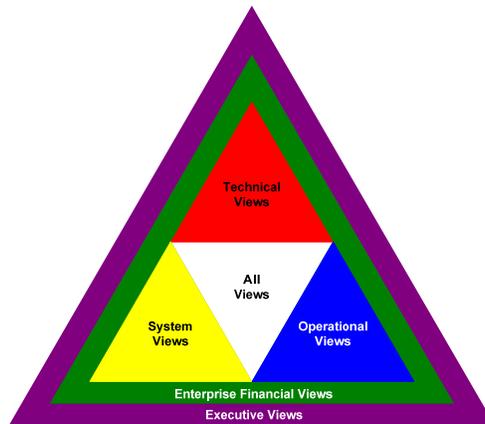




# **National Airspace System Enterprise Architecture (NAS EA)**

## **Air Traffic Organization**

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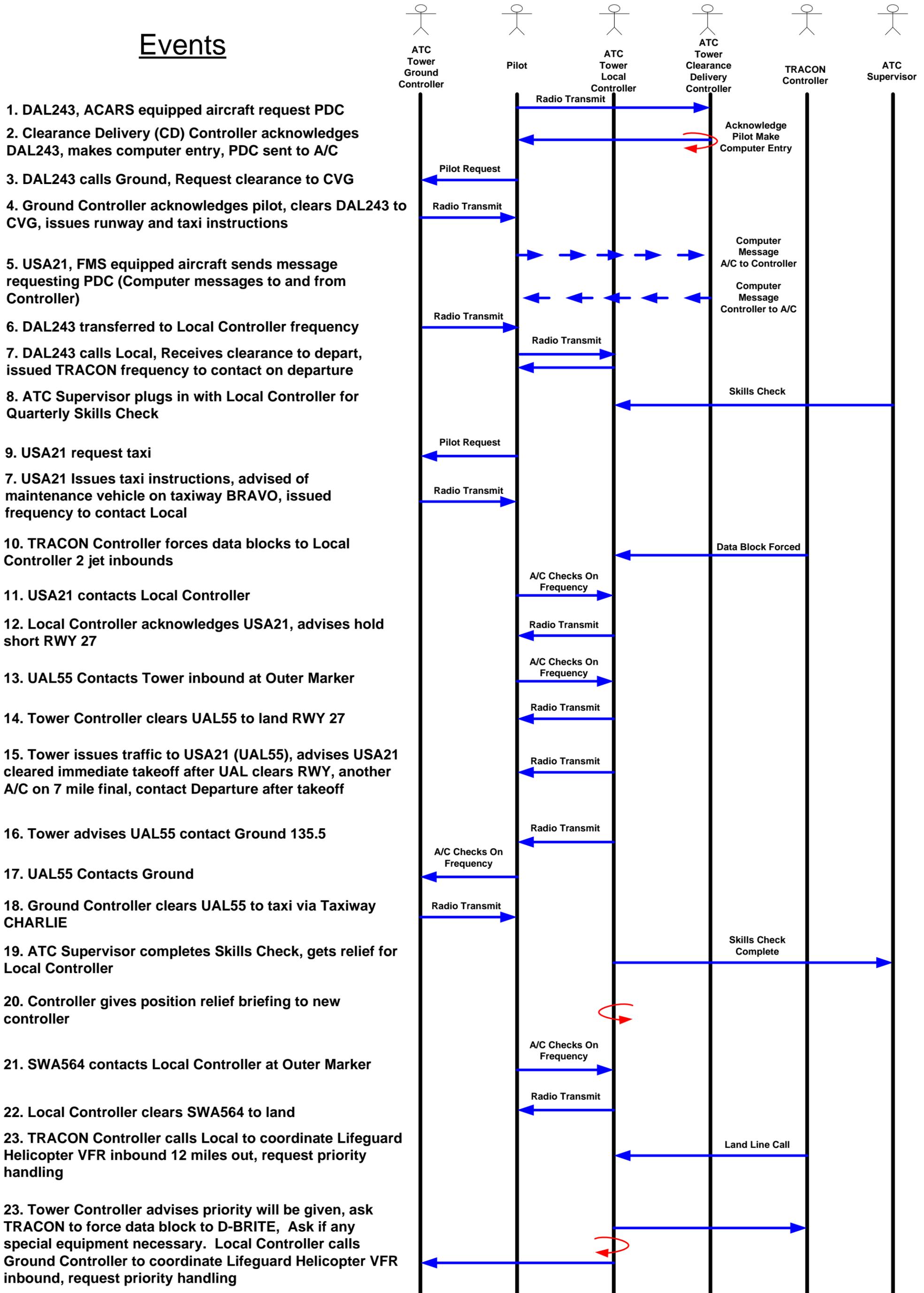
# **National Airspace System Near-Term (2010) As-Is Enterprise-Level Architecture Operational Event-Trace Description (OV-6c)**

**Version 1.0**

**January 29, 2010**

# Event Trace: Air Traffic Controller Work Example - TOWER

## Events

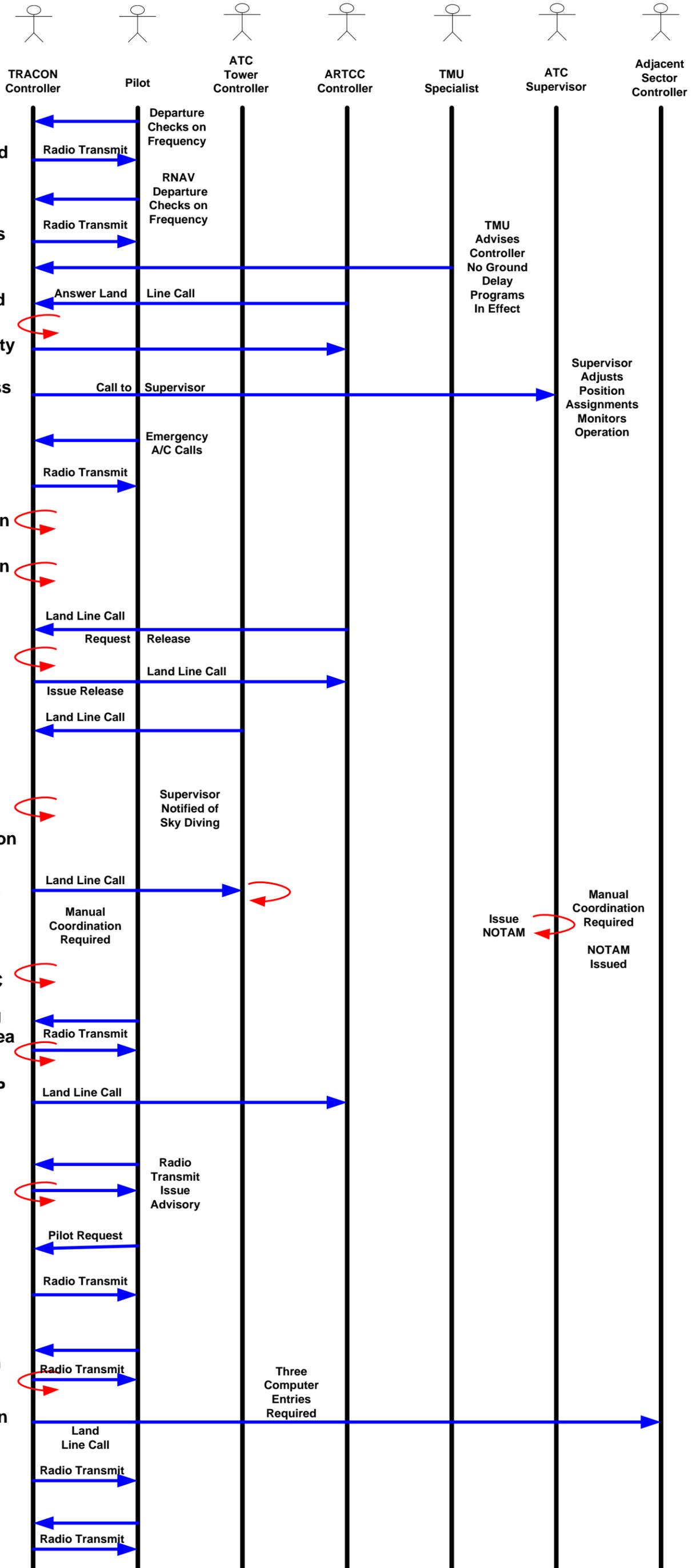


NOTE: This is only a sampling of the events experienced by a controller on position in the TOWER.

OV-6c NAS AS-IS V0\_2 9-25-2009

# Event Trace: Air Traffic Controller Work Example - TRACON

## Events



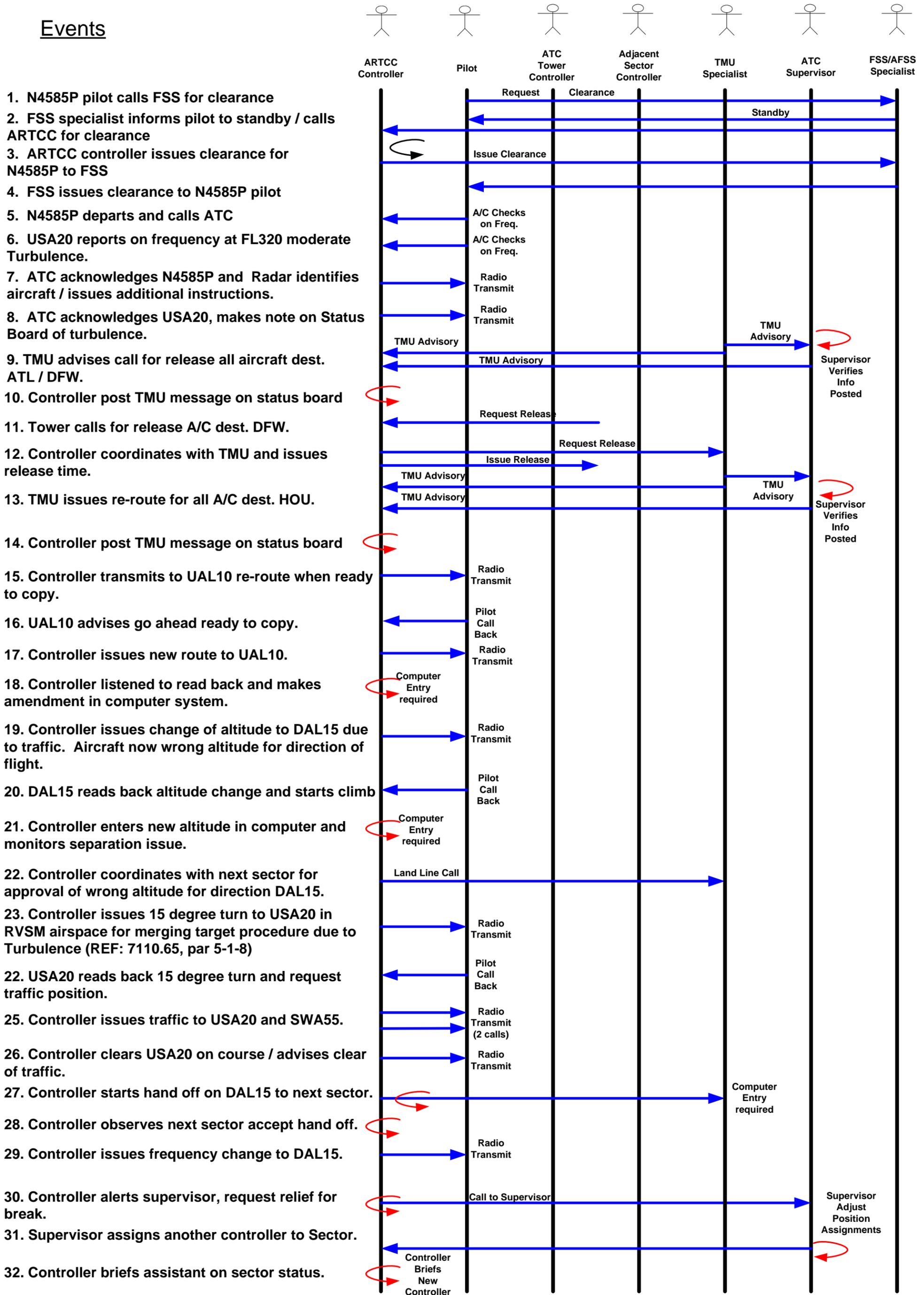
1. Departure Aircraft calls climbing to 2500 feet
2. Controller acknowledges pilot, issues altitude and heading
3. RNAV departure Aircraft calls flying a SID
4. Controller acknowledges pilot, monitors progress and traffic situation
5. ARTCC Controller calls, VFR A/C in Instrument Conditions requesting assistance, A/C identified and in TRACON airspace
6. TRACON acknowledges and accepts responsibility for control
7. Controller advises supervisor of aircraft in distress and requests assistance on position
8. VFR Emergency Aircraft calls TRACON
9. Controller acknowledges A/C, identifies, assigns heading to airport
10. TRACON Controller initiates handoff to ARTCC on non RNAV A/C
11. TRACON Controller initiates handoff to ARTCC on RNAV A/C flying SID
12. ARTCC Controller calls, requesting control for turns on non RNAV A/C
13. TRACON Controller releases all A/C control for turns upon contact
14. VFR Tower in TRACON airspace calls for release on A/C involved in Skydiving operations
15. TRACON Controller gets all information, advises standby for ARTCC approval
16. TRACON Controller coordinates with ARTCC for Skydiving activities from 14500 feet and gives location
17. TRACON Controller issues approval to Tower for Skydiving operations and releases A/C for departure
18. ATC Supervisor issues NOTAM
19. TRACON Controller accepts Handoff on three inbound aircraft (two jet one turboprop) from ARTCC
20. N45P checks on frequency leaving 5500 climbing to 14500. Controller advises inbound jet traffic in area do not release jumpers without 5 minutes notice
21. TRACON controller calls ARTCC, points out N45P and advises will give notice of jumpers released climbing to 14500
22. First inbound jet checks on frequency, altitude issued, approach and runway to expect, and notified of Skydiving in vicinity of flight path, jumpers not released
23. First inbound jet, USA12, request vectors around Skydiving area
24. USA12 assigned 15 degree right turn around Skydiving area
25. Second Jet arrival, SWA50 checks on frequency and is advised to abandon STAR procedure and turn 20 degrees right vectors to avoid Skydiving area
26. Controller initiates point out to adjacent sector on both jet arrivals and turboprop arrival
27. USA12 advises Skydiving aircraft in sight and is instructed to proceed on arrival maintain visual
28. SWA50 advises Skydiving aircraft in sight, is cleared to resume RNAV STAR

NOTE: This is only a sampling of the events experienced by a controller on position in the TRACON.

MANUAL ACTIVITY

# Event Trace: Air Traffic Controller Work Example - ARTCC

## Events



NOTE: This is only a sampling of the events experienced by a controller on position in the ARTCC.

MANUAL ACTIVITY

# Event Trace: Work Example – ATCSCC / TMU SPECIALIST

## Events

1. ATCSCC coordinates with National Weather Service to determine Weather Impact for daily operations.

2. ATCSCC holds TELCON with user community to determine daily workload and special operations. Advises users what Flow Control Restrictions to expect for the day. Gets user input.

3. ATCSCC develops Flow Control Plan for the day and disseminates this plan to facilities and users via computer system.

4. ATCSCC holds TELCON with ARTCC, TRACON, and Tower facilities to advise of daily plan for Flow Control activities.

5. TMU Supervisor in each facility advises facility management and first level supervisors of the shift plan and restrictions to expect. Computer message sent to operational positions for Status Information Area posting.

6. ATCSCC monitors National traffic flow, weather, and demands on system. Remains in constant contact with field facilities and users.

7. ARTCC TMU remains in contact with TRACON, Tower, and first level supervisors in the facility and adjusts traffic flow as required.

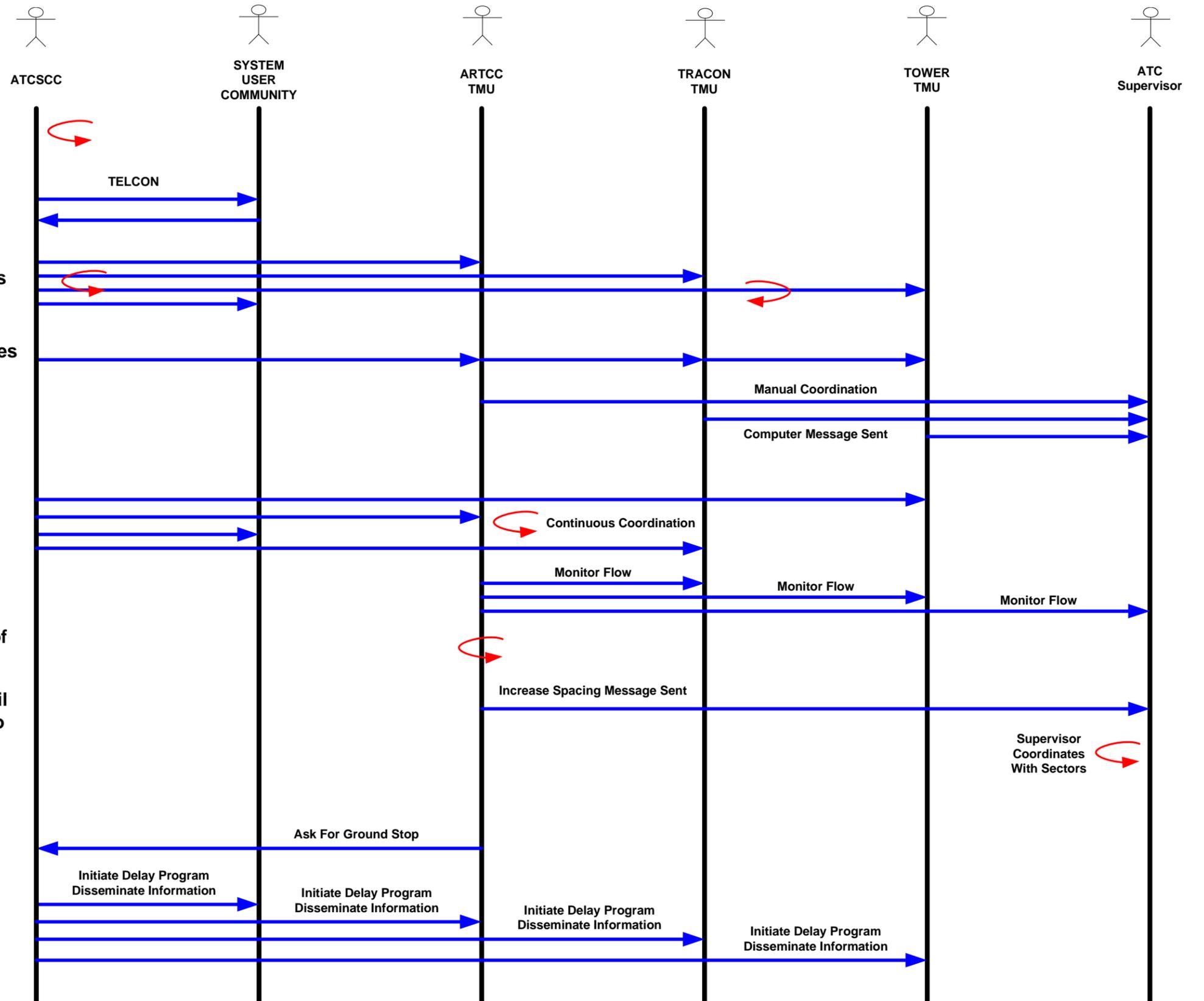
8. ARTCC TMU is advised by ARTCC weather unit, and Tower TMU of thunderstorms building in vicinity of one arrival route and near airport.

9. ARTCC TMU advises area supervisors in facility to increase in-trail spacing on two arrival routes from 10 miles to 15 miles in trail due to WX.

10. ARTCC area supervisors coordinate with affected arrival sectors to increase in-trail spacing due to WX.

11. ARTCC TMU coordinates with ATCSCC for ground stop and departure delay program for area airports due to WX.

12. ATCSCC initiates delay program and ground stop for affected airports and disseminate program to all facilities and users.

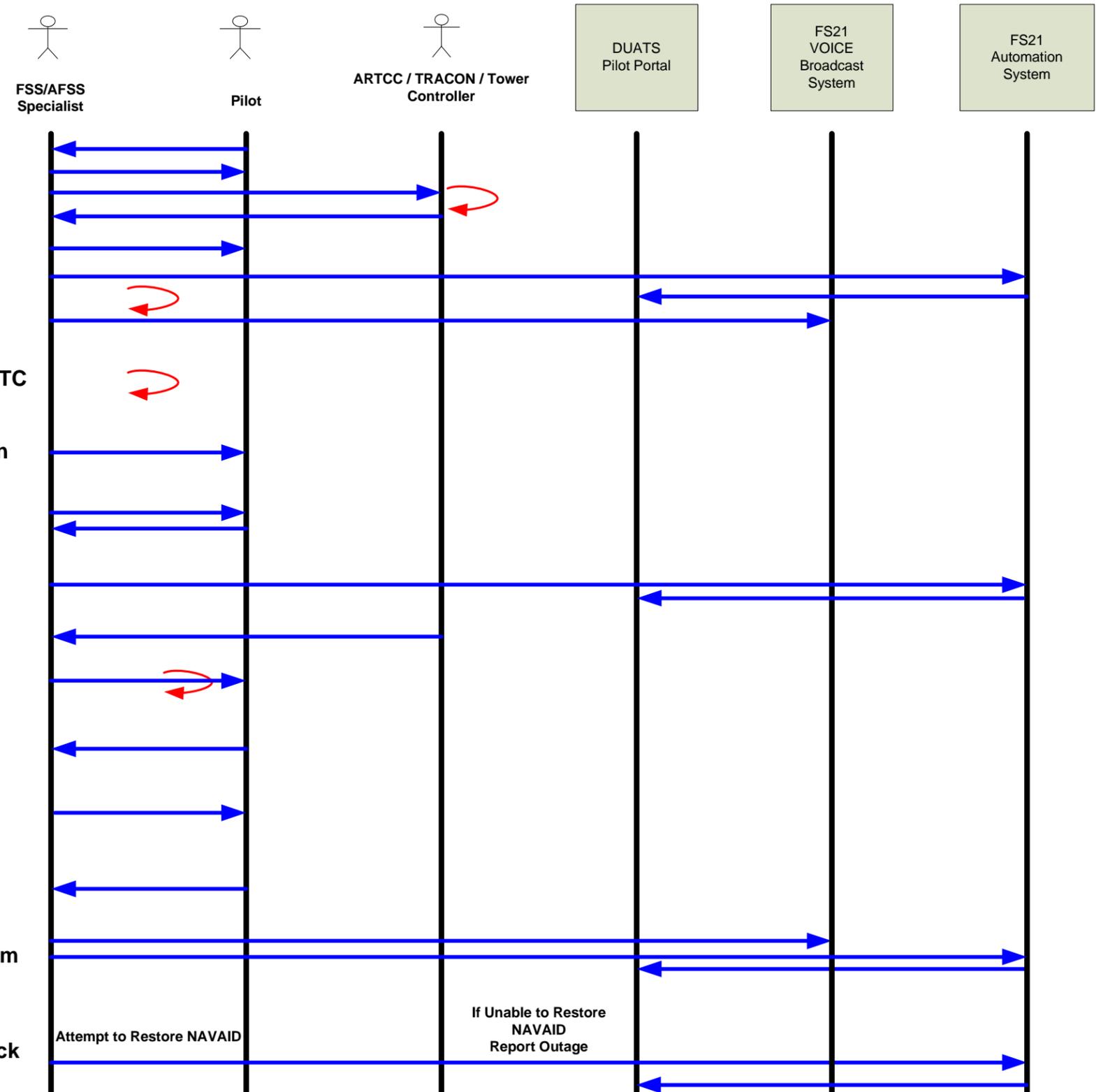


NOTE: This is only a sampling of the events experienced by a TMU specialist on position in ATCSCC and field facilities.

# Event Trace: Work Example – FSS/AFSS

## Events

1. N4585P pilot calls FSS for clearance
2. FSS specialist informs pilot to standby / calls ARTCC / TRACON for clearance
3. ARTCC / TRACON controller issues clearance for N4585P to FSS
4. FSS relays clearance to N4585P pilot
5. FSS/AFSS Specialist performs Weather (WX) observation. WX entered into computer system and broadcast over radio.
6. Provide Pilot PRE-FLIGHT briefing. Include AIRMET's, SIGMET's, PIREP's, NOTAMS, ATC delays, etc. along proposed route.
7. Provide pilot In-Flight briefings as requested by pilots. Provide all pertinent information affecting flight along route.
8. Solicit flight information and WX conditions from pilots.
9. Enter information received from pilots into automation system for dissemination.
10. ATC calls with request to broadcast for aircraft. Request N4585P contact ARTCC on 133.8.
11. Broadcast on frequency to all pilots that may be monitoring. ATC request N4585P contact ARTCC on 133.8.
12. N12R calls requesting airport advisory service.
13. FSS Specialist issues advisory on all known traffic in area and time of last known position.
14. A7863 calls FSS with Pilot Report Of Turbulence (PIREP)
15. FSS Specialist copies PIREP from A7863 and enters information into automation system and broadcast on frequency.
16. At facilities assigned responsibility for monitoring NAVAIDs, FSS/AFSS Specialist check status as part of watch checklist.



**NOTE:** This is only a sampling of the events experienced by a specialist on position in the FSS/AFSS.

MANUAL ACTIVITY