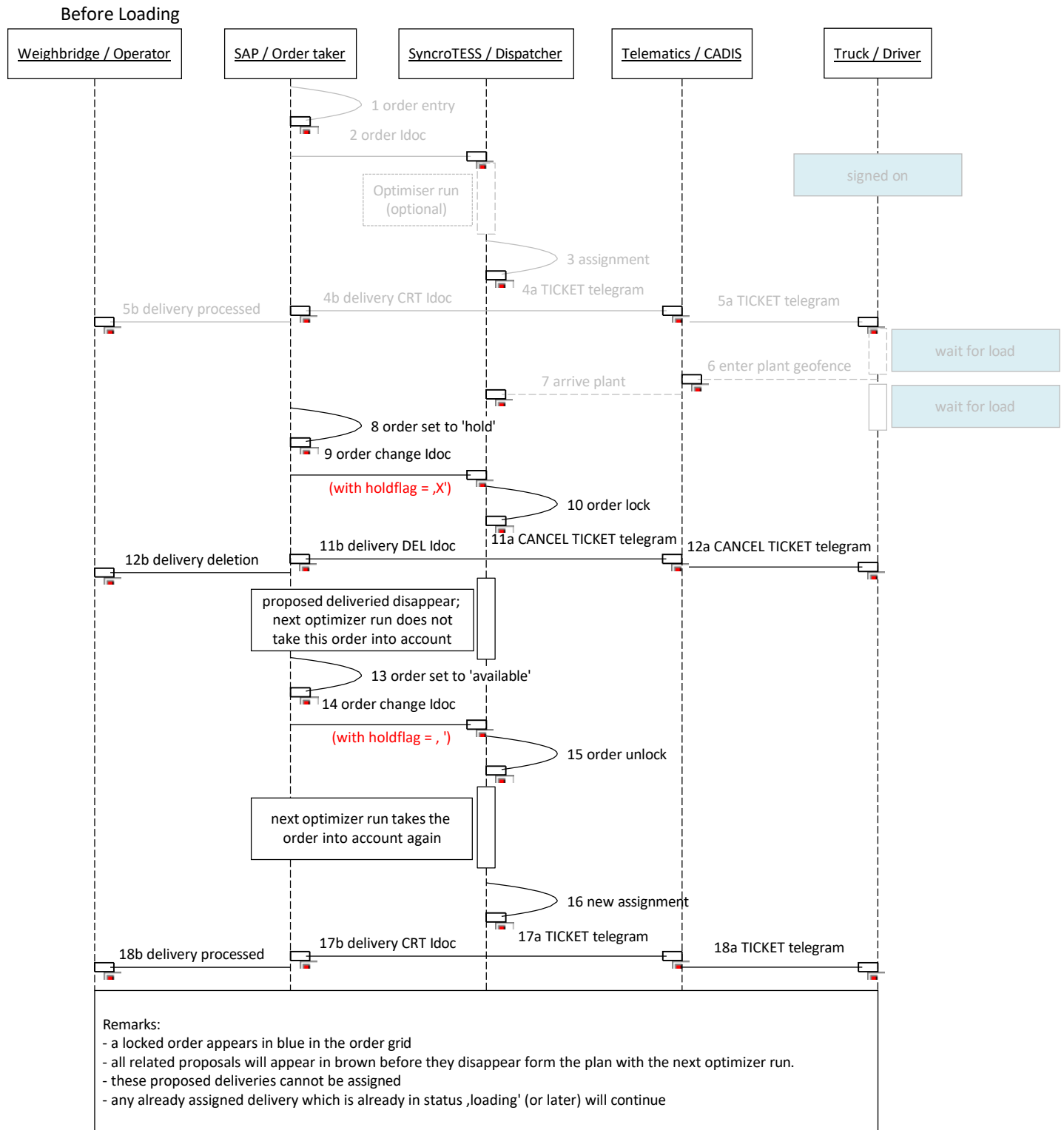


(270) Order locking via SyncroTESS (Ag, As, Co, Mo, Ce)

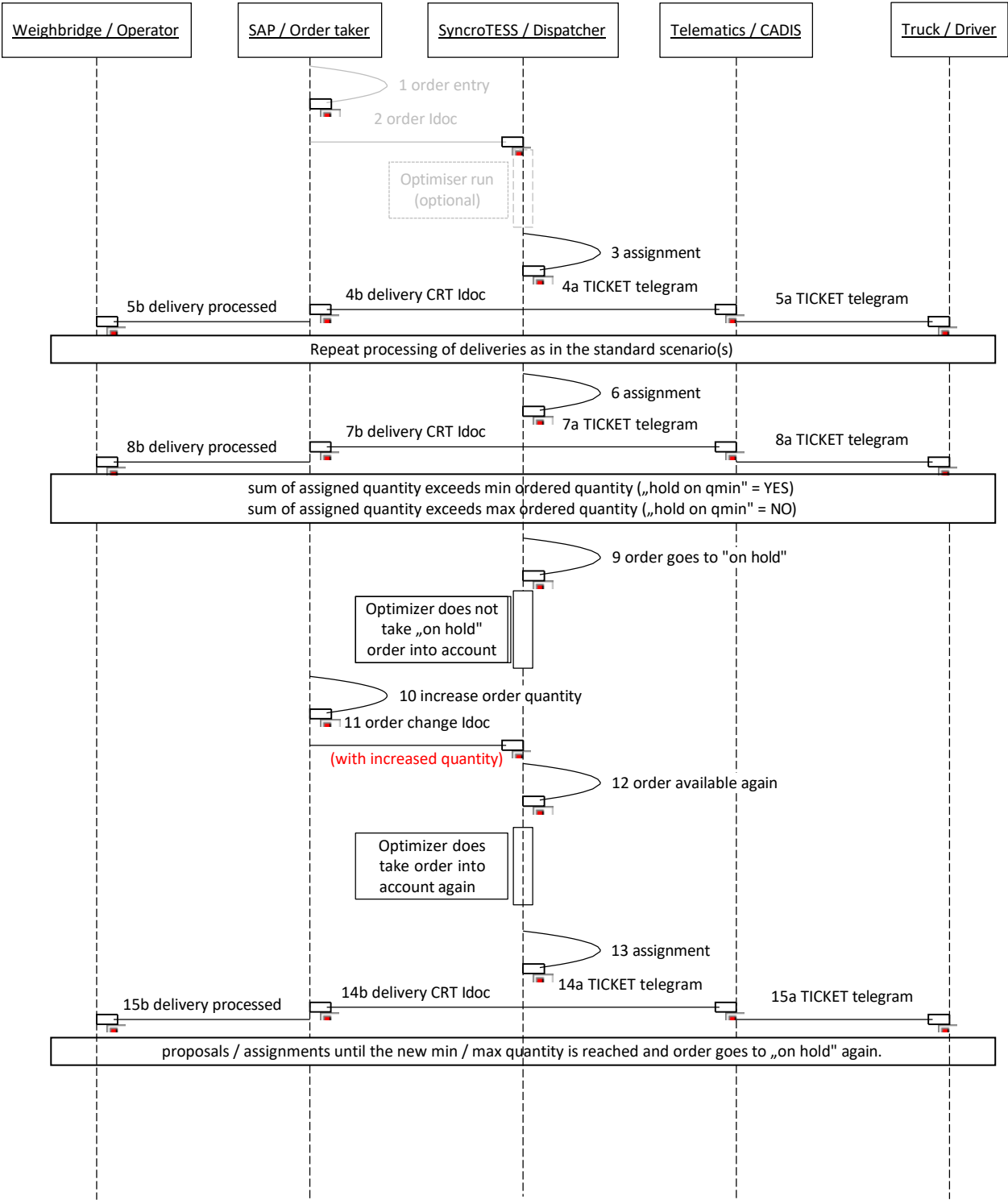
After StartLoad



(210) Order locking via ERP (SAP On-Hold) (Ag, As, Co, Mo, Ce)



(220) Order on hold when Qmin/Qmax is reached (Ag, As, Co, Mo, Ce)



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sequenceDiagram
    participant W as Weighbridge / Operator
    participant S as SAP / Order taker
    participant D as SyncroTESS / Dispatcher
    participant T as Telematics / CADIS
    participant Tr as Truck / Driver

    S->>S: 1 order entry
    S->>S: 2 order Idoc
    S->>S: Optimiser run (optional)
    S->>S: 3 assignment
    S->>S: 4a TICKET telegram (RR)
    S->>S: 4b TICKET telegram (RR)
    S->>S: 5a TICKET telegram (incl. preload flag)
    S->>S: 5b TICKET telegram (incl. preload flag)
    S->>S: 5c delivery CRT Idoc (incl. preload flag)
    S->>S: 5d delivery processed
    S->>S: 10 delivery change (TAR)
    S->>S: 11 delivery TAR Idoc
    S->>S: 12 Weighing / Batching
    S->>S: 13 delivery change
    S->>S: 17 print delivery note
    S->>S: 14 delivery CHG Idoc
    S->>S: 14a Change TICKET (incl. updated quantity)
    S->>S: 14b Change TICKET (incl. updated quantity)
    S->>S: 16 leave plant
    S->>S: 20 enter parking geofence
    S->>S: 21 arrive parking
    S->>S: 22 truck automatically signed off
    S->>S: 23 sign off
    S->>S: 24 sign off message
    S->>S: 25 sign off message
    S->>S: Ignore message

    Tr->>Tr: signed on
    Tr->>Tr: returning / approaching
    Tr->>Tr: wait for load
    Tr->>Tr: loading
    Tr->>Tr: homeing
    Tr->>Tr: 14c update qty; substatus „post load”
    Tr->>Tr: 23 sign off
    Tr->>Tr: signed off

    Note over S,D: 3 assignment
    Note over S,D: - Loading
    Note over S,D: - SignOff
    Note over S,D: - SignOn
    Note over S,D: - Unloading

    Note over D: 7 arrive plant
    Note over D: 9 start load
    Note over D: 11a STLOAD TICKET
    Note over D: 11b STLOAD TICKET
    Note over D: either 9 or 11 sends truck into 'loading'

    Note over W: load and delivery date to be printed on ticket

    Note over S,D: from here follow scenario 270
  
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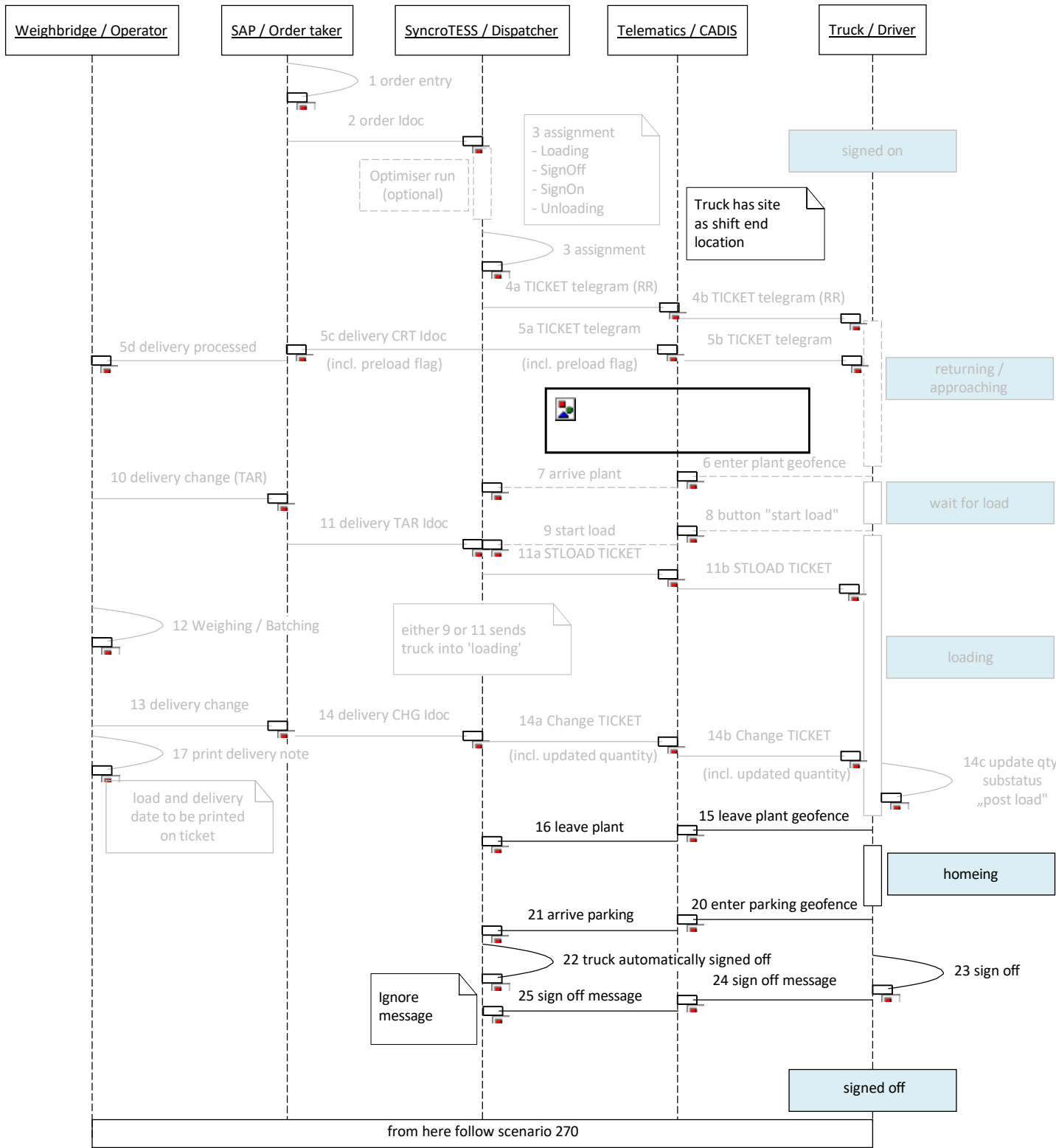
sequenceDiagram
    participant W as Weighbridge / Operator
    participant S as SAP / Order taker
    participant D as SyncroTESS / Dispatcher
    participant T as Telematics / CADIS
    participant U as Truck / Driver

    S->>S: 1 order entry
    S->>S: 2 order Idoc
    S->>D: 3 assignment  
- Loading  
- SignOff  
- SignOn  
- Unloading
    D->>D: 3 assignment
    D->>D: 4a TICKET telegram (RR)
    D->>T: 4b TICKET telegram (RR)
    T->>U: 4b TICKET telegram (RR)
    U->>U: signed on
    U->>T: 5b TICKET telegram
    T->>D: 5a TICKET telegram  
(incl. preload flag)
    D->>S: 5c delivery CRT Idoc  
(incl. preload flag)
    S->>W: 5d delivery processed
    W->>W: 10 delivery change (TAR)
    W->>S: 11 delivery TAR Idoc
    S->>D: 11a STLOAD TICKET
    D->>T: 11b STLOAD TICKET
    T->>U: 11b STLOAD TICKET
    U->>U: returning / approaching
    U->>U: wait for load
    U->>U: loading
    U->>T: 14c update qty;  
substatus „post load”
    T->>D: 14b Change TICKET  
(incl. updated quantity)
    D->>S: 14a Change TICKET  
(incl. updated quantity)
    S->>W: 13 delivery change
    W->>W: 12 Weighing / Batching
    W->>W: 21 print delivery note
    W->>S: 14 delivery CHG Idoc
    S->>D: 14a Change TICKET  
(incl. updated quantity)
    D->>T: 14b Change TICKET  
(incl. updated quantity)
    T->>U: 14b Change TICKET  
(incl. updated quantity)
    U->>U: 16 enter parking geofence
    U->>T: 18 enter parking geofence
    T->>D: 18 enter parking geofence
    D->>S: 19 arrive parking
    S->>W: 21 sign off
    W->>W: 22 truck off duty
    U->>U: signed off
    
```

from here follow scenario 270

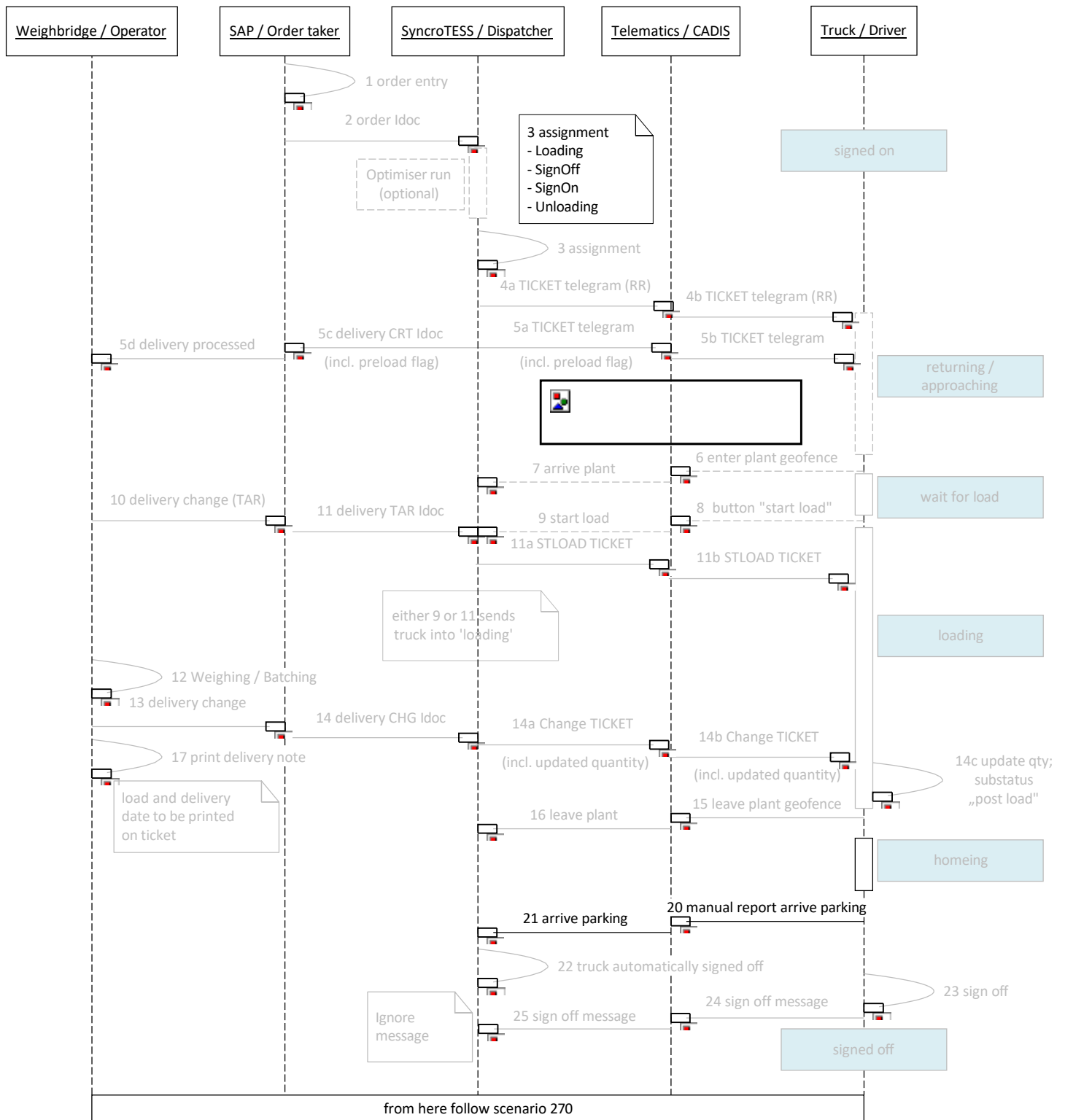
(230) Assign Preload for Truck with Telematics (Ag, Mo, Ce)

(c) Parking at site



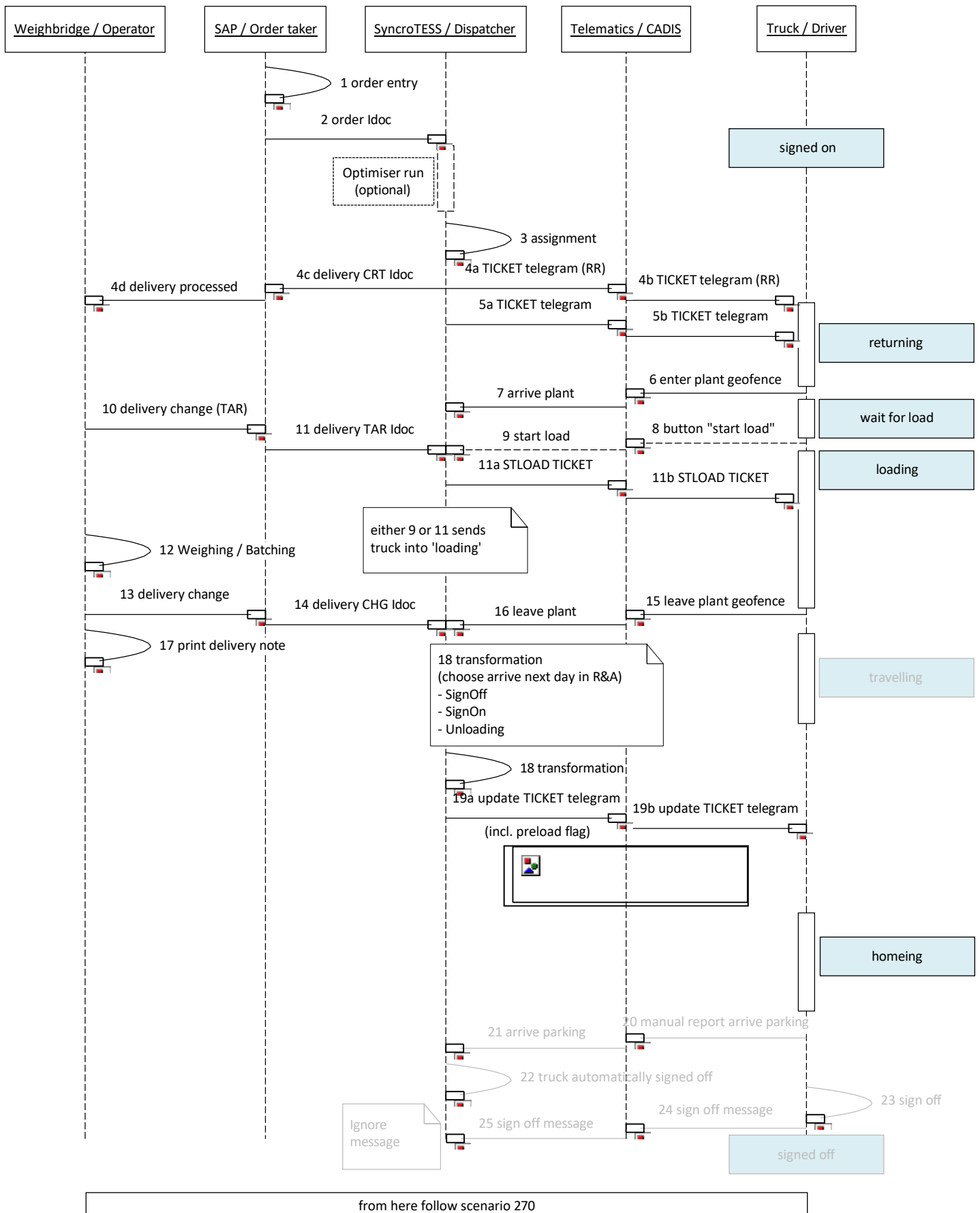
(230) Assign Preload for Truck with Telematics (Ce)

(d) With dynamic parking location – Situation 1a in SCR2600-04

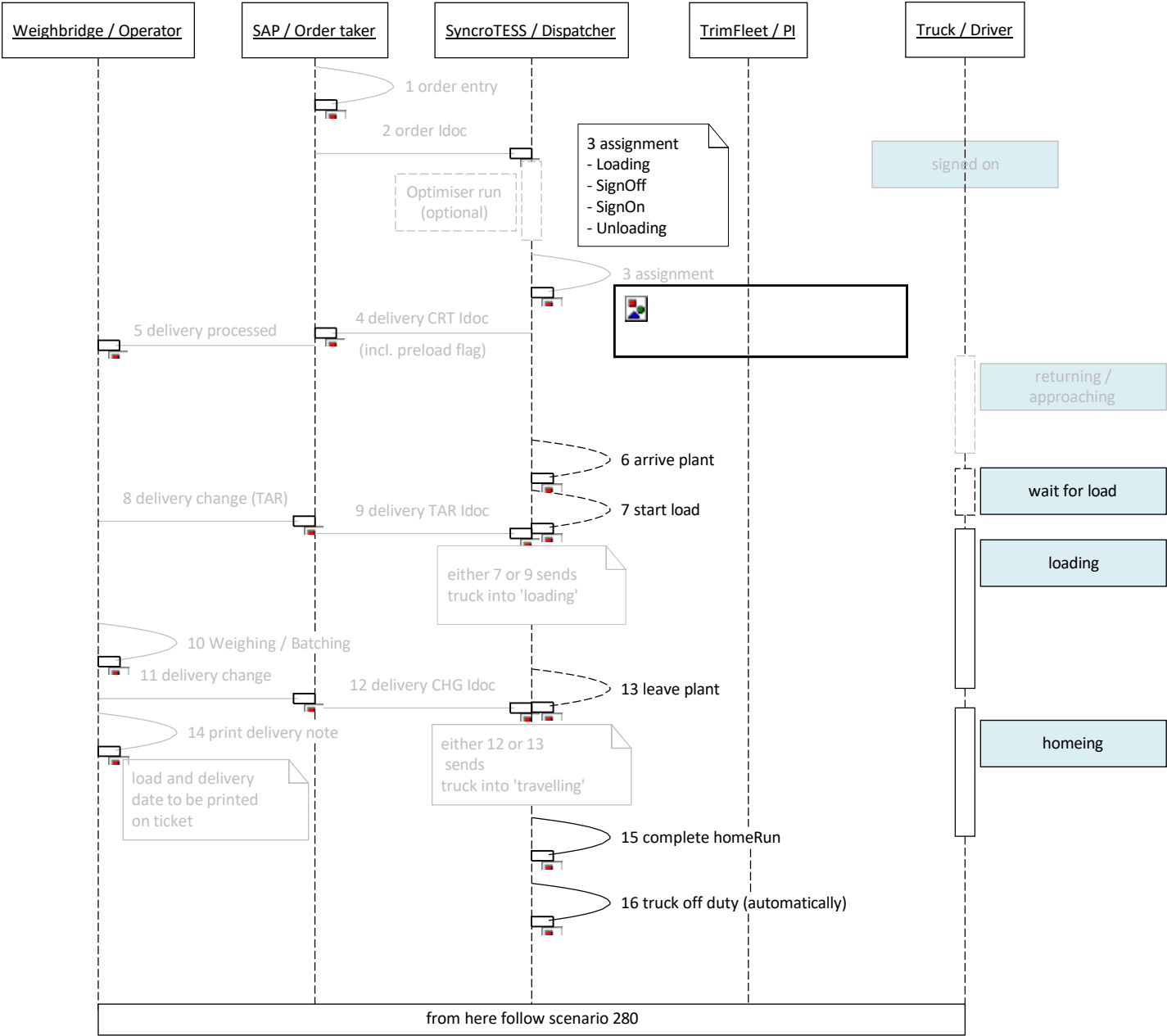


(230) Assign Preload for Truck with Telematics (Ce)

(e) Change regular assignment into PLT assignment with dynamic parking location – Situation 1b in SCR26005-04

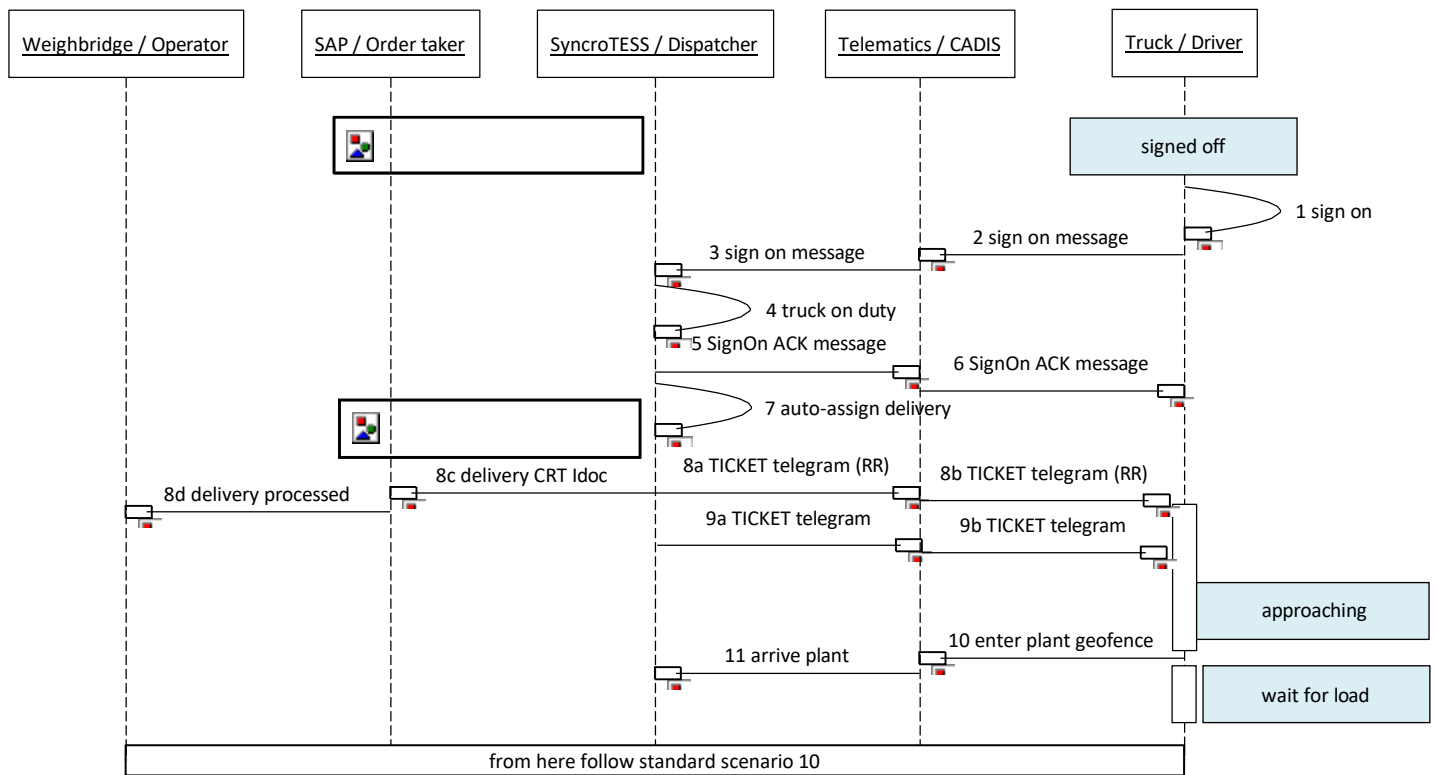


(240) Assign Preload for Truck without Telematics (Ag, Mo, Ce)

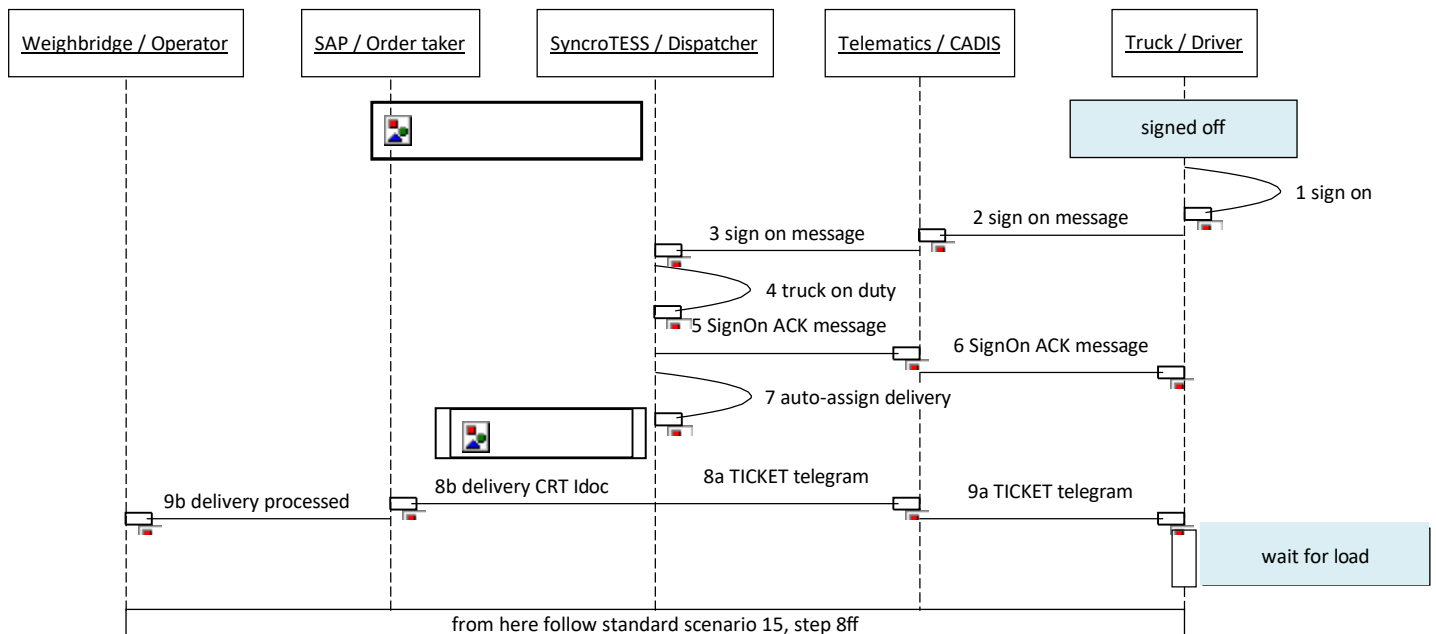


(250) SignOn Truck with Telematics with FAS (Ag, As, Co, Mo, Ce)

(a) external parking location



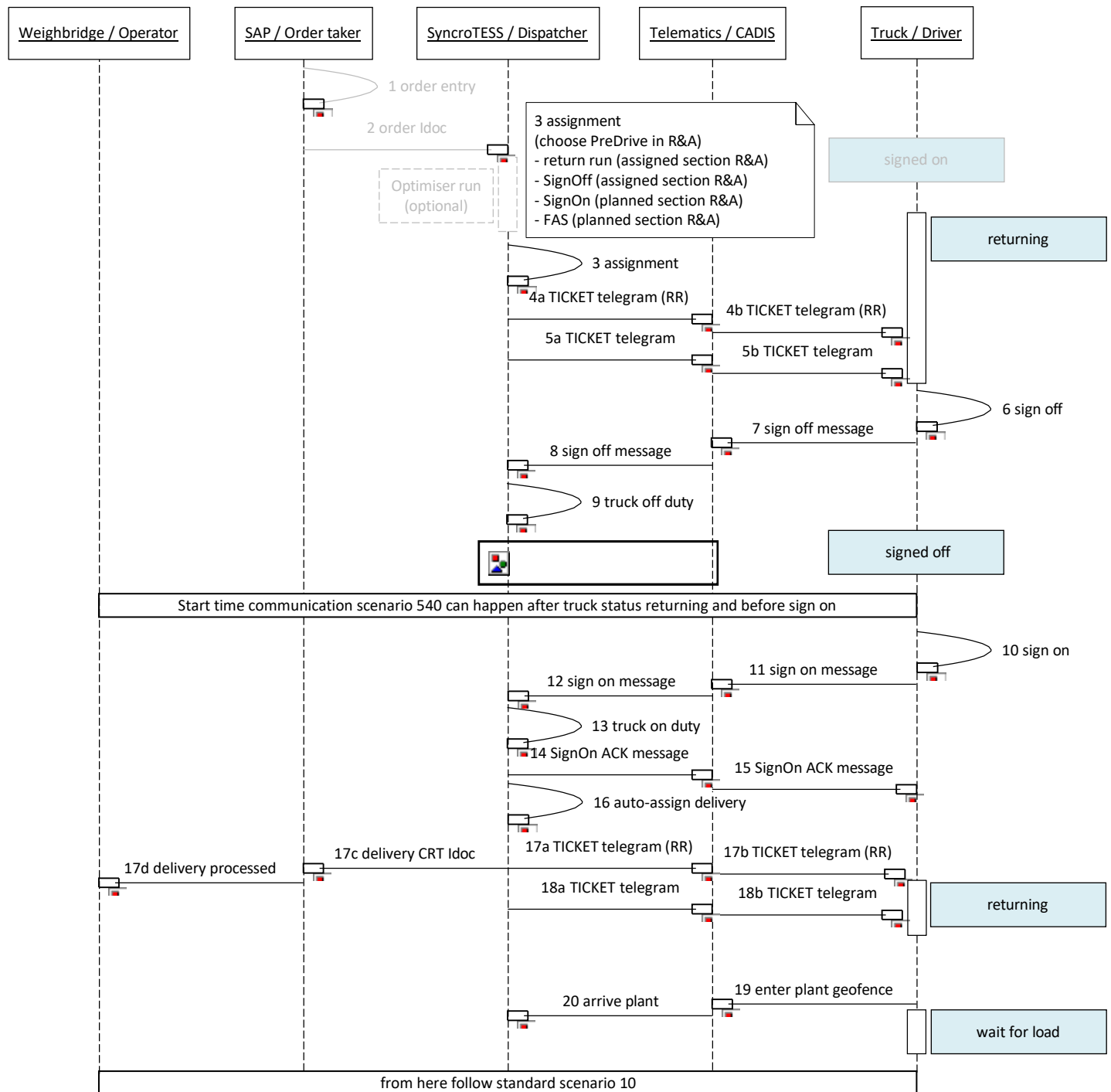
(b) parking at plant



Remarks:
 - If position transmitted with SignOn differs from expected position (cf. SCR 26005-43) Scenario 250b continues after step 6 equal to 250a step 7ff.

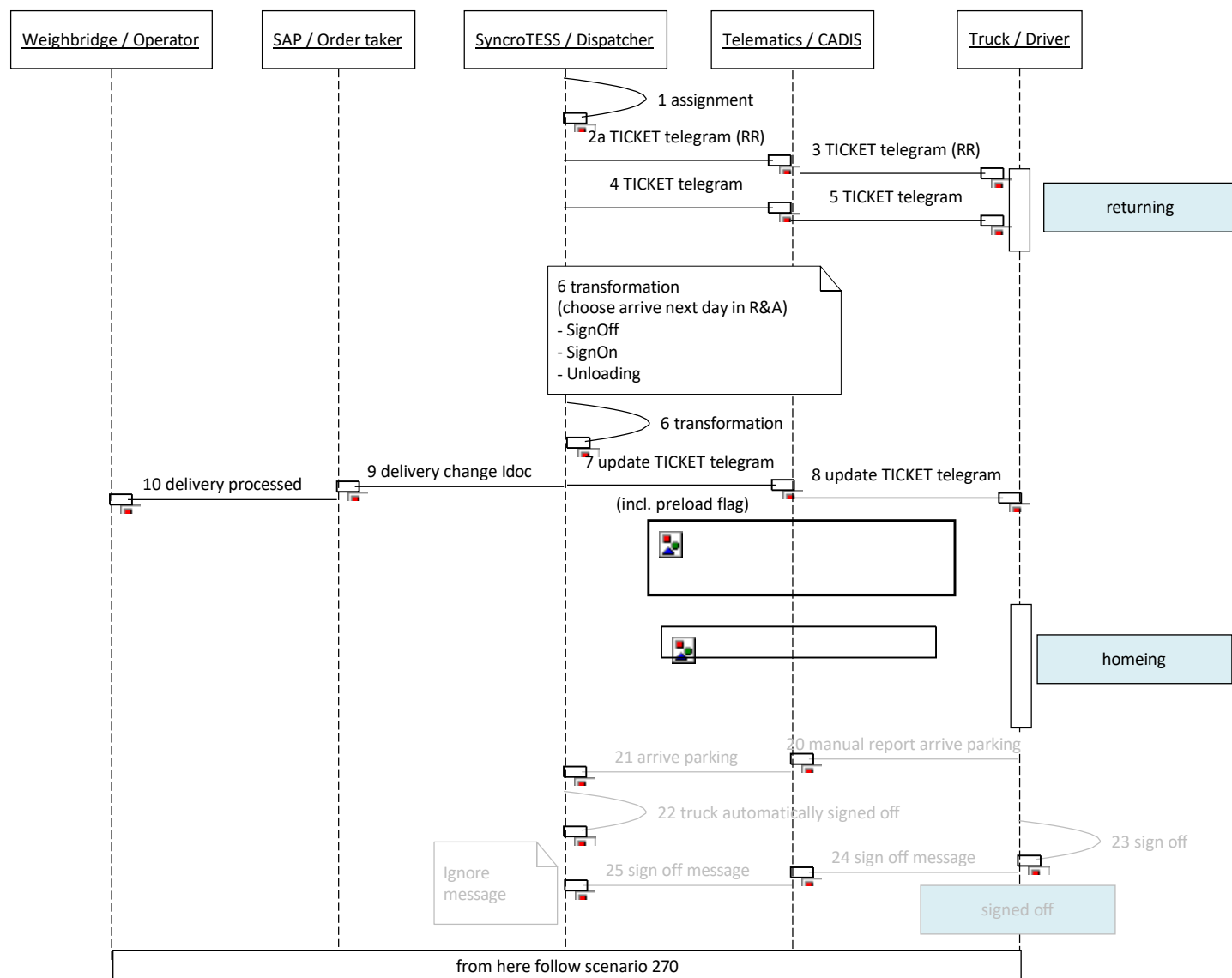
(250) SignOn Truck with Telematics with FAS (Ce)

(c) with dynamic parking location – Situation 2a in SCR26005-04



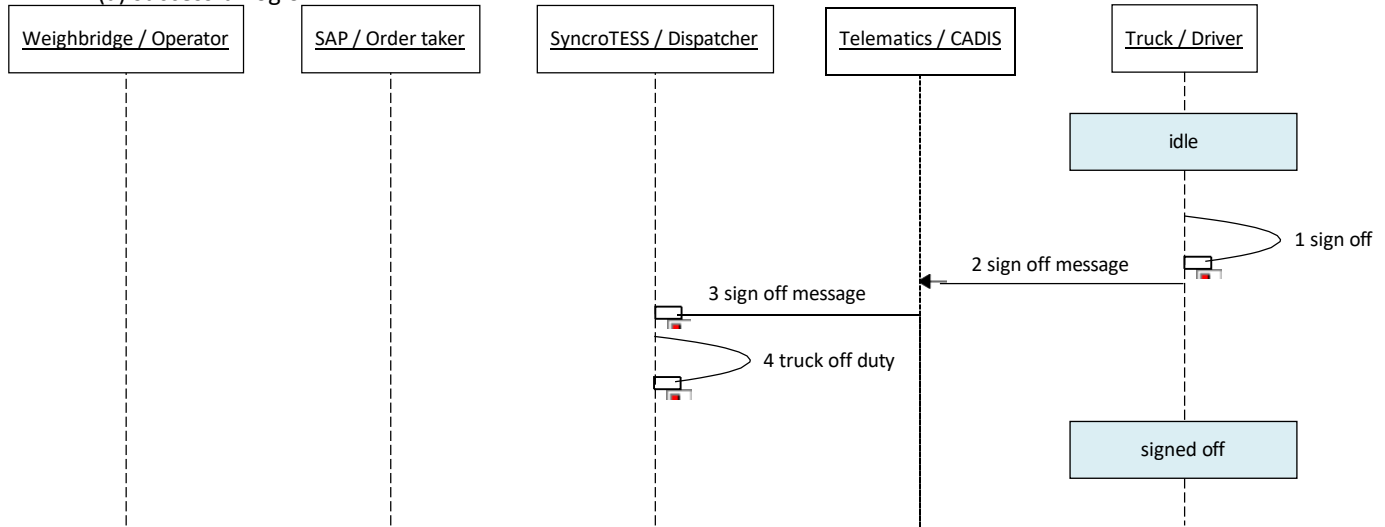
(250) SignOn Truck with Telematics with FAS (Ce)

(d) change regular assignment into assignment with dynamic parking location on the way to the loading point – Situation 2c,d in SCR26005-04

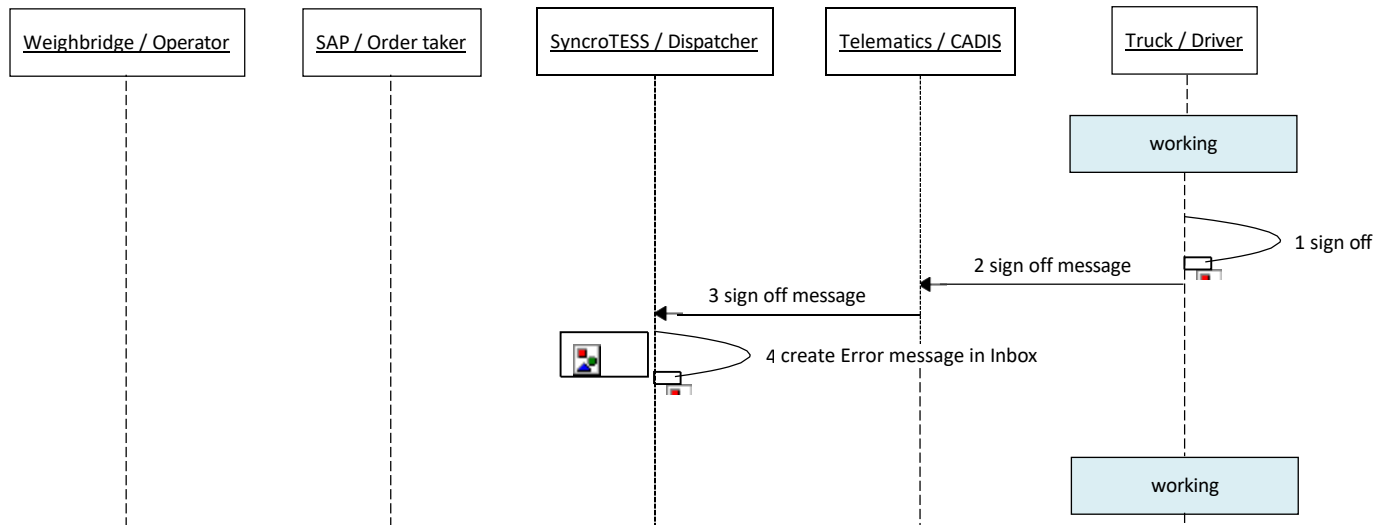


(251) SignOff Truck with Telematics (Ag, As, Co, Mo, Ce)

(a) successful log off

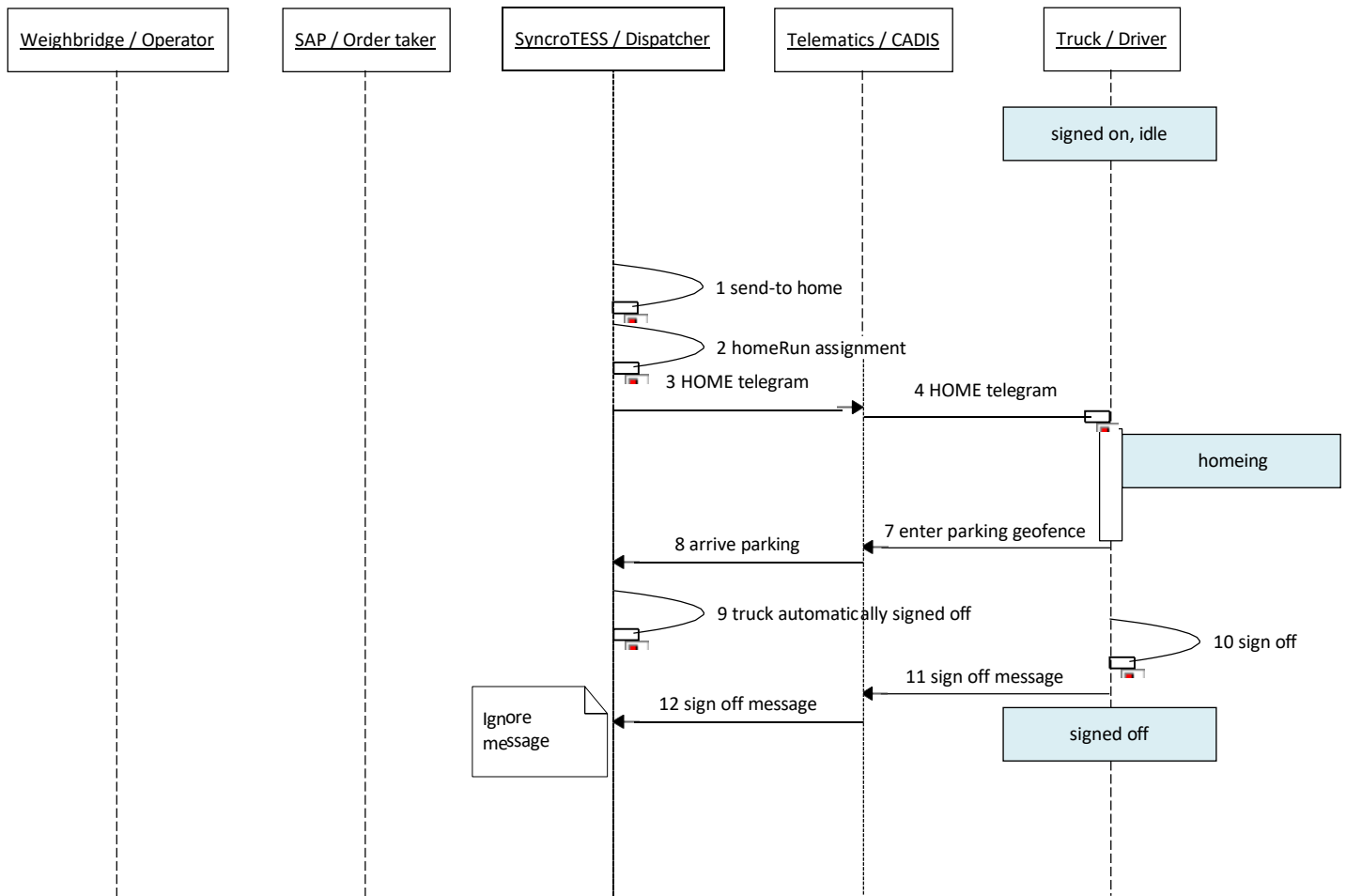


(b) unsuccessful log off



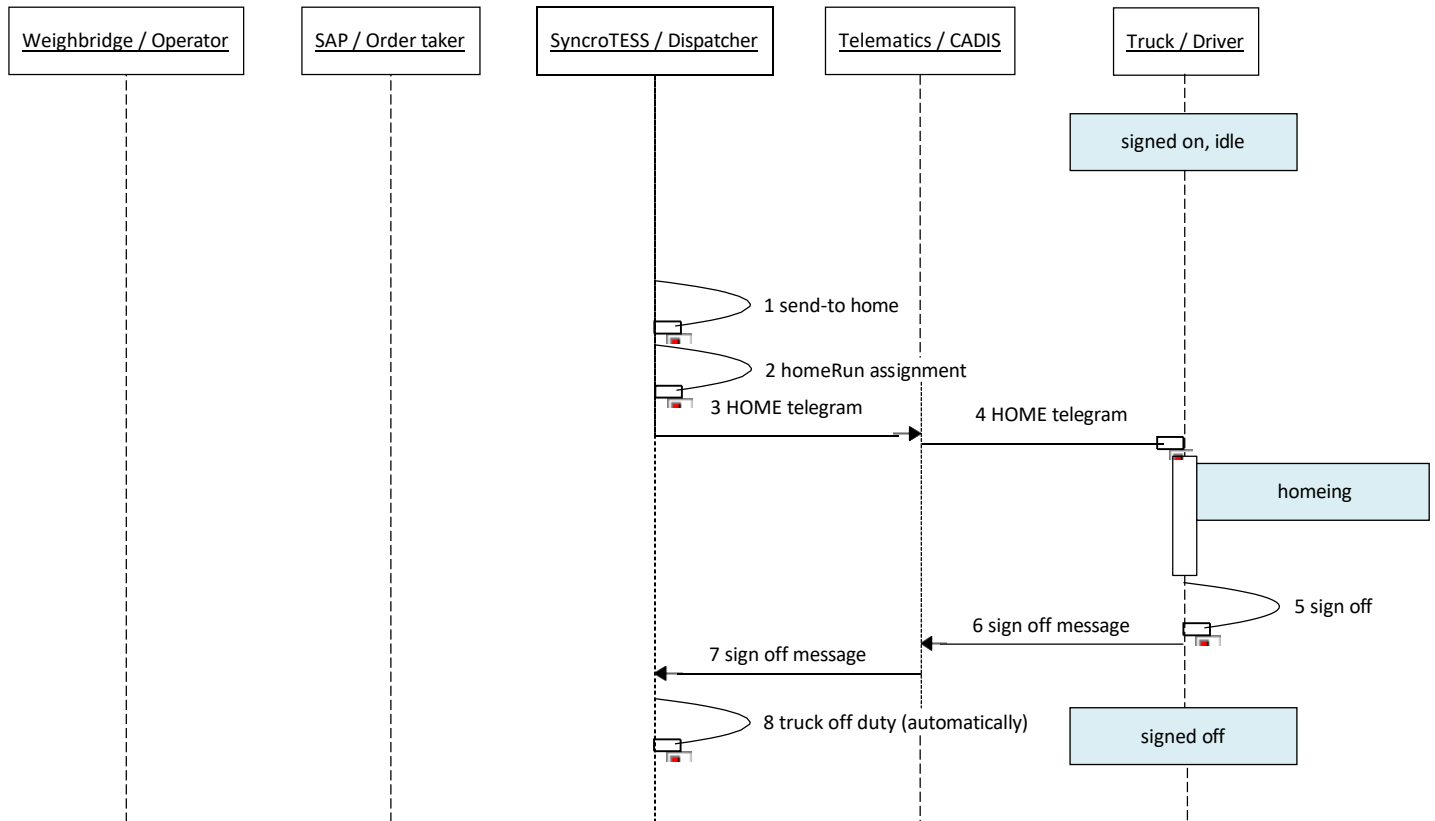
(40) HomeRun Assignment (Ag, As, Co, Mo, Ce)

Truck not at parking



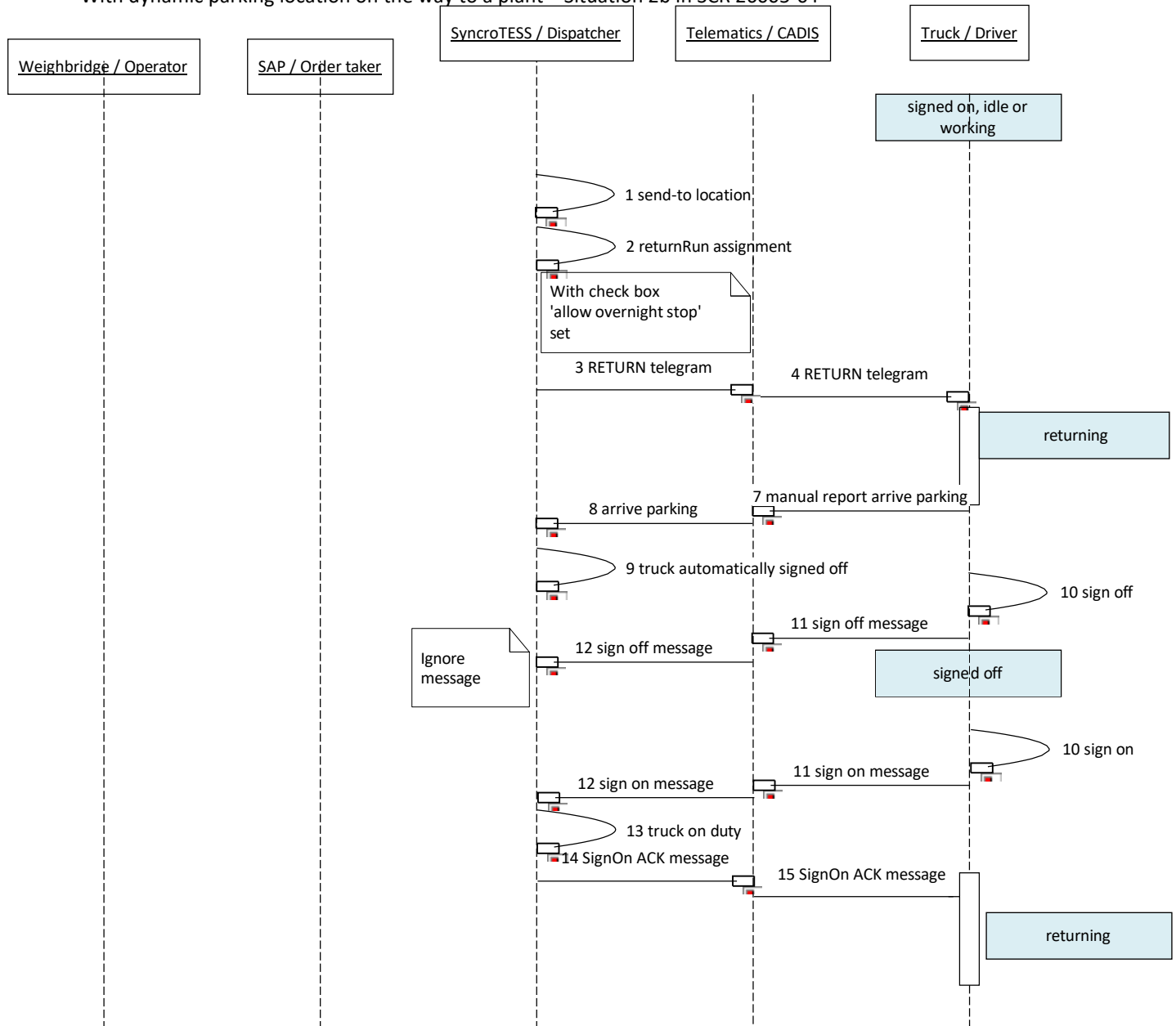
(41) HomeRun Assignment (Ag, As, Co, Mo, Ce)

Truck at parking

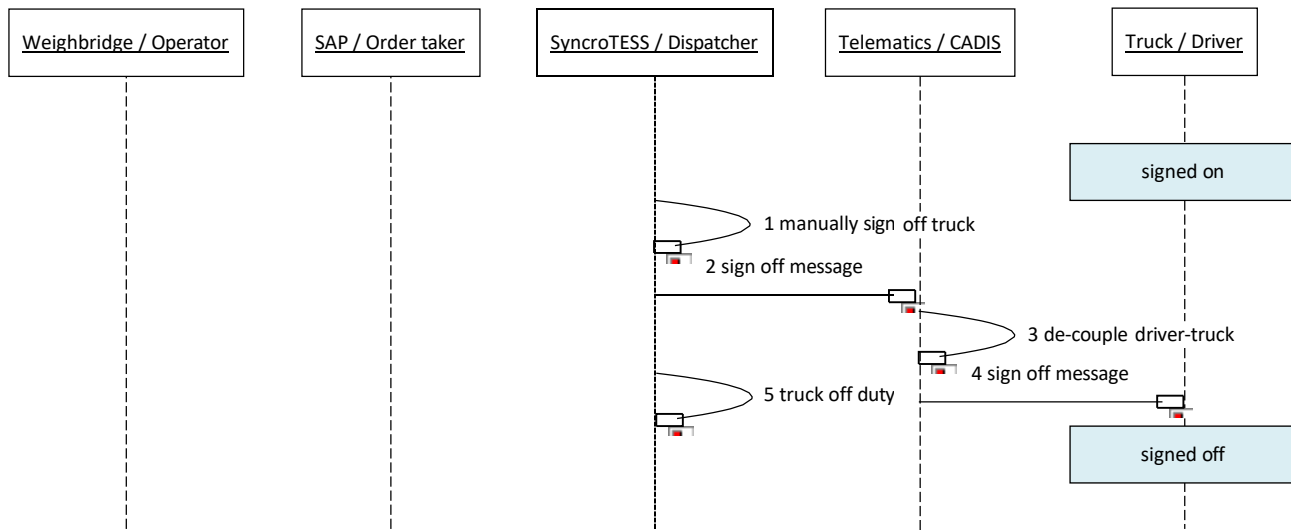


(254) ReturnRun Assignment (Ce)

With dynamic parking location on the way to a plant – Situation 2b in SCR 26005-04



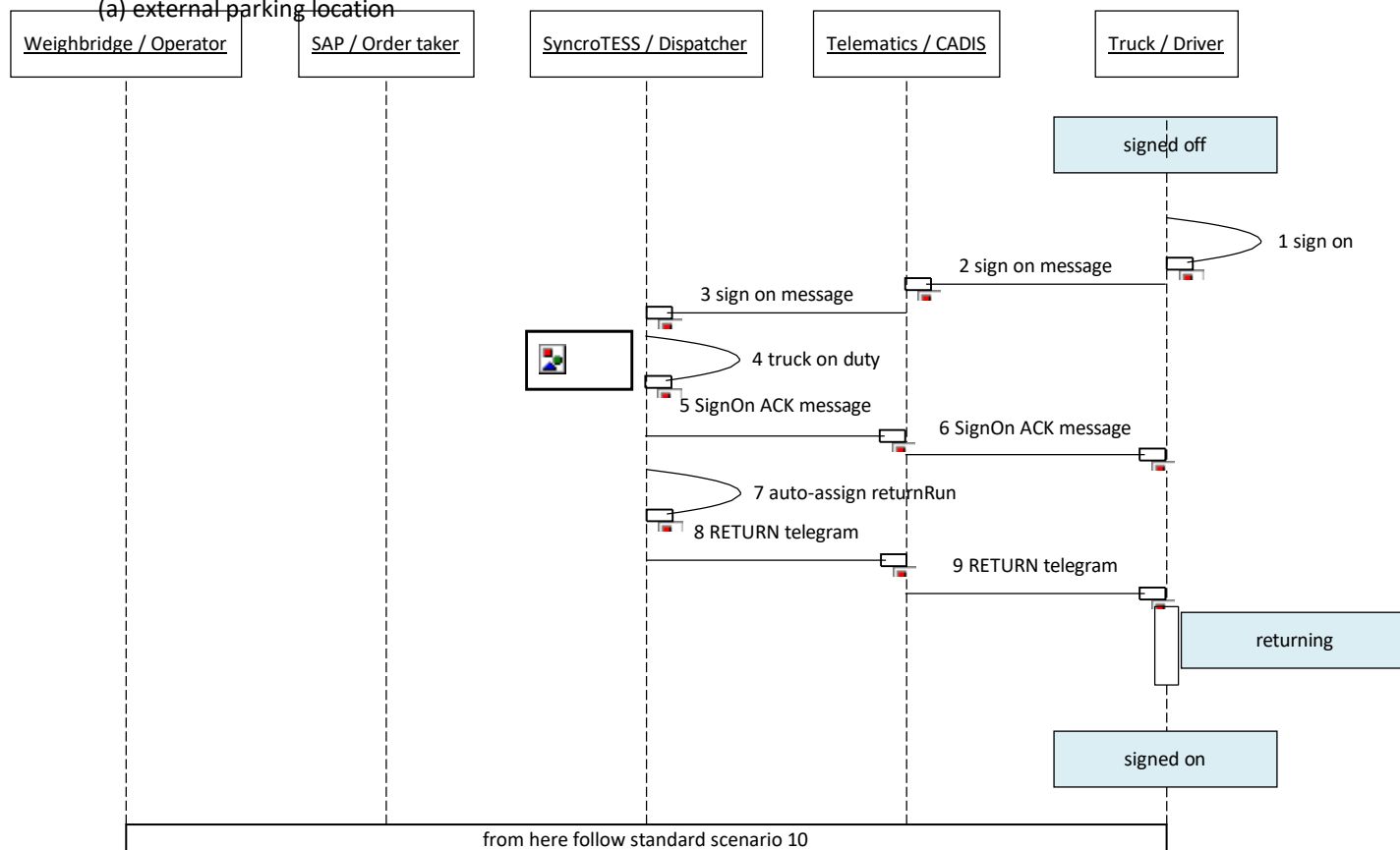
(255) Remote SignOff truck (Ag, As, Co, Mo, Ce)



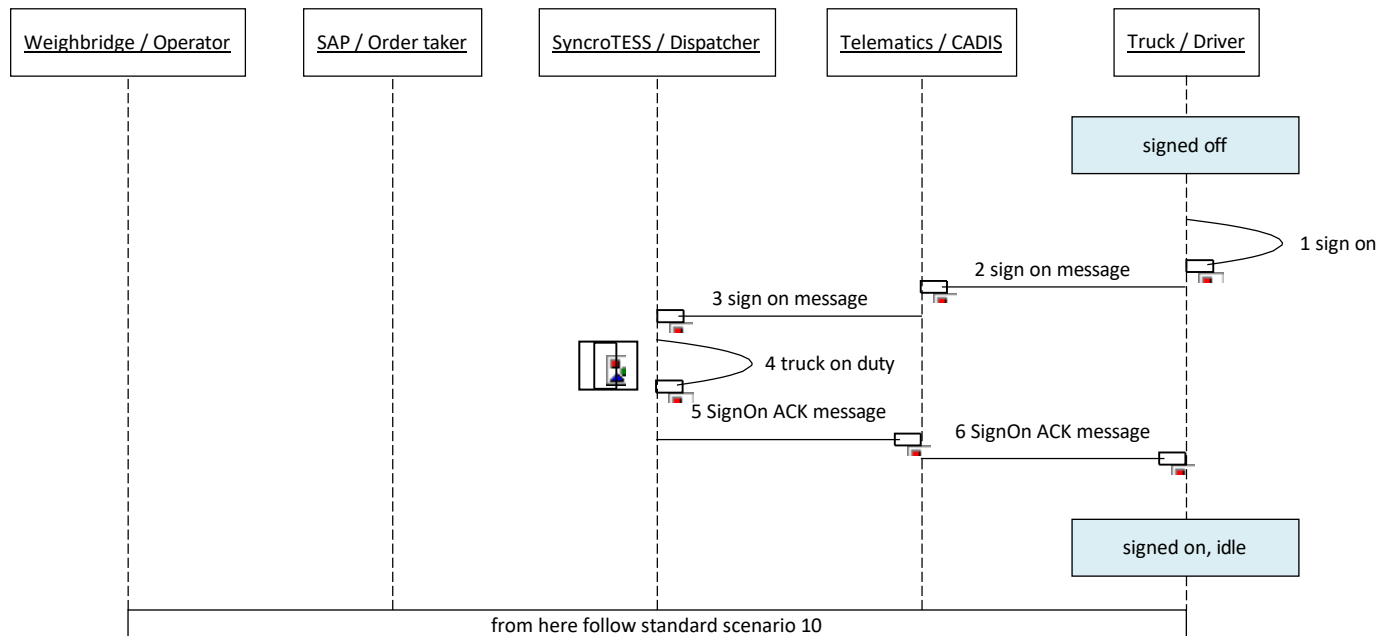
Discontinued for LEO

(260) SignOn Truck with Telematics, no FAS (Ag, As, Co, Mo, Ce)

(a) external parking location



(b) parking at plant or roaming truck or option „ignOn Non-roaming return run" deactivated

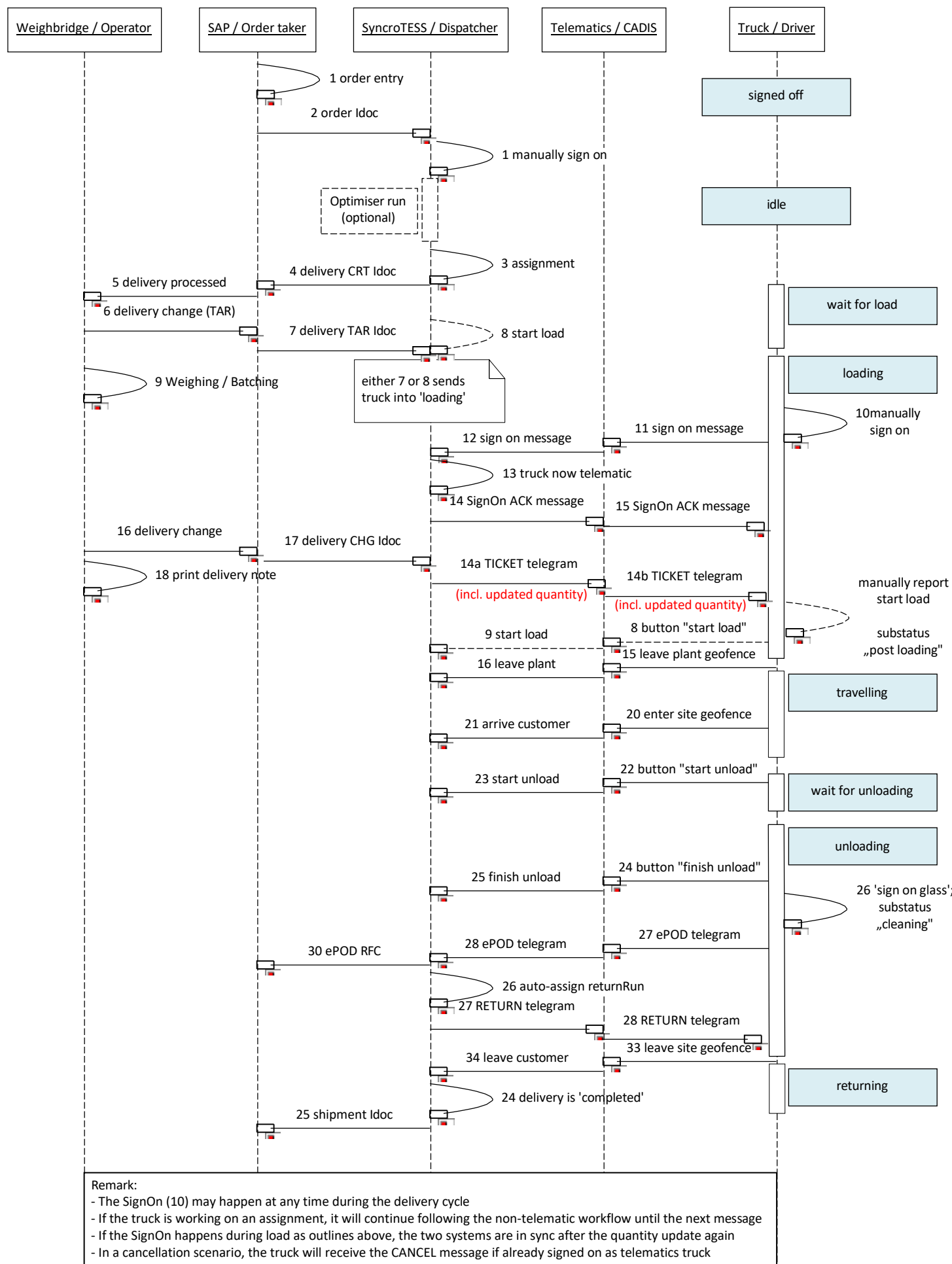


Remarks:

- If position transmitted with SignOn differs from expected position (cf. SCR 26005-43) Scenario 260b continues after step 6 equal to 260a step 7ff.

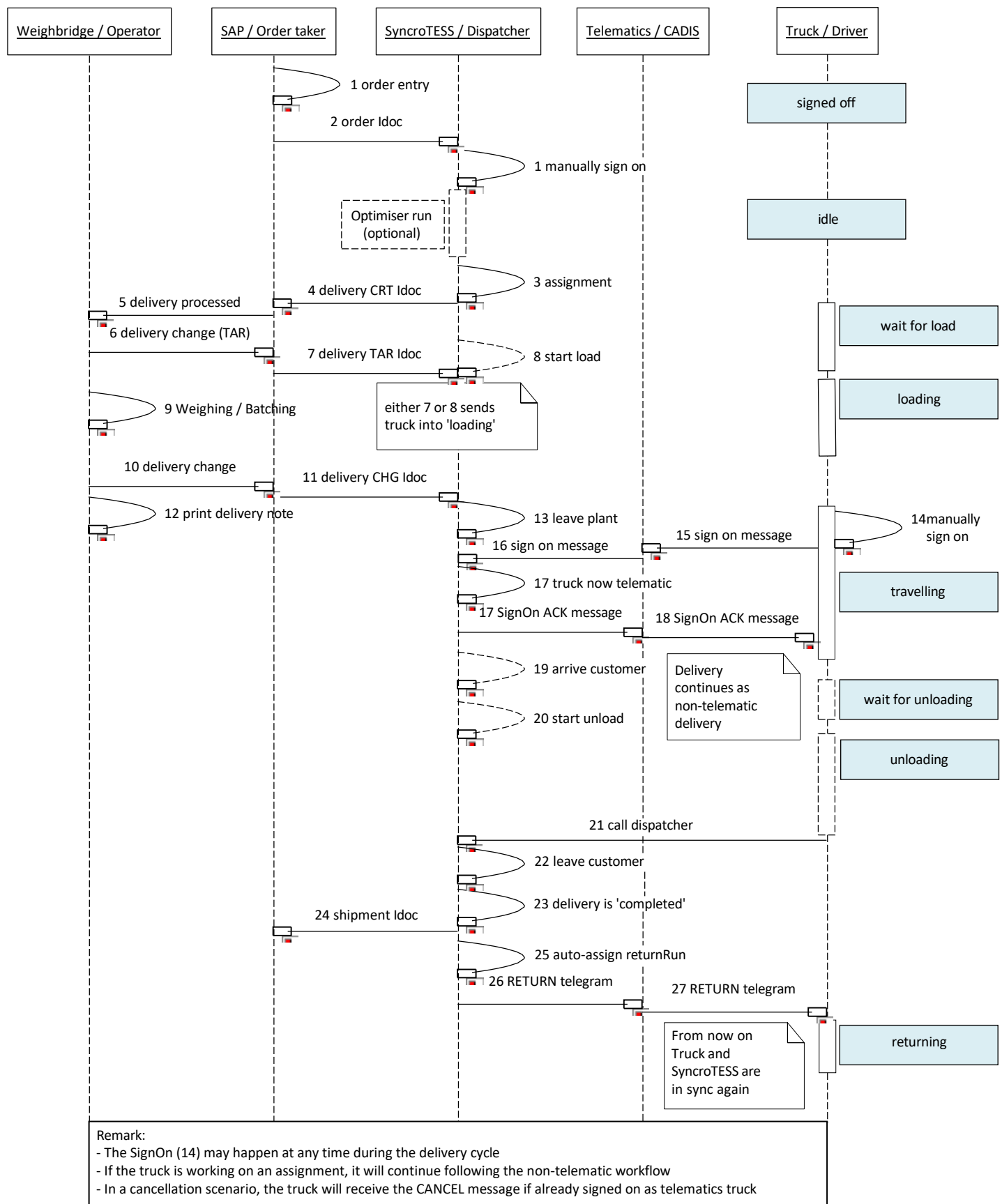
(261) Manually SignOn Truck, via Telematics later (Ag, As, Co, Mo, Ce)

(a) before end load



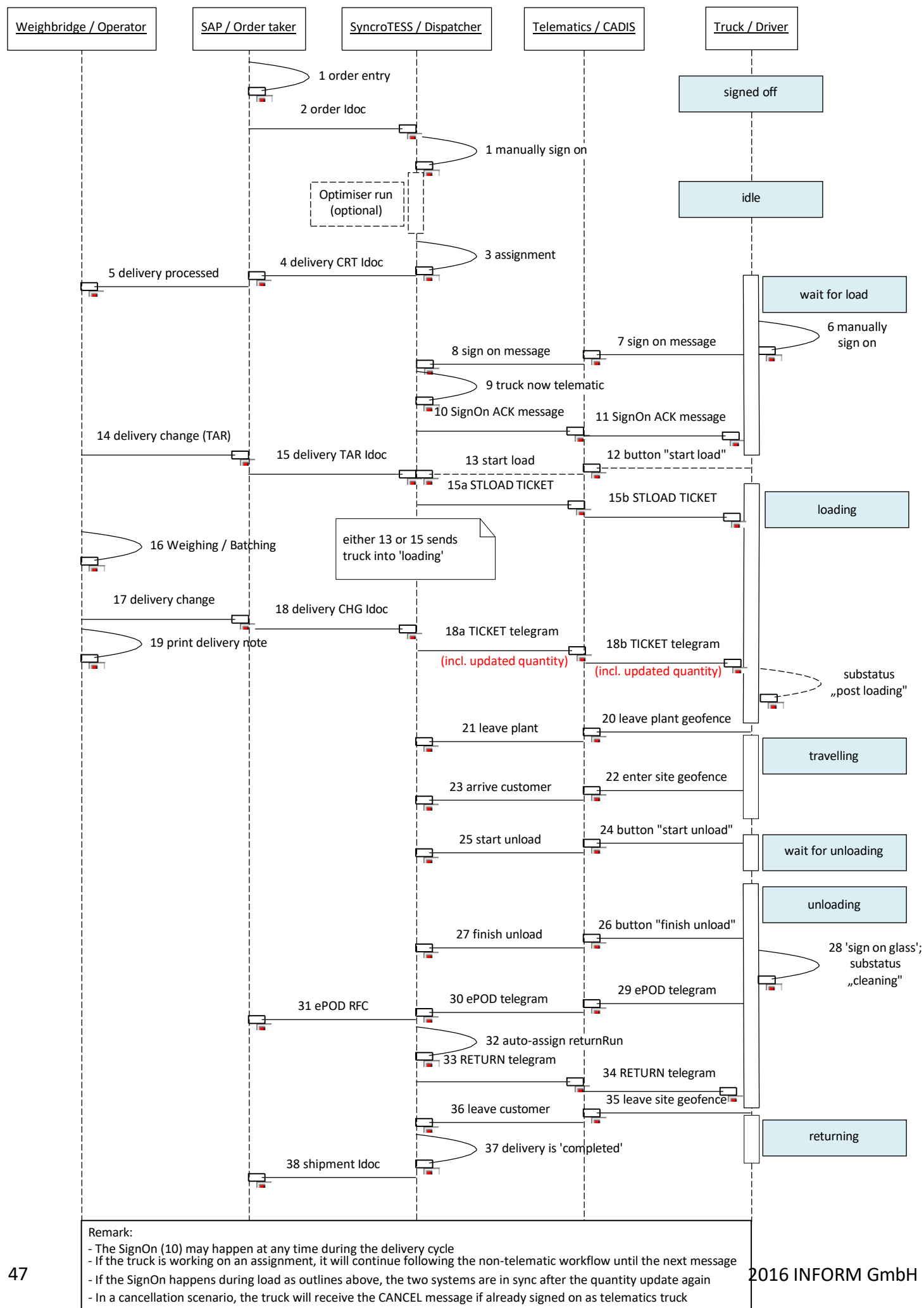
(261) Manually SignOn Truck, via Telematics later (Ag, As, Co, Mo, Ce)

(b) after end load

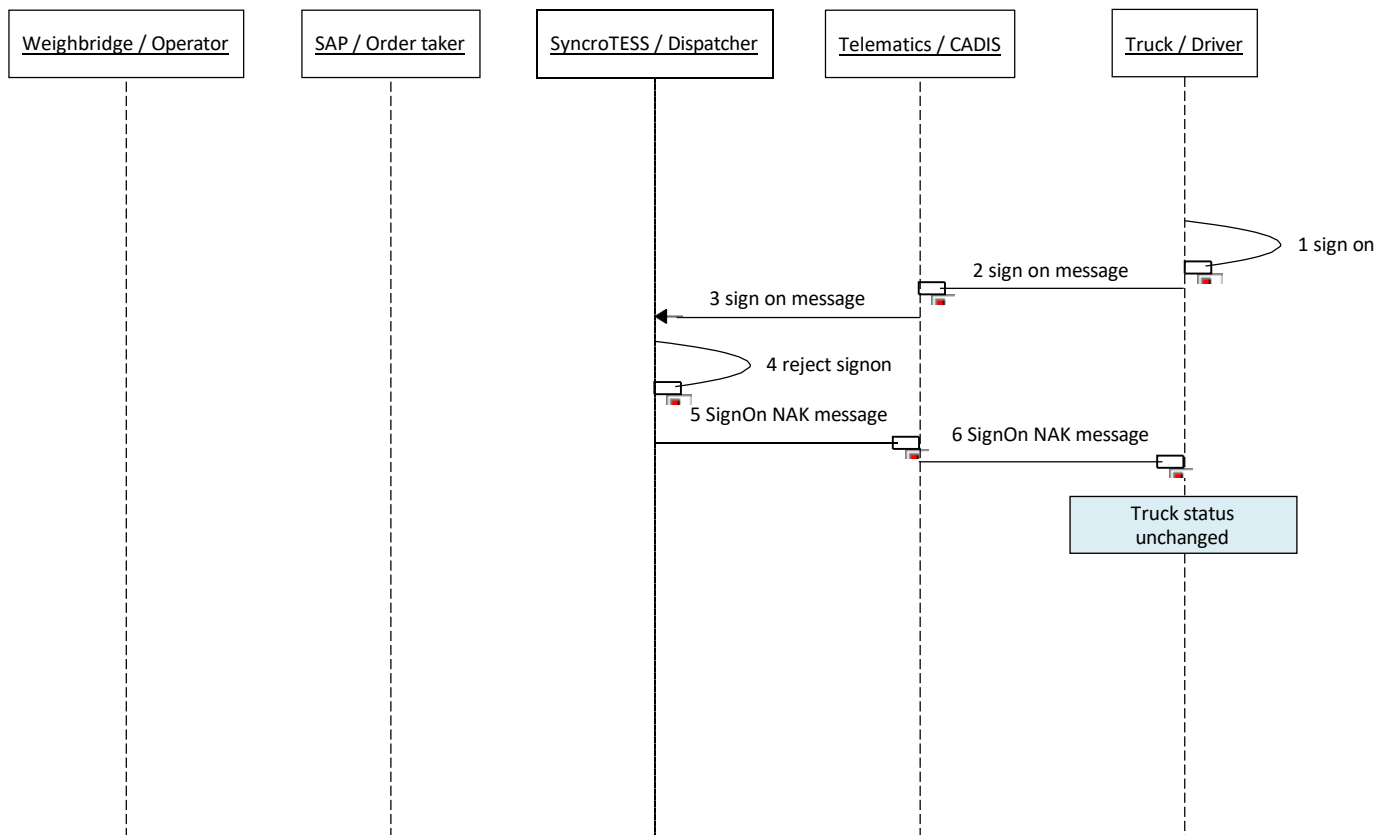


(261) Manually SignOn Truck, via Telematics later (Ag, As, Co, Mo, Ce)

(c) before end wait load

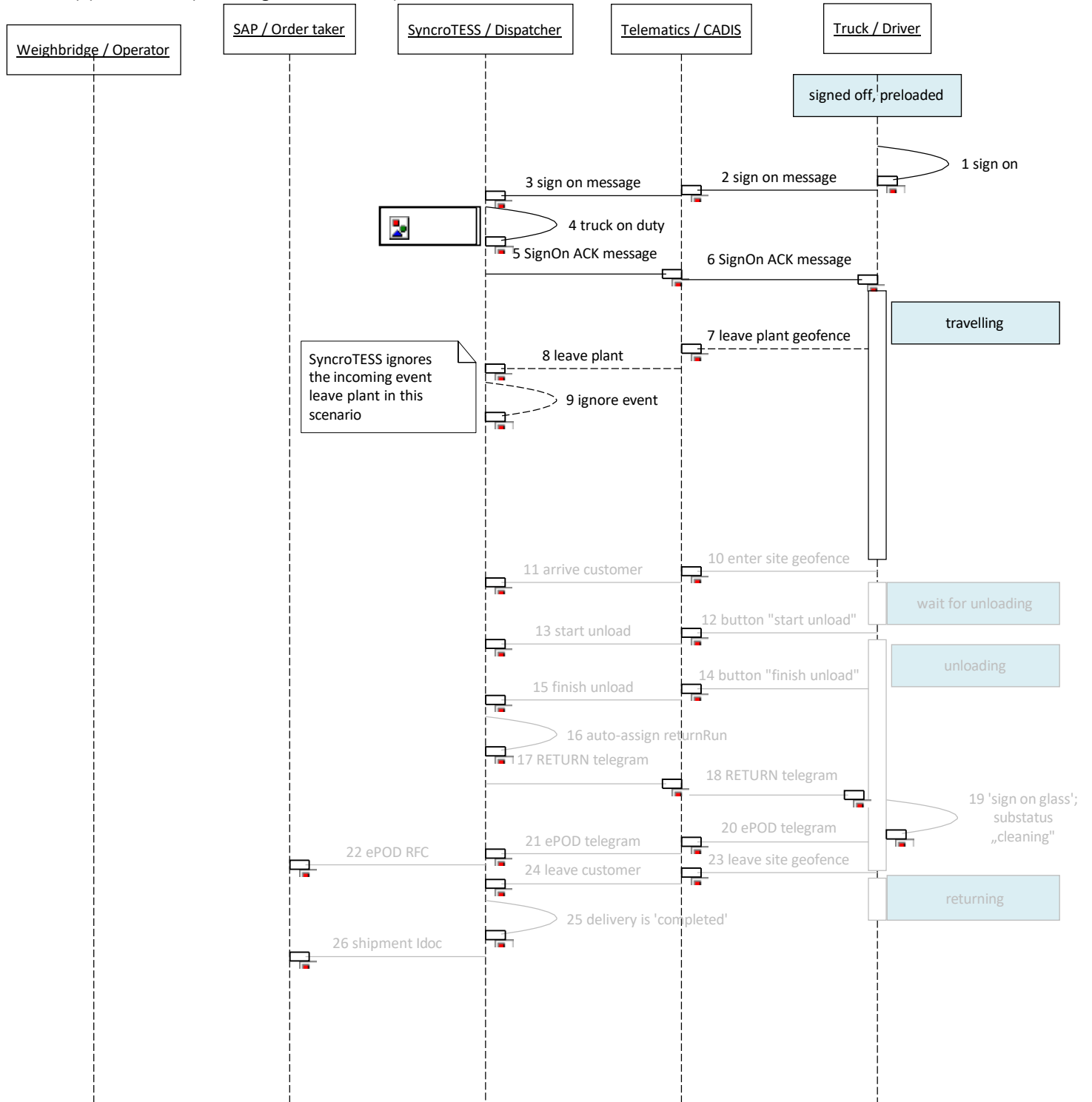


(265) SignOn unsuccessful (Ag, As, Co, Mo, Ce)

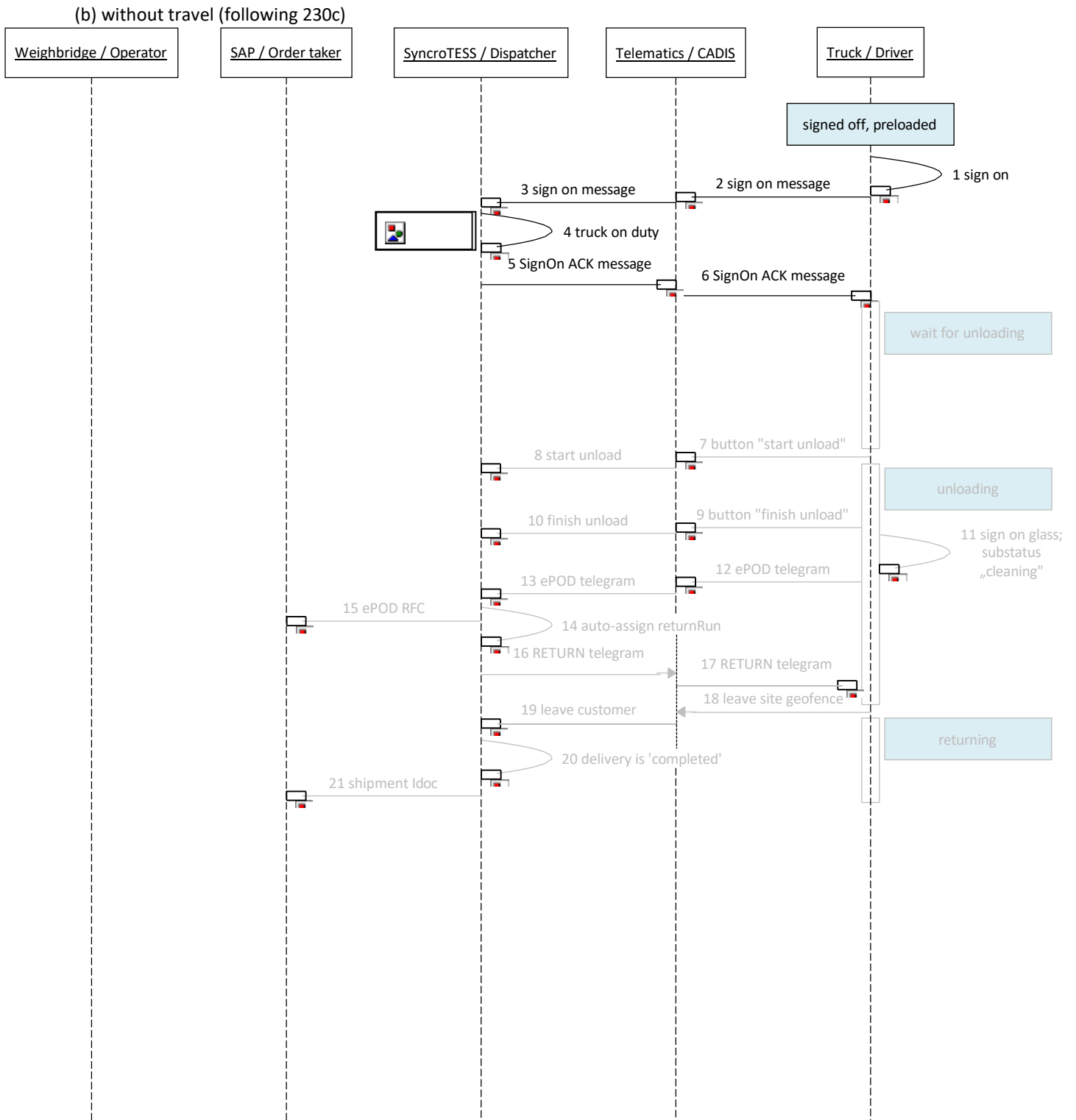


(270) SignOn Truck with Telematics, preloaded (Ag, Mo, Ce)

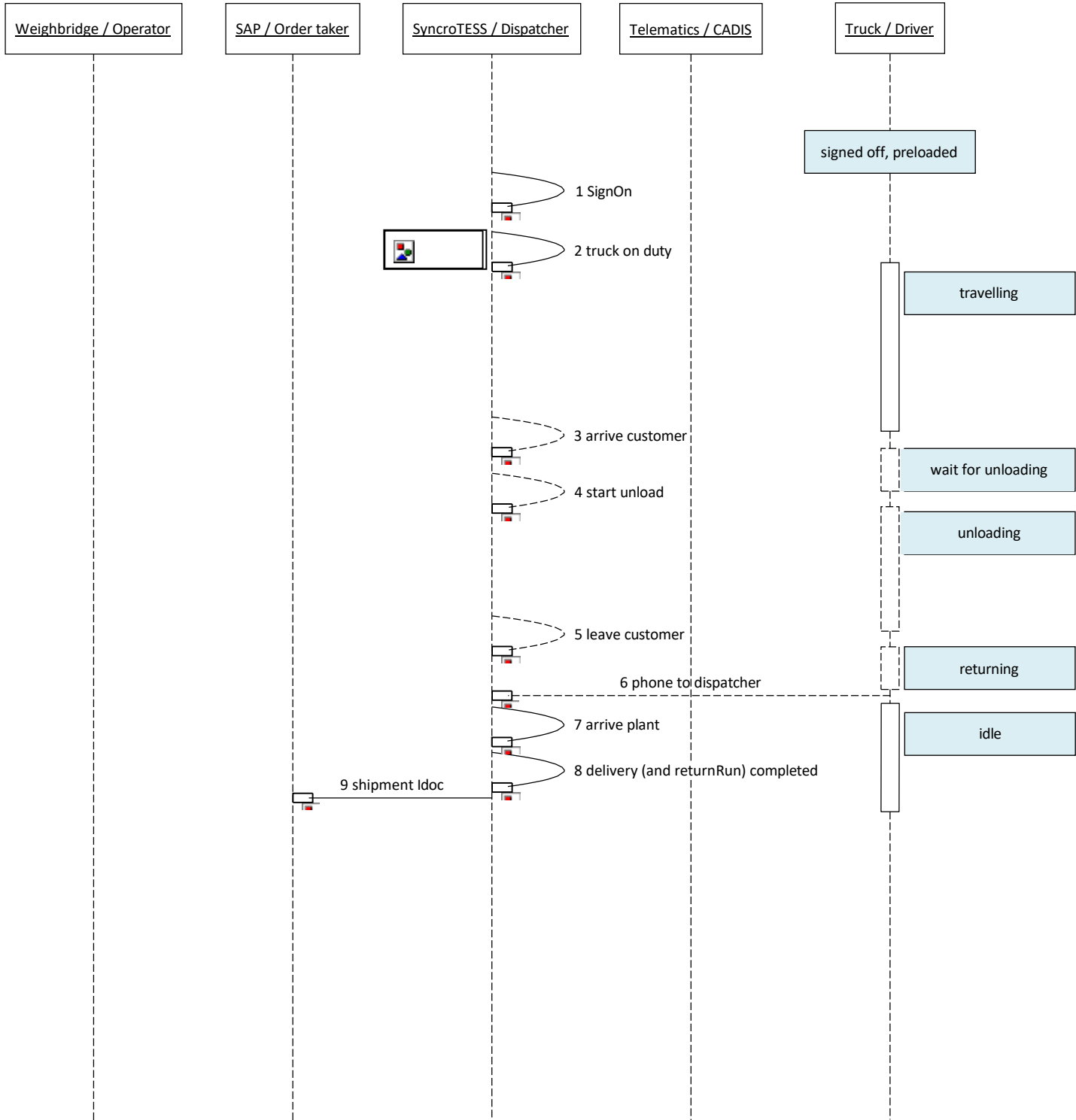
(a) with travel (following 230a and 230b)



(270) SignOn Truck with Telematics, preloaded (Ag, Mo, Ce)

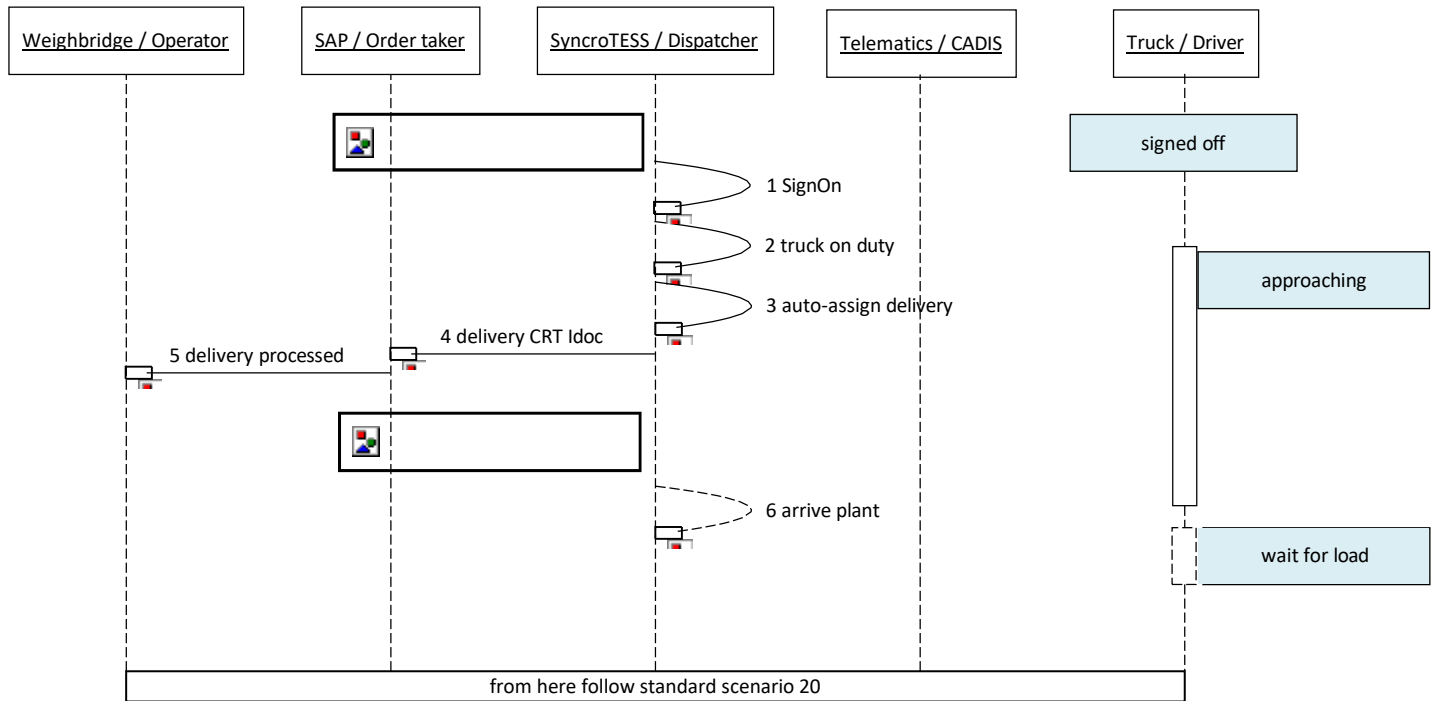


(280) SignOn Truck without Telematics, preloaded (Ag, Mo, Ce)

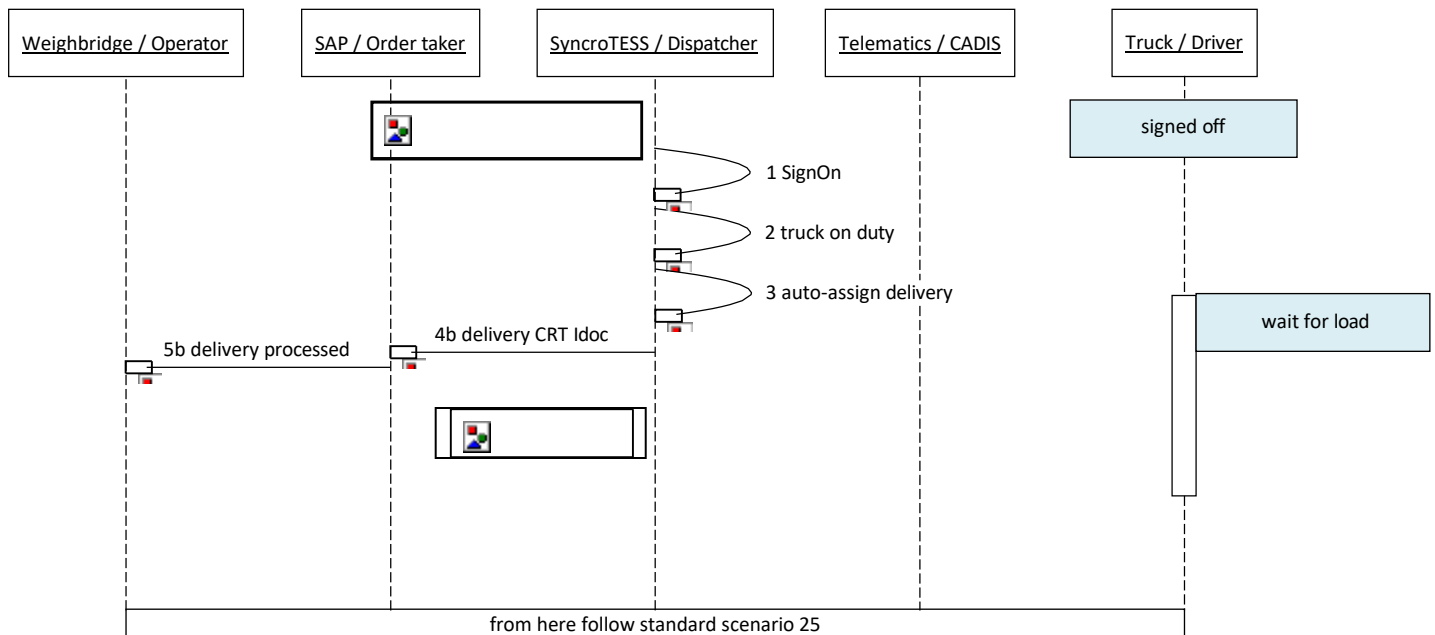


(290) SignOn Truck without Telematics with FAS (Ag, As, Co, Mo, Ce)

(a) external parking location

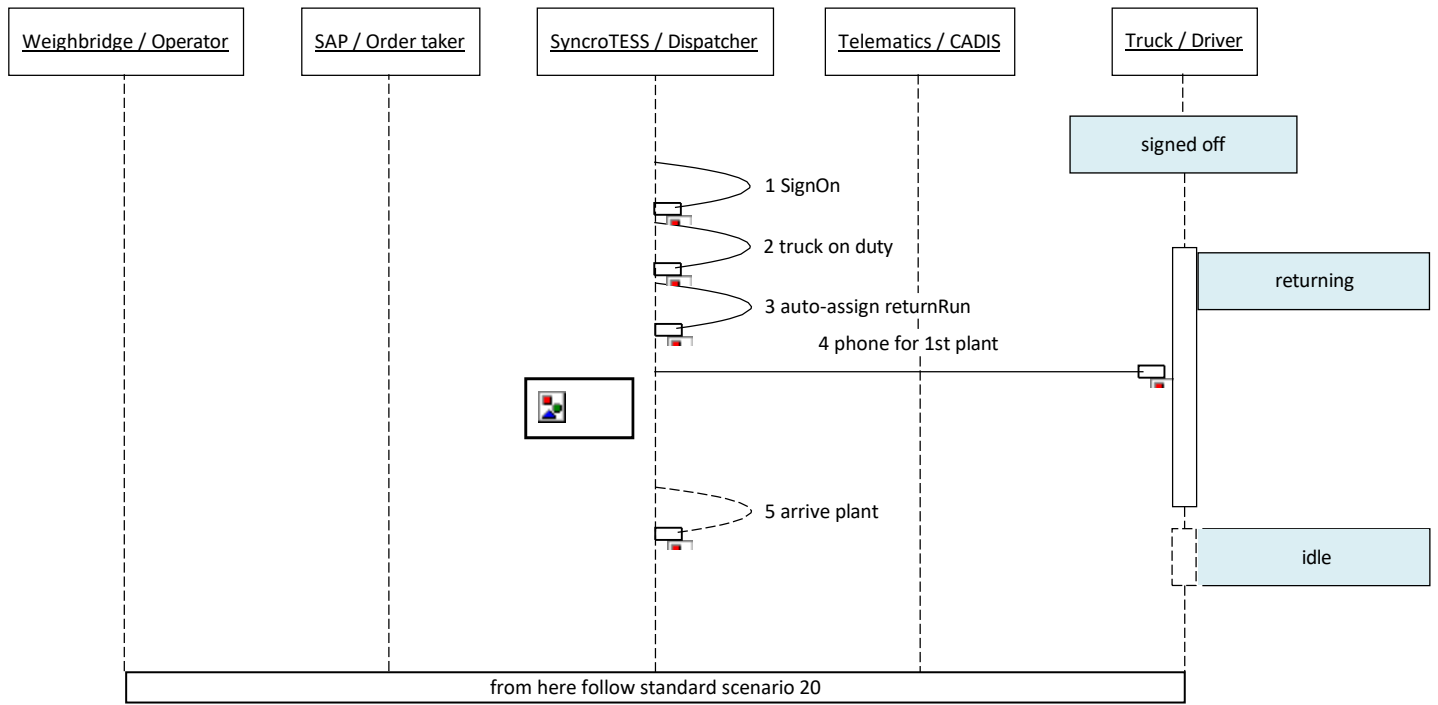


(b) parking at plant

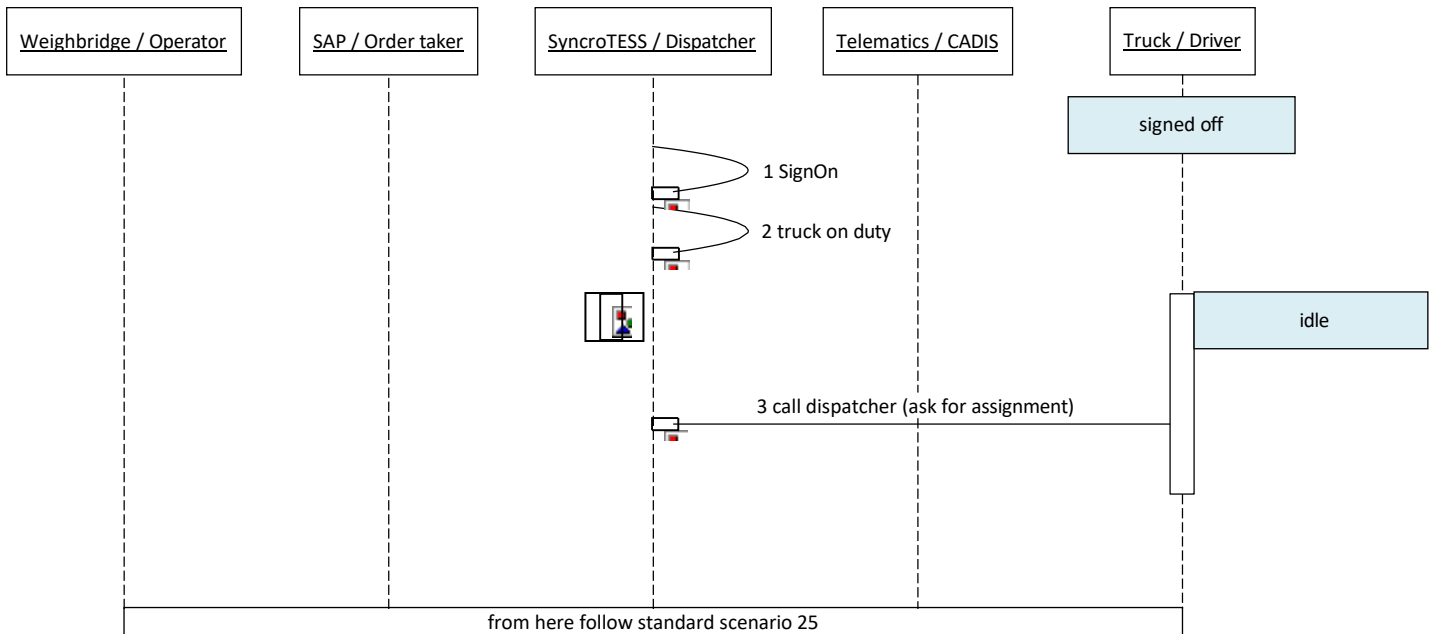


(300) SignOn Truck without Telematics, no FAS (Ag, As, Co, Mo, Ce)

(a) external parking location

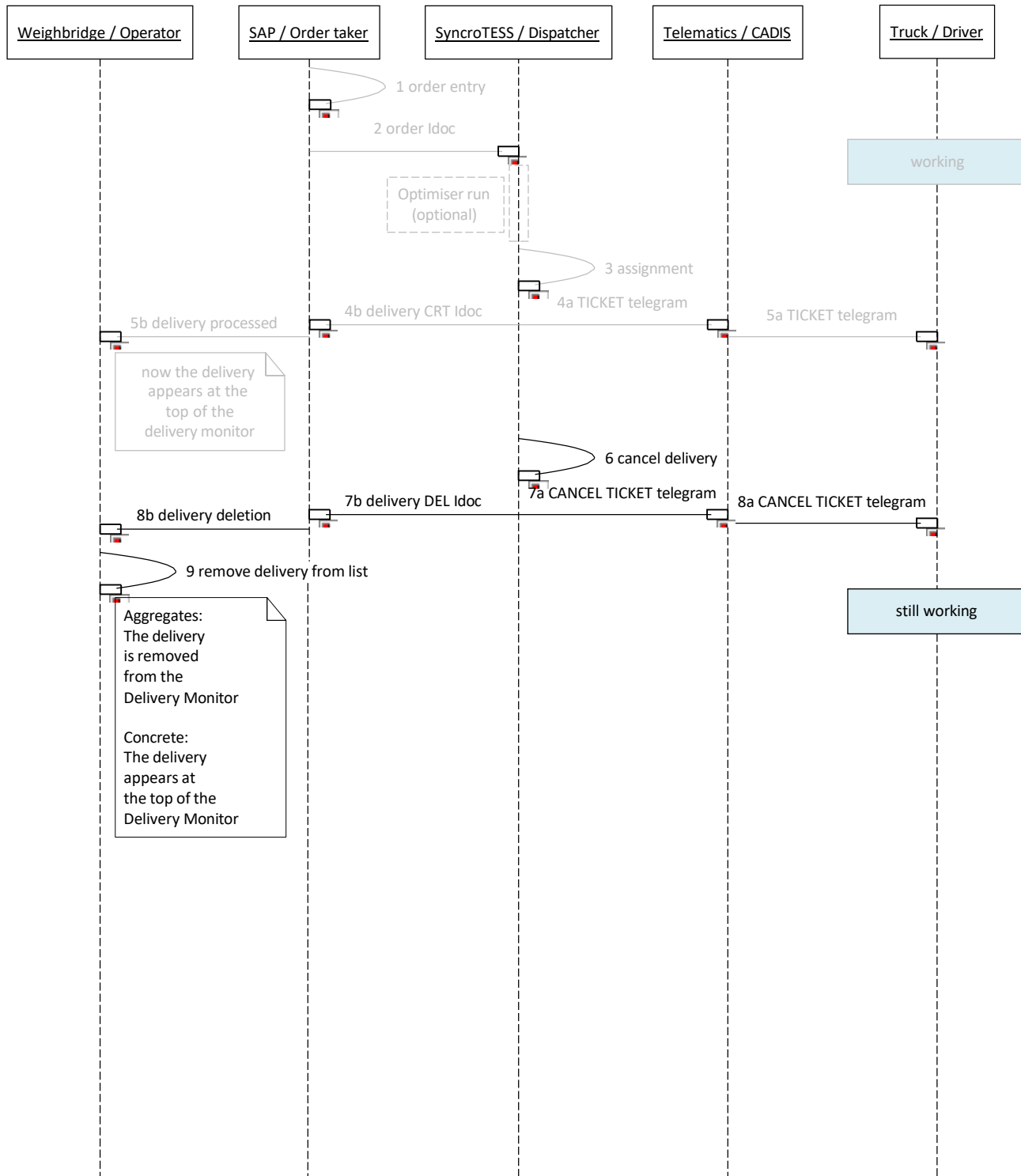


(b) parking at plant



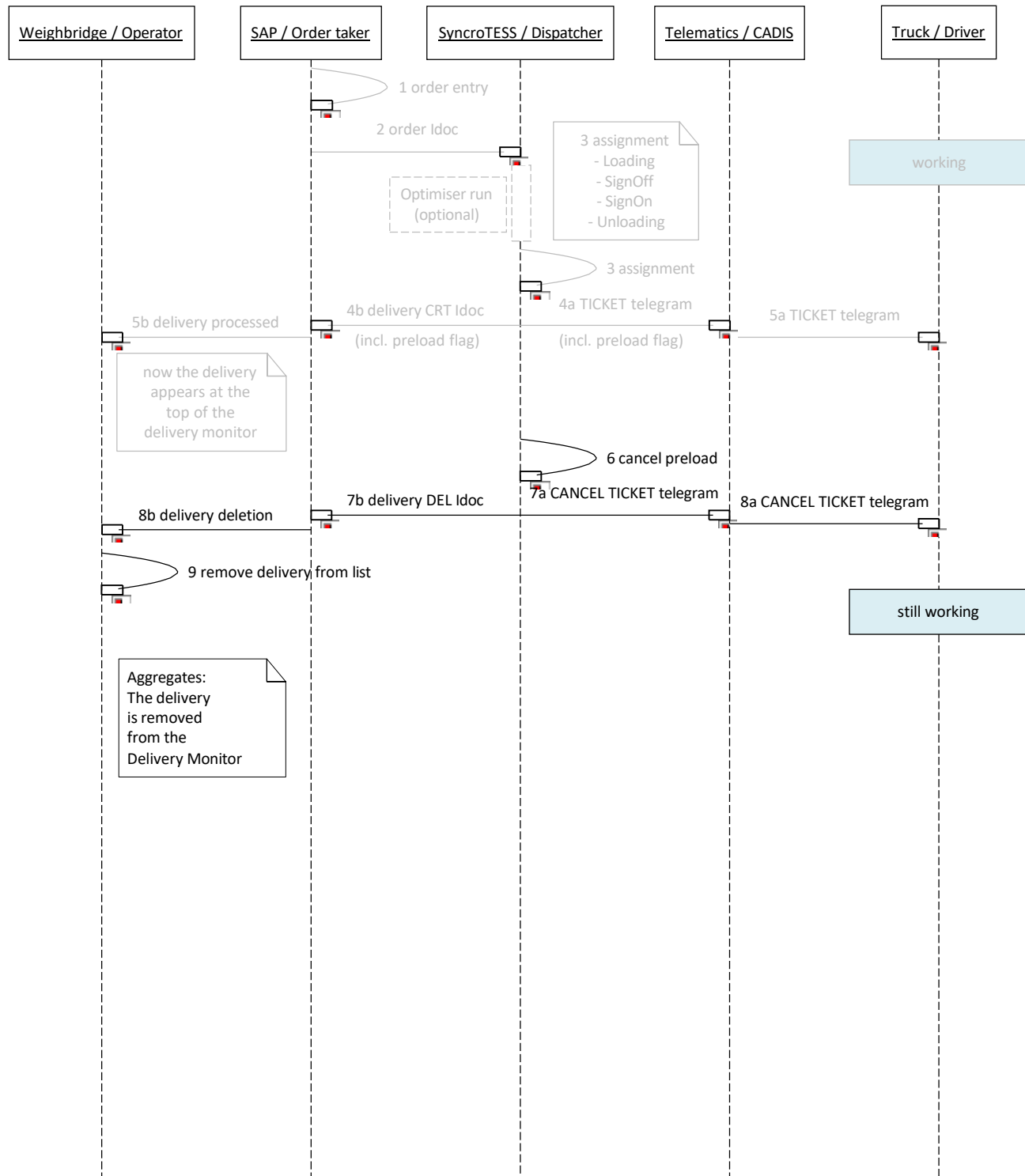
(310) Cancel delivery before start approach (Ag, As, Co, Mo, Ce)

based on 10



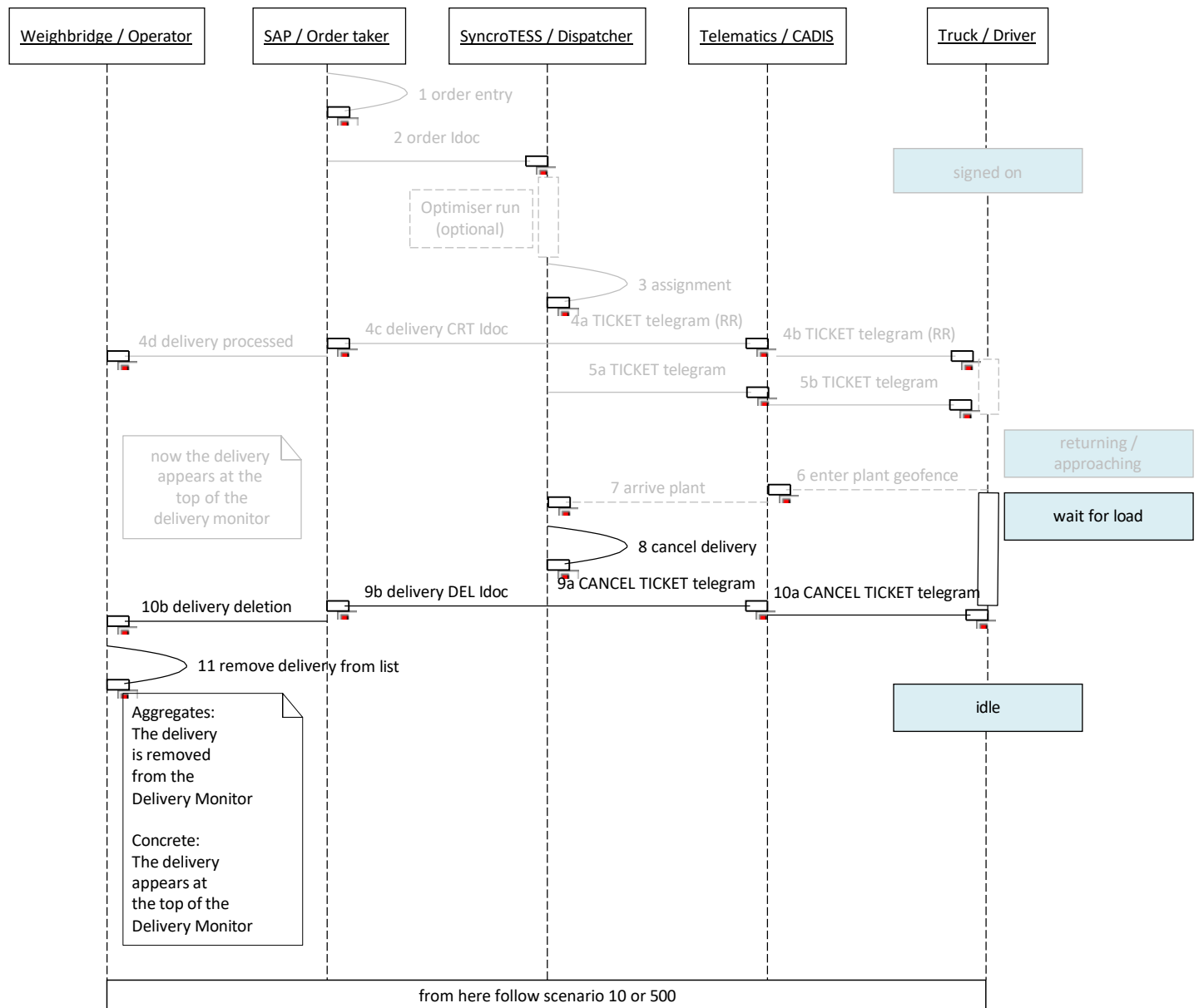
(315) Cancel preload before start approach (Ag, Mo, Ce)

based on 230



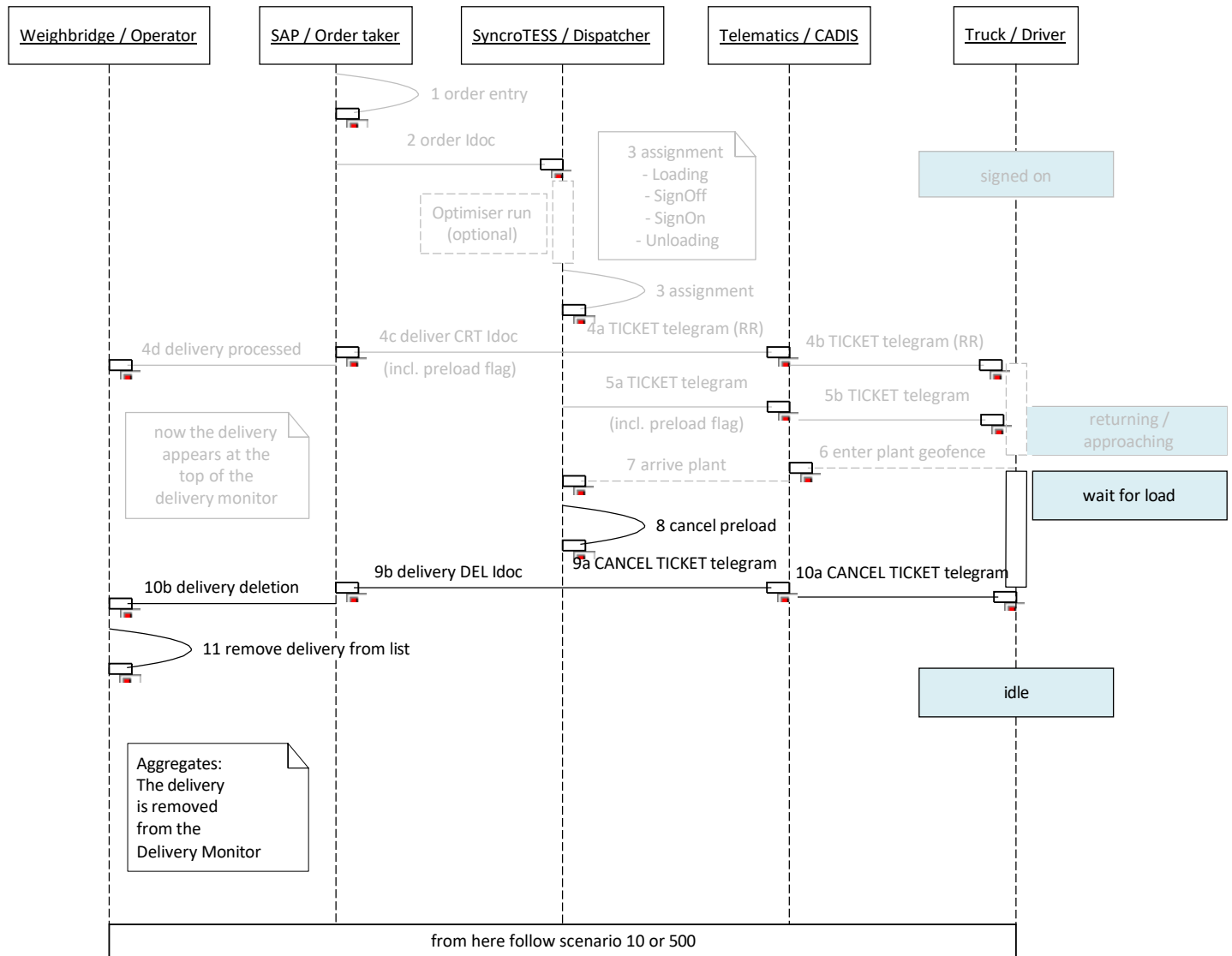
(320) Cancel delivery before start load (Ag, As, Co, Mo, Ce)

based on 10



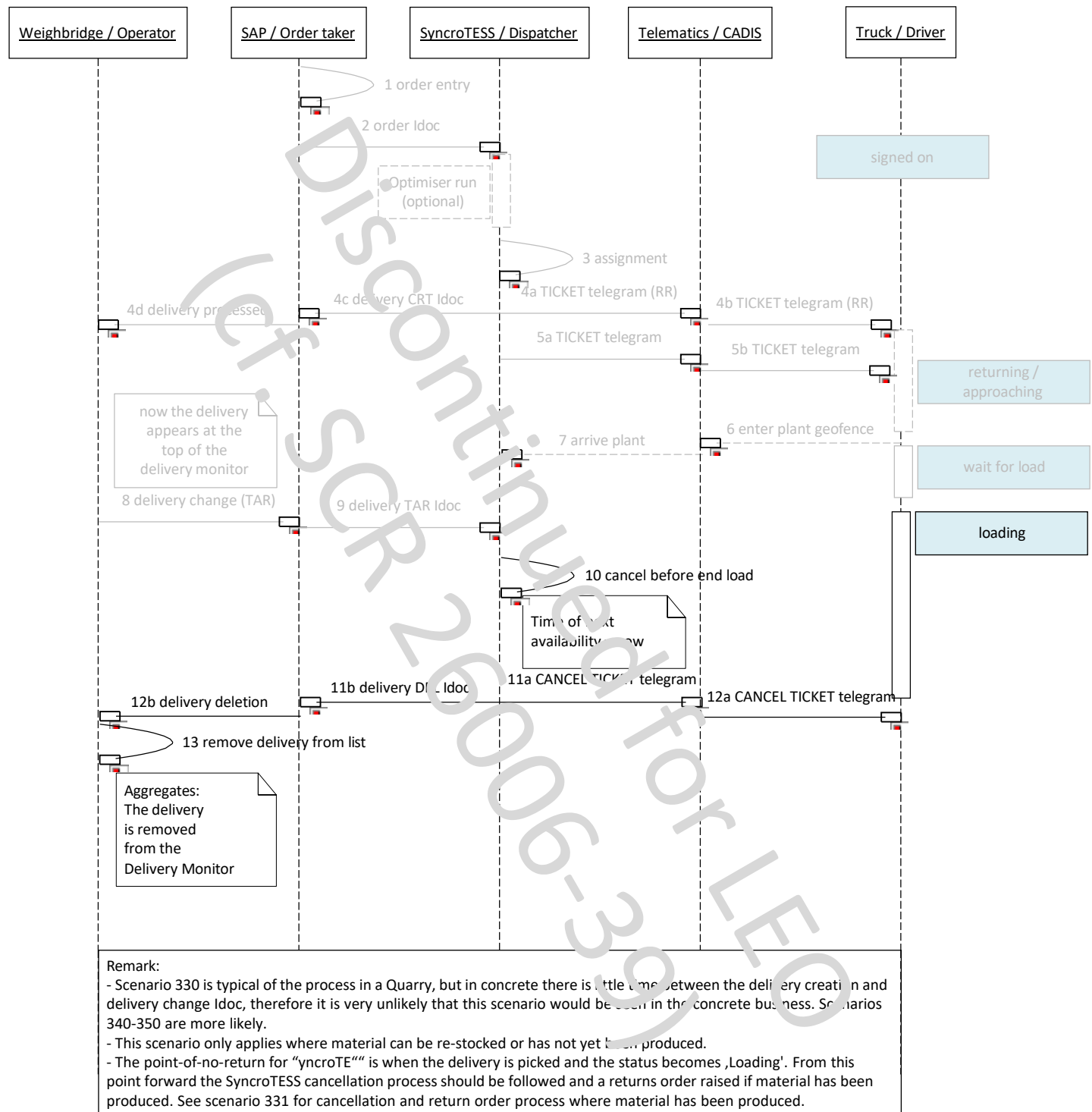
(325) Cancel preload before start load (Ag, Mo, Ce)

based on 230



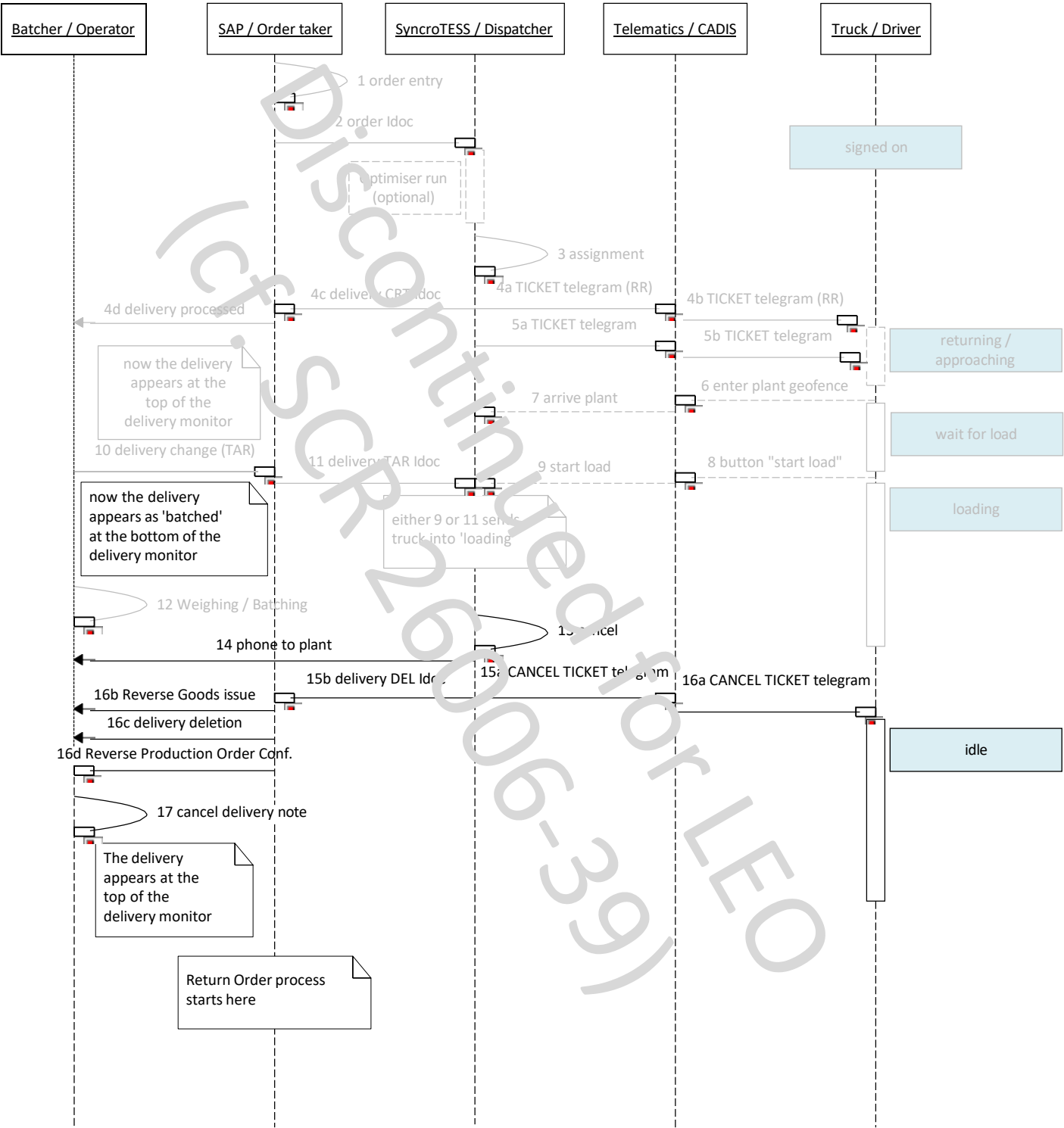
(330) Cancel delivery before end load (Ag, As, Co, Mo, Ce)

No Material produced



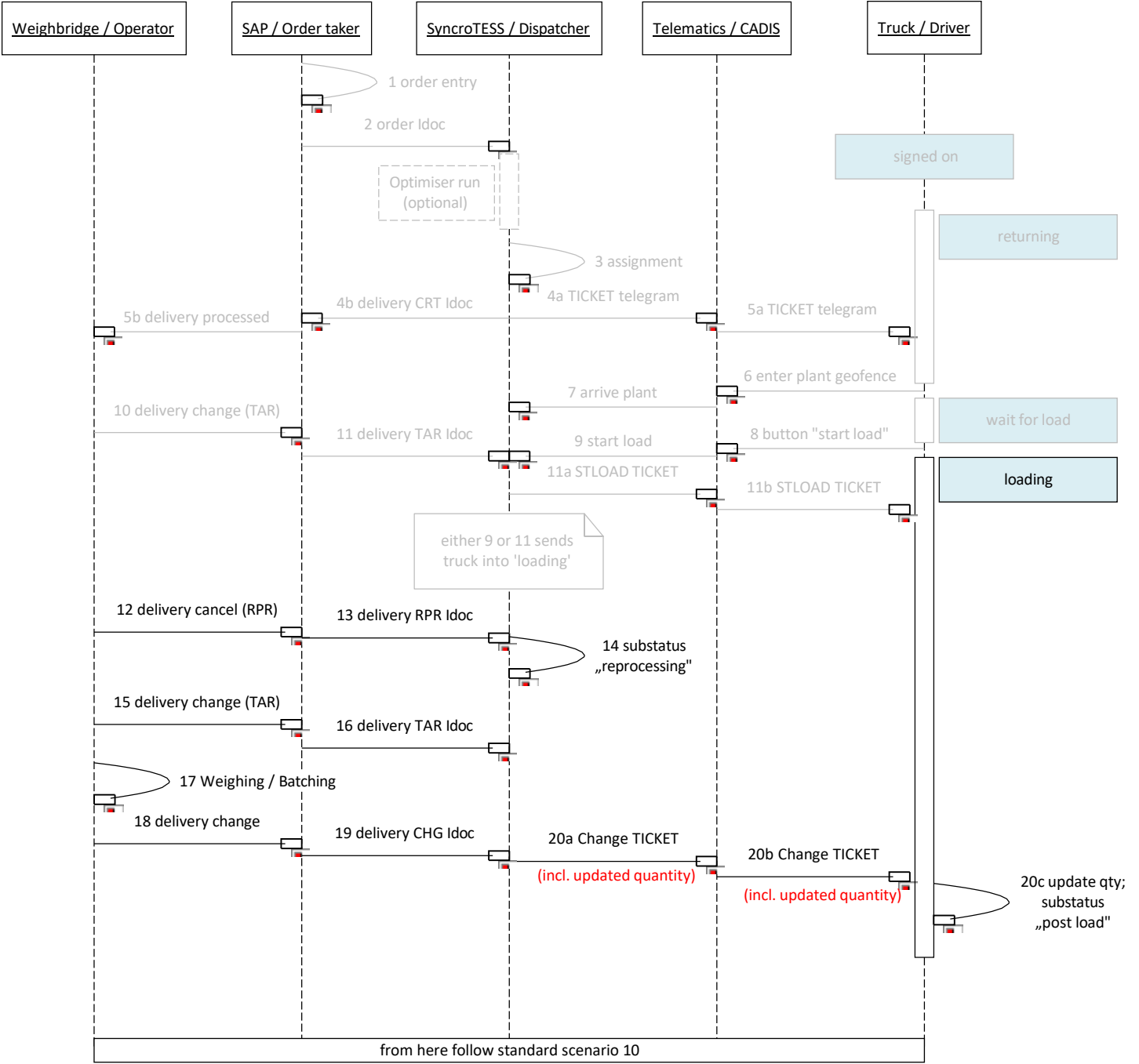
(331) Cancel delivery before end load (As, Co, Mo)

Material produced, with Return Order



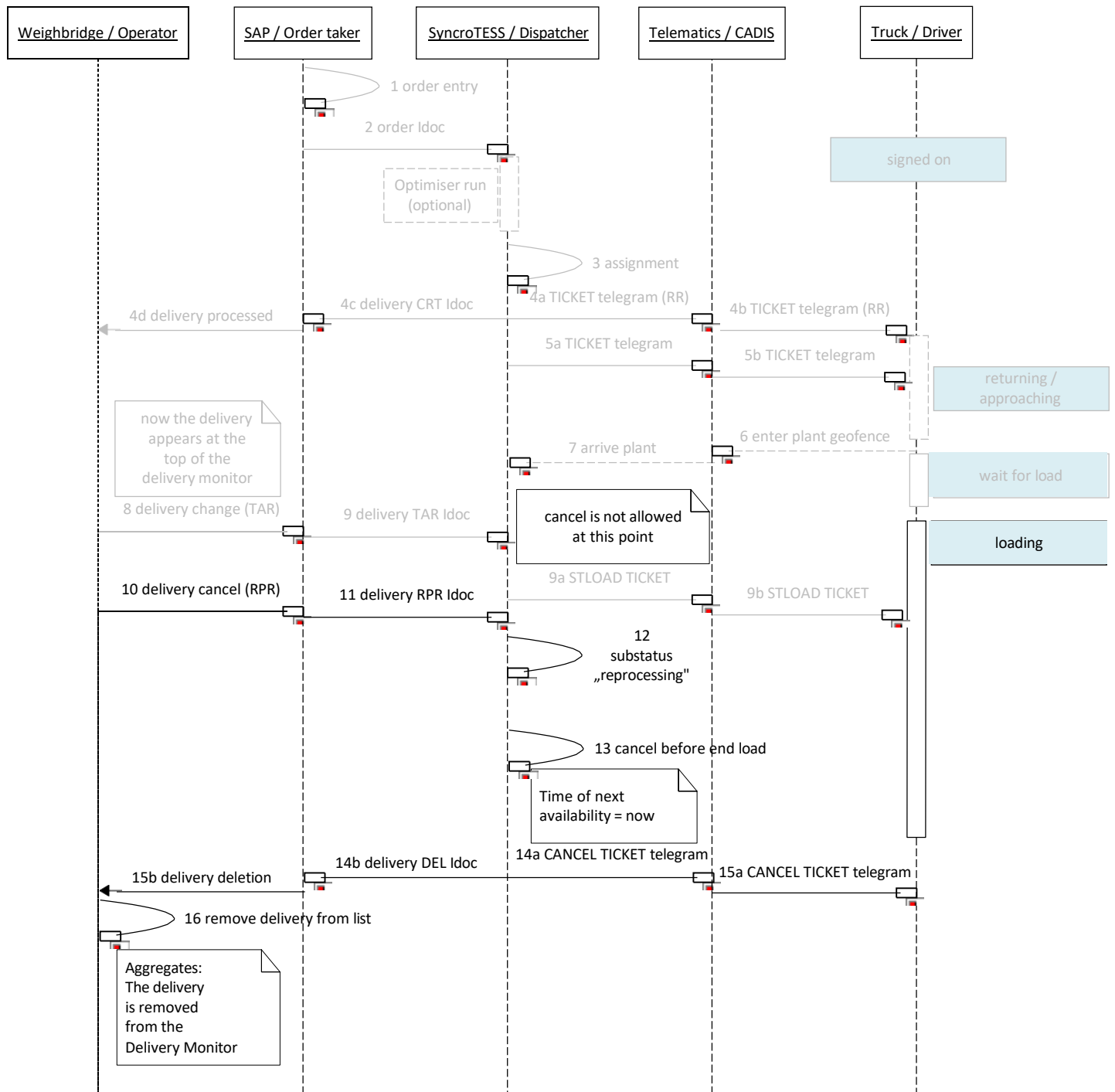
(332) Reprocessing (Ag, As, Co, Mo, Ce)

a) with start load



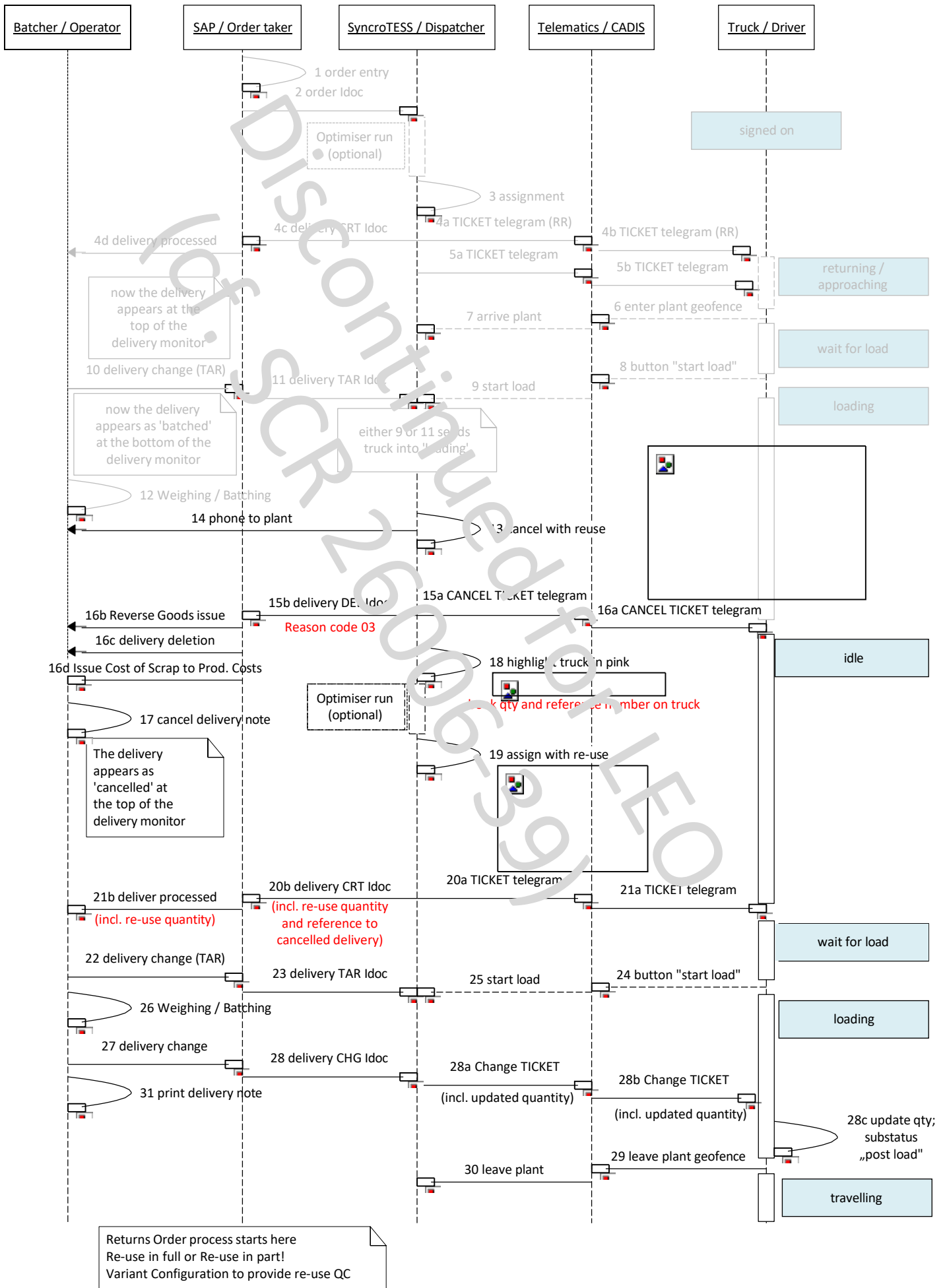
(332) reprocessing (Ag, As, Co, Mo, Ce)

b) with cancellation



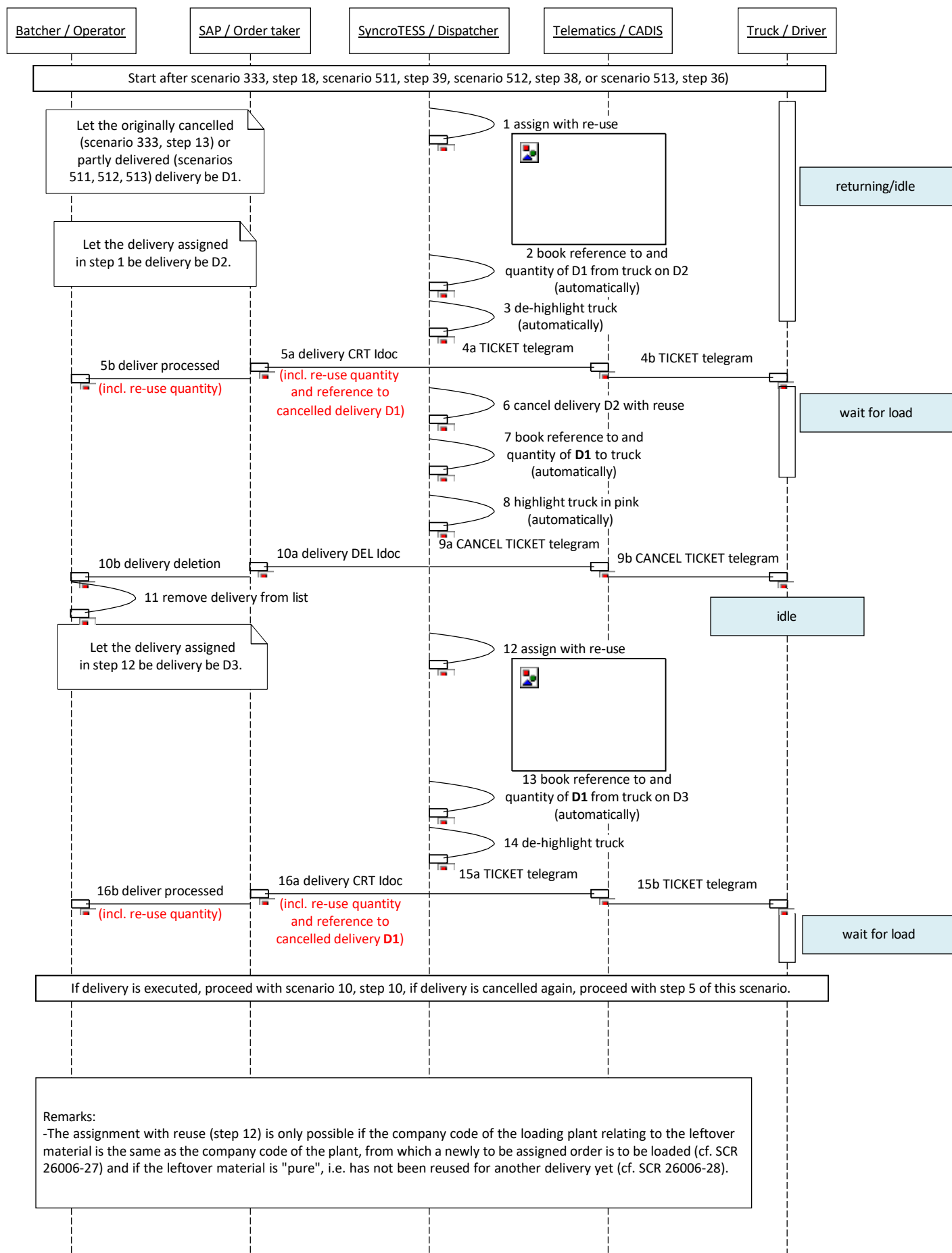
(333) Cancel delivery before end load with reuse (Co)

With Re-Use and Return Order



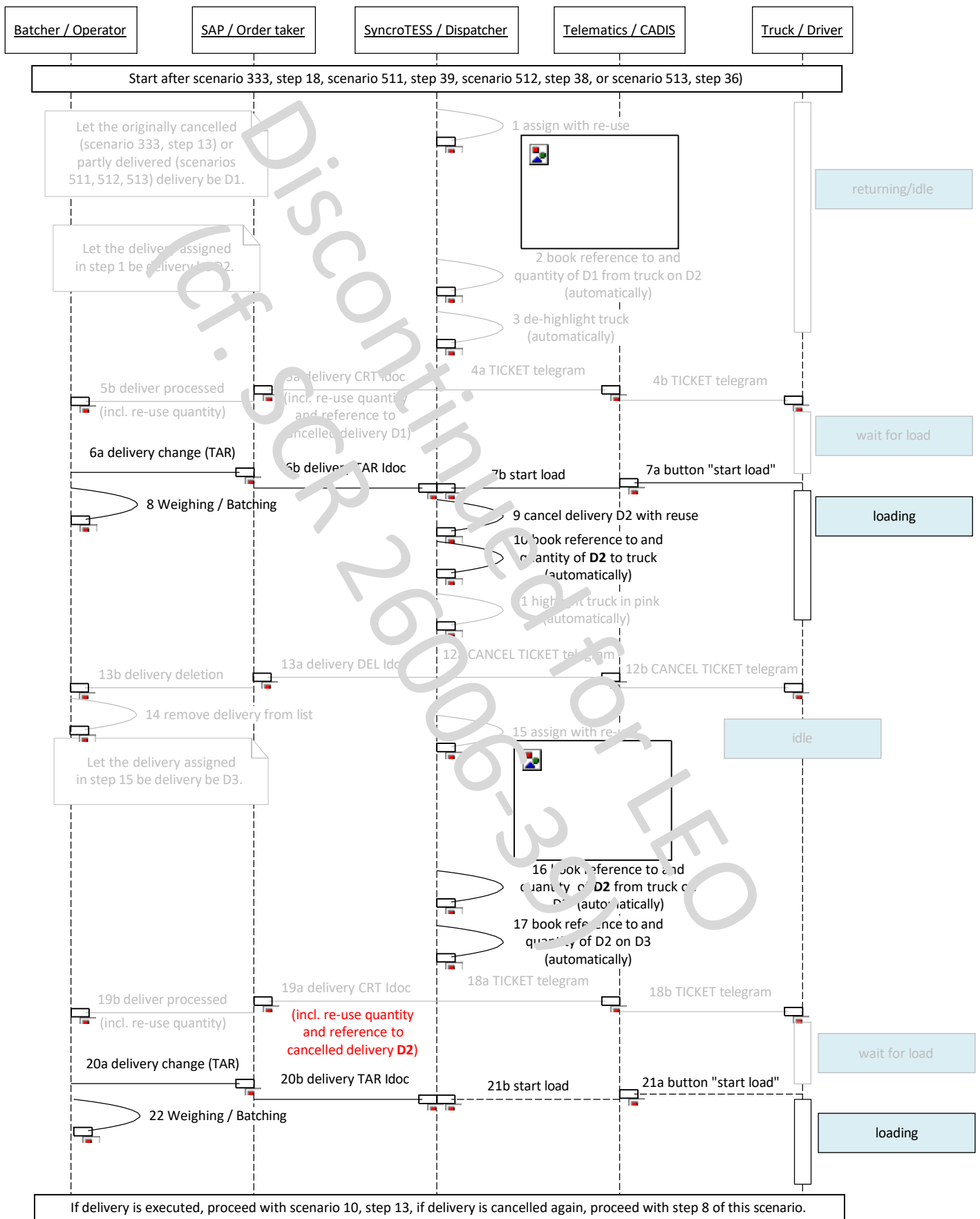
(334) Cancel already reused delivery with reuse

a) in status „wait load“



(334) Cancel already reused delivery with reuse

b) in status „loading“

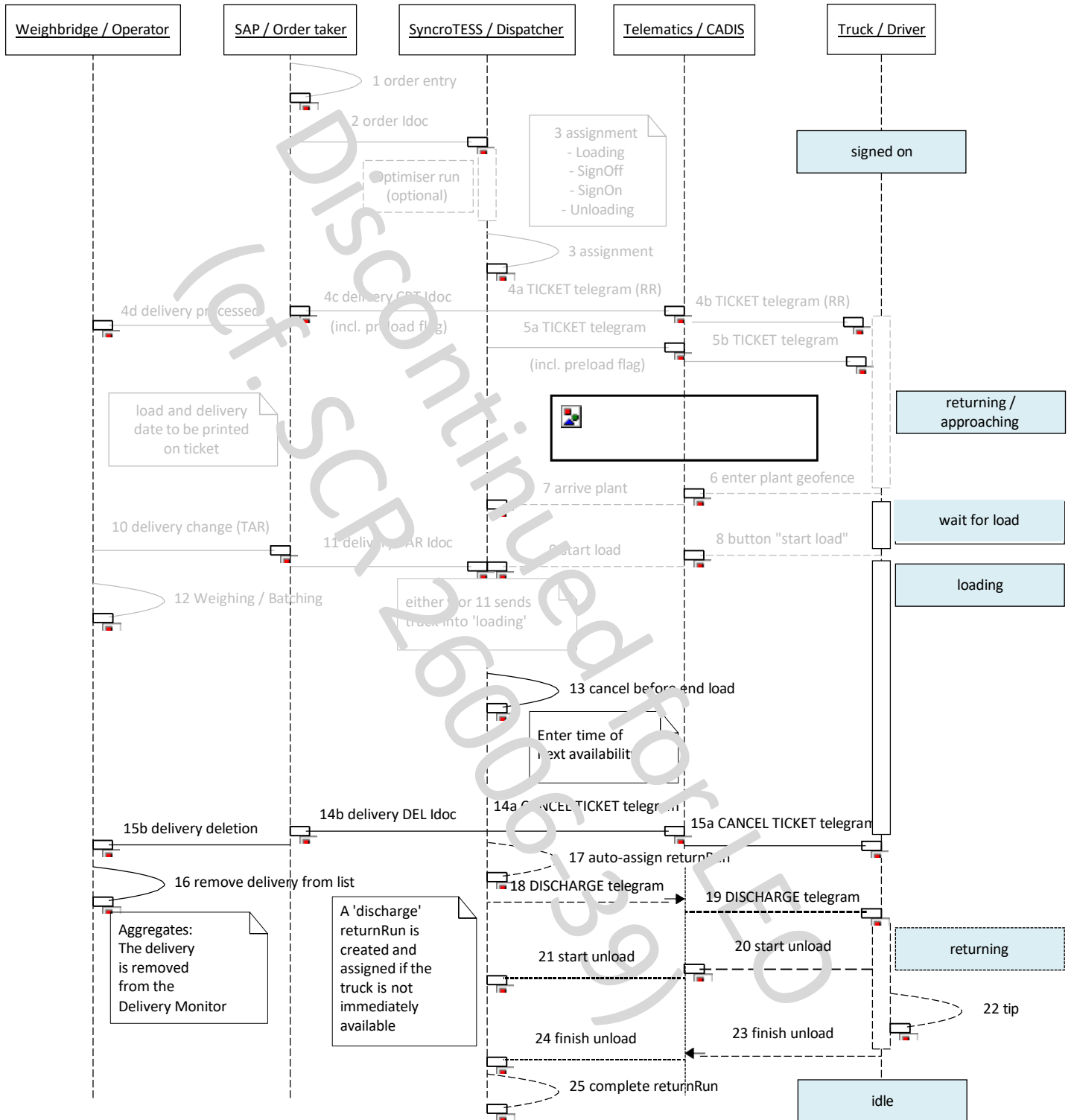


Remark:

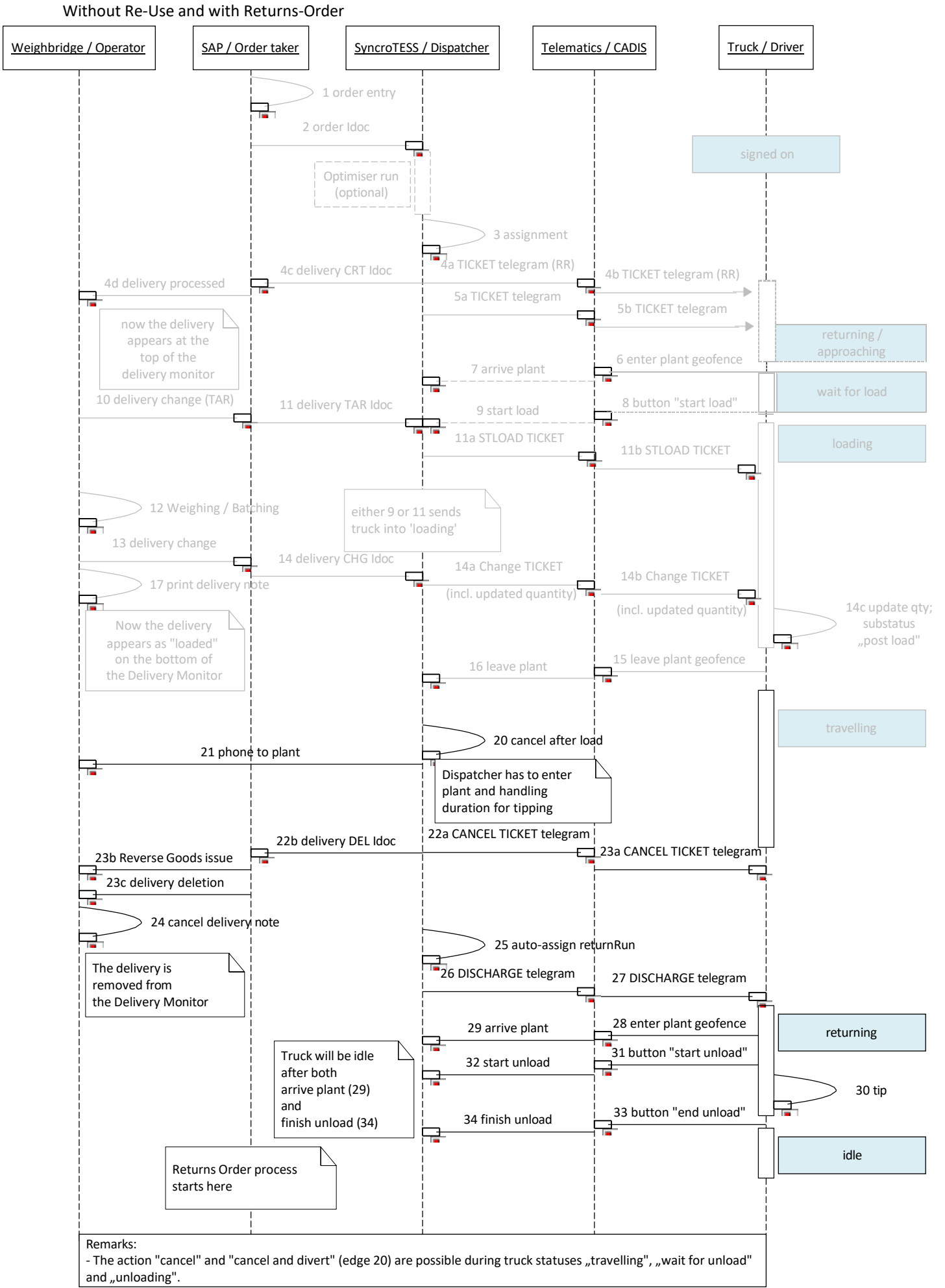
- The difference between this scenario and the previous one (334a) is the fact the second delivery D2 already has commenced loading. In this case the quantity and reference number of the second delivery D2 is retained, overwriting the one from the first delivery D1.
- The assignment with reuse (step 15) is only possible if the company code of the loading plant relating to the leftover material is the same as the company code of the plant, from which a newly to be assigned order is to be loaded (cf. SCR 26006-27) and if the leftover material is "pure", i.e. has not been reused for another delivery yet (cf. SCR 26006-28).

(335) Cancel Preload before end load (Ag)

Full Re-Stock of material without Return-Order

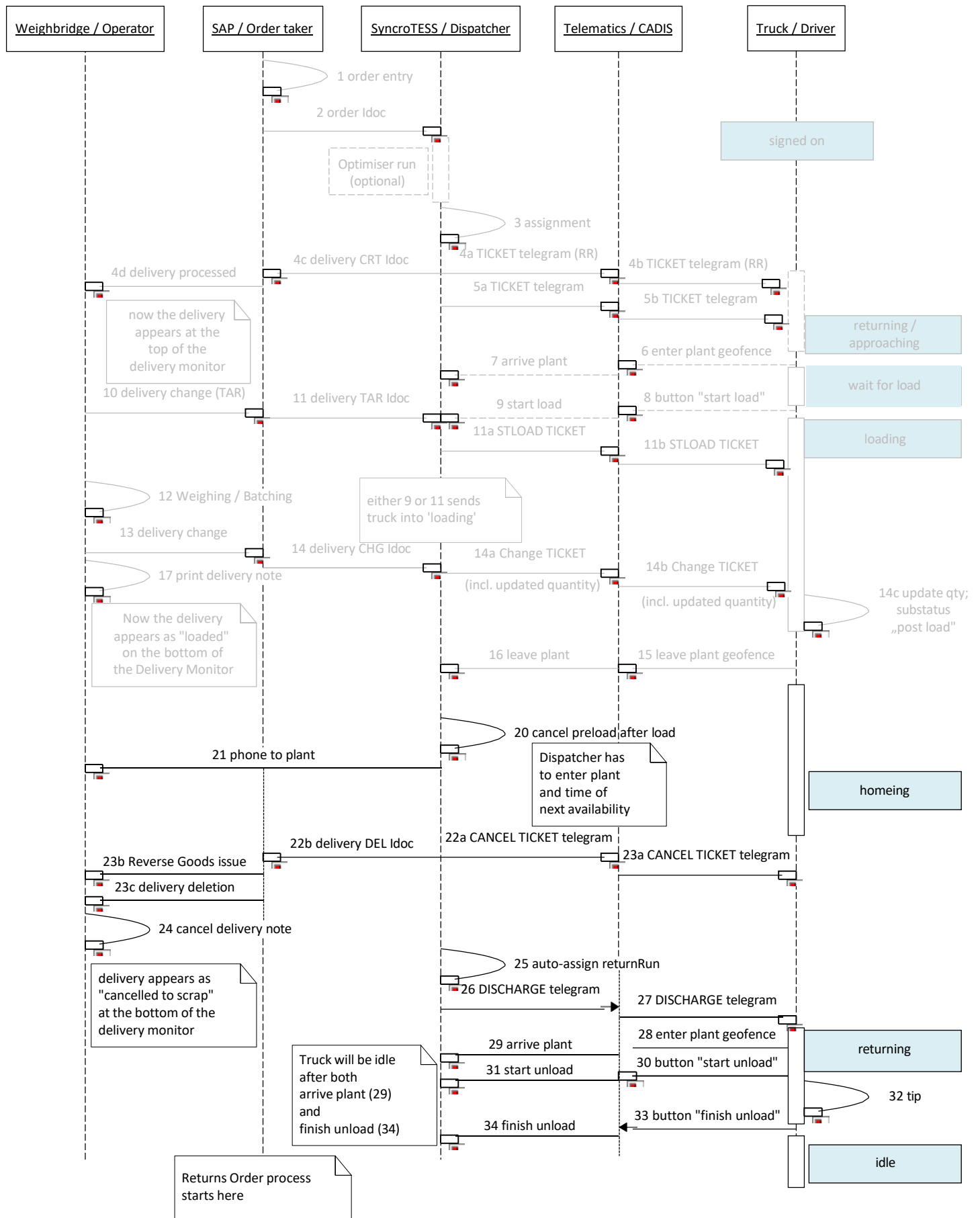


(340) Cancel delivery after load, tip (Ag, As, Co, Mo, Ce)



(344) Cancel Preload after load before parking, return same day (Ag, Mo, Ce)

With Returns-Order

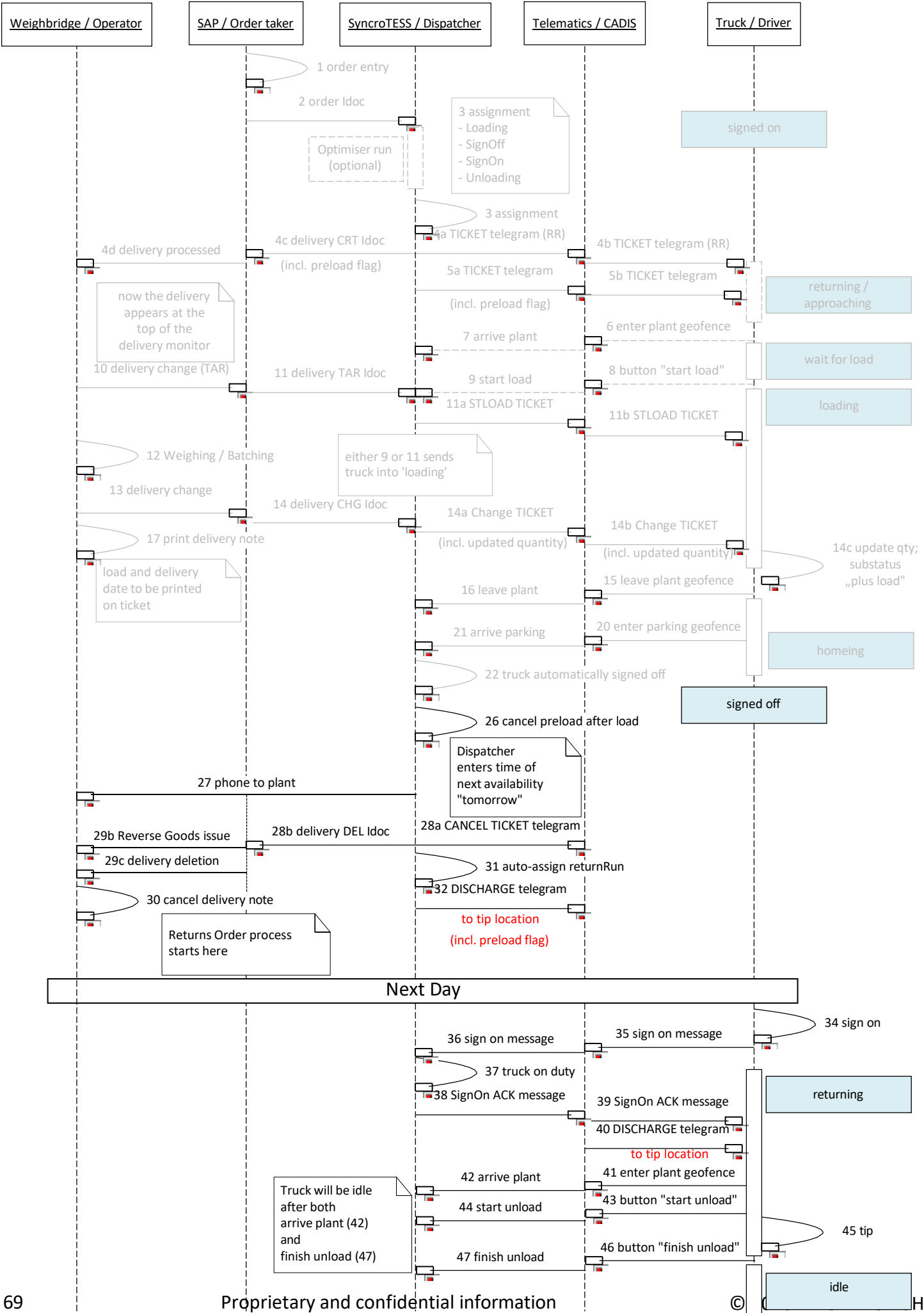


With Returns-Order



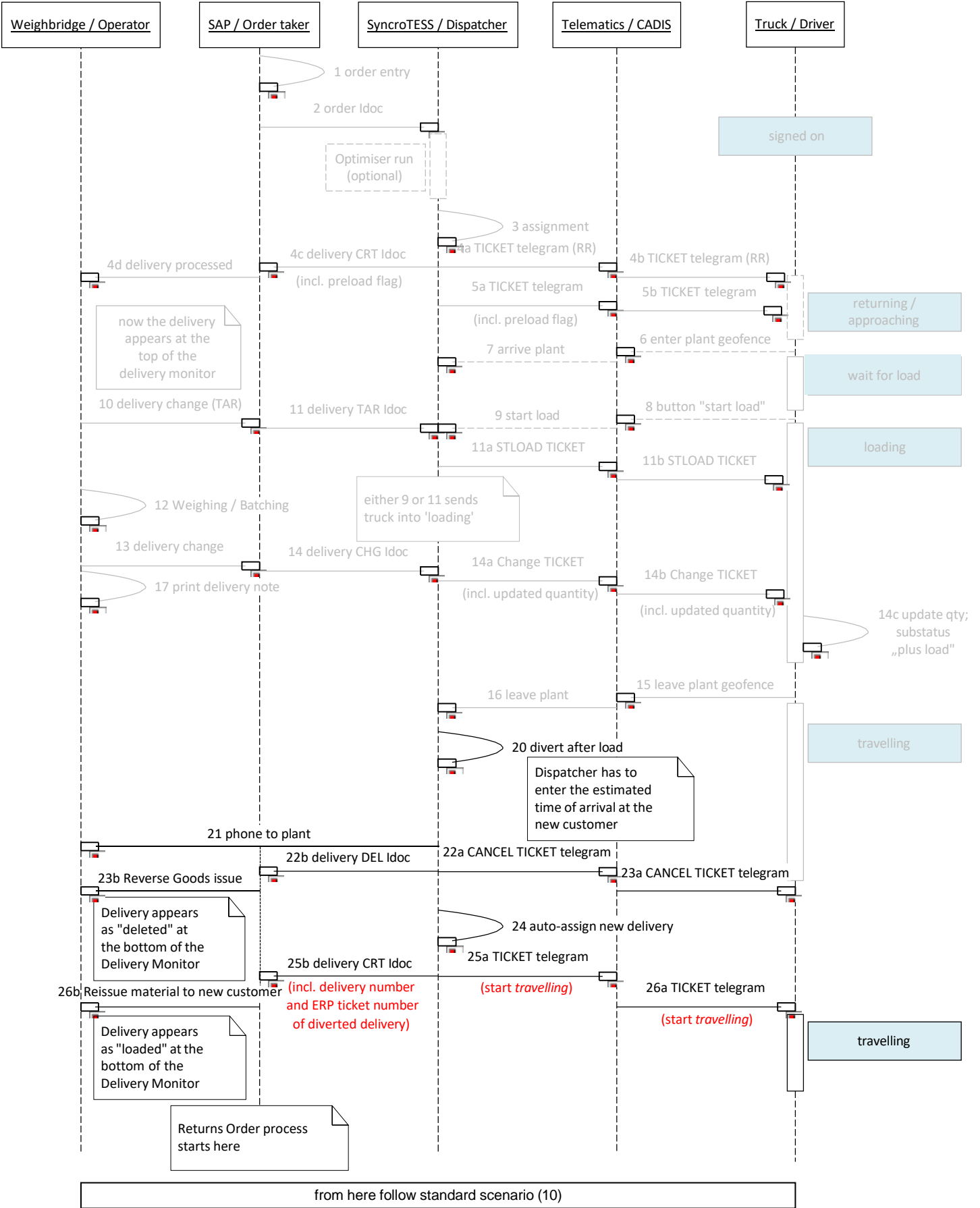
(348) Cancel Preload at parking, return next day (Ag, Mo, Ce)

With Returns-Order



(350) Divert delivery after loading (Ag, As, Co, Mo, Ce)

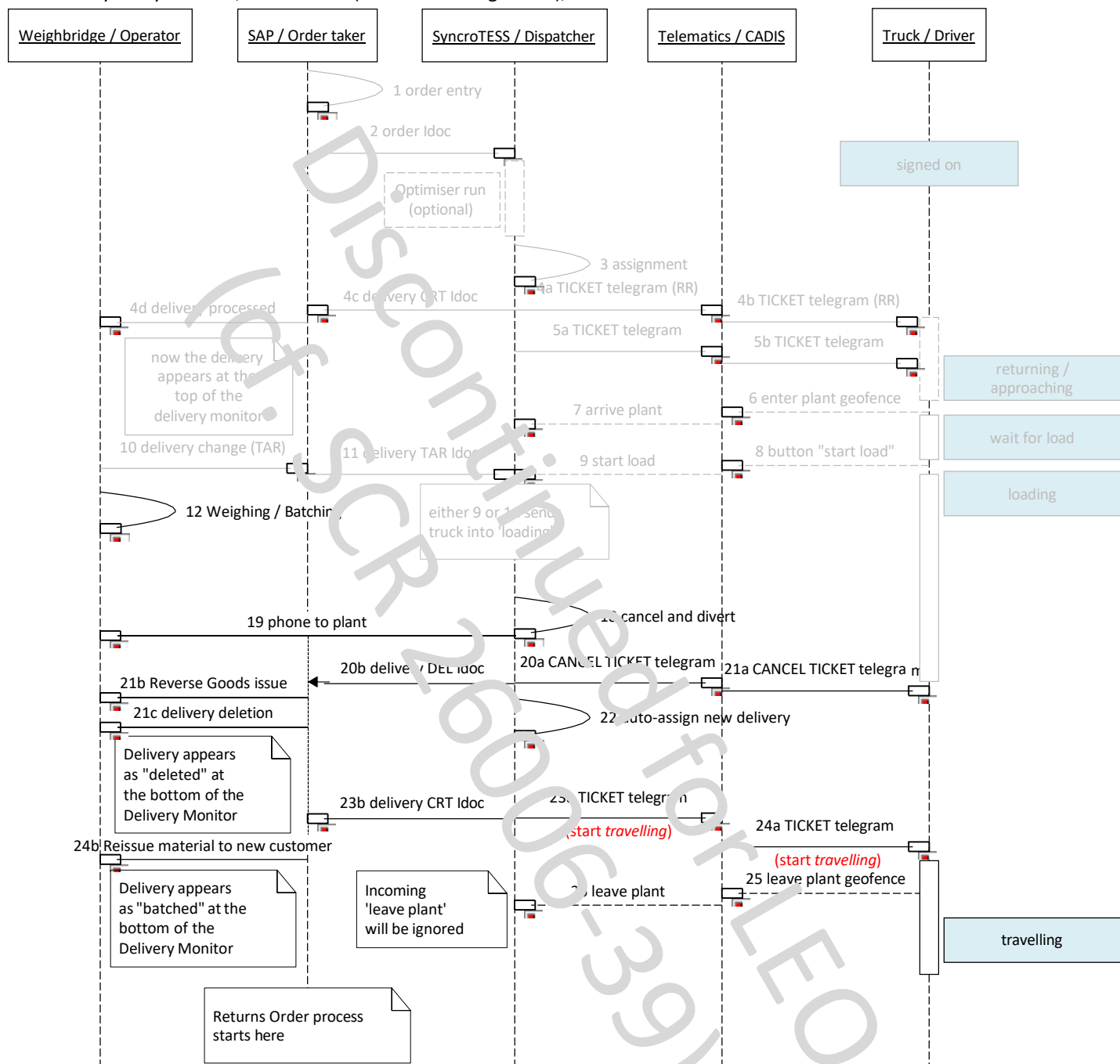
With Returns-Order



Remarks:
- The action "cancel" and "cancel and divert" (edge 20) are possible during truck statuses „travelling“, „wait for unload“ and „unloading“..

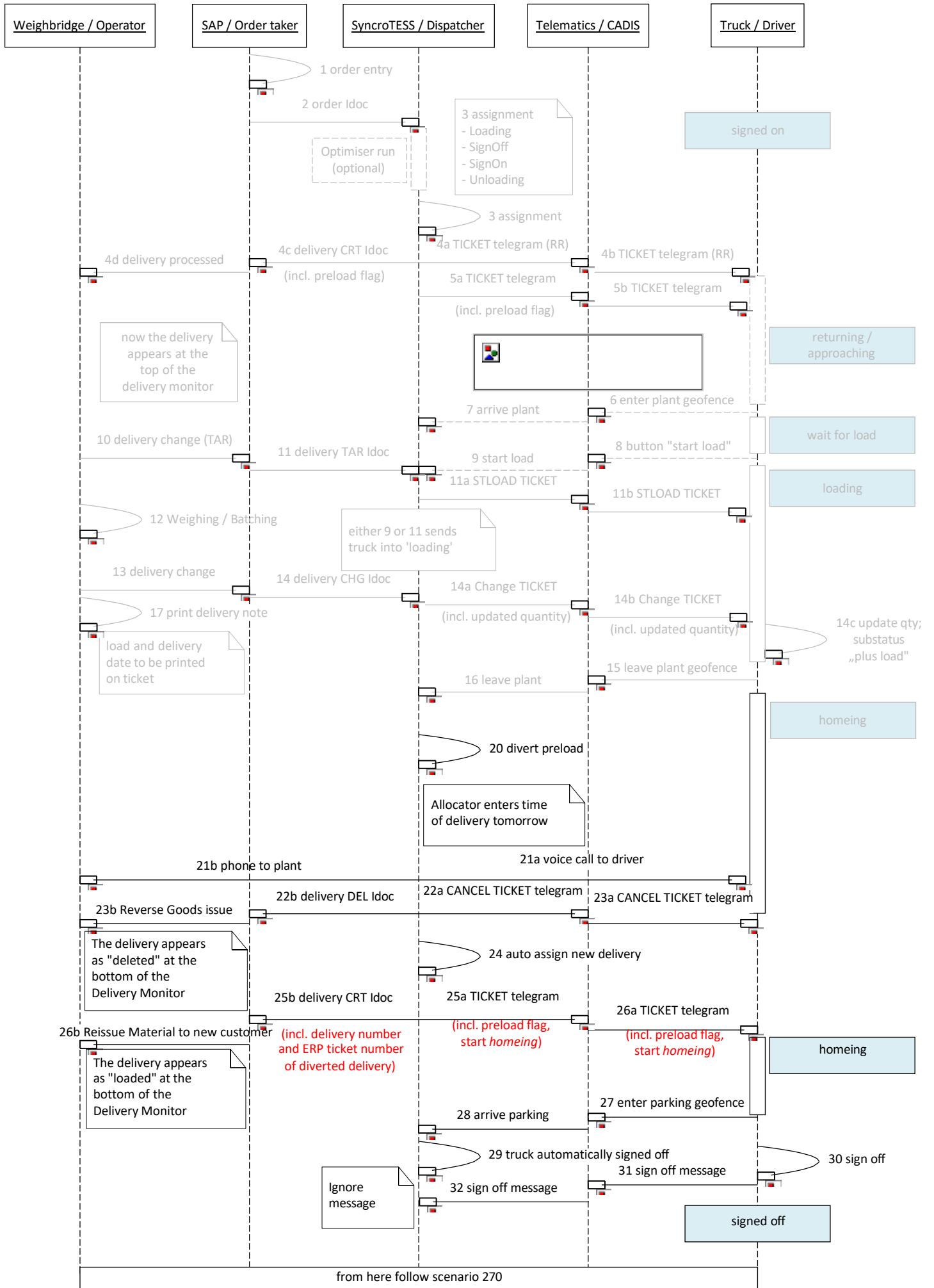
(355) Divert Delivery before end load (Ag, As, Co, Mo, Ce)

Physically batched, not ticketed (Truck in Loading Status), with Returns-Order



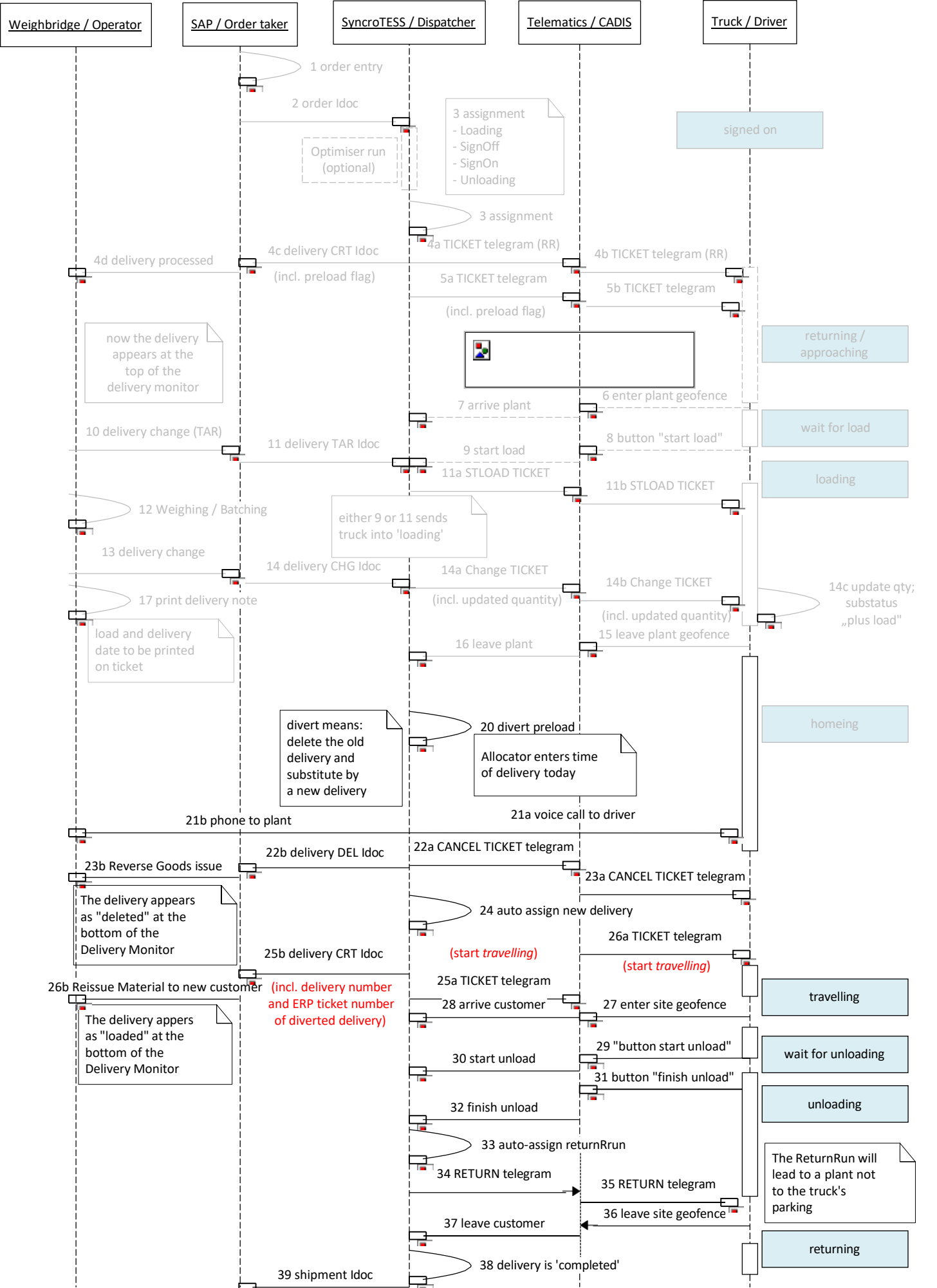
(360) Divert preload before parking for a delivery next day (Ag, Mo, Ce)

Without Returns-Order

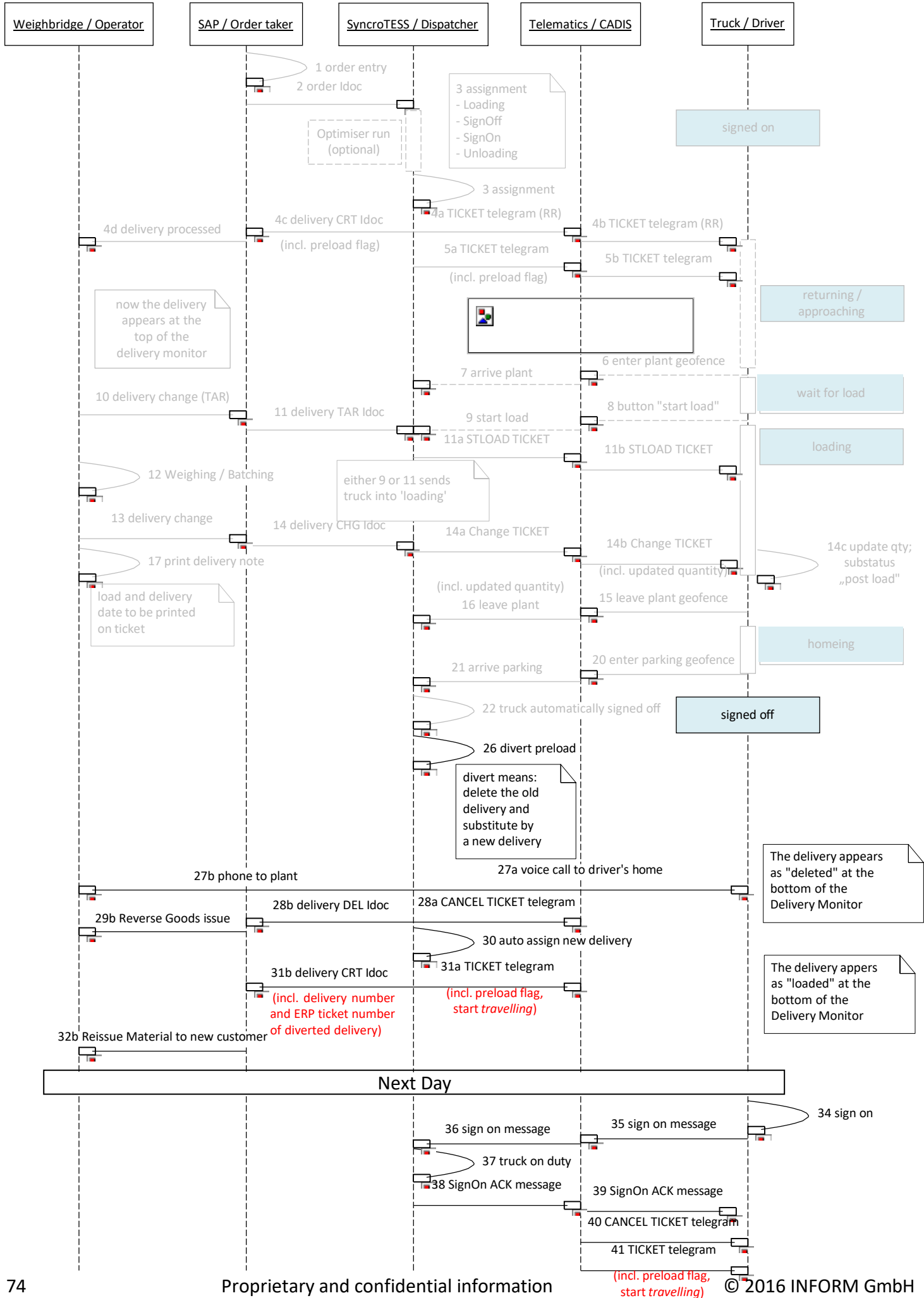


(361) Divert preload before parking for a delivery on the same day (Ag, Mo, Ce)

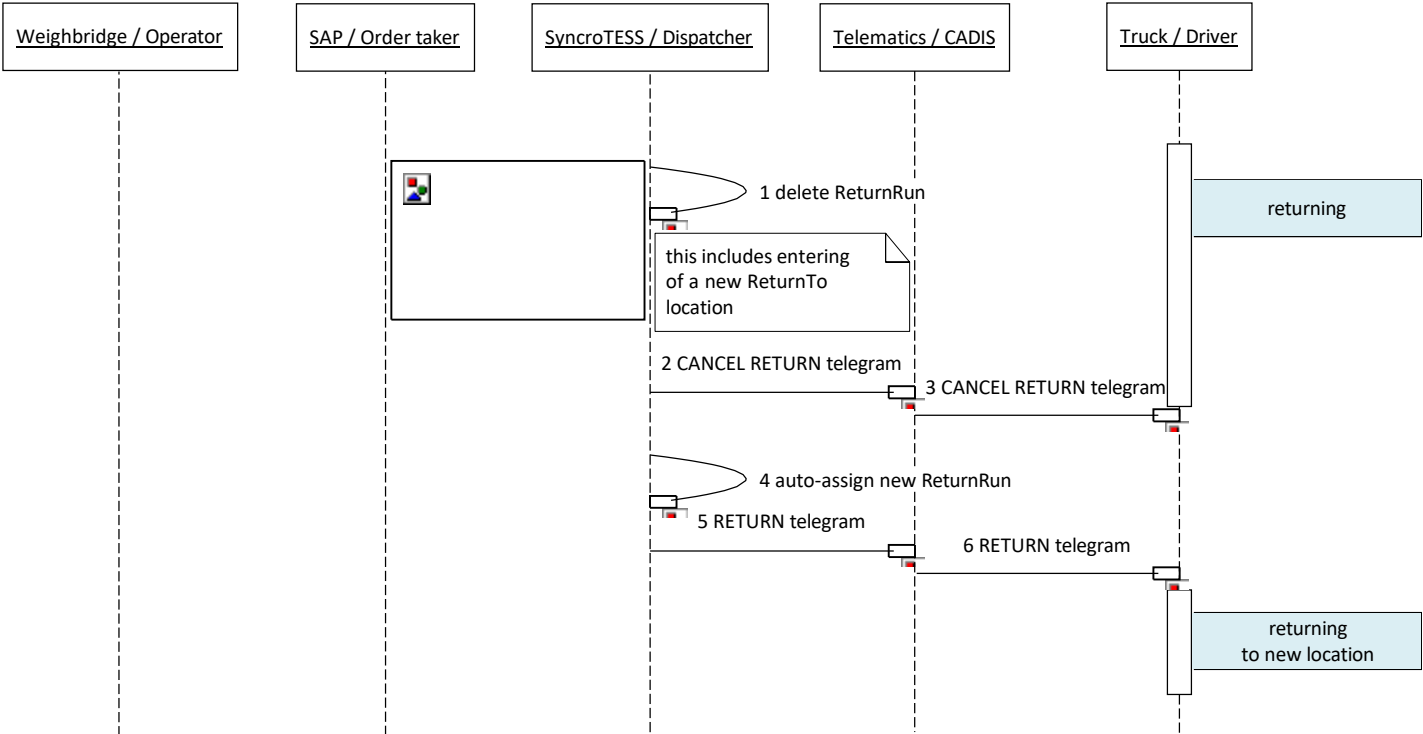
Without Returns-Order



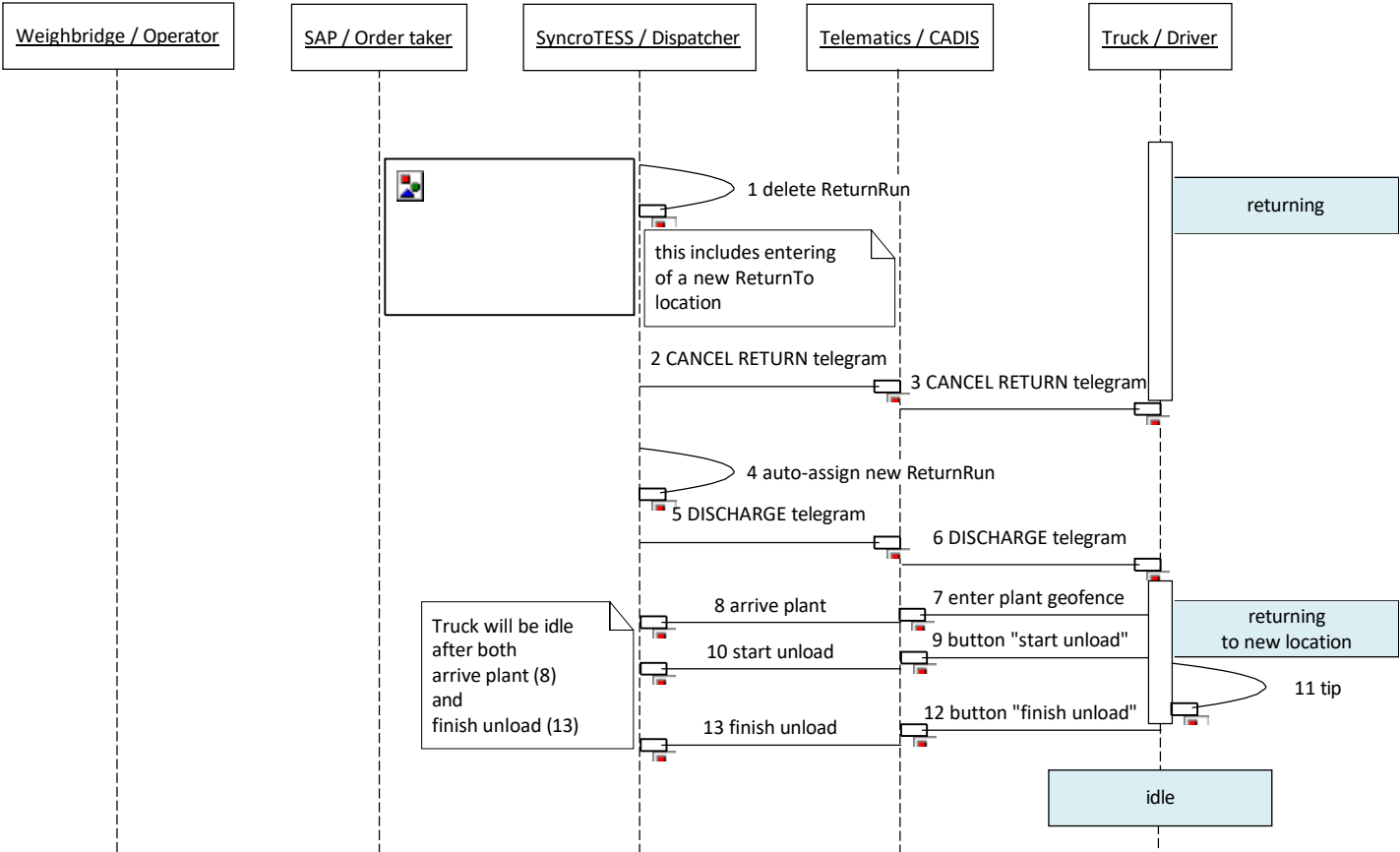
(370) Divert preload at parking (Ag, Mo, Ce)



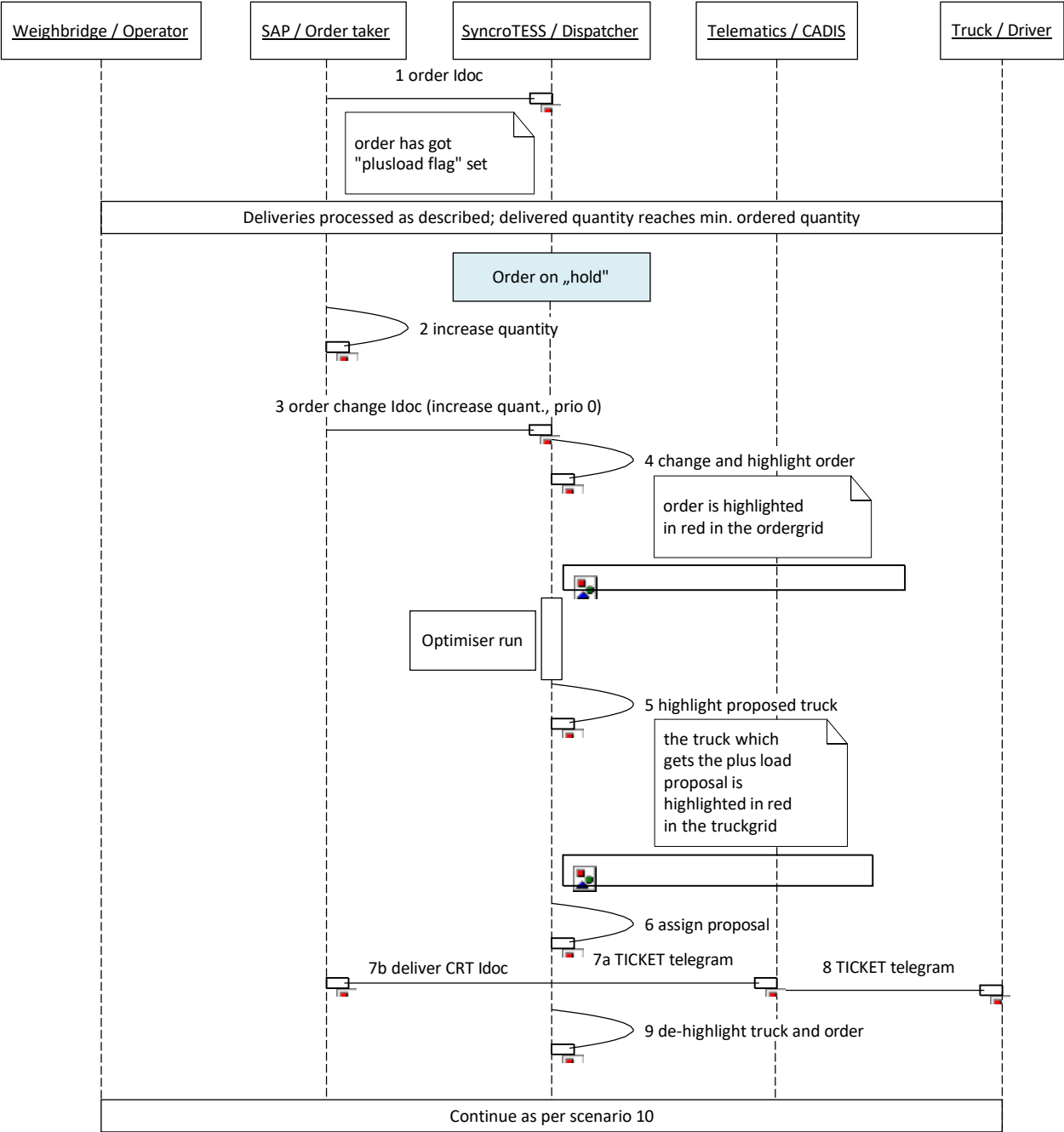
(380) ReturnRun deletion (Ag, As, Co, Mo, Ce)



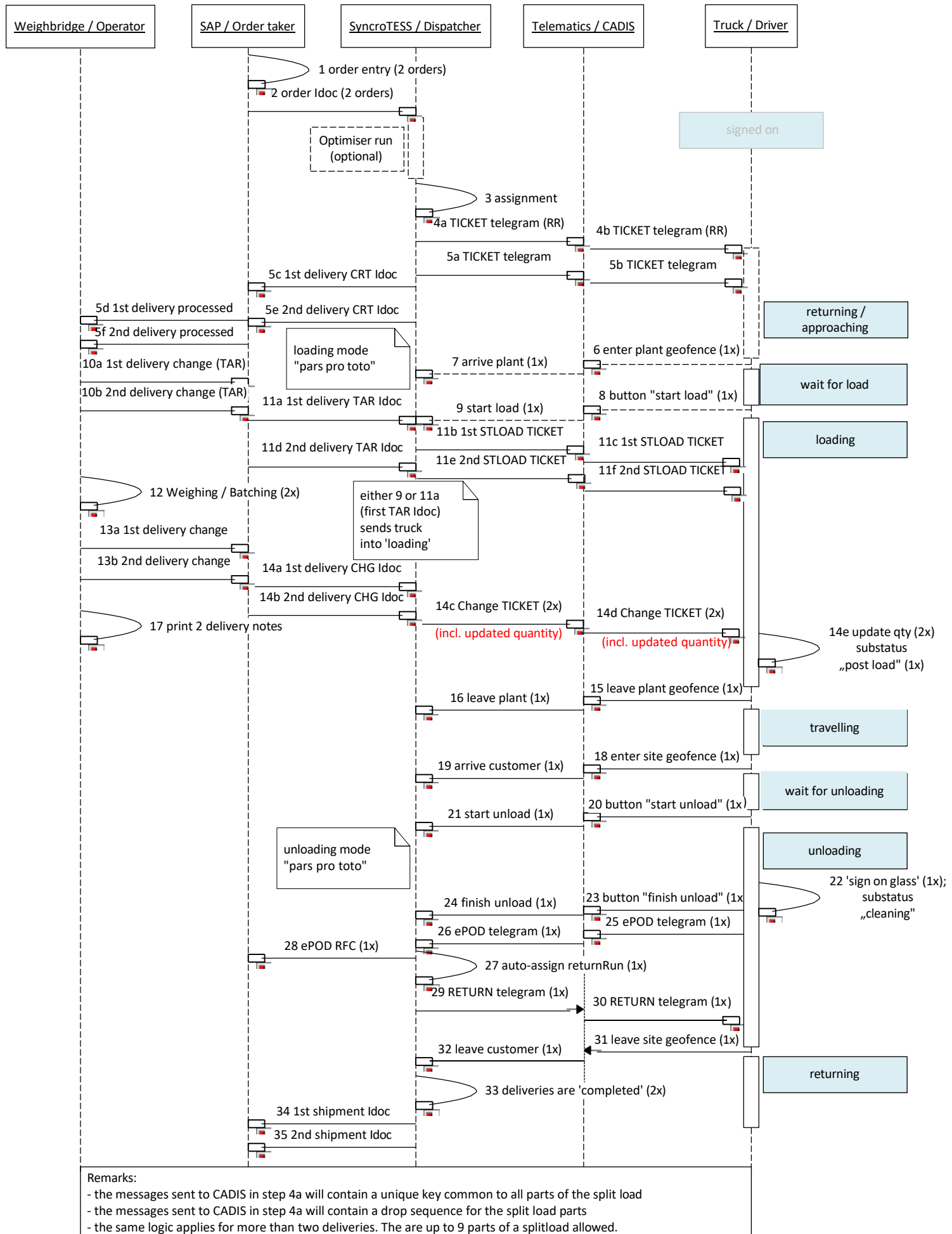
(385) DischargeRun deletion (Ag, As, Co, Mo, Ce)



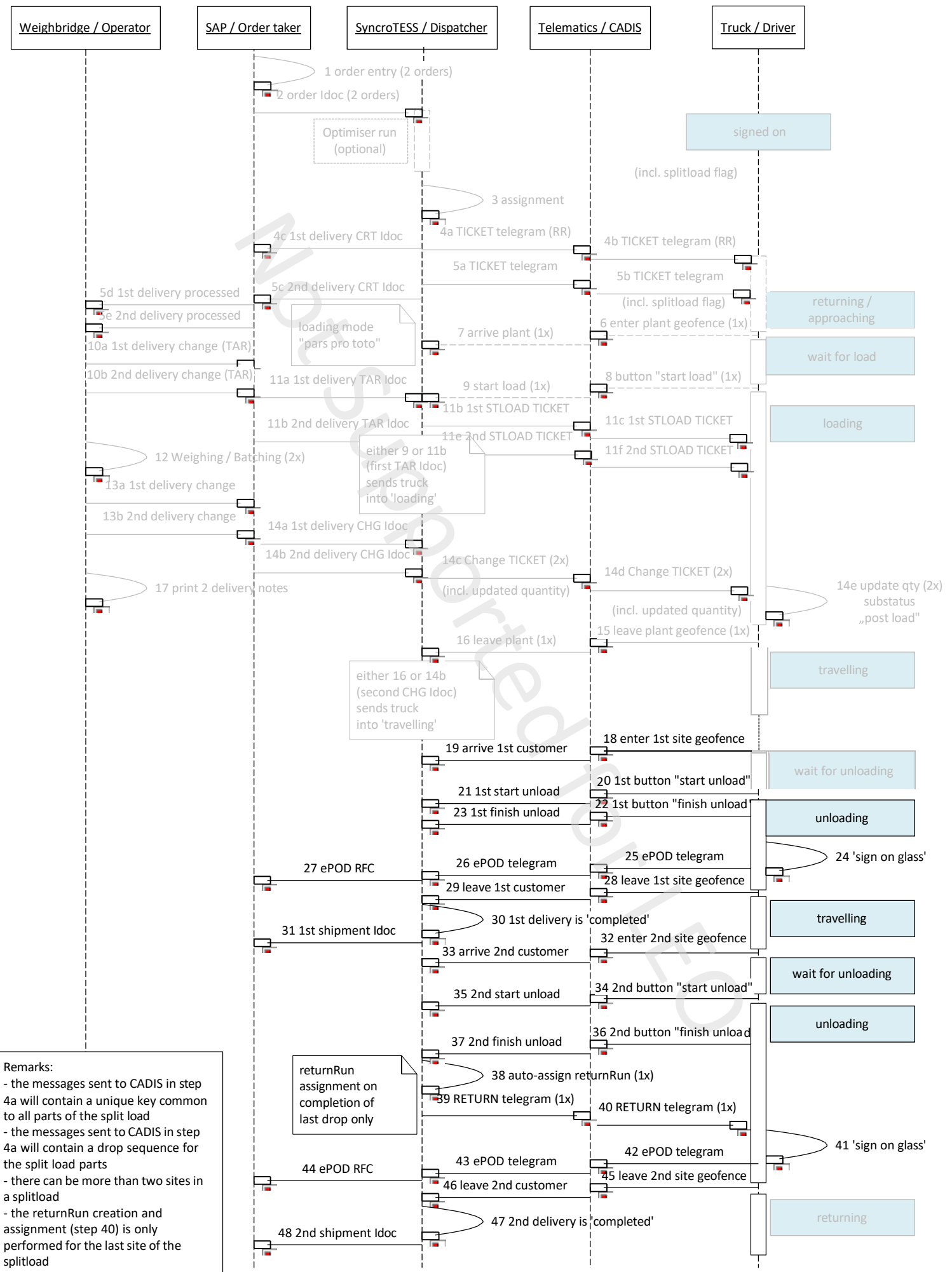
(390) Plus-Load handling (Ag, As, Co, Mo, Ce)



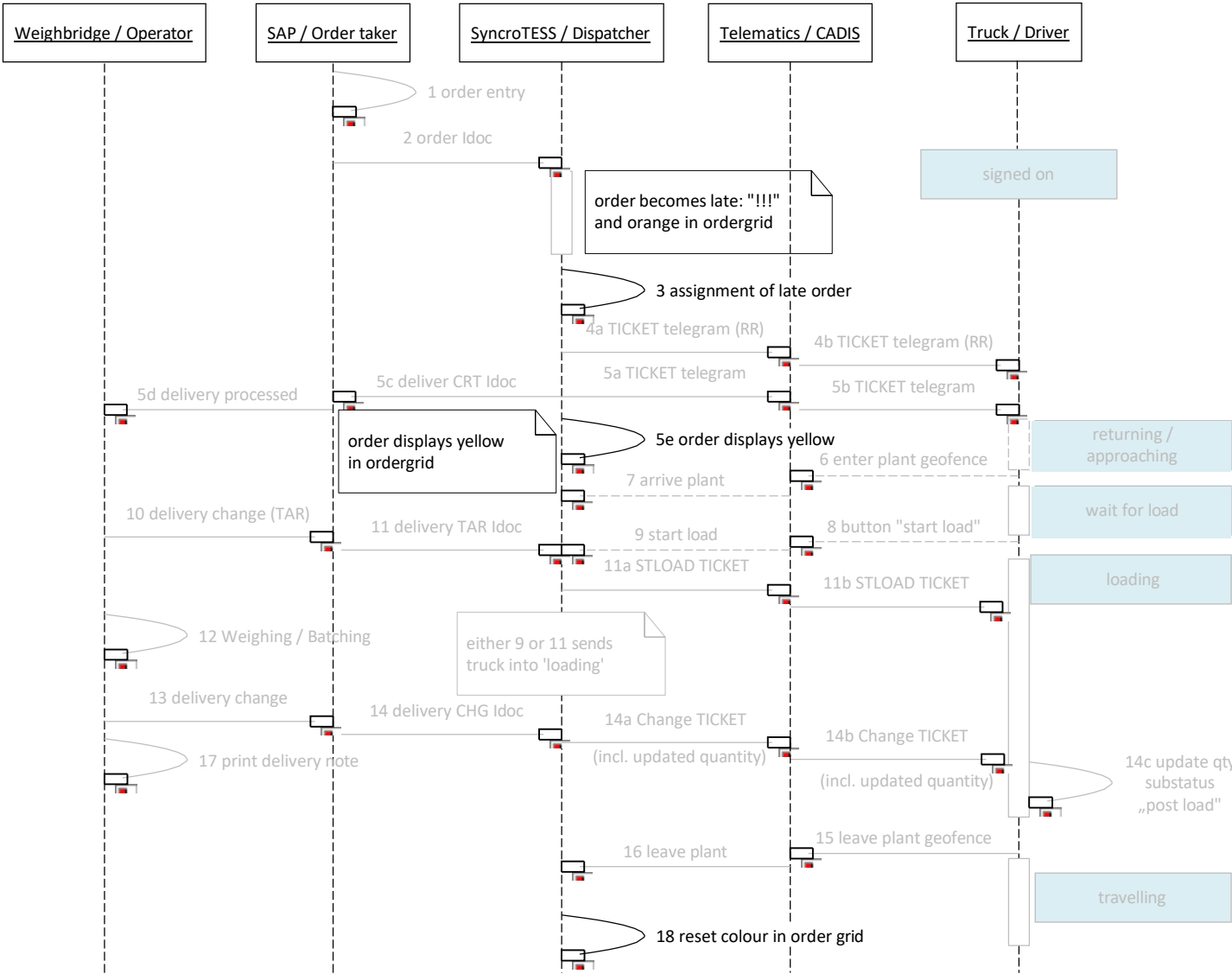
(400) Splitload, drops at same site (Ag, As)



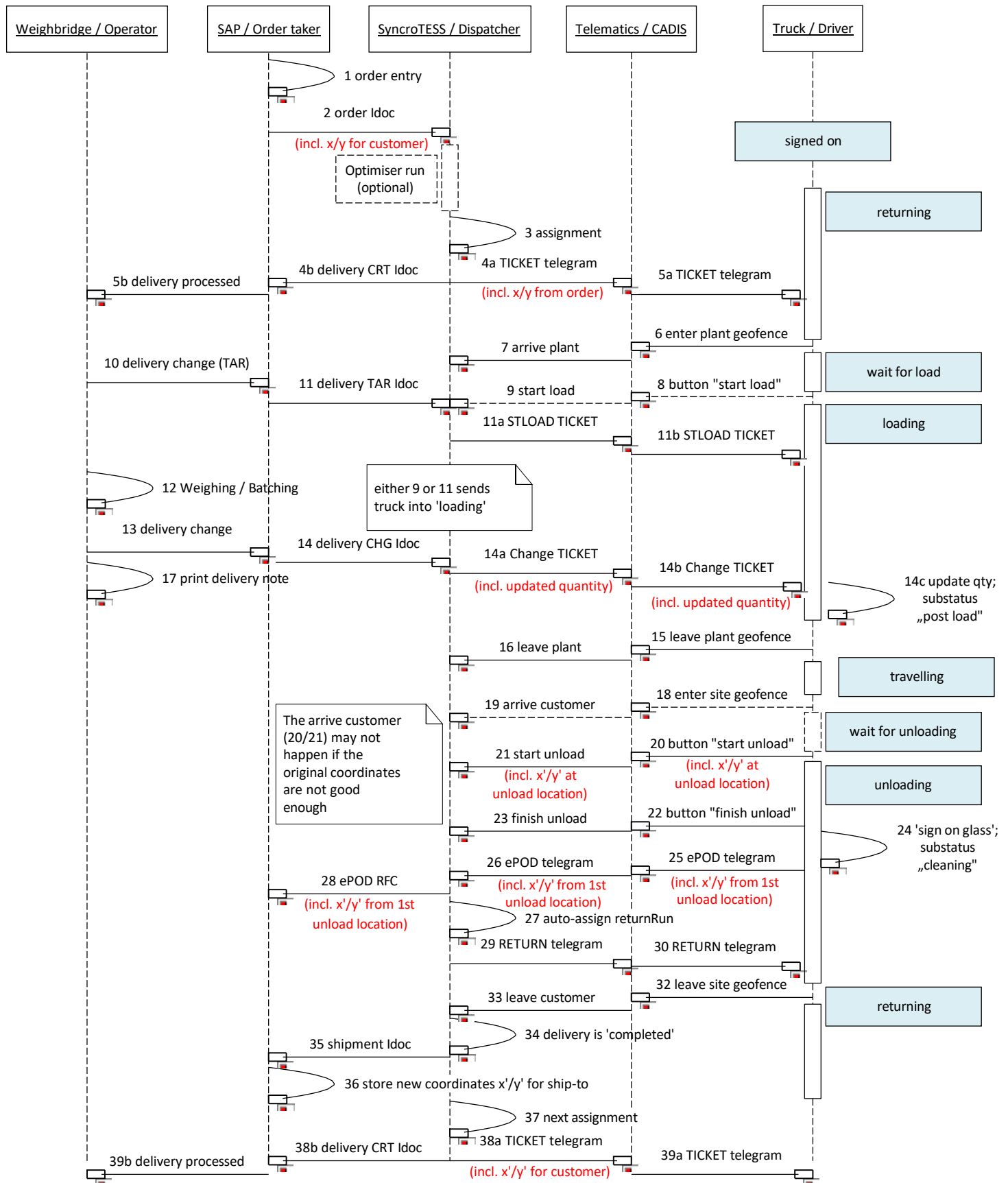
(405) Splitload, drops at different sites



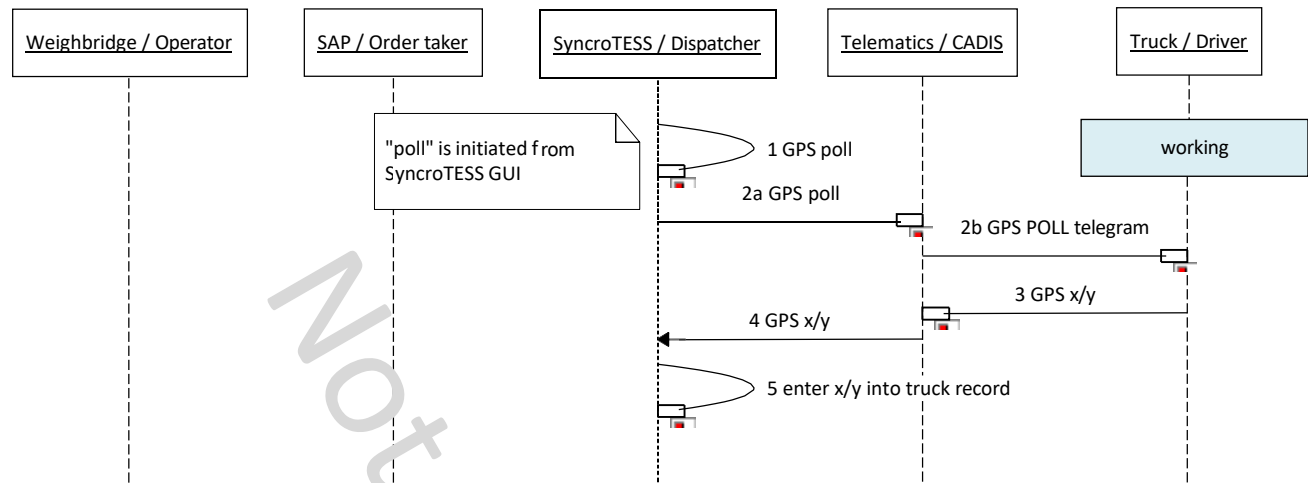
(410) to be displayed yellow (brown) (Ag, As, Co, Mo, Ce)



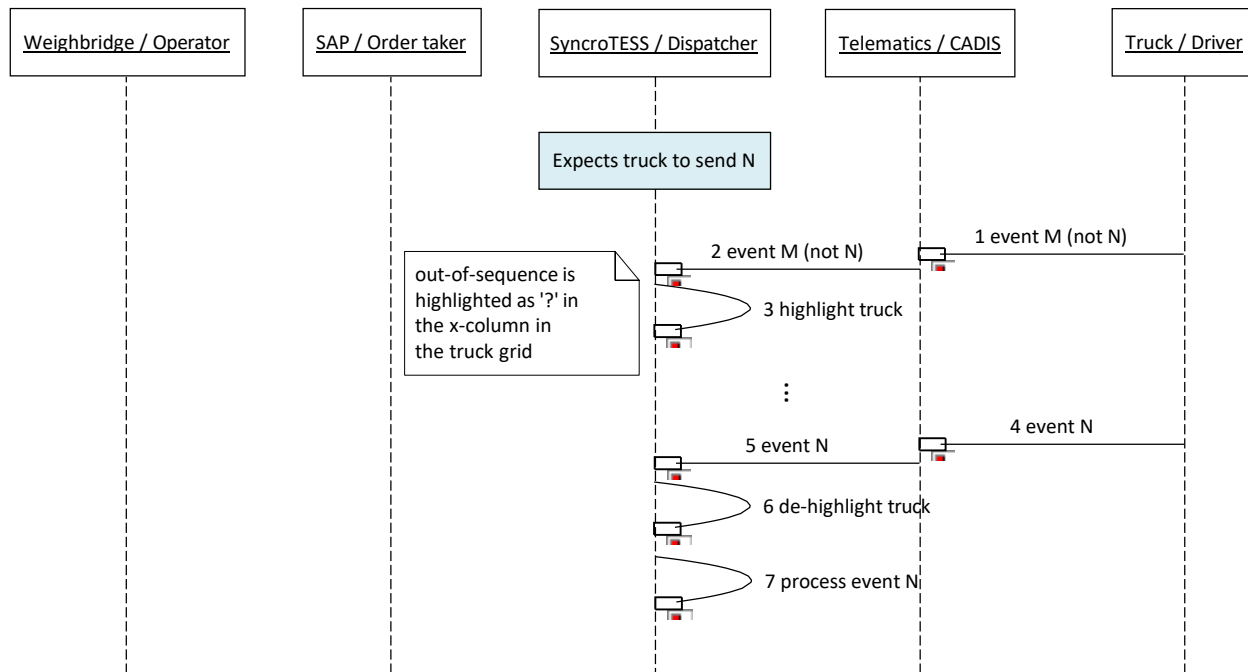
(420) GPS handling (Ag, As, Co, Mo, Ce)



(430) GPS poll

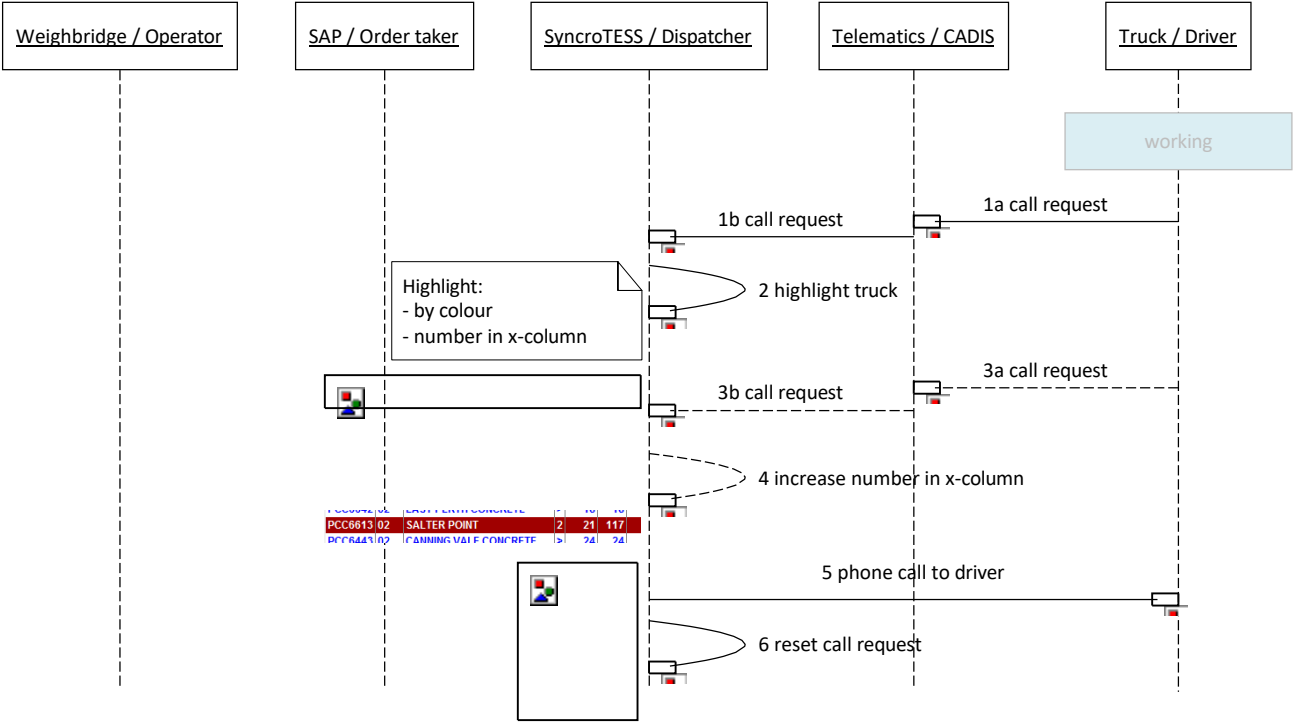


(440) Out of sequence (Ag, As, Co, Mo, Ce)

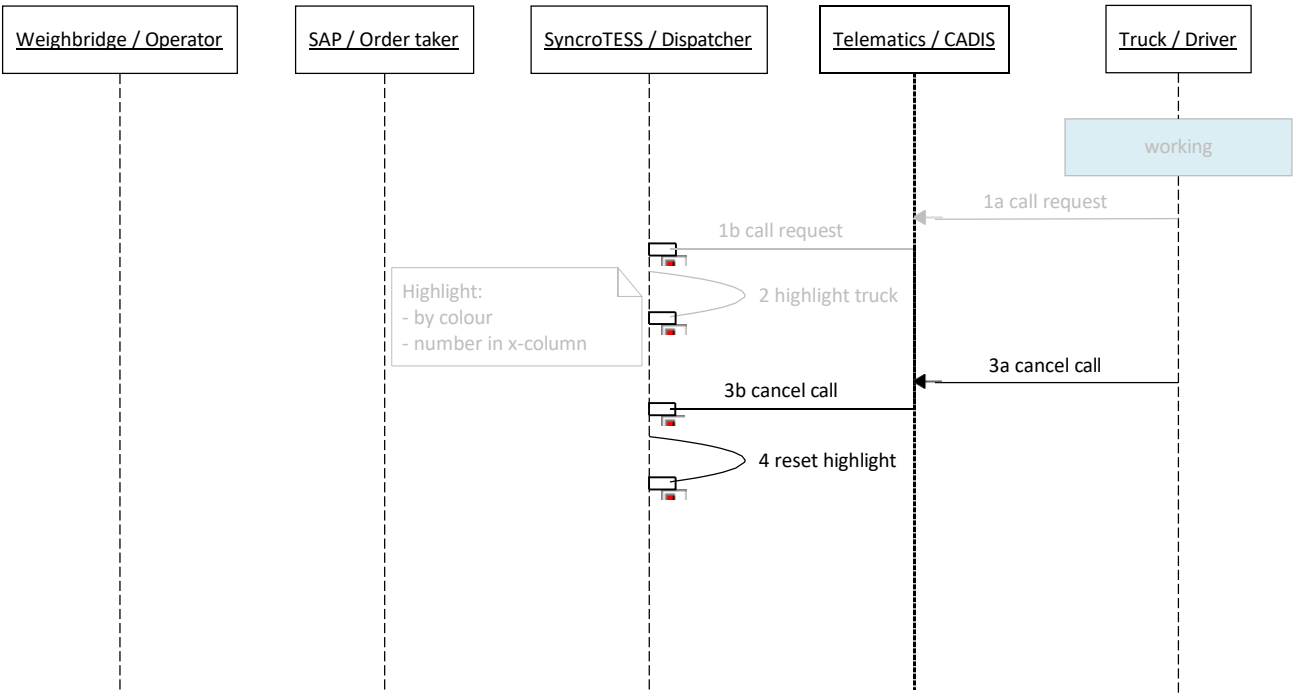


(450) Call request / Cancel call request (Ag, As, Co, Mo, Ce)

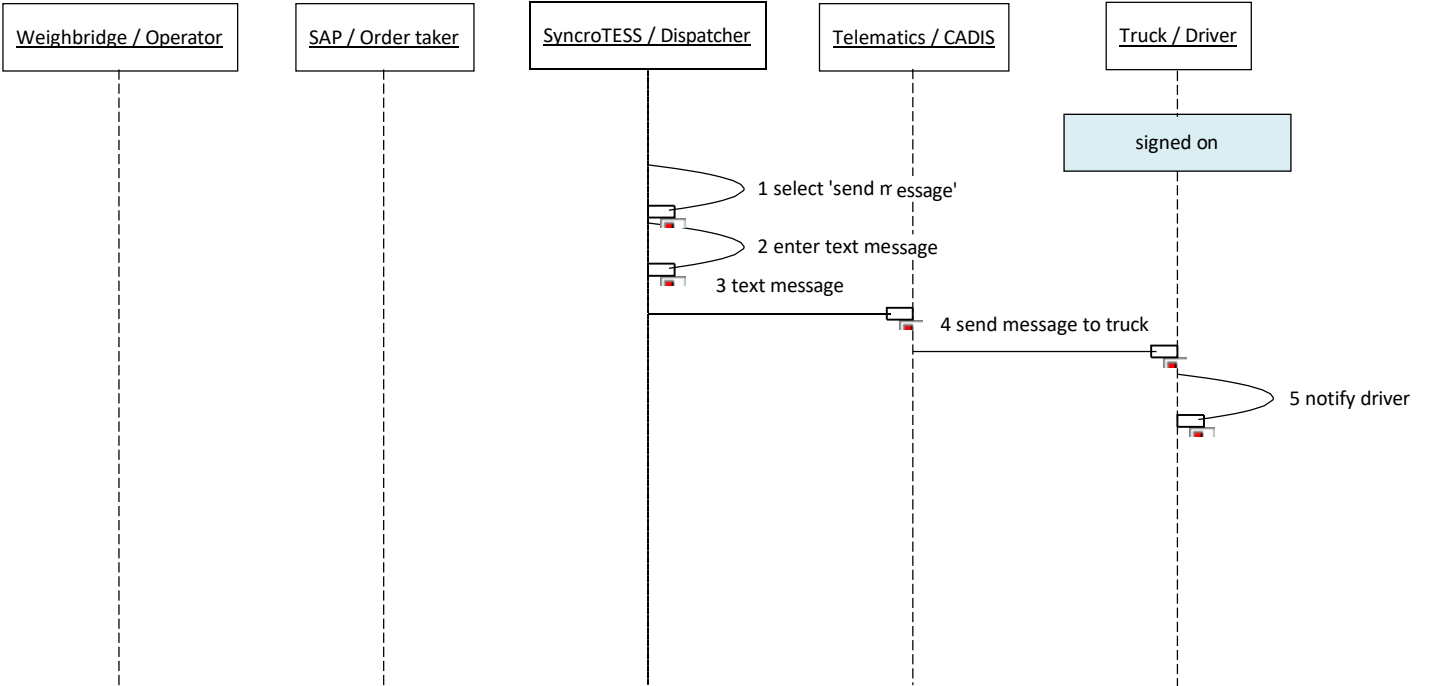
(a) request a call



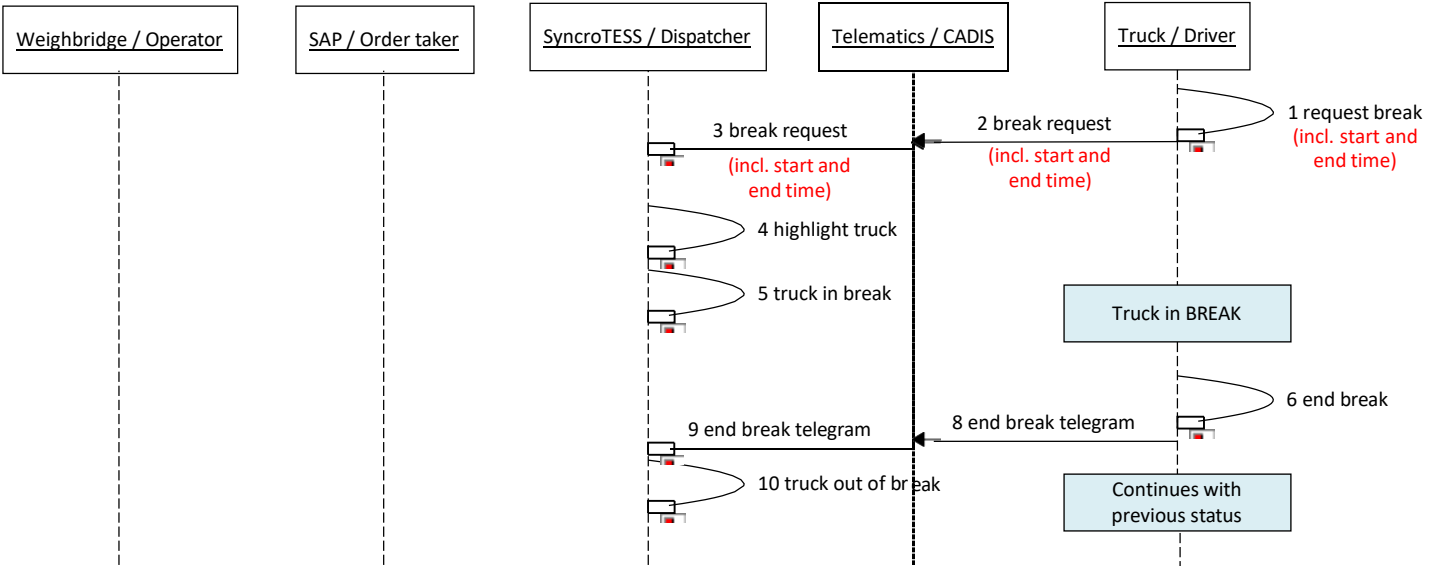
(b) cancel call request



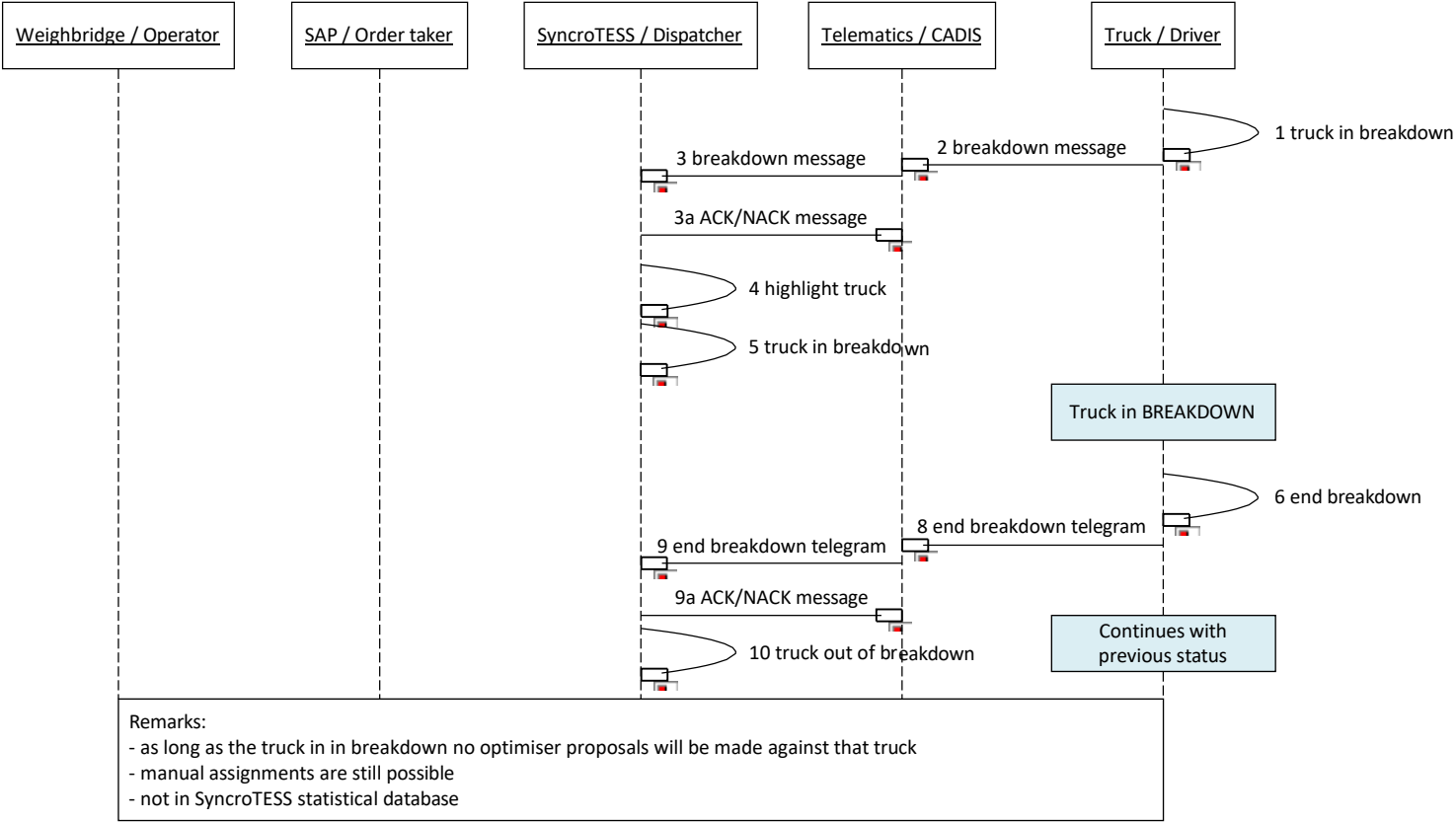
(455) Send free text message to truck (Ag, As, Co, Mo, Ce)



(460) Break handling (Ag, As, Co, Mo, Ce)

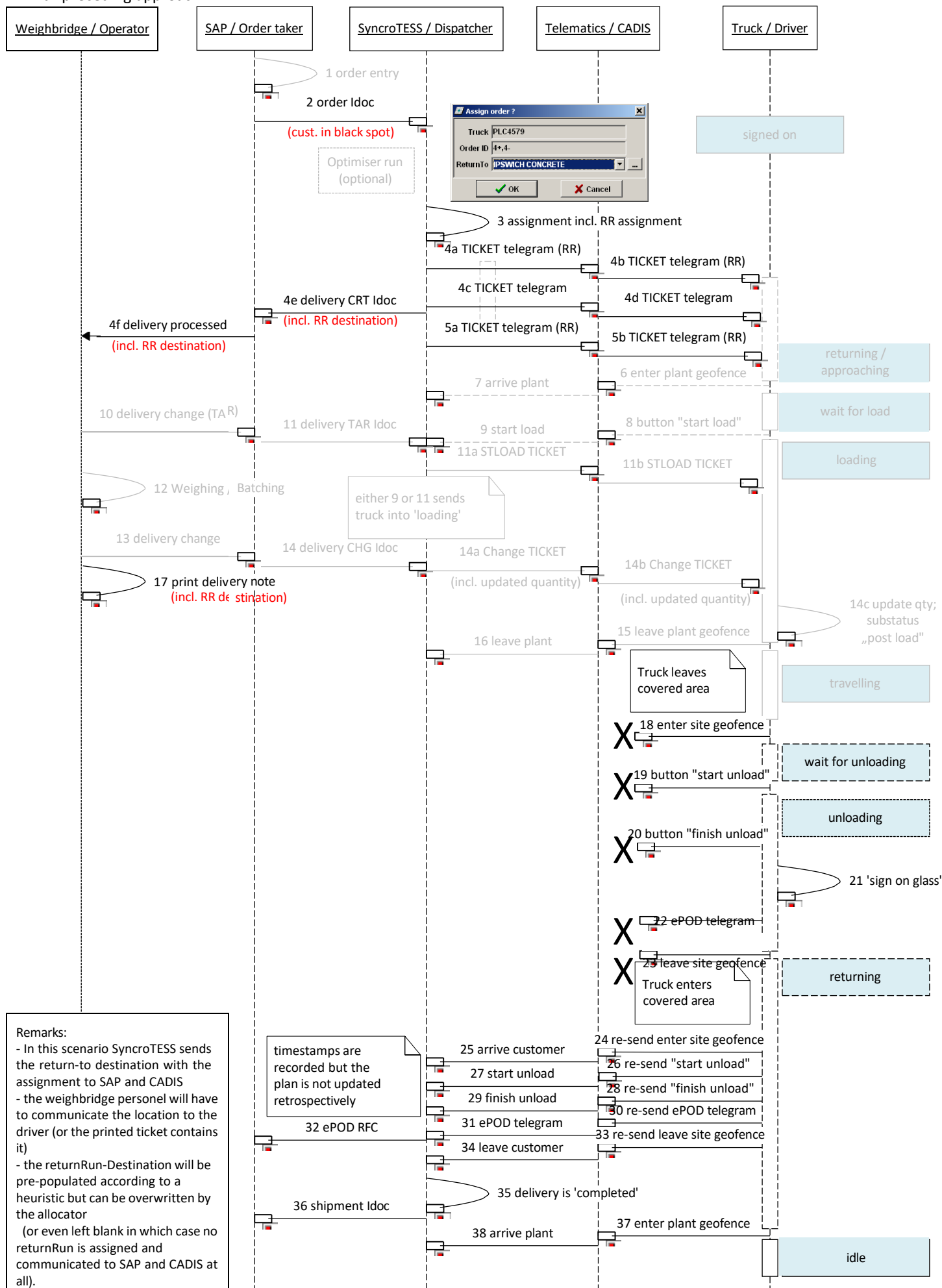


(465) Breakdown handling (Ag, As, Co, Mo, Ce)



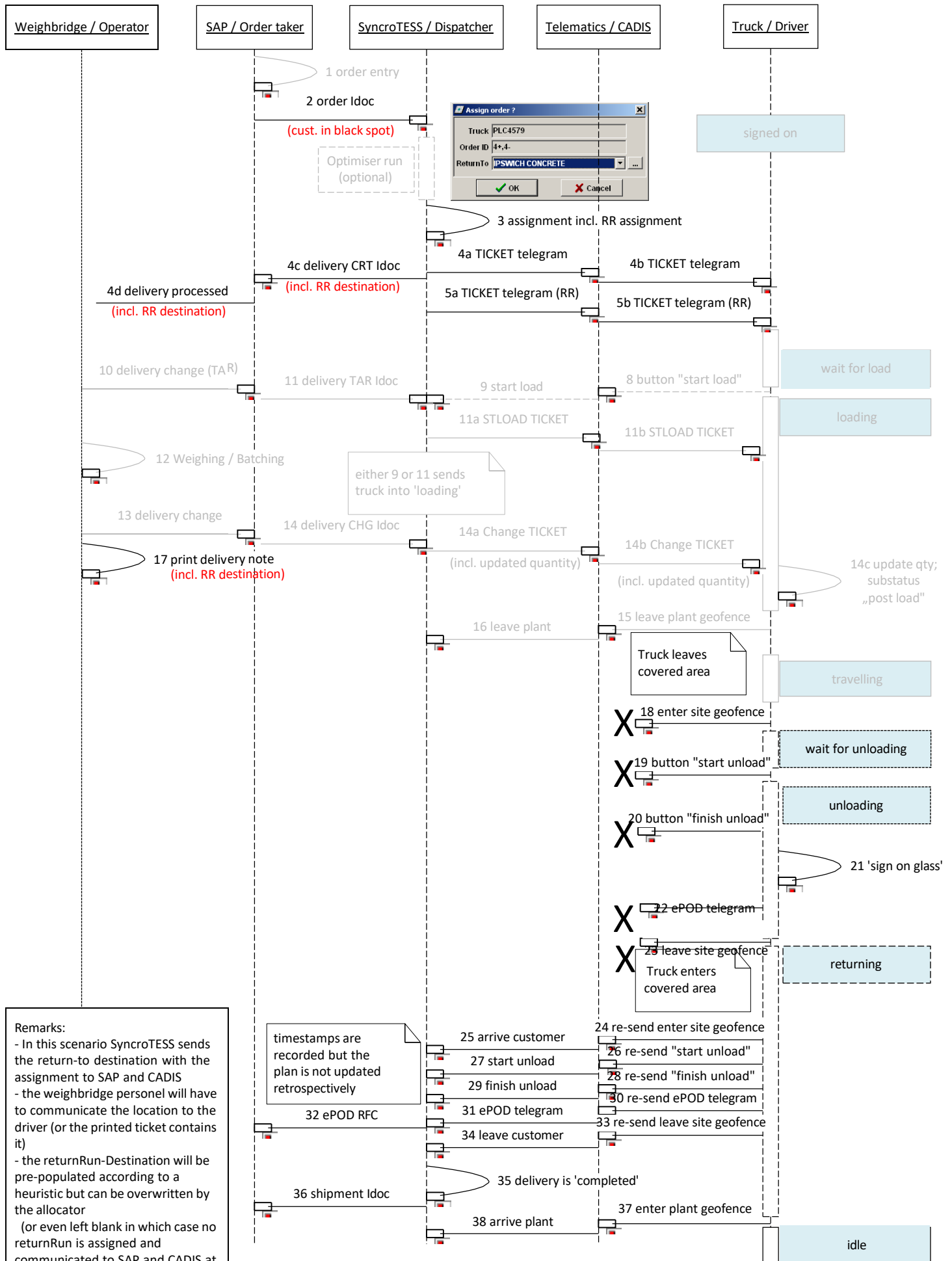
(470) Black spot at customer site functionality (Ag, As, Co, Mo, Ce)

With preceding approach

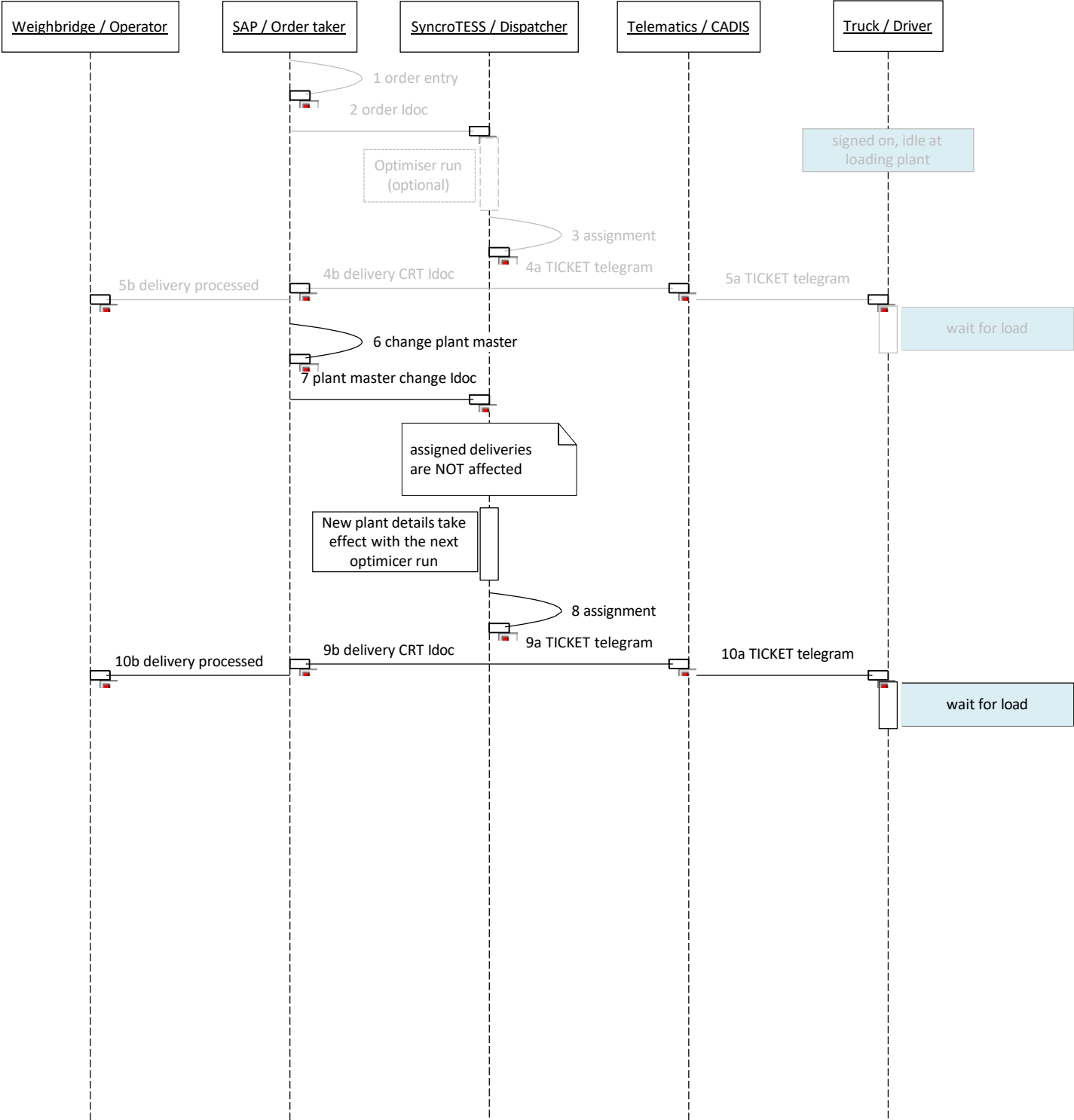


(475) Black spot at customer site functionality (Ag, As, Co, Mo, Ce)

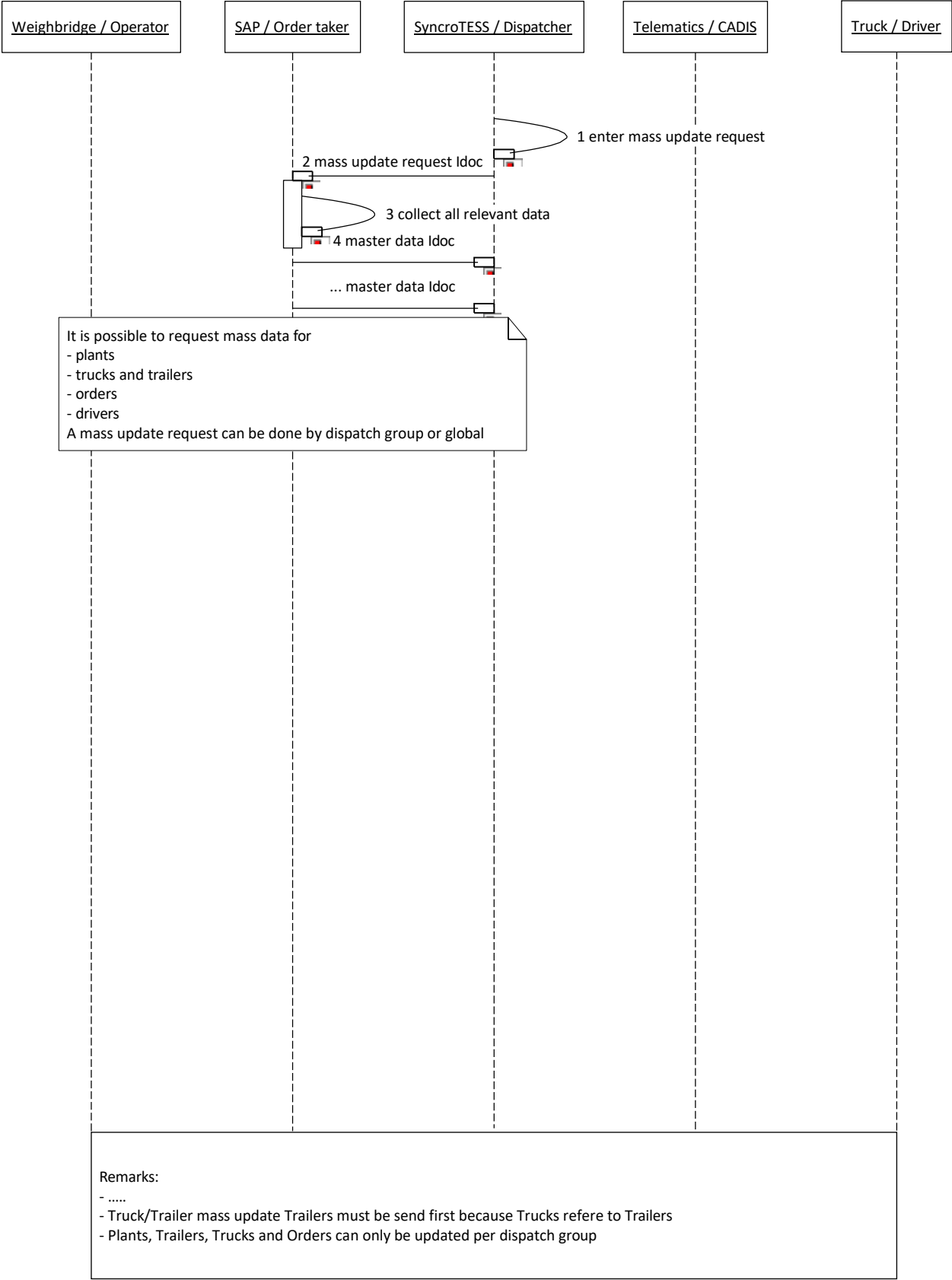
Without preceding approach



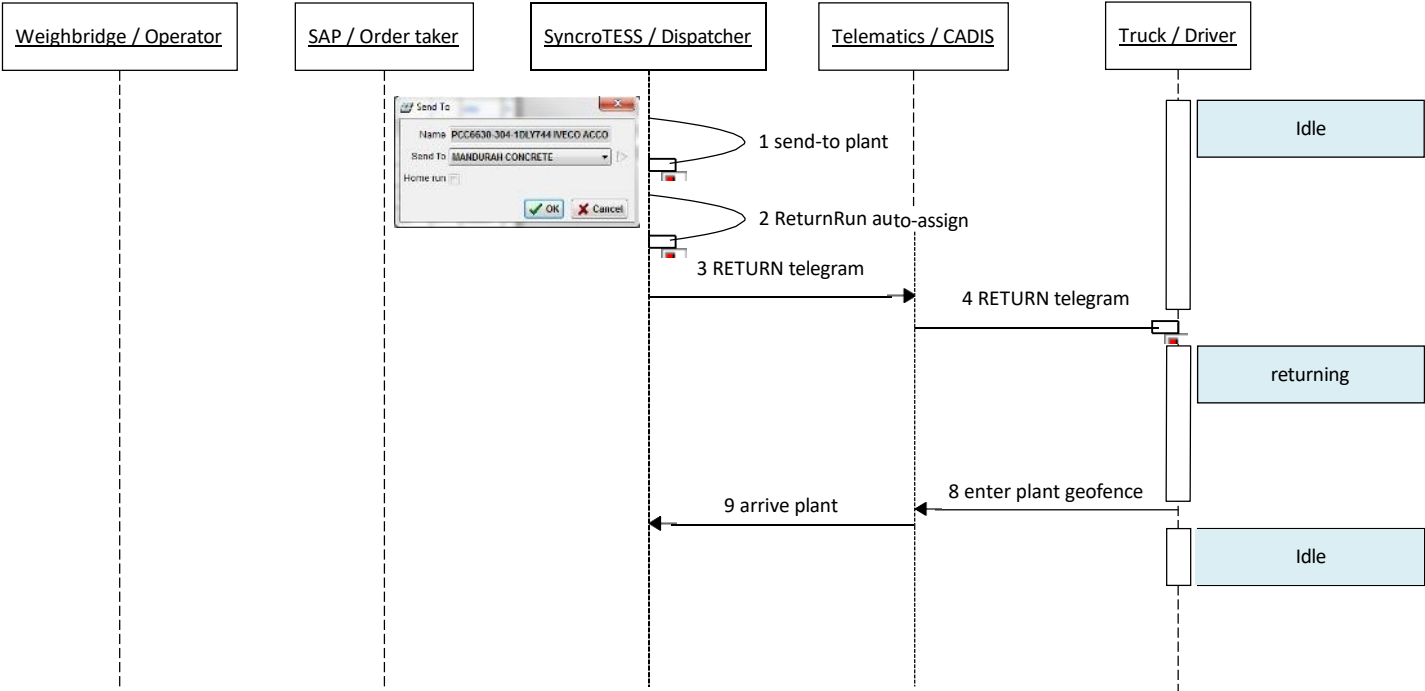
(480) Update plant master (Ag, As, Co, Mo, Ce)



(490) Mass update request (Ag, As, Co, Mo, Ce)

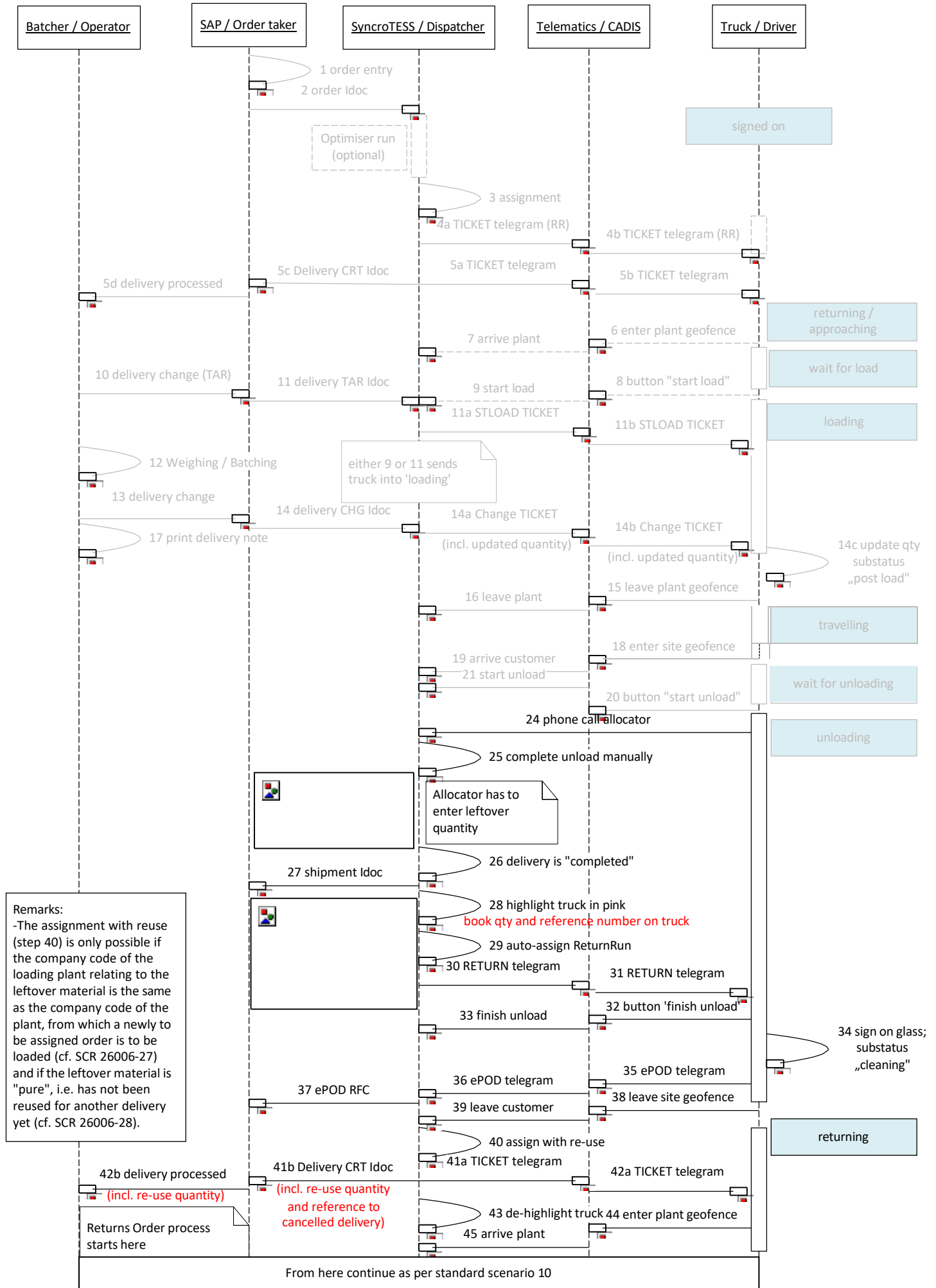


(500) Send to alternate plant (Ag, As, Co, Mo, Ce)

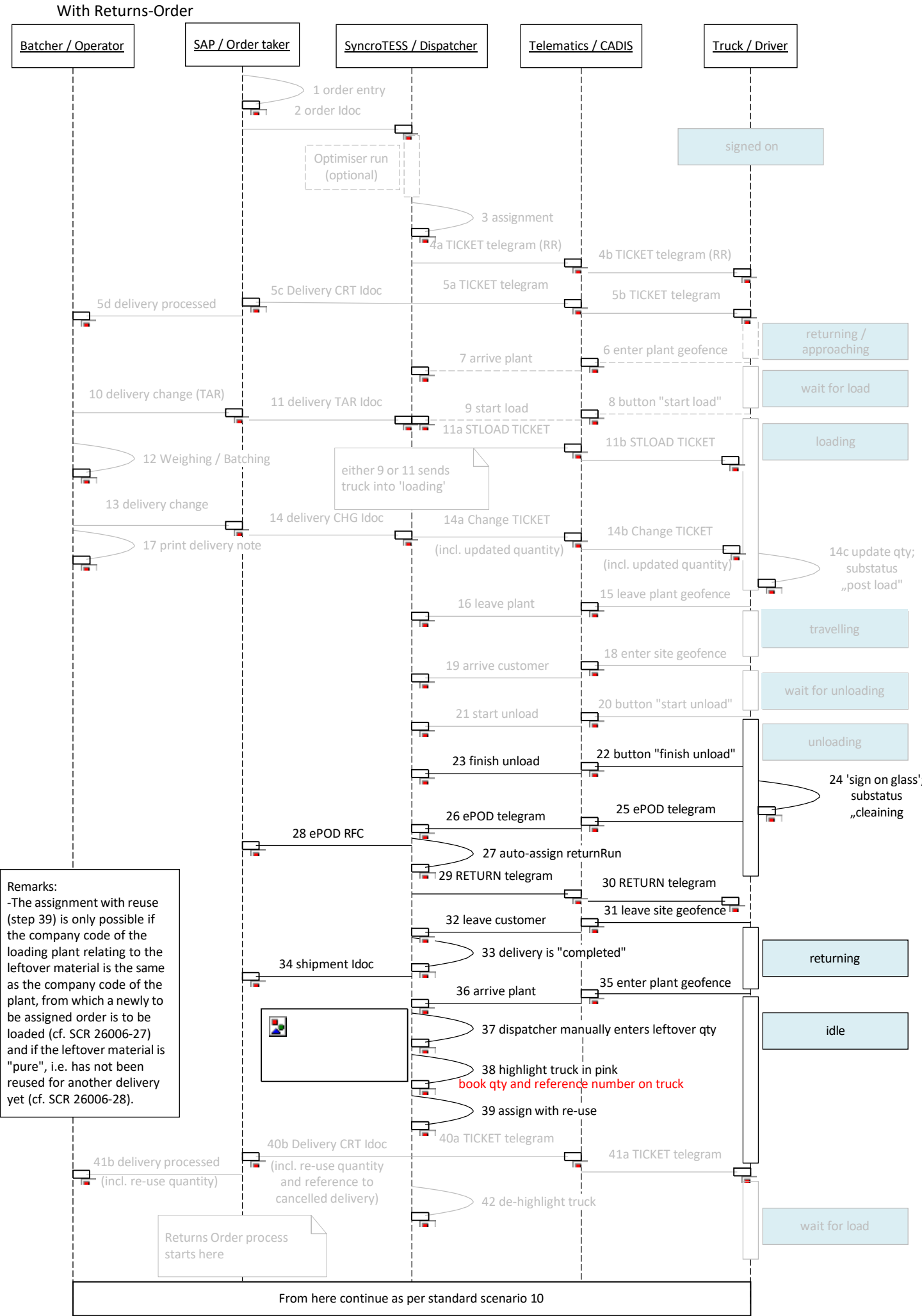


(511) Re-use material (Ag, As, Co, Mo, Ce)

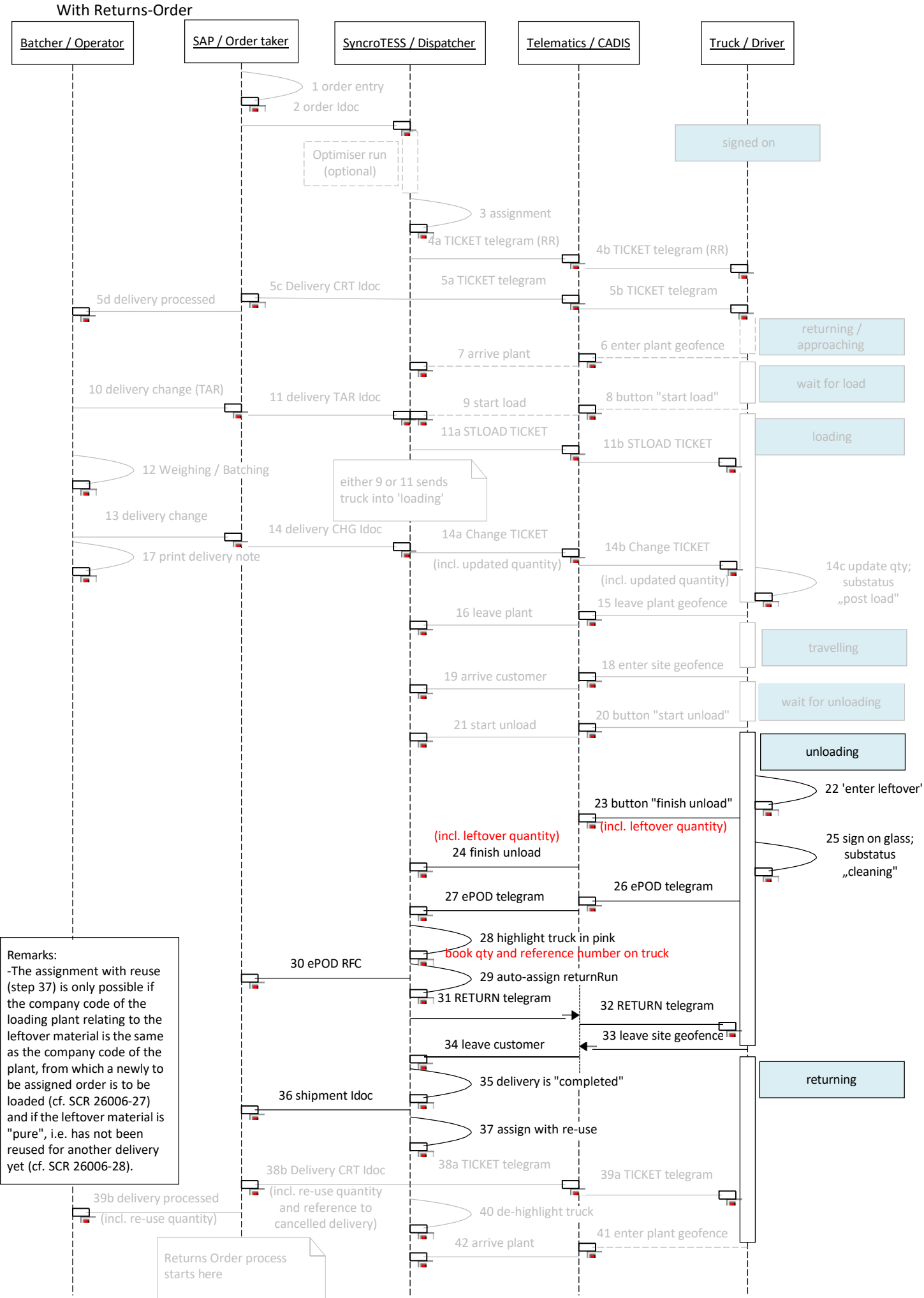
With Returns-Order



(512) Enter leftover material (Ag, As, Co, Mo, Ce)

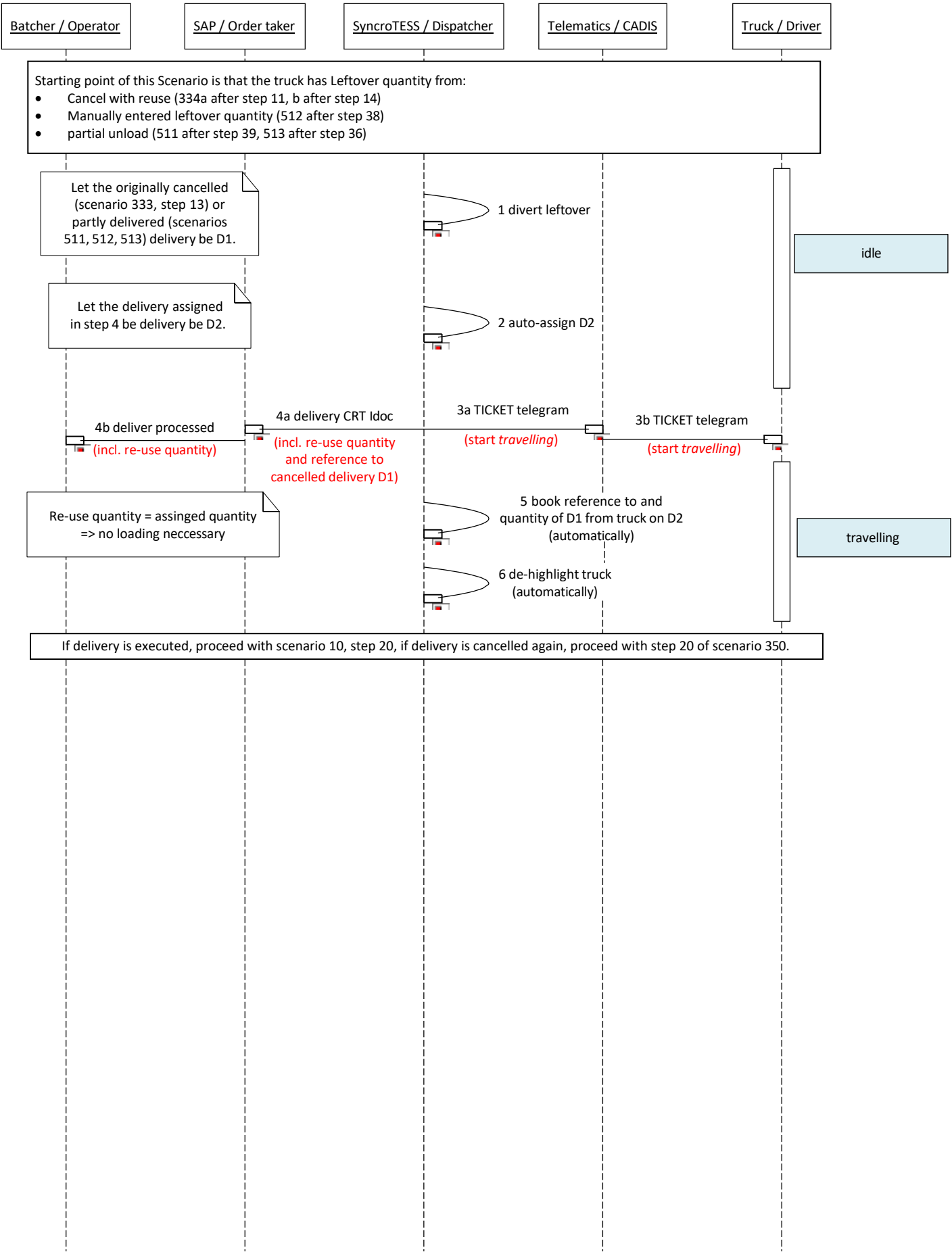


(513) Leftover material by message (Ag, As, Co, Mo, Ce)



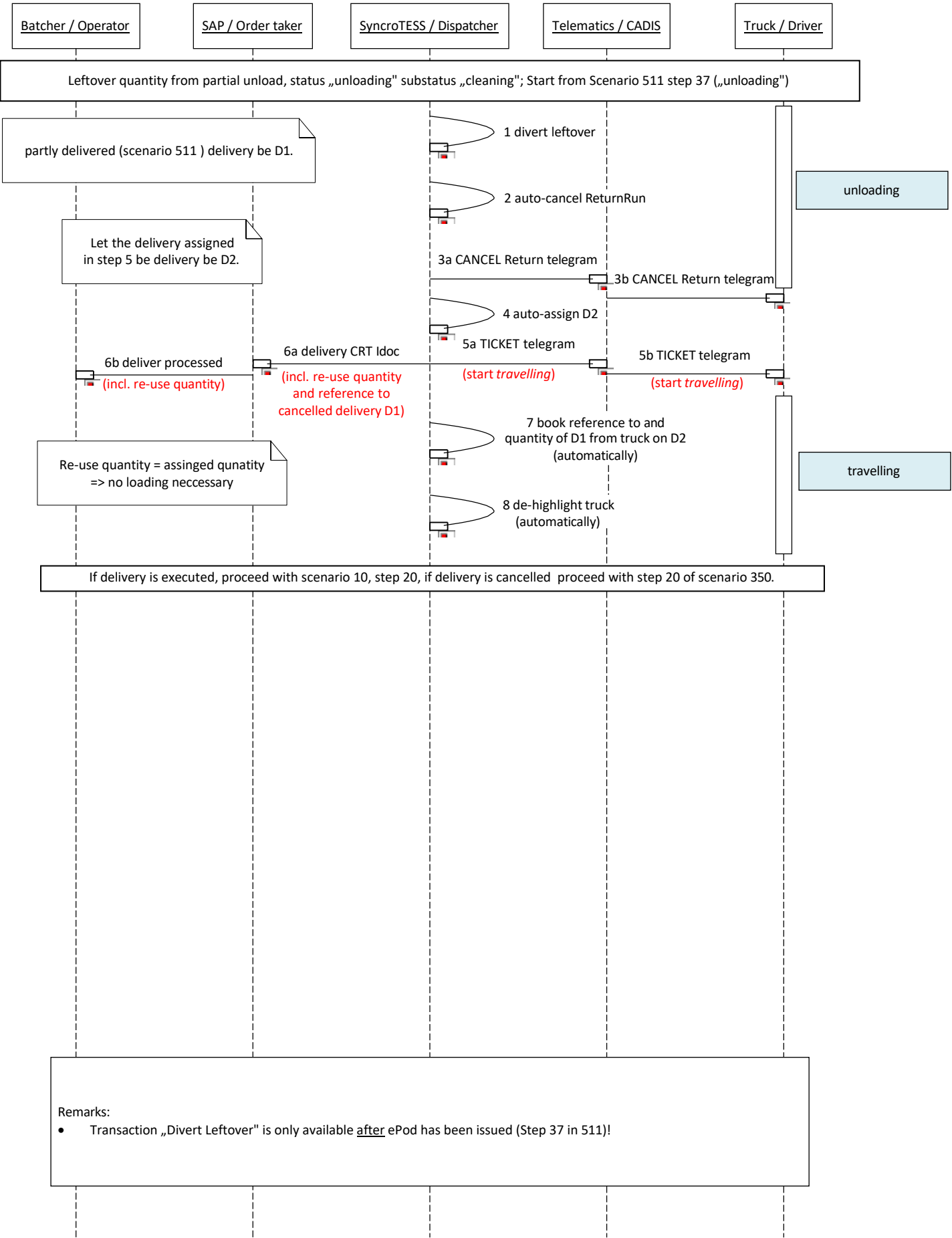
(514) Divert leftover (Ag, As, Co, Mo, Ce)

a) in status „idle"



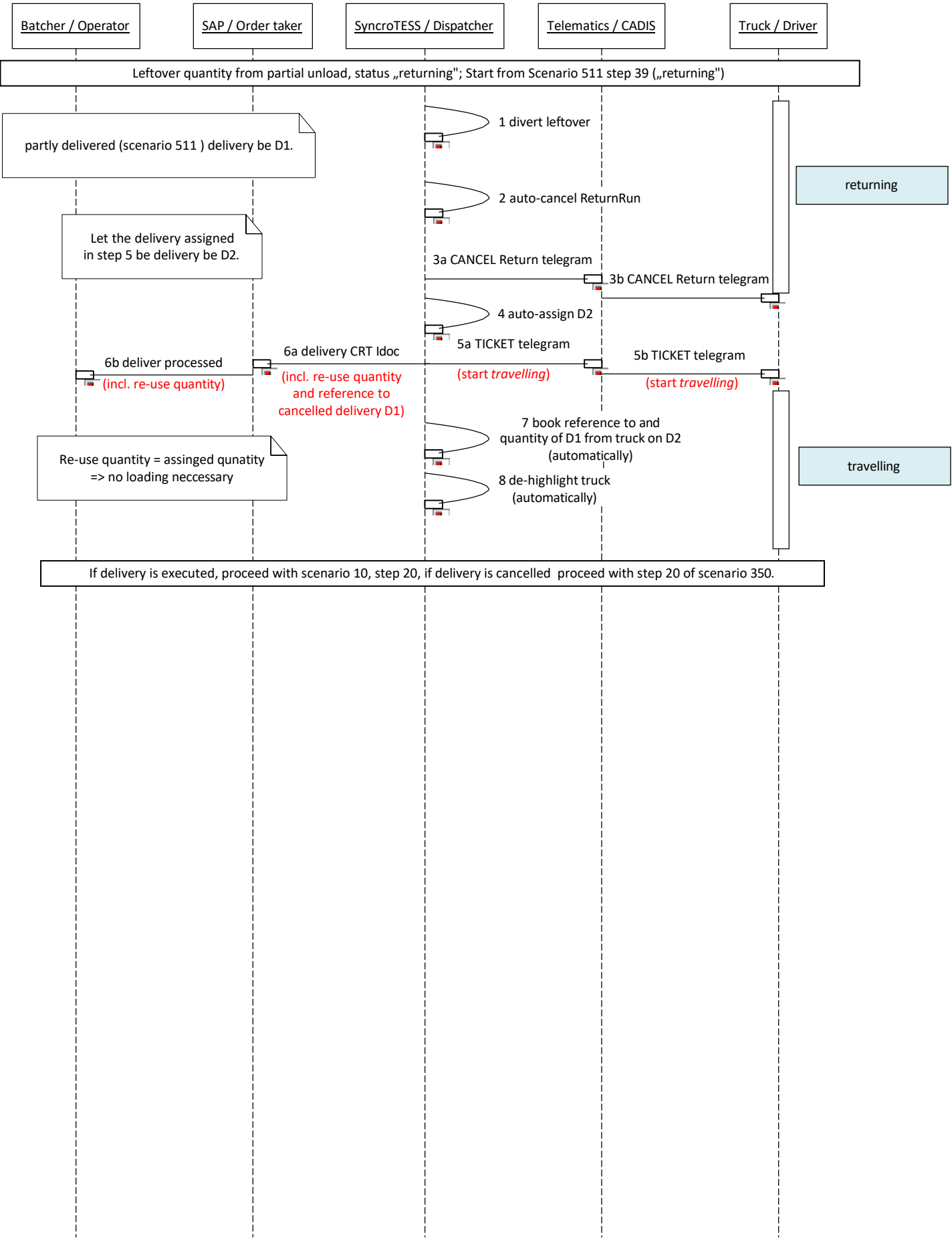
(514) Divert leftover (Ag, As, Co, Mo, Ce)

b) in status „unloading“, returnrun already assigned

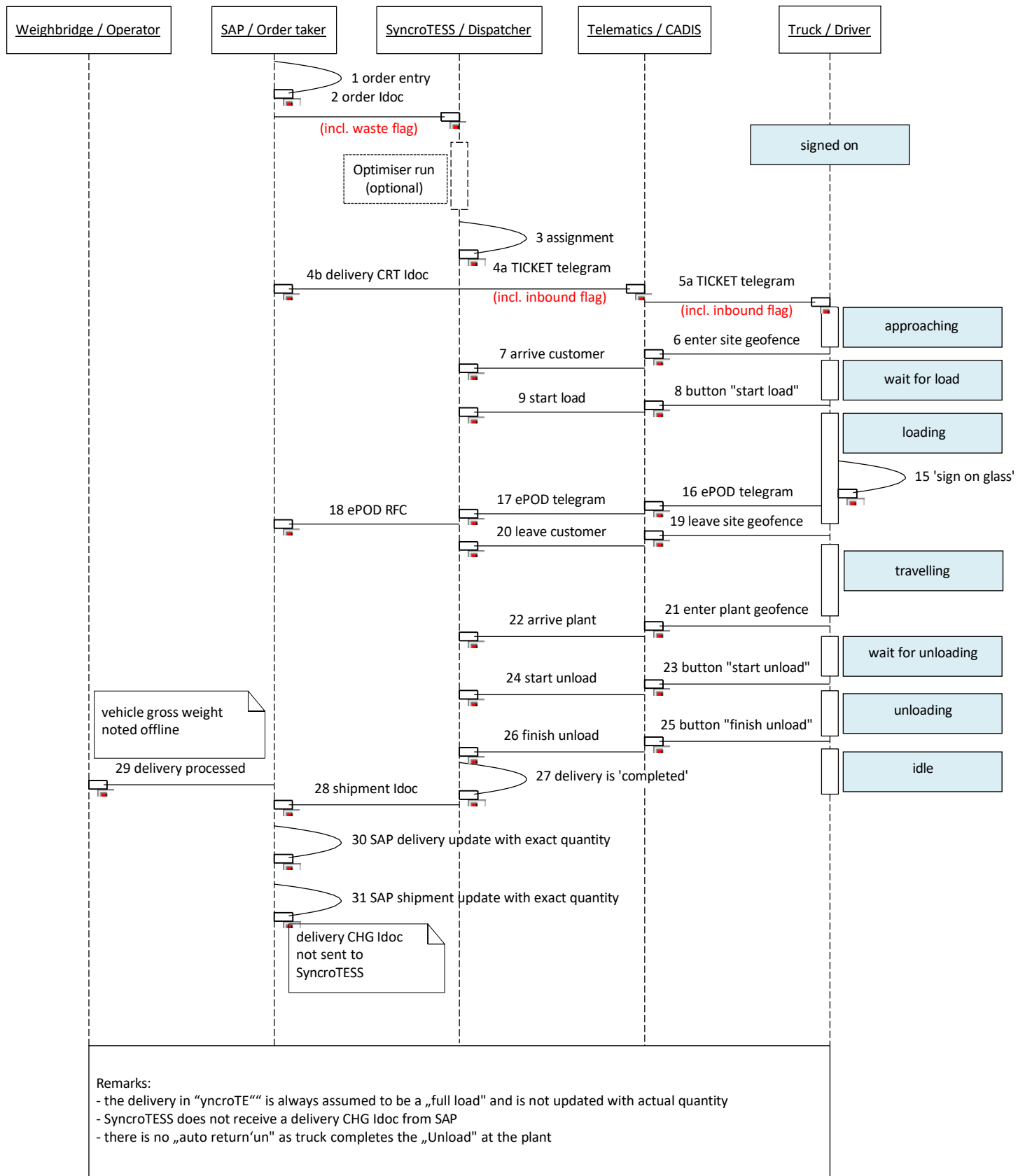


(514) Divert leftover (Ag, As, Co, Mo, Ce)

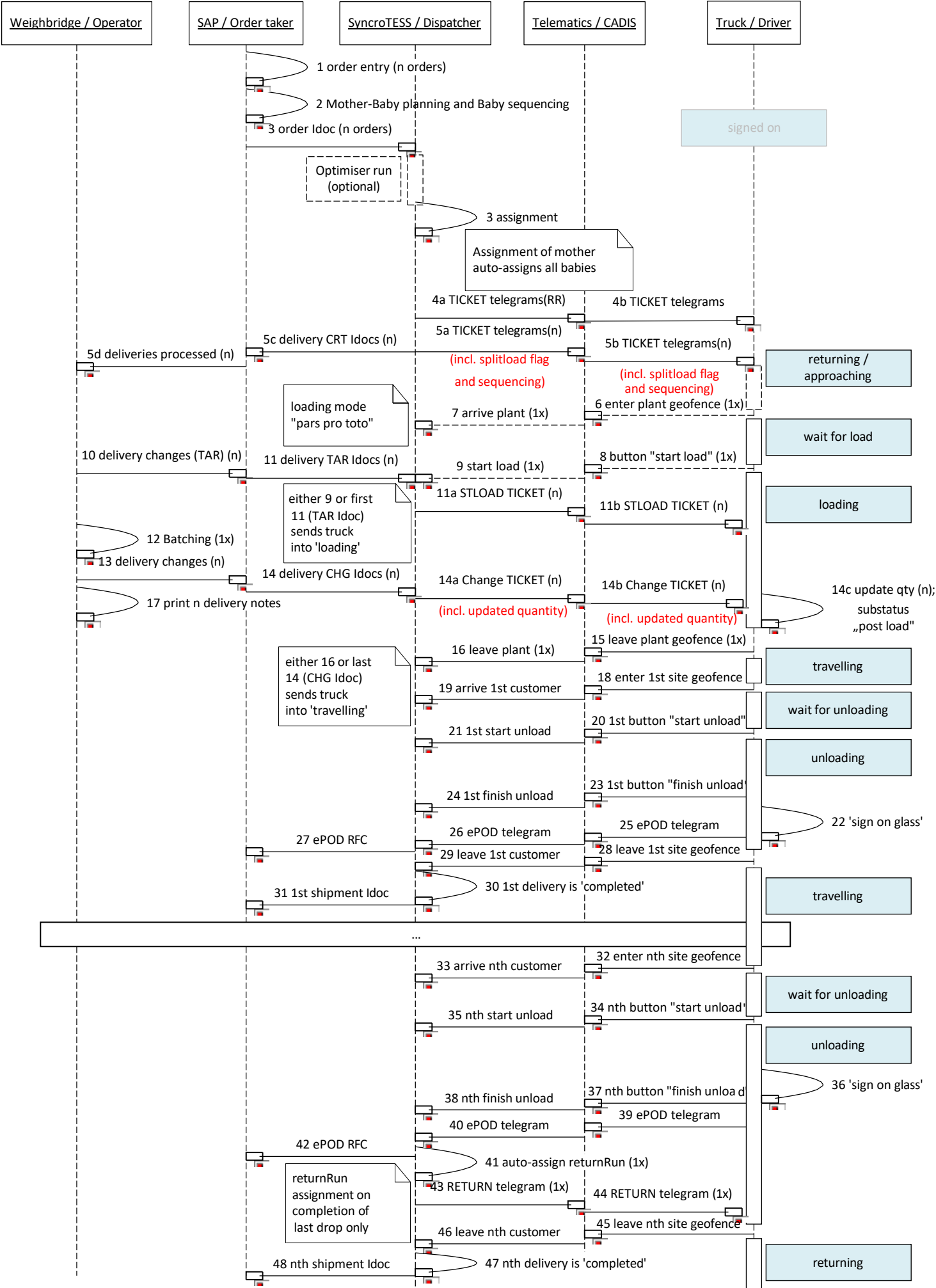
c) in status „returning“



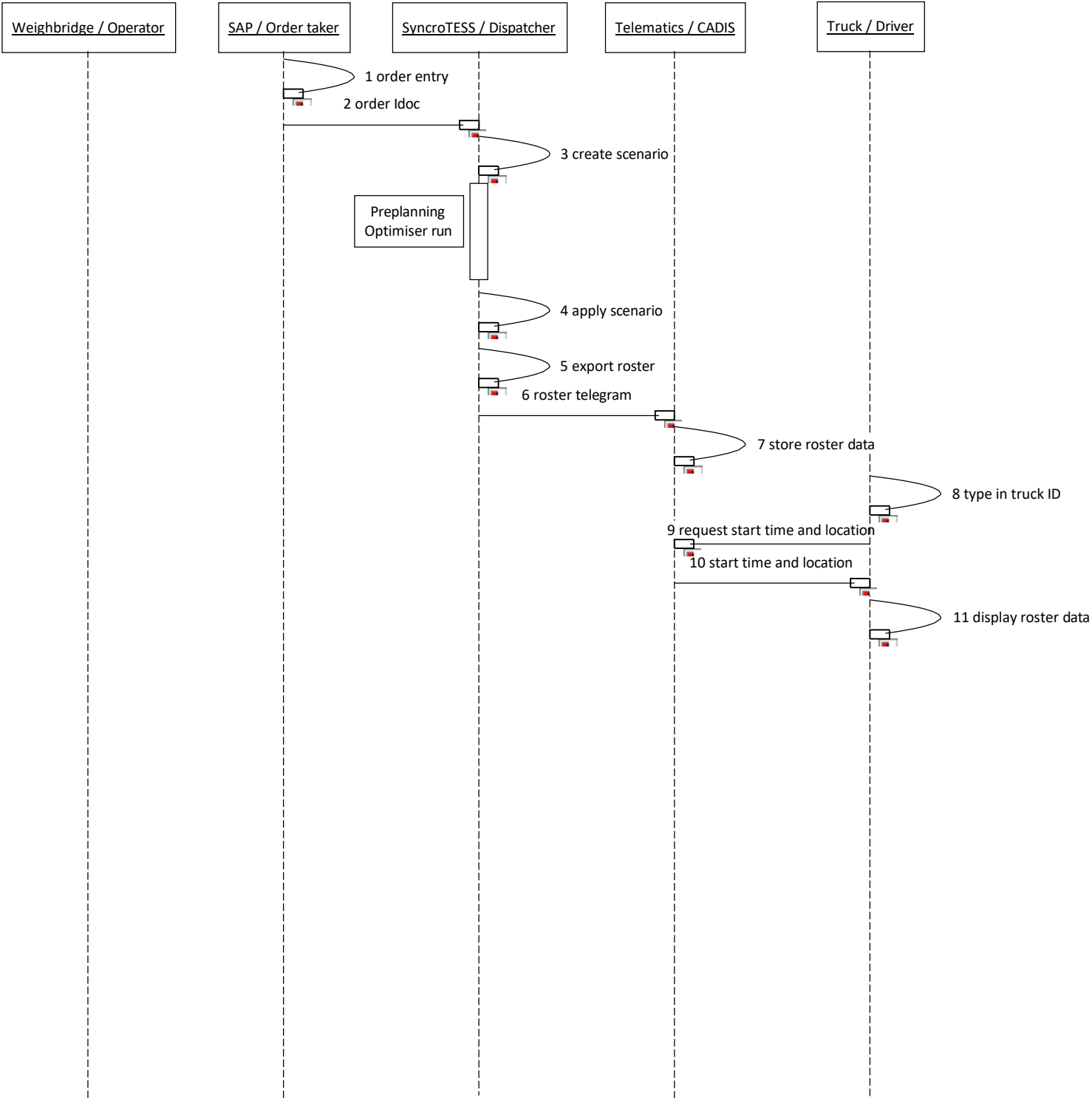
(520) Inbound delivery with HeidelbergCement haulage (Ag, As, Ce)



(530) Mortar multi-drop (Mo)

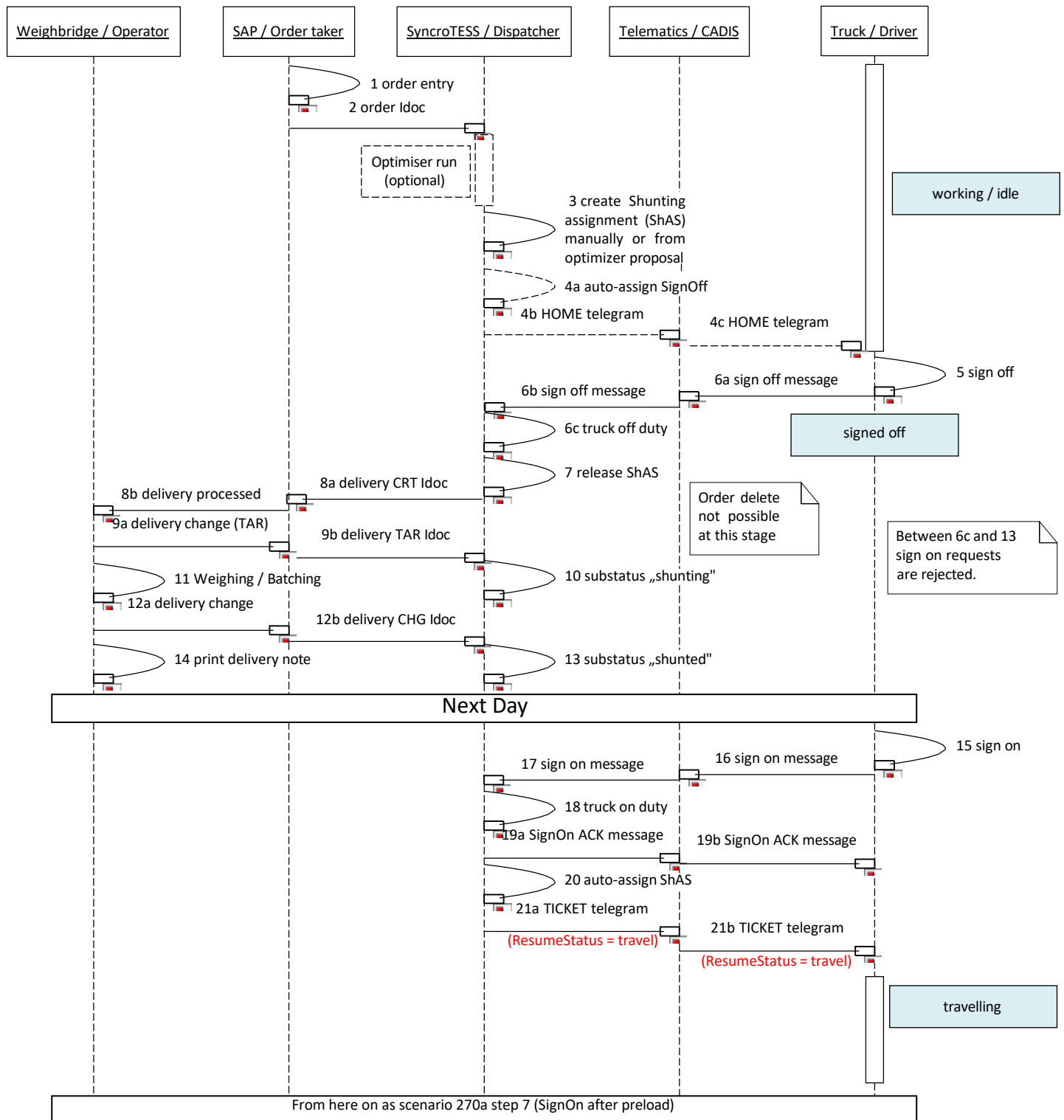


(540) Start time communication (Ag, As, Co, Mo, Ce)



(550) Truck shunting (Ag, Ce)

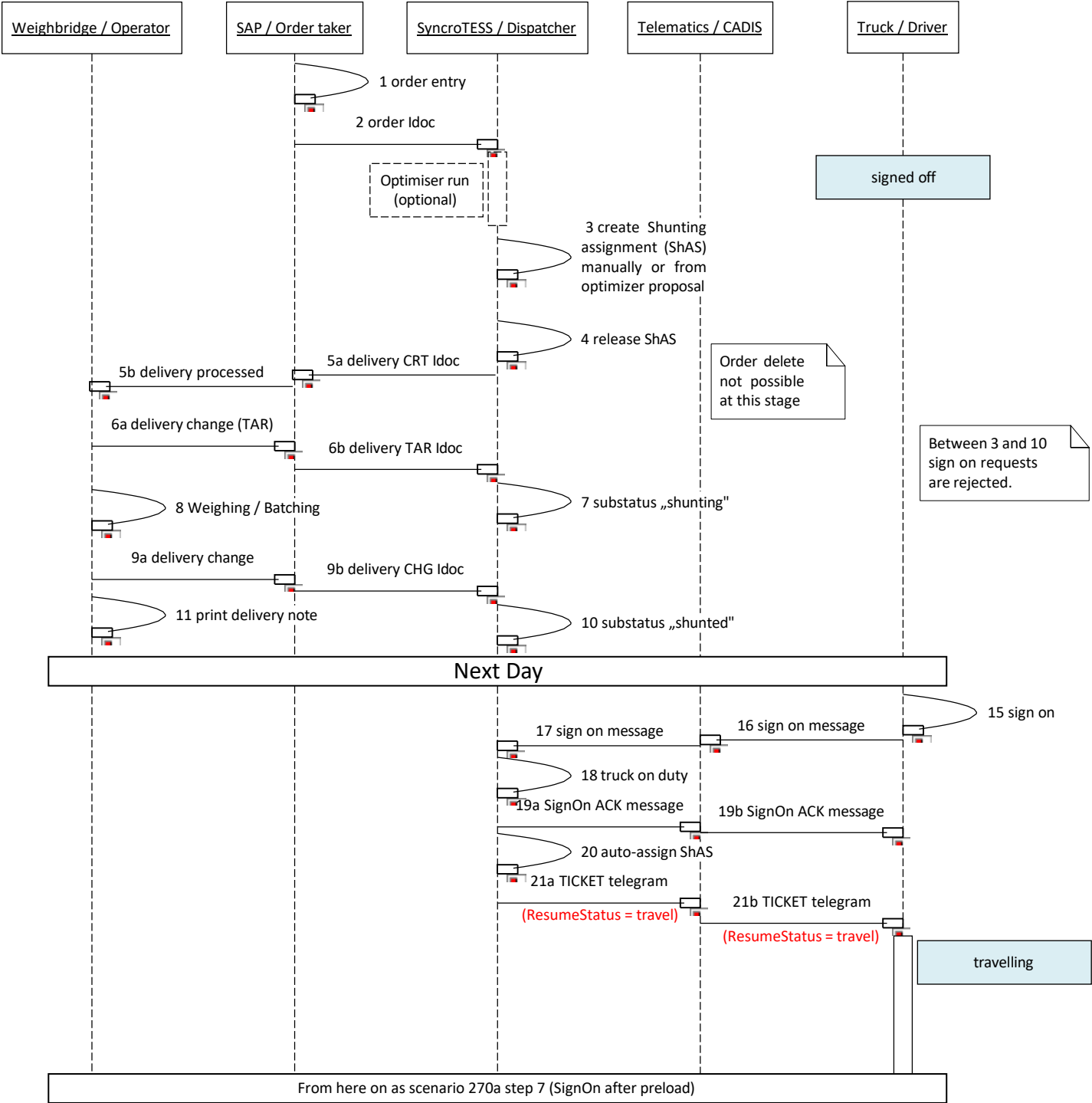
(a) truck still signed on



Remarks:

- When creating the ShAS (step 3), the SignOff for the current shift is automatically assigned (steps 4a, b, c), if not already done
- Shunting proposals can only be accepted/created and a ShAS can only be released, if the corresponding order is not locked.
- Step 5 (SignOff) may also happen after step 7 but before steps 9a/9b

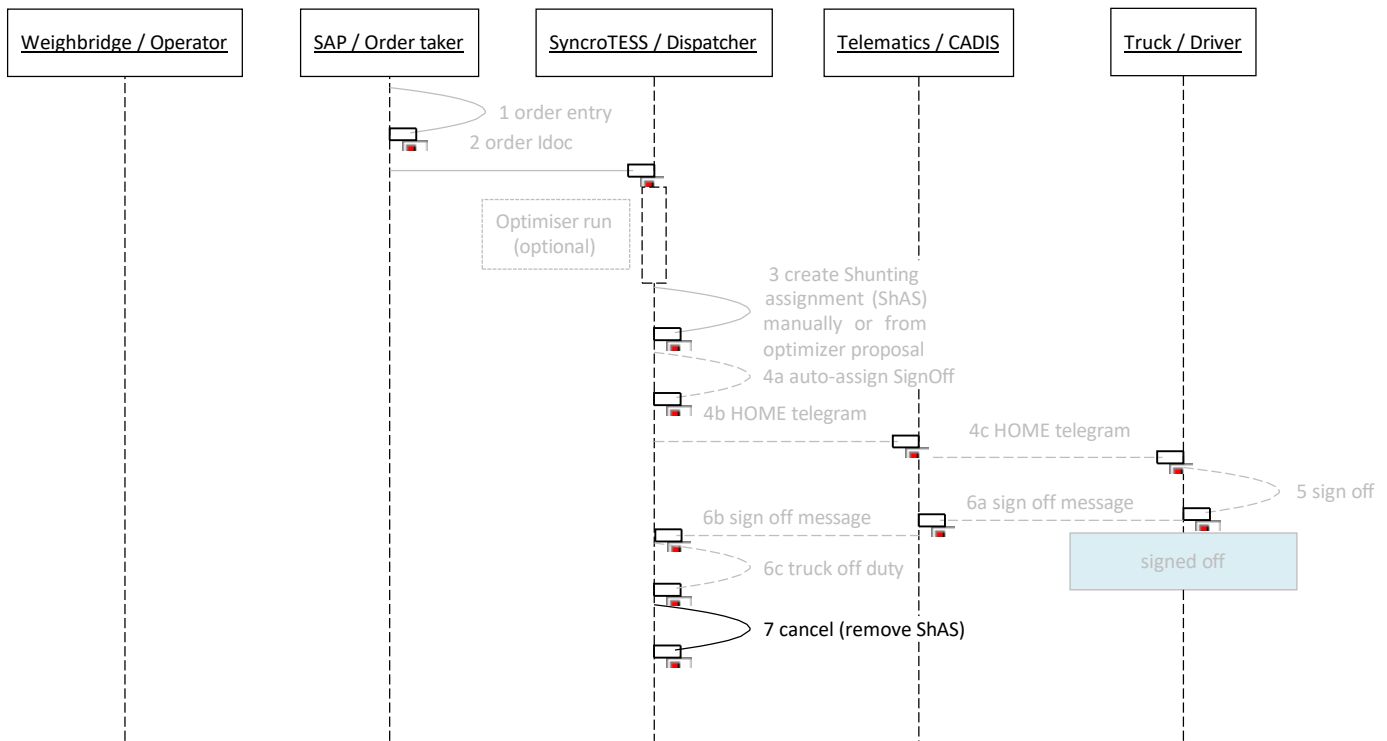
(550) Truck shunting (Ag, Ce)
(b) truck already signed off



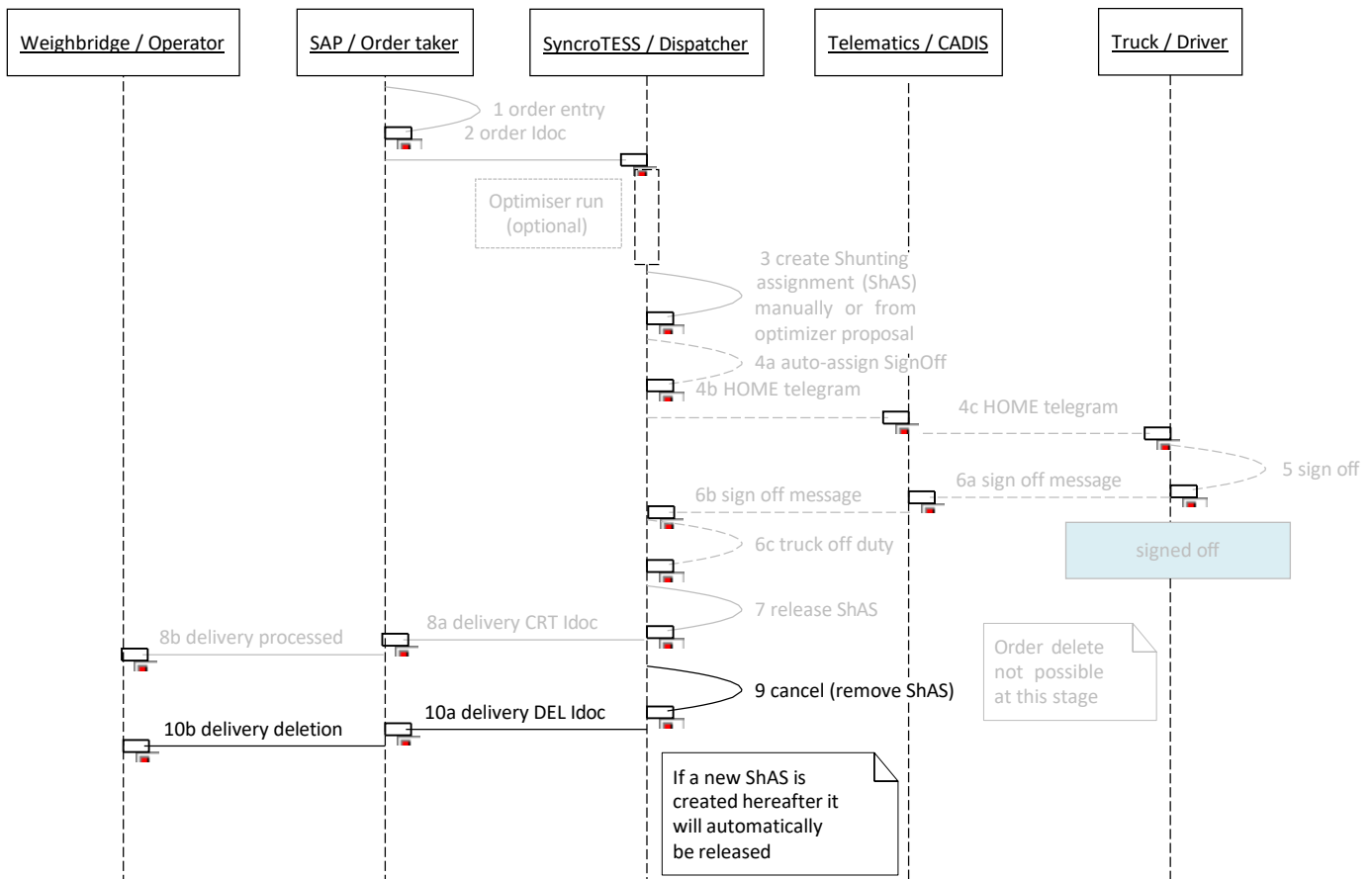
Remarks:
- Shunting proposals can only be accepted/created and a ShAS can only be released, if the corresponding order is not locked.

(555) Cancel truck shunting (Ag, Ce)

(a) before release



(b) after release, before loading

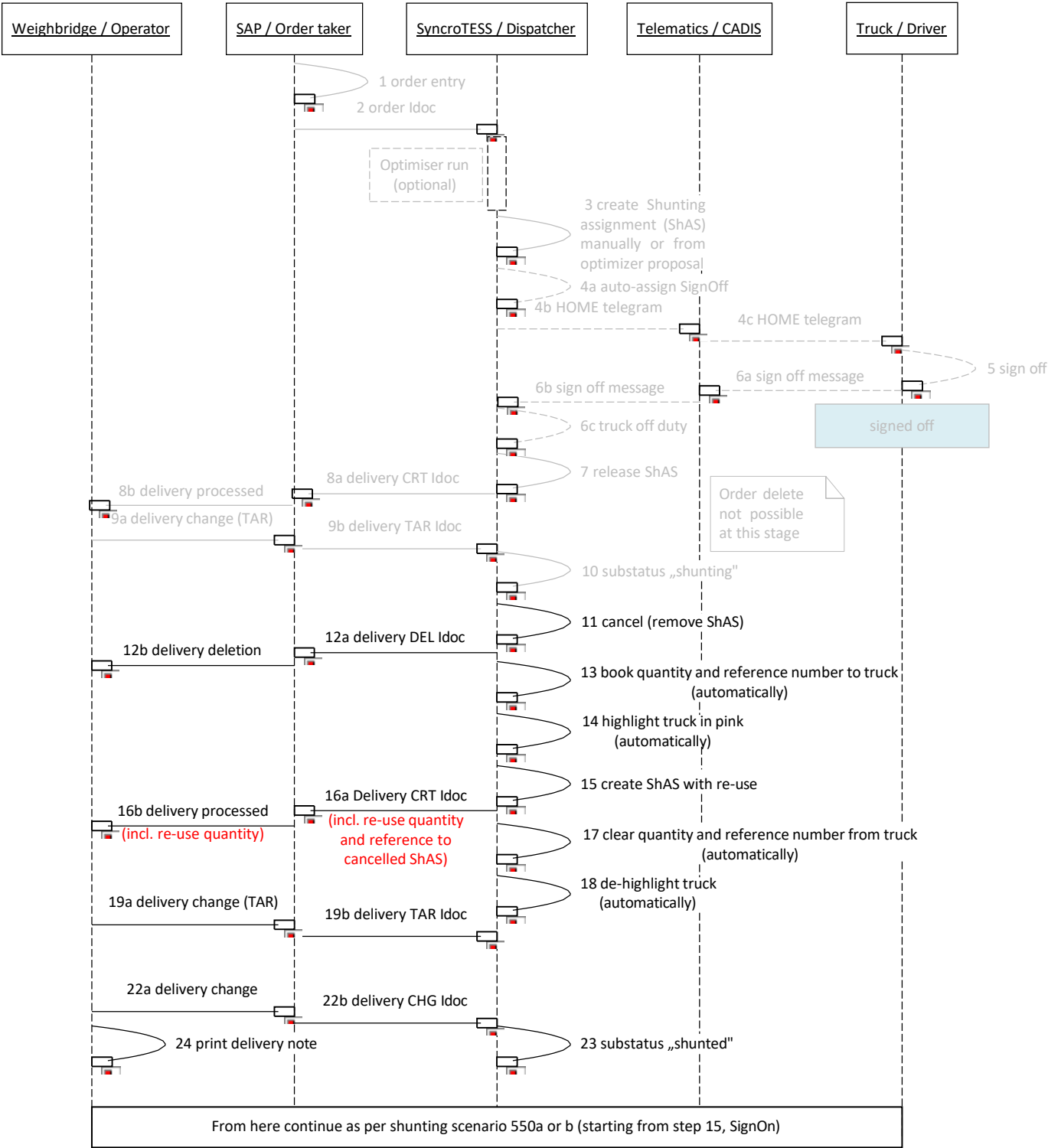


Remarks:

- When creating the ShAS (step 3), the SignOff for the current shift is automatically assigned (steps 4a, b, c), if not already done
- Shunting proposals can only be accepted/created and a ShAS can only be released, if the corresponding order is not locked.

(555) Reuse cancelled truck shunting (Ag, Ce)

(c) cancel while loading

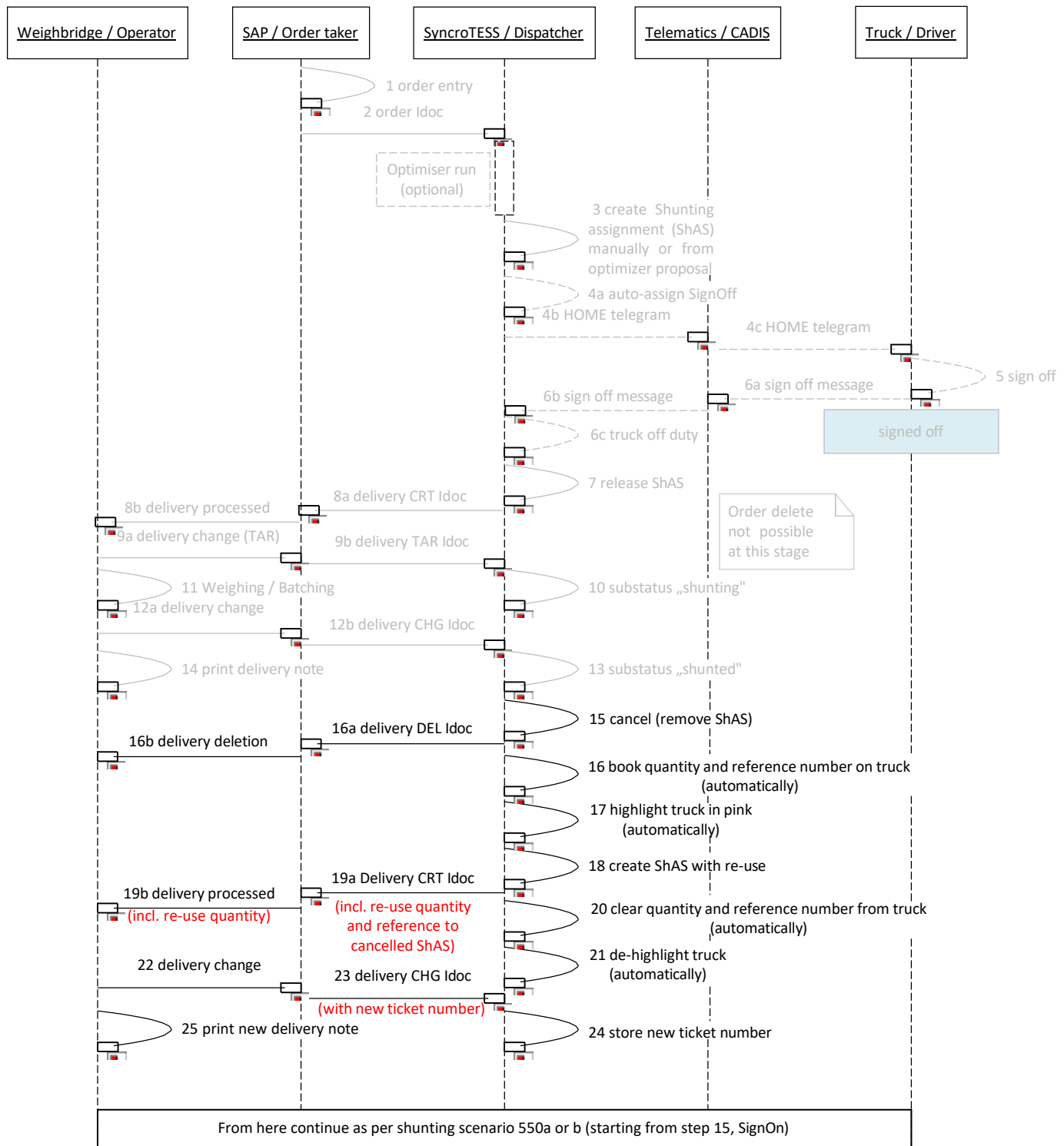


Remarks:

-The assignment with reuse (step 15) is only possible if the company code of the loading plant relating to the leftover material is the same as the company code of the plant, from which a newly to be assigned order is to be loaded (cf. SCR 26006-27) and if the leftover material is "pure", i.e. has not been reused for another delivery yet (cf. SCR 26006-28).

(555) Reuse cancelled truck shunting (Ag, Ce)

(d) cancel after complete loading

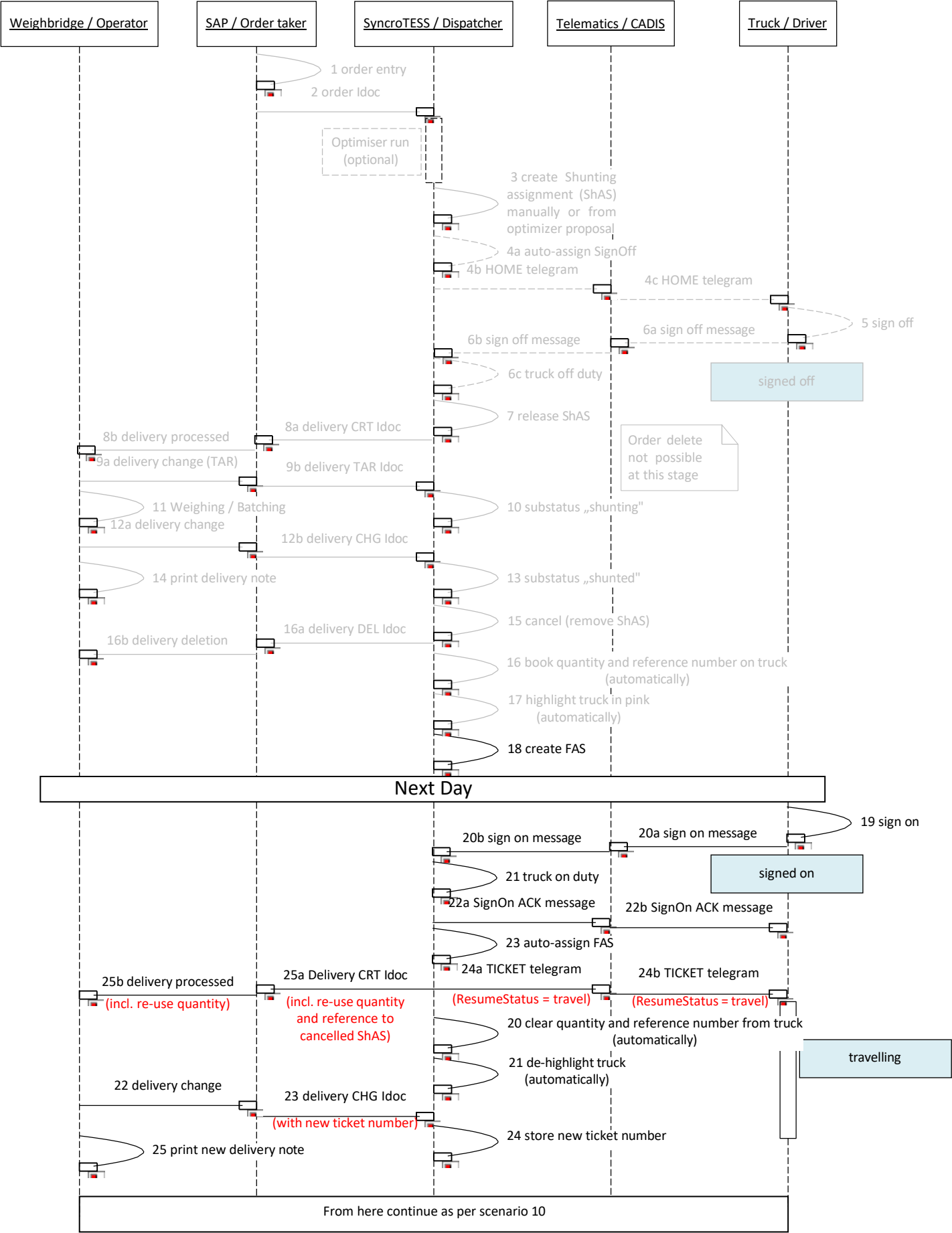


Remarks:

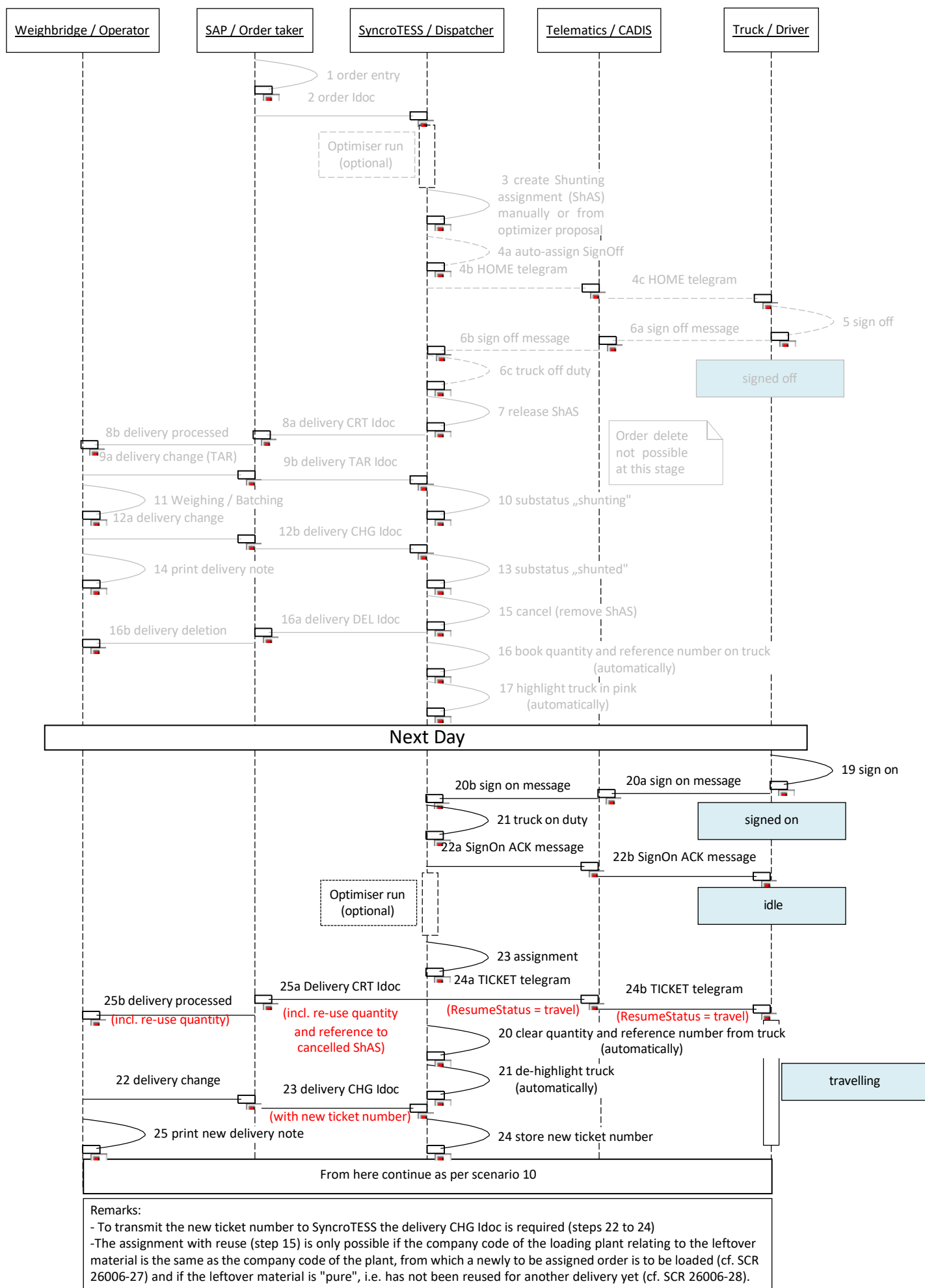
- To transmit the new ticket number to SyncroTESS the delivery CHG Idoc is required (steps 22 to 24)
- The assignment with reuse (step 18) is only possible if the company code of the loading plant relating to the leftover material is the same as the company code of the plant, from which a newly to be assigned order is to be loaded (cf. SCR 26006-27) and if the leftover material is "pure", i.e. has not been reused for another delivery yet (cf. SCR 26006-28).

(555) Reuse cancelled truck shunting (Ag, Ce)

(e) cancel after loading and immediate reuse with FAS

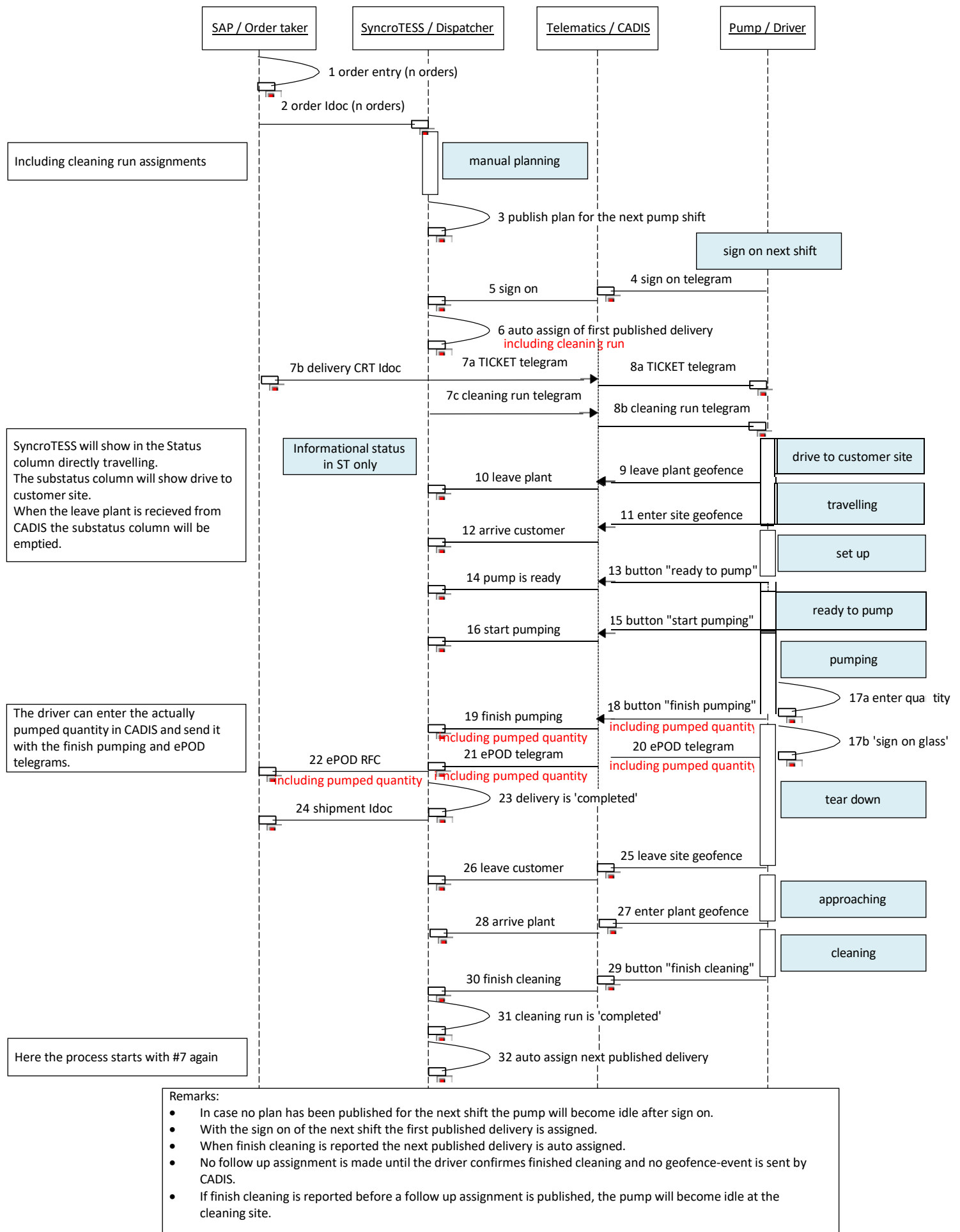


(556) Reuse cancelled truck shunting on the next day (Ag, Ce)



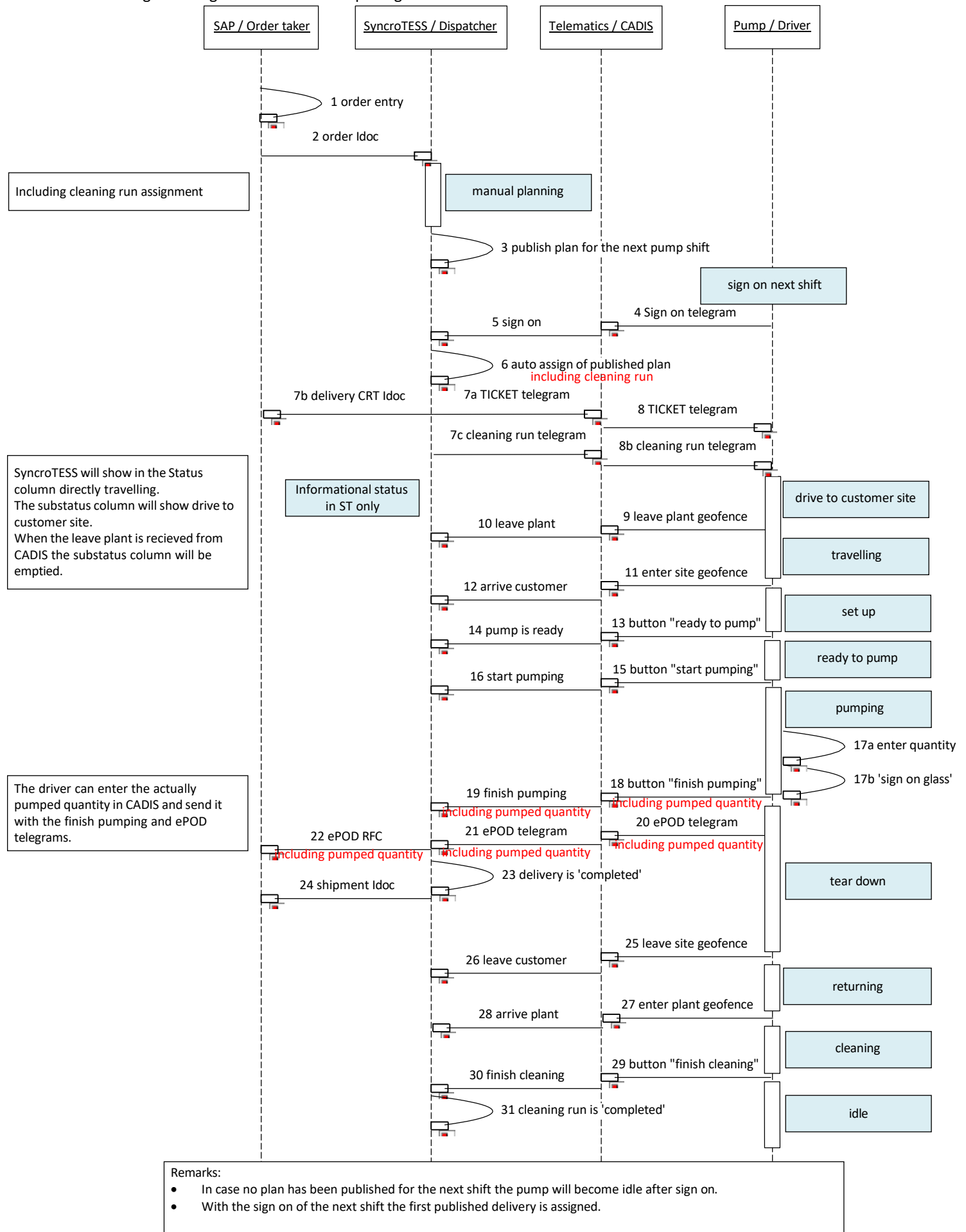
(P10) Standard pump scenario with Telematics

Pump parked at a plant / cleaning site / parking and returning to a plant / cleaning site / parking
with cleaning run assigned and follow up assignment



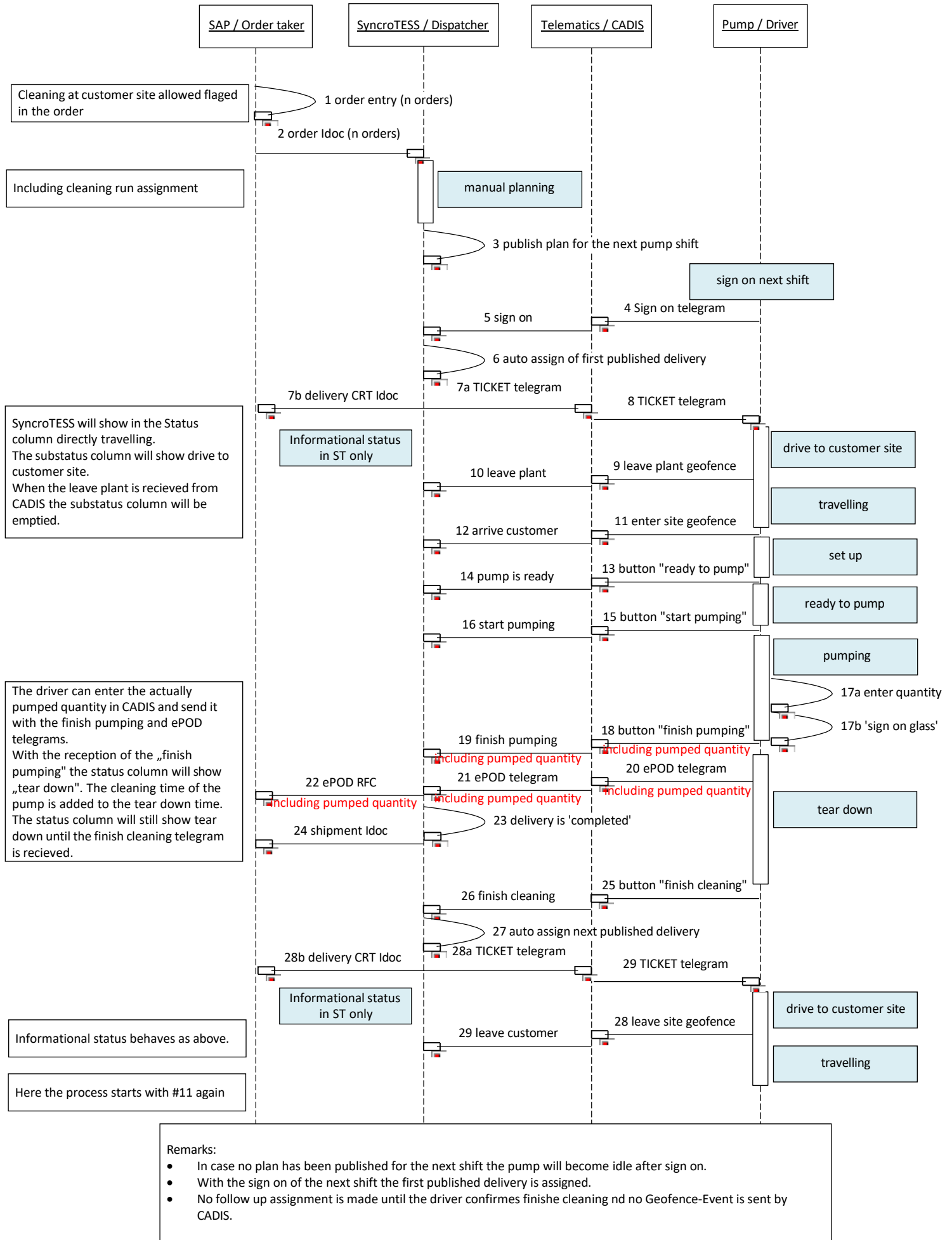
(P11) Standard pump scenario with Telematics

Pump parked at a plant / cleaning site / parking and returning to a plant / cleaning site / parking
with cleaning run assigned but no follow up assignment



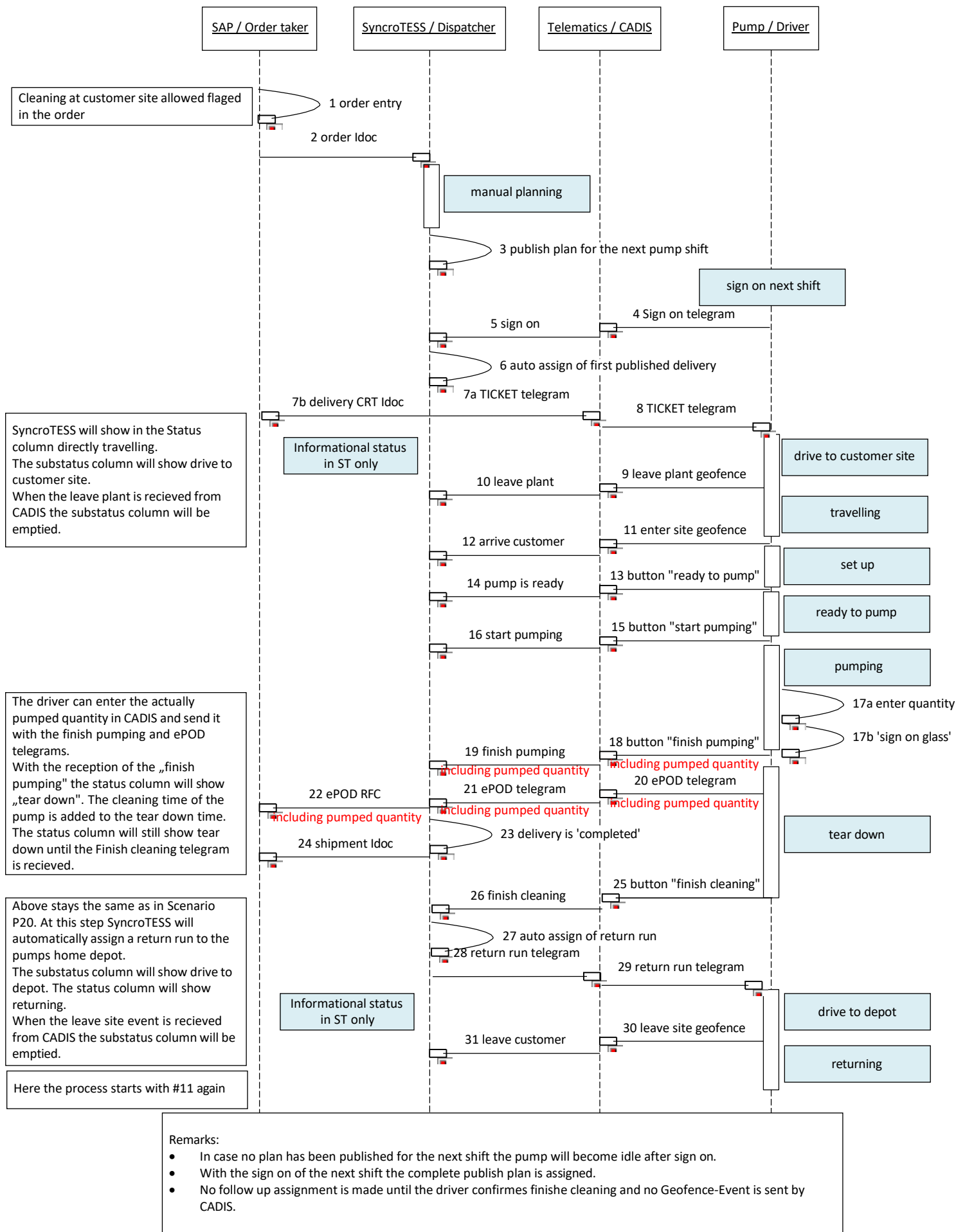
(P111) Standard pump scenario with

Pump parked at a plant / cleaning site / parking and cleaning at customer site allowed and follow up assignment



(P112) Standard pump scenario with

Pump parked at a plant / cleaning site / parking and cleaning at customer site allowed and no follow up assignment



(P113) Cancel before ready to pump

Cancel while pump is travelling to customer site but has not left the plant yet (no leave plant geofence event has been received by CADIS) and has a published follow up assignment

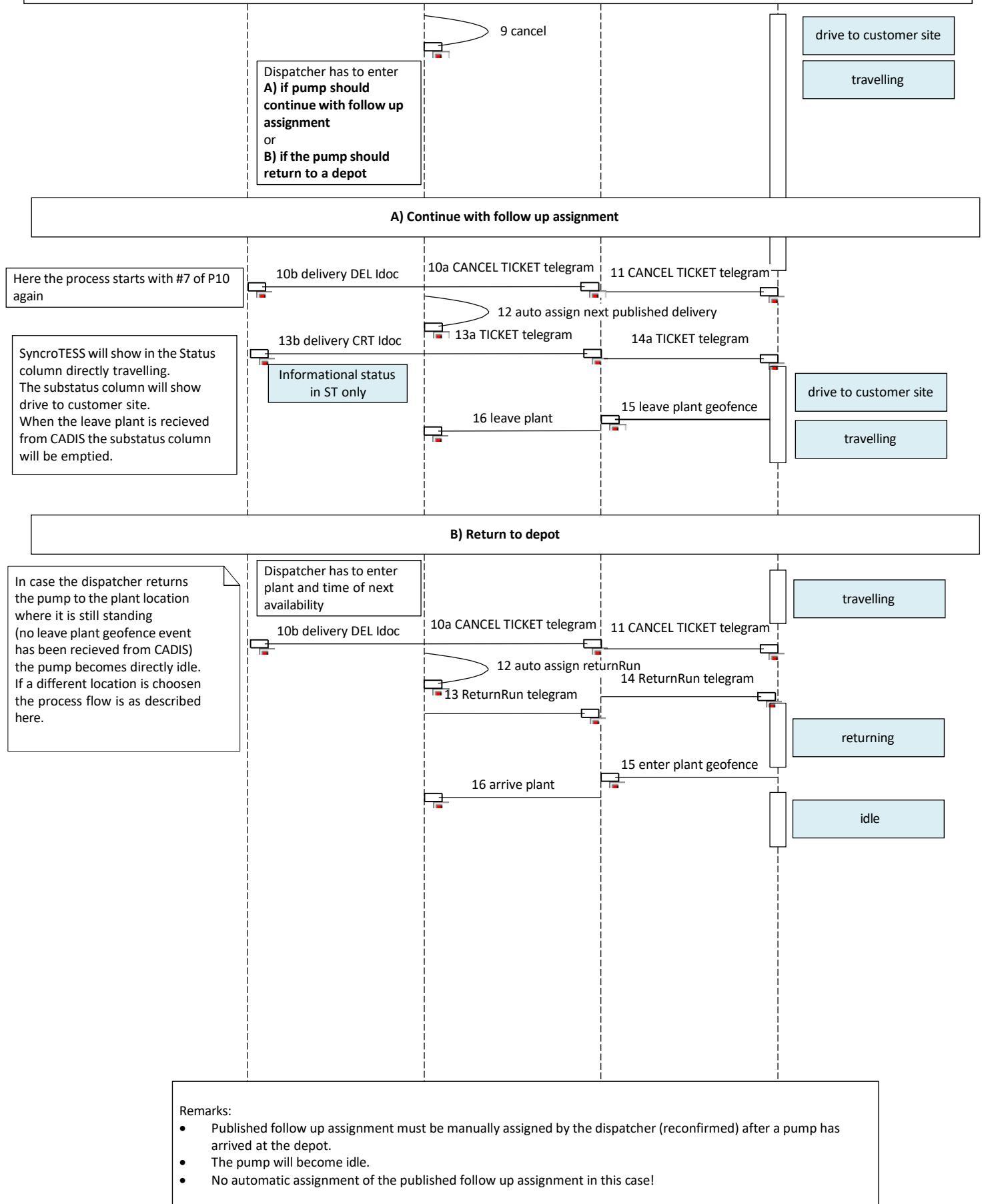
SAP / Order taker

SyncroTESS / Dispatcher

Telematics / CADIS

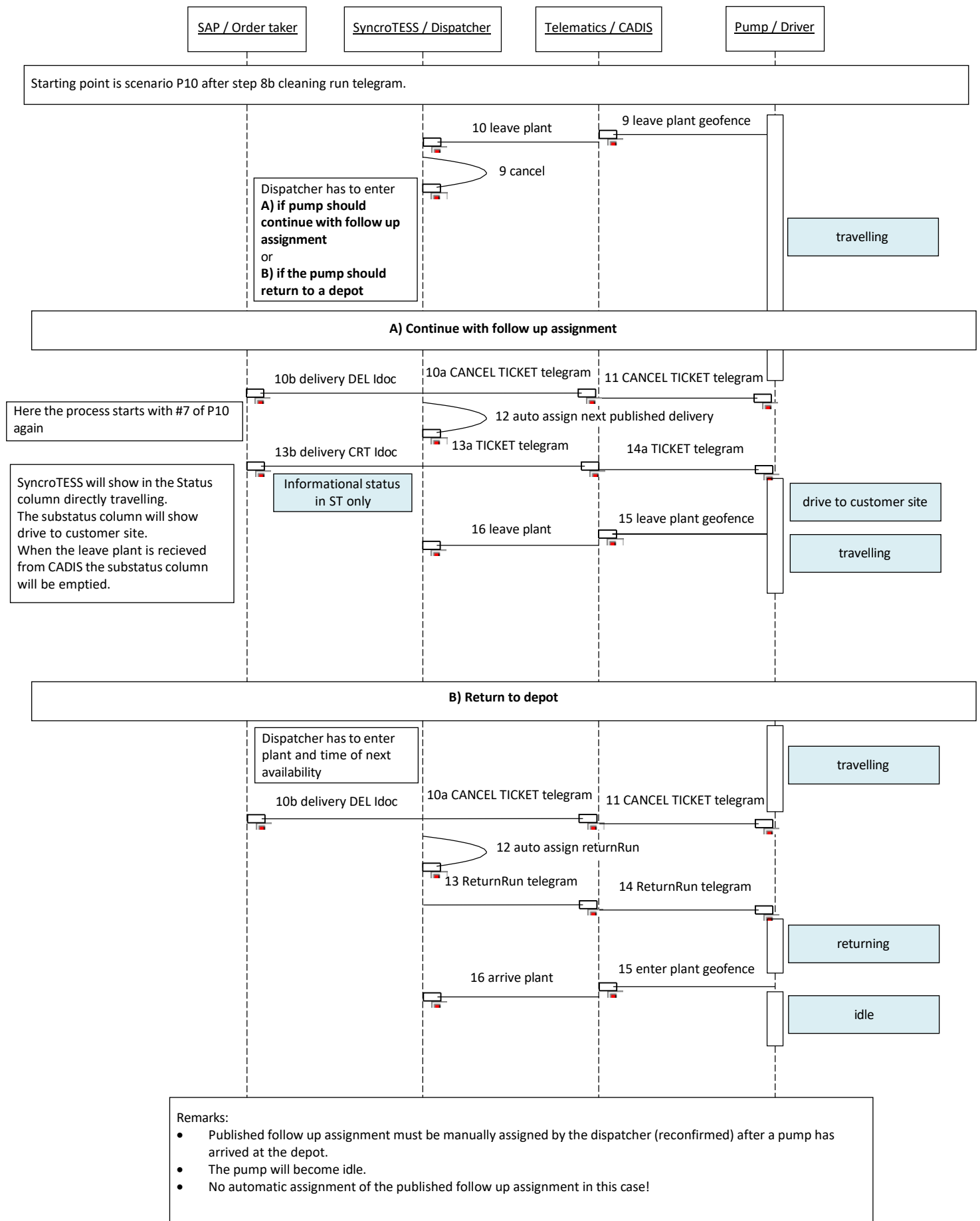
Pump / Driver

Starting point is scenario P10 after step 8b cleaning run telegram.



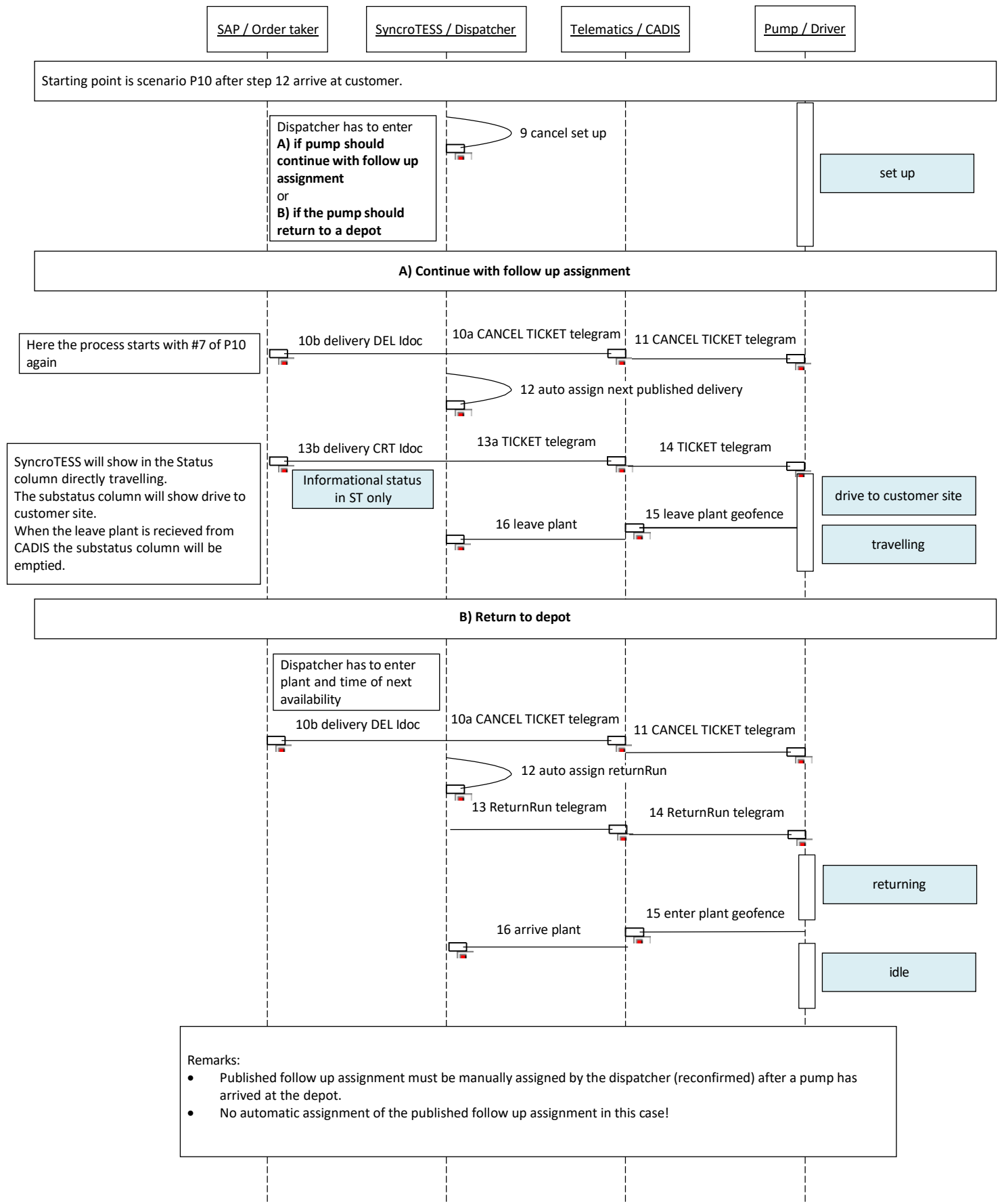
(P114) Cancel before ready to pump

Cancel while pump is travelling to customer site and has a published follow up assignment



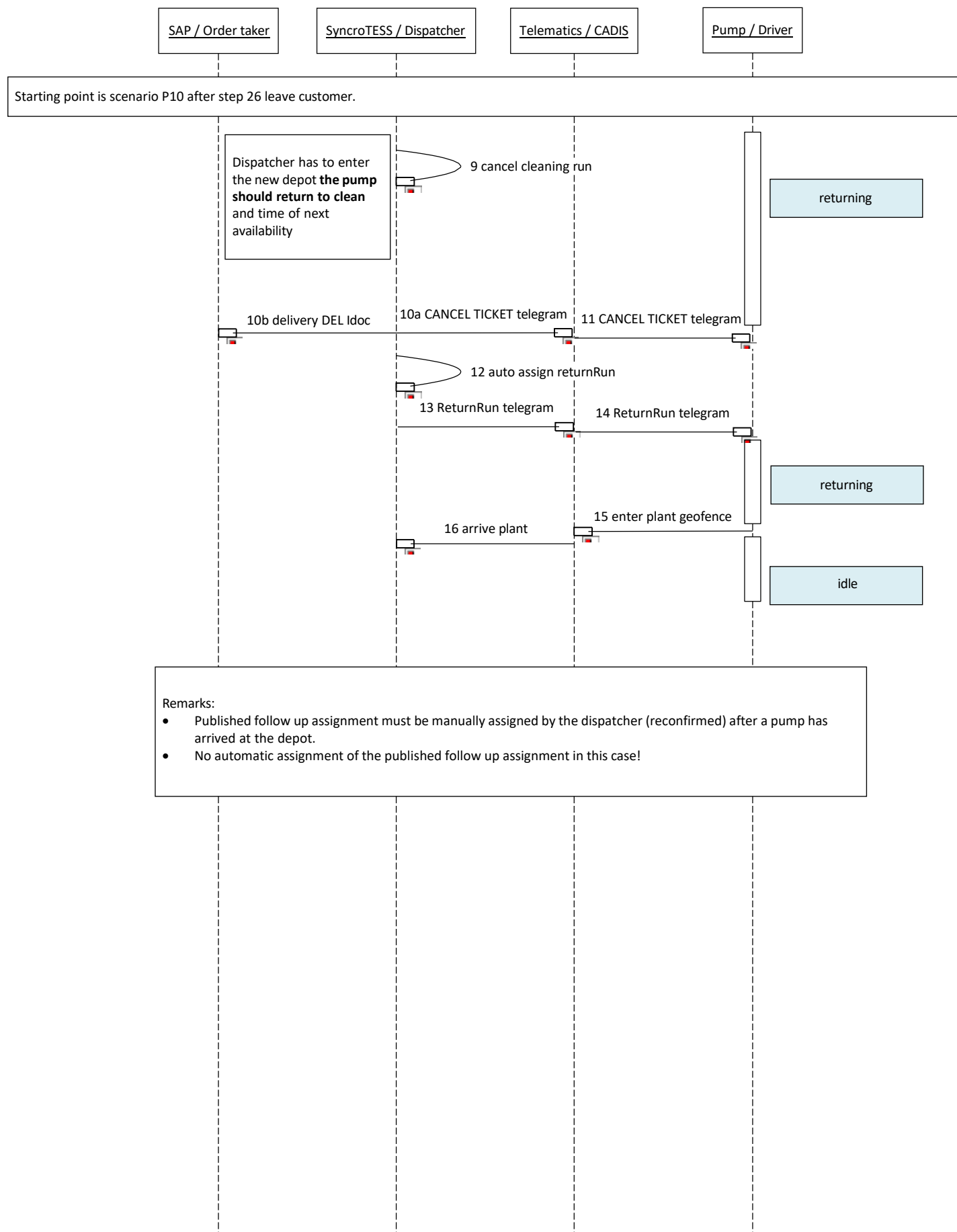
(P115) Cancel before ready to pump

Cancel while pump is doing set up on customer site and has a published follow up assignment



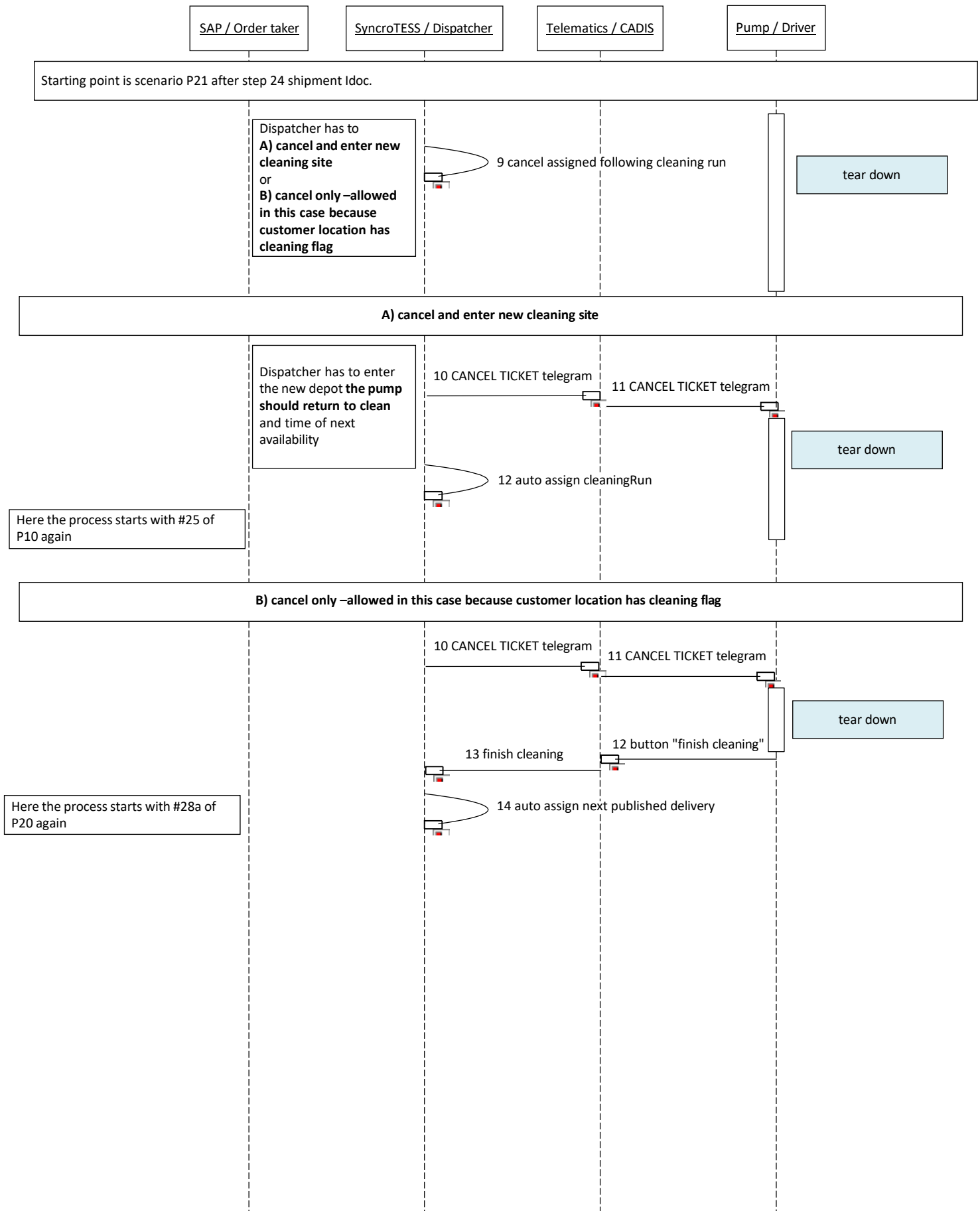
(P33) Cancel while returning

Cancel while pump is at the ReturnRun



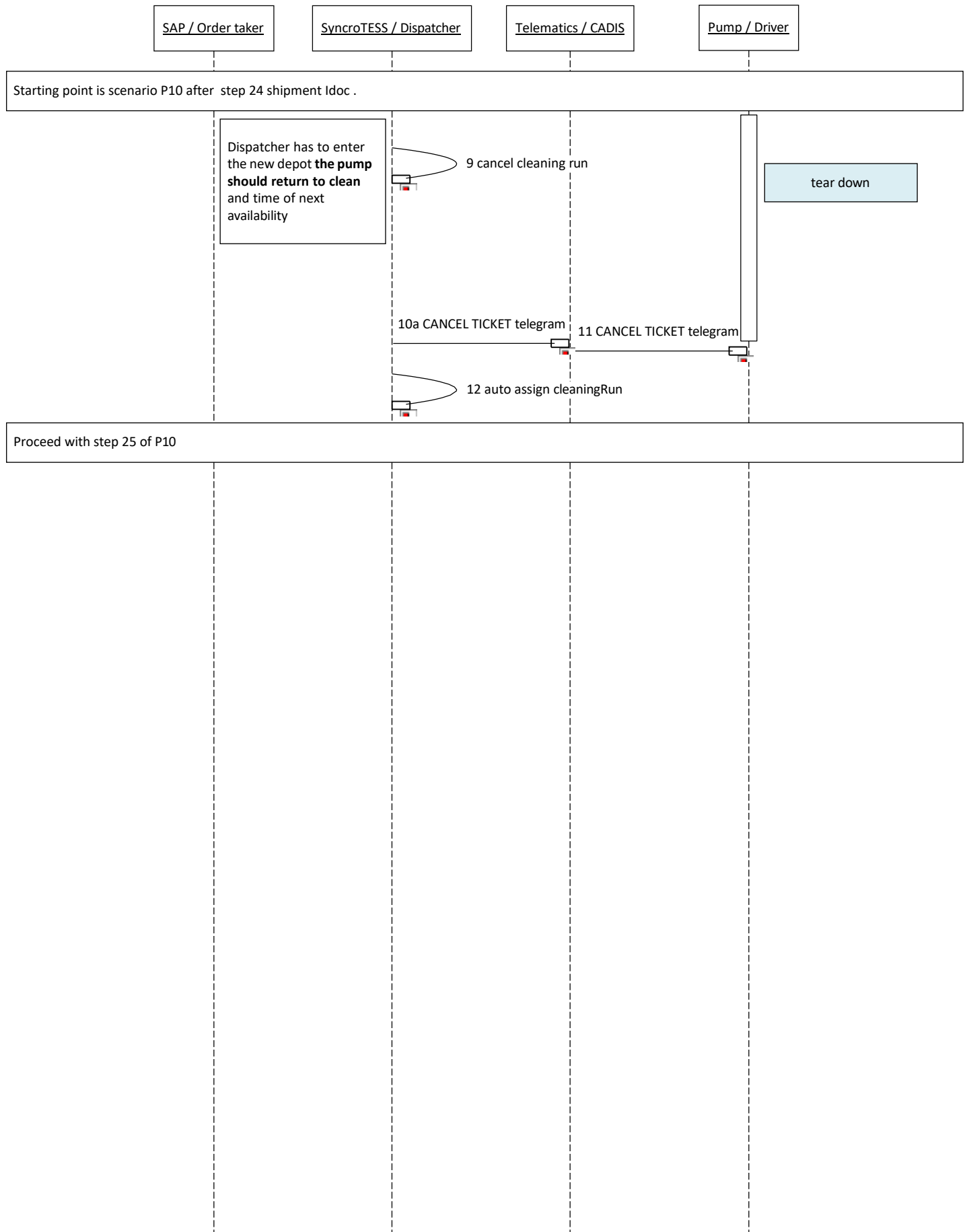
(P117) Cancel cleaning run

Cancel while pump is at the status tear down, cleaning did not start yet and customer location has cleaning flag; pump has a follow up assignment



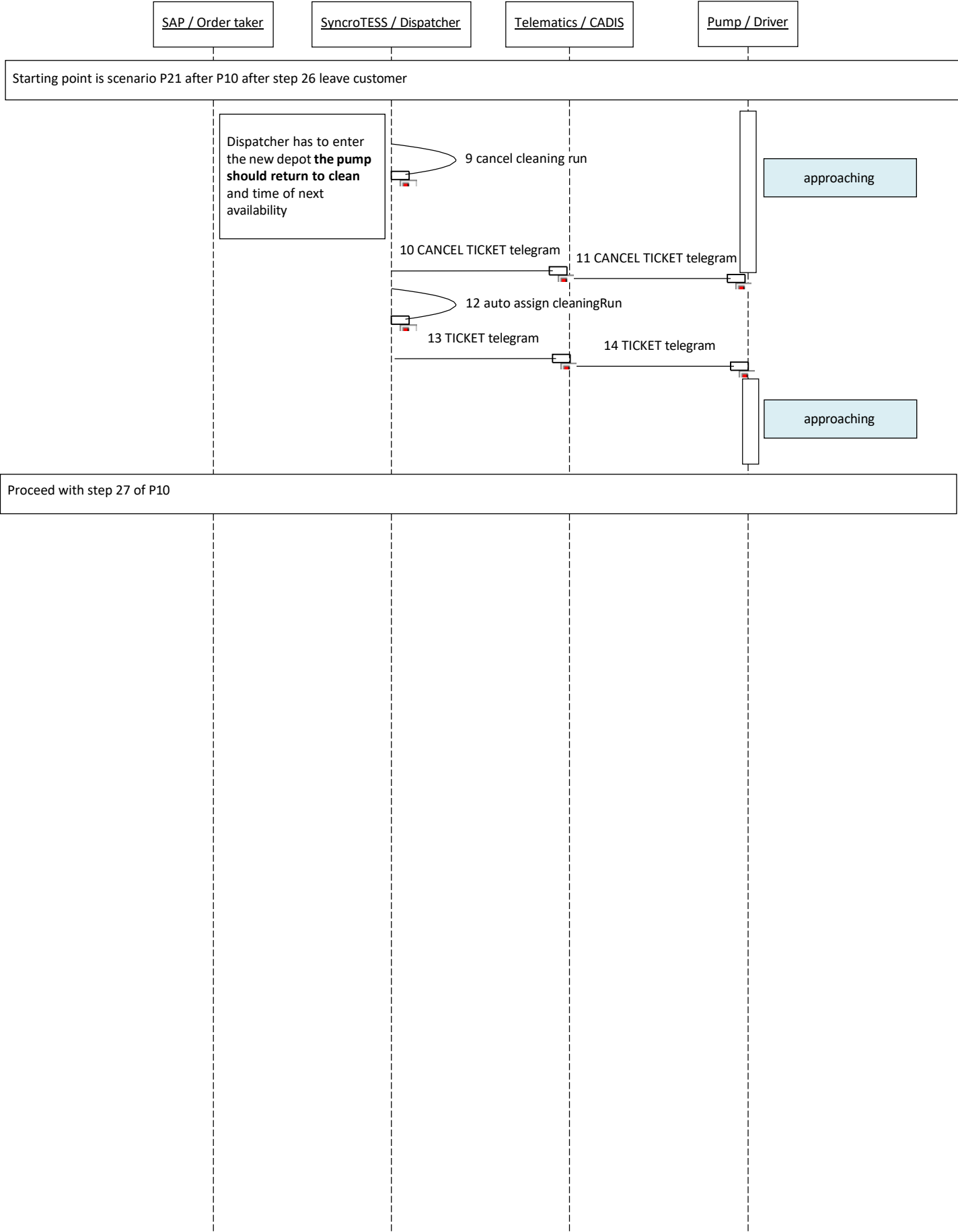
(P118) Cancel cleaning run

Cancel while pump is tear down, cleaning did not start yet and customer location has no cleaning flag



(P119) Cancel cleaning run

Cancel while pump is at the cleaning run (status returning)



(P37) Cancel while ready to pump

Cancel while pump is ready to pump and has a published follow up assignment

