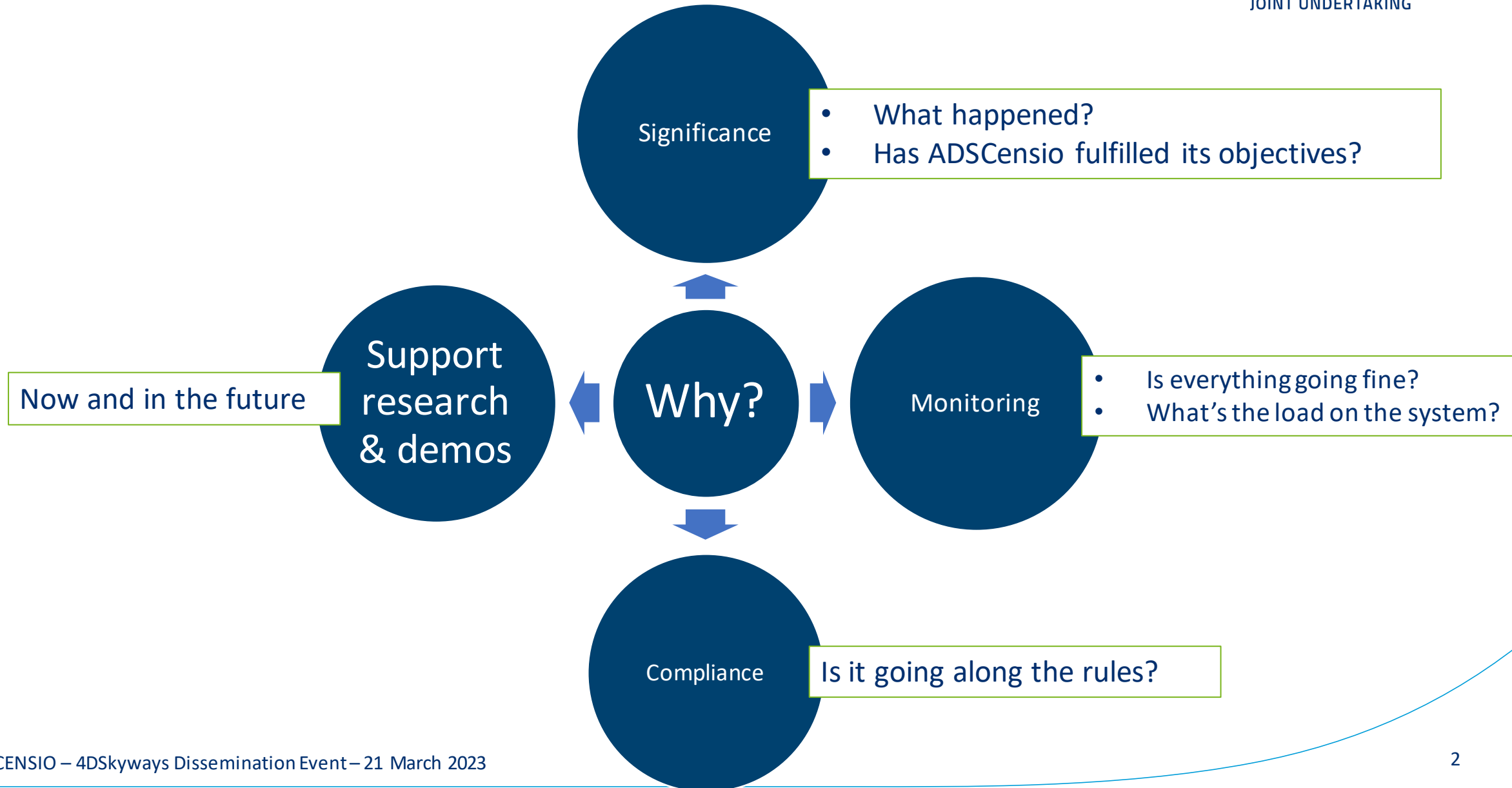


ADSCensio Data Collection

Jean BOUCQUEY, EUROCONTROL
DISSEMINATION EVENT, EUROCONTROL, 21st MARCH 2023

These projects have received funding from the SESAR Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreements No 101017626 and 872320

Data collection context



The ADS-C equipped fleet

DIGITS-AU

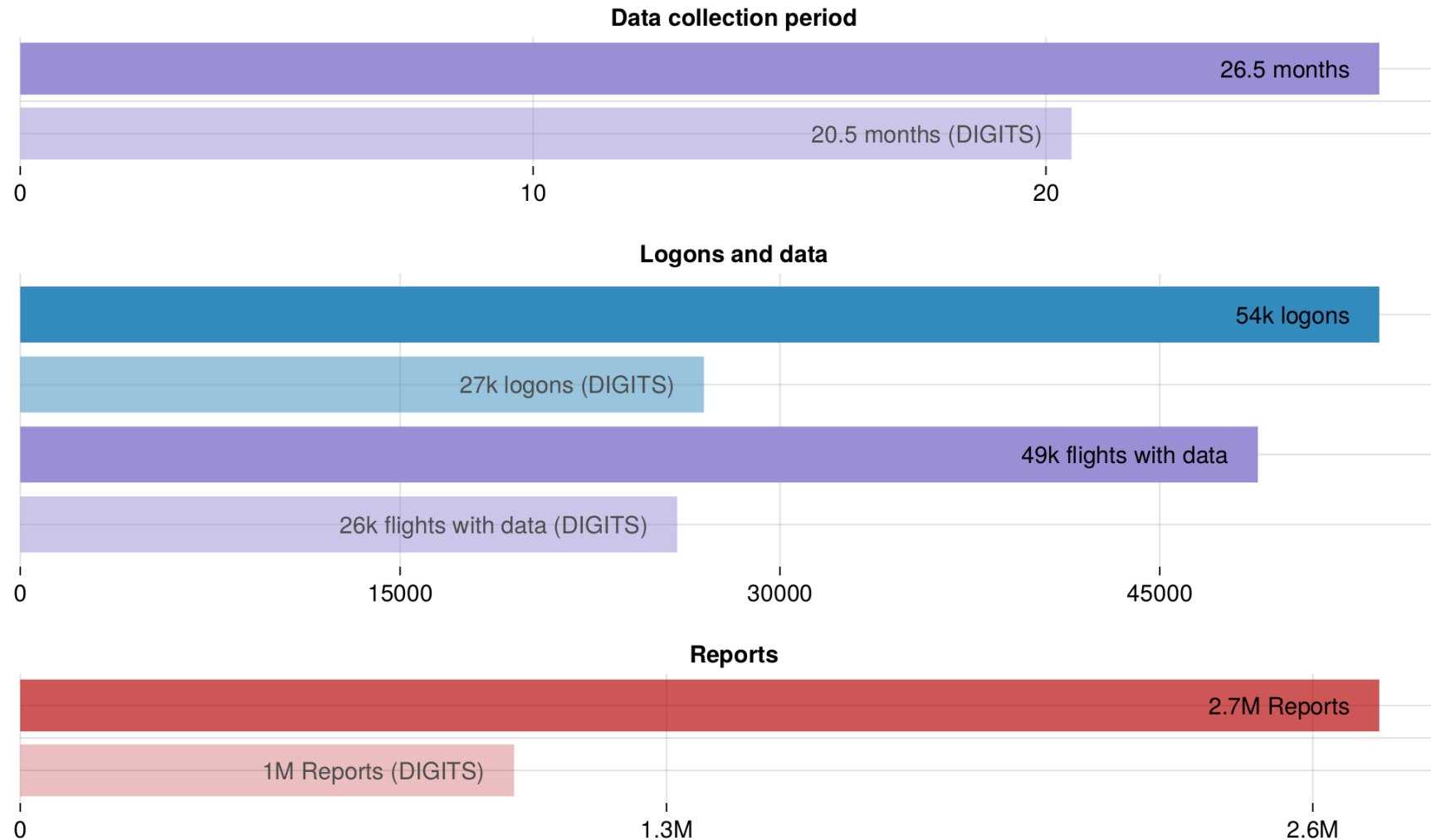
	25 A/C
	10 A/C
	23 A/C
	6 A/C
	2 A/C
	25 A/C



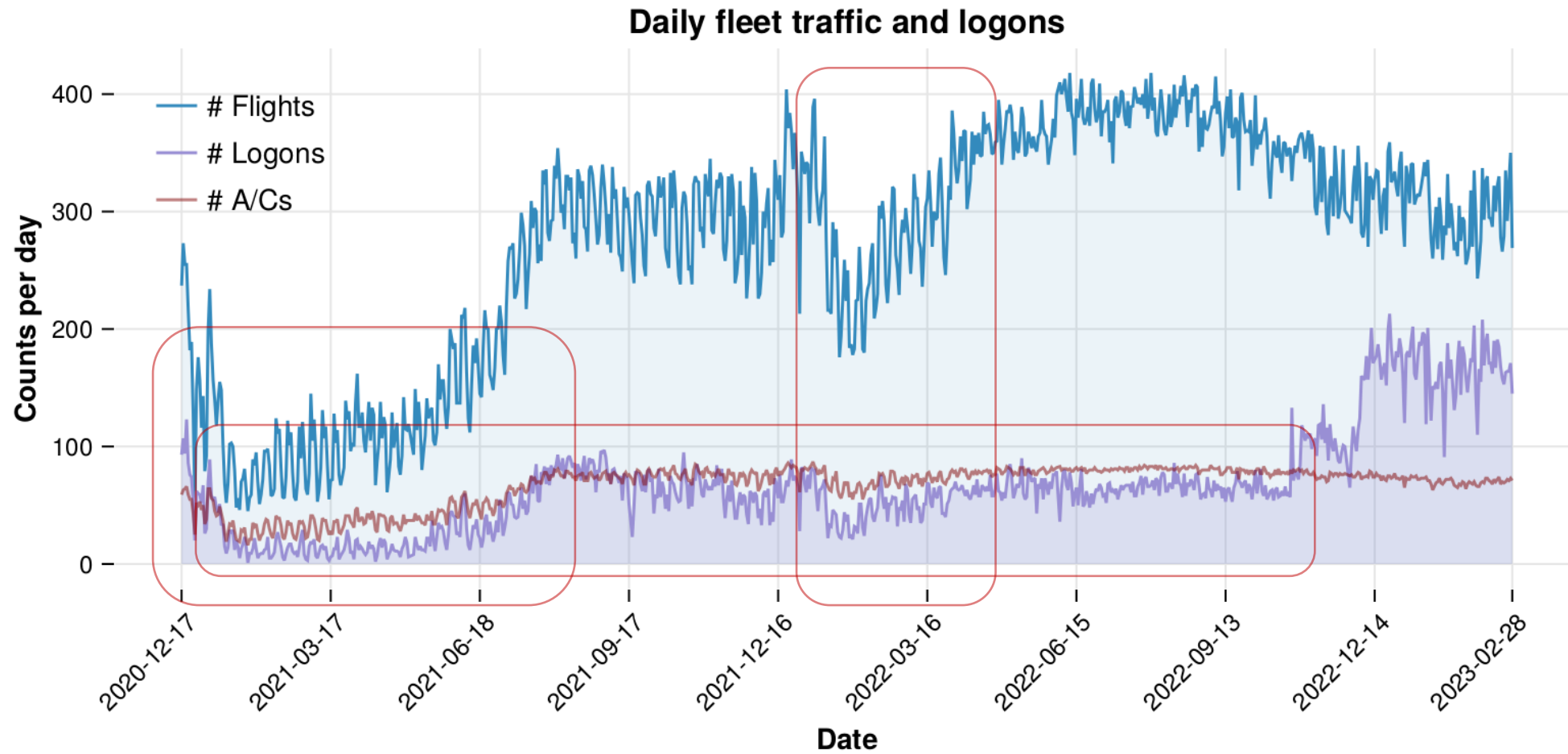
In total 91 equipped A/C

Total of 218k flights flown
from 17 Dec 2020 till 28 Feb 2023

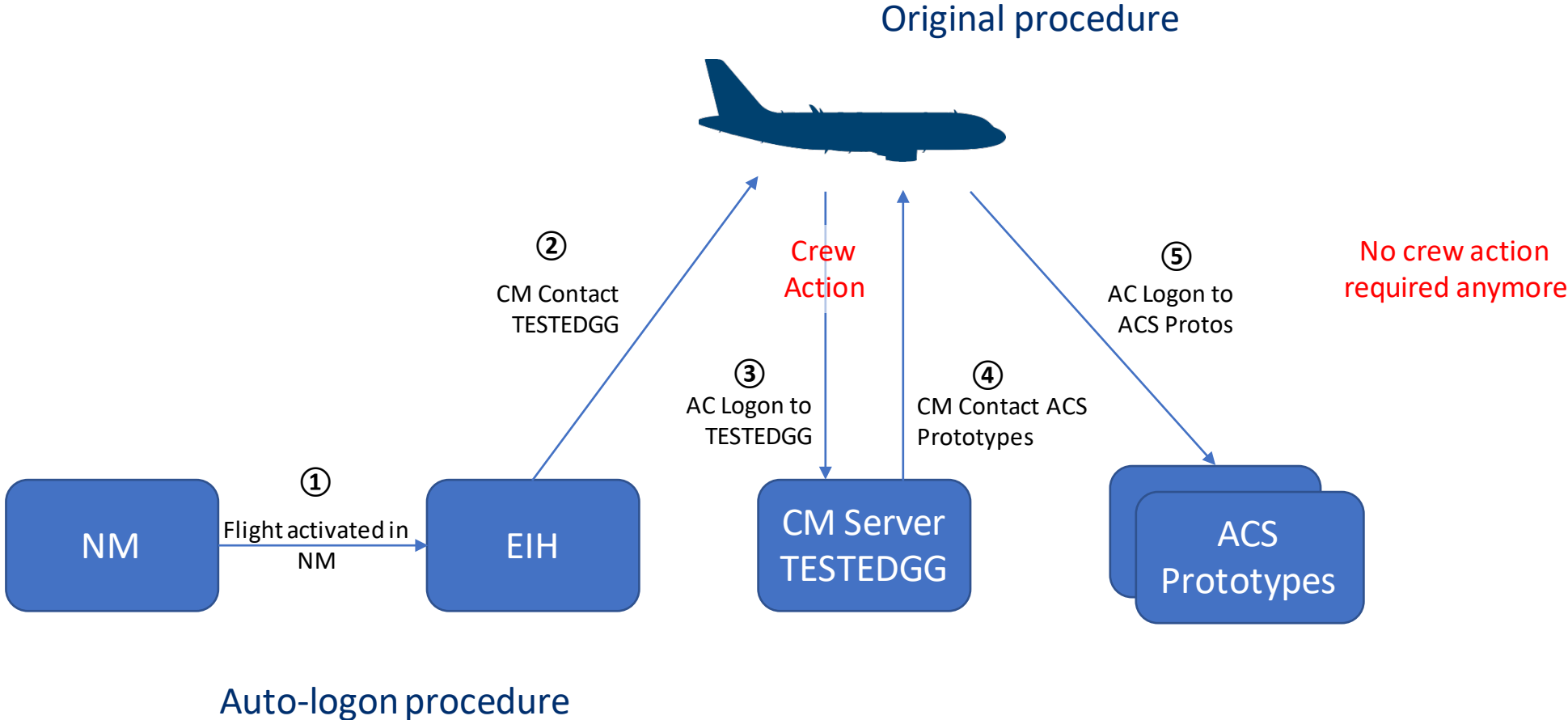
Data Collection at a glance



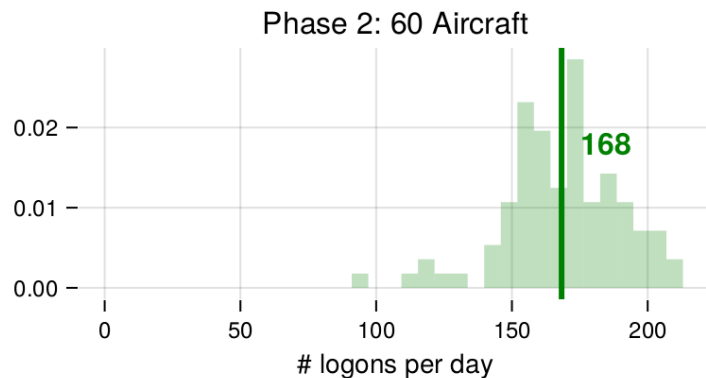
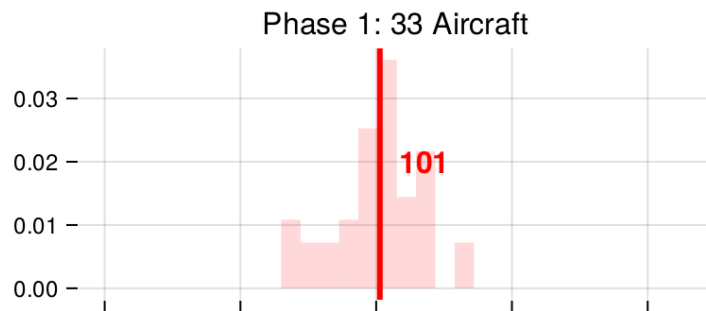
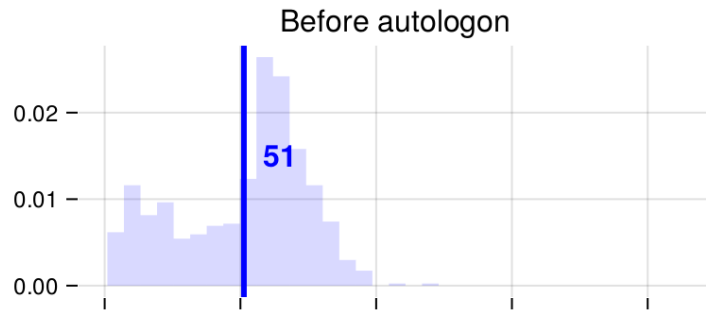
Data Collection



Auto-logon



Auto-logout results



- With Airbus implementation works even if no initial manual logon by the crew.
- Three phases
 - Before 17/10/2022: no auto-logout
 - Phase 1 (from 17/10 to 01/12): BAW and EZY (→33 ACs)
 - Phase 2 (from 01/12): Added AFR and NVR (→60 ACs)
- Average number of logons per day x3
- About **one third** (32%) of the data collected since auto-logout, i.e. in **one sixth** (16%) of the time!

Technical metrics

- Goals
 - Significance
 - Participation rate
 - Amount of data collected
 - Monitoring
 - Service “health”
 - Technical issues
 - Compliance
- Same metrics as in PJ31 DIGITS

Technical metrics



Flight duration: 02:08 (± 01:08)

Dialogue duration: 02:05 (± 1h)

00:38 (± 5m)

Flights/day

373 (± 10)

75 (± 7)

CM Logon/day

170 (± 22)

76 (± 8)

Contracts/flight

P: 3.22, E: 1.45

P: 1, E: 1, D: 2.9

Reports/flight

P: 26, E: 30

P: 8, E: 3, D: 3

Termination

UA/flight: 1.2 (± 0.4)

PA/flight: 5.4 (± 4.3)

Per 100h per week:

PA: 2.15, UA: 0.35

ACS Prototype - EIH

MUAC - OPS



DIGITS findings confirmed!

Takeaways

- Data collection
 - A quite significant amount of flights with ADS-C data collected
 - Difficult “restart” after COVID
 - Auto-logout: a “simple” way to considerably increase the amount of data collected
- DIGITS Technical metrics confirmed
 - Technical metrics -> no significant changes vs. PJ31 DIGITS
- More information
 - PJ31 Demonstration Report Appendix M
 - DEMOR R1 Appendix M.1 Technical Data Analysis
 - D3.1 Data analysis (reports on the auto-logout)

THANK YOU FOR YOUR ATTENTION

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