

Performance Review Body Monitoring Report

Sweden - 2020

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1 OVERVIEW

1.1 Contextual information

National performance plan adopted following Commission Decision (EU) 2022/2423 of 5 December 2022

List of ACCs 2 Malmo ACC Stockholm ACC

No of airports in the scope of the performance plan:

• ≥**80′K** 1

• <**80'K** 0

Exchange rate (1 EUR=) 2017: 9.63311 SEK 2020: 10.4769 SEK

Share of Union-wide: • traffic (TSUs) 2020 3.2% • en route costs 2020 4.5% Share en route / terminal costs 2020 91% / 9% En route charging zone(s) Sweden Terminal charging zone(s) Sweden Main ANSP

• LFV

Other ANSPs

- SDATS
- ACR
- ARV Arvidsjaur
- Swedavia

MET Providers

• SMHI

1.2 Traffic (En route traffic zone)



• Sweden recorded 351K actual IFR movements in 2020, -57% compared to 2019 (823K).

• The reduction in IFR movements for Sweden was in line with the average reduction at Union-wide level (-57%).



- Sweden recorded 1,676K actual en route service units in 2020, -56% compared to 2019 (3,820K).
- Sweden service units reduced less than the average reduction at Union-wide level (-57%).

1.3 Safety (Main ANSP)



1.4 Environment (Member State)



• LFV achieved its RP3 EoSM targets in all management objectives. The levels achieved in 2020 were consistent with the levels planned in the draft 2019 performance plan.

• With respect to safety occurrences, Sweden recorded a marginally higher rate of occurrences of SMIs and lower RIs in 2020 compared to 2019. Both rates remain above the Union-wide average, however, the NSA declared that they are unable to discriminate the occurrences with safety impact only.

• LFV should improve its SMS by implementing automated safety data recording systems.

• Sweden achieved a KEA performance of 1.03% compared to its reference value of 1.26% and therefore it contributed positively to the Union-wide target.

• In 2020, Sweden suspended RAD restrictions and removed ATS routes that existed above FL285. However, the shortest constrained routes in Sweden are still higher than KEA, suggesting that airspace users are not able to plan the routes they actually fly due to airspace constraints. To improve planning, Sweden could consider further measures such as cross-border free route airspace, which it has planned for 2023.

• The share of flights operating CCO/CDO at Stock-

holm Arlanda airport remained stable in 2020 compared to 2019, but performance is still class leading among regulated airports.

• The additional time airspace users spent taxiing or holding in terminal airspace reduced by 33% compared to 2019.

1.5 Capacity (Member State)



Average en route ATFM delay per flight by delay groups



Average arrival ATFM delay per flight by delay groups

• LFV registered 0.01 minutes of average en route ATFM delay per flight during 2020, thus meeting the local breakdown value of 0.15.

• Delays must be considered in the context of the traffic evolution: IFR movements in 2020 were 57% below the 2019 levels in Sweden.

• Sweden reported no capacity issues and a 1% decrease in ATCO FTE numbers in 2020 compared to 2019.

• Delays were driven by disruptions (technical issues).

• The share of delayed flights with delays longer than 15 minutes in Sweden increased by 3.28 p.p. compared to 2019.

• The yearly total of sector opening hours in Malmo ACC was 48,401, showing a 15.8% decrease compared to 2019. The yearly total of sector opening hours in Stockholm ACC was 27,645, showing a 37.6% decrease compared to 2019.

• Malmo ACC registered 5.02 IFR movements per one sector opening hour in 2020, being 50.1% below 2019 levels. Stockholm ACC registered 6.1 IFR movements per one sector opening hour in 2020, being 34.2% below 2019 levels.

1.6 Cost-efficiency (En route/Terminal charging zone(s))



178.80

2022

Determined unit cost

136.86

2023

• The 2020 actual service units (1,676K) were 56% lower than the actual service units in 2019 (3,789K).

• Sweden increased total costs in 2020 by 50 M€2017 (+23%) compared to 2019 actual costs, being the Member States with the largest cost increase. Moreover, Sweden did not achieve the cost-efficiency targets in 2019.

• Sweden increased staff costs by 58 M€2017 (+42%) due to notably higher pension costs. The increase is a lump sum and would only affect 2020.

• LFV spent 15 M€2017 in 2020 related to cost of investments, 21% less than planned in the 2019 draft performance plan (19 M€2017). The decrease is due to the fact that Swedish government decided to charge a WACC without return on equity.

2 **SAFETY - SWEDEN**

2020-2021

411.99 395.08

200

100

0

2.1 **PRB** monitoring

• LFV achieved its RP3 EoSM targets in all management objectives. The levels achieved in 2020 were consistent with the levels planned in the draft 2019 performance plan.

• With respect to safety occurrences, Sweden recorded a marginally higher rate of occurrences of SMIs and lower RIs in 2020 compared to 2019. Both rates remain above the Union-wide average, however, the NSA declared that they are unable to discriminate the occurrences with safety impact only.

LFV should improve its SMS by implementing automated safety data recording systems.

131.71

Actual unit cost

2024

2.2 Effectiveness of Safety Management (EoSM) (KPI#1)



EoSM - LFV

Focus on EoSM

All five EoSM components of the ANSP meet already the 2024 target level.

2.3 Occurrences - Rate of runway incursions (RIs) (PI#1) & Rate of separation minima infringements (SMIs) (PI#2)



3 ENVIRONMENT - SWEDEN

3.1 PRB monitoring

• Sweden achieved a KEA performance of 1.03% compared to its reference value of 1.26% and therefore it contributed positively to the Union-wide target.

• In 2020, Sweden suspended RAD restrictions and removed ATS routes that existed above FL285. However, the shortest constrained routes in Sweden are still higher than KEA, suggesting that airspace users are not able to plan the routes they actually fly due to airspace constraints. To improve planning, Sweden could consider further measures such as cross-border free route airspace, which it has planned for 2023.

• The share of flights operating CCO/CDO at Stockholm Arlanda airport remained stable in 2020 compared to 2019, but performance is still class leading among regulated airports.

• The additional time airspace users spent taxiing or holding in terminal airspace reduced by 33% compared to 2019.

3.2 En route performance







3.3 Terminal performance

3.3.1 Additional taxi-out time (AXOT) (PI#3) & Arrival Sequencing and Metering Area (ASMA) time (PI#4)



ASMA & AXOT

Focus on ASMA & AXOT

ΑΧΟΤ

The additional taxi-out times at Stockholm decreased by 37% (ESSA; 2019: 2.05 min/dep.; 2020: 1.3 min/dep.) with a sharp reduction from April until the end of the year, period in which these times averaged only 0.75 min/arr.

According to the Swedish monitoring report: The airport operator (Swedavia) is currently executing a CDM project that aims to, among other things, improve this PI.

ASMA

The additional time in the terminal area at Stockholm Arlanda was low and very stable around 1.2 min/arr during RP2. The traffic reduction in 2020 had a significant impact in the performance (ESSA; 2019: 1.15 min/arr.; 2020: 0.83 min/arr.), with additional ASMA times under 0.40 min/arr. between April and October. According to the Swedish monitoring report: *LFV is currently starting up a major airspace overhaul project. One of the objectives is to improve the airspace around ESSA. LFV is monitoring the additional time for each individual arrival and will use that data in the aforementioned project.*

3.3.2 Share of arrivals applying continuous descent operations (CDOs) (PI#5)



Focus CDOs

The share of CDO flights at Stockholm (ESSA) is 42.5% which is above the overall RP3 value in 2020 (32.5%).

						Airp	oort leve	el							
	A	dditional	taxi-out	time (PI#	3)		Additional ASMA time (PI#4) Sha		e of arrivals applying CDO (PI#5)						
Airport Name	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
Stockholm/Arlanda	1.3	NA	NA	NA	NA	0.83	NA	NA	NA	NA	NA	NA	NA	NA	NA

3.4 Civil-Military dimension



RAI & RAU via available conditional routes (PIs#7 & 8)





Focus on Civil-Military dimension

Update on Military dimension of the plan

Environment: FUA has been implemented in Sweden since 1978, before the concept was defined on European level and the benefit is already achieved, therefore its limitations to environmental factors are small. Capacity: Sweden have an implemented extended FUA with the content that [doesn't create] limits in the capacity.

Military - related measures implemented or planned to improve environment and capacity

Environment: No comment provided. Capacity: No comment provided.

Initiatives implemented or planned to improve PI#6

No comment provided. [No explanation of mismatch between national level (10%) and ACC level (21%).]

Initiatives implemented or planned to improve PI#7

No data available

Initiatives implemented or planned to improve PI#8

No data available

4 CAPACITY - SWEDEN

4.1 PRB monitoring

• LFV registered 0.01 minutes of average en route ATFM delay per flight during 2020, thus meeting the local breakdown value of 0.15.

• Delays must be considered in the context of the traffic evolution: IFR movements in 2020 were 57% below the 2019 levels in Sweden.

• Sweden reported no capacity issues and a 1% decrease in ATCO FTE numbers in 2020 compared to 2019.

• Delays were driven by disruptions (technical issues).

• The share of delayed flights with delays longer than 15 minutes in Sweden increased by 3.28 p.p. compared to 2019.

• The yearly total of sector opening hours in Malmo ACC was 48,401, showing a 15.8% decrease compared to 2019. The yearly total of sector opening hours in Stockholm ACC was 27,645, showing a 37.6% decrease compared to 2019.

• Malmo ACC registered 5.02 IFR movements per one sector opening hour in 2020, being 50.1% below 2019 levels. Stockholm ACC registered 6.1 IFR movements per one sector opening hour in 2020, being 34.2% below 2019 levels.

4.2 En route performance

4.2.1 En route ATFM delay (KPI#1)



Distribution of IFR flights per



Focus on en route ATFM delay

Summary of capacity performance

Sweden experienced a traffic reduction of 57% from 2019 levels, to 351k flights. The traffic level was accommodated with less than 3k minutes of en route ATFM delays to airspace users. Almost 80% of ATFM delays were attributed to ATC equipment in February 2020.

NSA's assessment of capacity performance

Performance is better than target as a result of the reduction in traffic. The delays reported refer to the period January - February.

Monitoring process for capacity performance

No data available

Capacity planning

No data available

Application of Corrective Measures for Capacity (if applicable)

No data available

4.2.2 Other indicators



Focus on ATCOs in operations

Malmo ACC: Reporting according to the definition used in ACE.**Stockholm ACC**: Reporting according to the definition used in ACE.

4.3 Terminal performance

4.3.1 Arrival ATFM delay (KPI#2)



Focus on arrival ATFM delay

Sweden only has Stockholm (ESSA) airport subject to RP3 monitoring for which the APDF is successfully established and the monitoring of the capacity indicators can be performed. Nevertheless, the quality of the reporting does not allow for the calculation of the ATC pre-departure delay, with more than 60% of the reported delay not allocated to any cause.

Traffic at this airport in 2020 decreased by 63% with respect to 2019. This drop in traffic also resulted in zero average arrival ATFM delay for Stockholm in 2020. The slot adherence was 98.1%.

Only 203 min of arrival ATFM delay were registered at Stockholm in 2020, in January, resulting in an average 0 min/arr for the year. This is a significant improvement with respect to the 0.32 min/arr in 2019.

The provisional national target on arrival ATFM delay in 2020 was met.

In accordance with Article 3 (3) (a) of Implementing Regulation (EU) 2020/1627: The incentive scheme shall cover only the calendar years 2022 to 2024.

4.3.2 Other terminal performance indicators (PI#1-3)



			Air	oort level					
		Avg arrival ATF	M delay (KPI#2	2)	Slot adherence (PI#1)				
Airport name	2020	2021	2022	2023	2020	2021	2022	2023	
Stockholm/Arlanda	0	NA	NA	NA	98.2%	NA%	NA%	NA%	
	A	TC pre departu	ıre delay (PI#2)	1	A	ll causes pre de	parture delay (PI#	3)	
Airport name	2020	2021	2022	2023	2020	2021	2022	2023	
Stockholm/Arlanda	0.06	NA	NA	NA	8.3	NA	NA	NA	

Focus on performance indicators at airport level

ATFM slot adherence

With the drastic drop in traffic, regulated departures from Stockholm virtually disappeared as of April. The annual figure is therefore driven by the performance in the first trimester.

Stockholm's ATFM slot compliance was 98.2%. With regard to the 1.8% of flights that did not adhere, 0.7% was early and 1.1% was late.

ATC pre-departure delay

The calculation of the ATC pre-departure delay is based on the data provided by the airport operators through the Airport Operator Data Flow (APDF) which is properly implemented at Stockholm.

However, there are several quality checks before EUROCONTROL can produce the final value which is established as the average minutes of pre-departure delay (delay in the actual off block time) associated to the IATA delay code 89 (through the APDF, for each delayed flight, the reasons for that delay have to be transmitted and coded according to IATA delay codes.

However, sometimes the airport operator has no information concerning the reasons for the delay in the off block, or they cannot convert the reasons to the IATA delay codes. In those cases, the airport operator might:

- Not report any information about the reasons for the delay for that flight (unreported delay)

- Report a special code to indicate they do not have the information (code ZZZ)

- Report a special code to indicate they do not have the means to collect and/or translate the information (code 999)

To be able to calculate with a minimum of accuracy the PI for a given month, the minutes of delay that are not attributed to any IATA code reason should not exceed 40% of the total minutes of pre-departure delay observed at the airport.

Finally, to be able to produce the annual figure, at least 10 months of valid data is requested by EUROCON-TROL.

The share of unidentified delay reported by Stockholm was above 40% between April and June 2020, preventing the annual calculation of this indicator, as there were only 9 months of valid data. Stockholm usually has proper reporting.

All causes pre-departure delay

The total (all causes) delay in the actual off block time at Sweden in 2020 was 8.34 min/dep. The higher delays per flight were observed in May due to the lower traffic and extraordinary circumstances.

This performance indicator has been introduced in the performance scheme for the first time this year, so no evolution with respect to 2019 can be analysed.

5 COST-EFFIENCY - SWEDEN

5.1 PRB monitoring

• The 2020 actual service units (1,676K) were 56% lower than the actual service units in 2019 (3,789K).

• Sweden increased total costs in 2020 by 50 M€2017 (+23%) compared to 2019 actual costs, being the Member States with the largest cost increase. Moreover, Sweden did not achieve the cost-efficiency targets in 2019.

• Sweden increased staff costs by 58 M€2017 (+42%) due to notably higher pension costs. The increase is a lump sum and would only affect 2020.

• LFV spent 15 M€2017 in 2020 related to cost of investments, 21% less than planned in the 2019 draft performance plan (19 M€2017). The decrease is due to the fact that Swedish government decided to charge a WACC without return on equity.

5.2 En route charging zone

5.2.1 Unit cost (KPI#1)



















Focus on unit cost

AUC vs. DUC

In the combined year 2020-2021, the AUC was -3.4% (or -45.65 SEK2017, -4.74 €2017) lower than the planned DUC. This results from the combination of higher than planned TSUs (+1.8%) and lower than planned en route costs in real terms (-1.6%, or-72.8 MSEK2017, -7.6 M€2017).

En route service units

The difference between actual and planned TSUs (+1.8%) falls within the $\pm 2\%$ dead band. Hence the resulting additional en route revenue is kept by the ANSPs.

En route costs by entity

Actual real en route costs are -1.6% (-7.6 M \in 2017) lower than planned. This is driven by the main ANSP, LFV (-1.0%, or -3.8 M \in 2017), other ANSPs (-5.4%, or -2.3 M \in 2017) and NSA/EUROCONTROL (-3.0%, or -1.6 M \in 2017), while the actual costs of the MET service provider are close to the determined costs (+0.6%, or +0.1 M \in 2017).

En route costs for the main ANSP at charging zone level

The lower than planned en route costs in real terms for LFV in 2020-2021 reflect a combination of: - slightly lower staff costs (-0.6%); due to lower than planned pension costs. In addition, "staff costs were reduced by the revenues for staff participating in projects or other parts not financed by en route charges"; - lower other operating costs (-3.9%); "mainly due to lower costs for maintaining the systems and pandemic effects of less travelling and consultants";

- lower depreciation costs (-2.6%); reflecting "delayed investments as a result of the pandemic and lack of staff"; and,

- significantly higher cost of capital (+16.7%); linked with a higher interest rate on debt used to compute the cost of capital.

5.2.2 Actual unit cost incurred by the users (AUCU) (PI#1)



AUCU components (€/SU) – 2020-2021

Components of the AUCU in 2020-2021	€/SU
DUC	137.43
Inflation adjustment	0.57
Cost exempt from cost-sharing	-1.45
Traffic risk sharing adjustment	0.00
Traffic adj. (costs not TRS)	-0.33
Finantial incentives	0.00
Modulation of charges	0.00
Cross-financing	0.00
Other revenues	-2.87
Application of lower unit rate	0.00
Total adjustments	-4.08
AUCU	133.35
AUCU vs. DUC	-3.0%



Cost exempt from cost sharing

Cost exempt from cost sharing by item - 2020-2021	€′000	€/SU
New and existing investments	-748.9	-0.22
Competent authorities and qualified	-128.6	-0.04
entities costs		
Eurocontrol costs	-1,359.2	-0.39
Pension costs	-2,791.9	-0.80
Interest on loans	0.0	0.00
Changes in law	0.0	0.00
Total cost exempt from cost risk sharing	-5,028.7	-1.45

5.2.3 Regulatory result (RR)





Net result from en route activity - LFV 2020-2021



Focus on regulatory result

LFV net gain on en route activity in the Sweden charging zone in the combined year 2020-2021

LFV generated a net gain of +76.5 MSEK, as a combination of a gain of +6.9 MSEK arising from the cost sharing mechanism and a gain of +69.6 MSEK arising from the traffic risk sharing mechanism.

LFV overall regulatory results (RR) for the en route activity

Ex-post, the overall RR taking into account the net gain from the en route activity mentioned above (+76.5 MSEK) and the actual RoE (+5.1 MSEK) amounts to +81.6 MSEK (2.1% of the en route revenues). The resulting ex-post rate of return on equity is 7.6%, which is higher than the 0.5% planned in the PP.

Terminal charging zone

Unit cost (KPI#1) 5.3.1







Total costs per entity group - 2020-2021

10.4 10.0

Main ATSP Other ATSP

0.9 0.8

Actual and determined data							
Total costs - nominal (M€)	2020-2021	2022	2023	2024			
Actual costs Determined costs	46 46	NA 21	NA 21	NA 22			
Difference costs	0	NA	NA	NA			
Inflation assumptions	2020-2021	2022	2023	2024			
Determined inflation rate	NA	4.8%	2.2%	1.7%			
Determined inflation index	NA	112.4	114.9	116.9			
Actual inflation rate	NA	NA	NA	NA			
Actual inflation index	NA	NA	NA	NA			
Difference inflation index (p.p.)	NA	NA	NA	NA			







32.4 32.7

30

20

10

0

Terminal costs (M€₂₀₁₇)

AUC vs. DUC

The AUC was -4.1% (or -162.86 SEK2017, -16.91 €2017) lower than the planned DUC resulting from the combination of higher than planned TNSUs (+3.9%) and slightly lower than planned terminal costs in real terms (-0.4%, or -1.6 MSEK2017, -0.2 M€2017).

5.3

19/21

Terminal service units

The difference between actual and planned TNSUs (+3.9%) falls outside the $\pm 2\%$ dead band. Hence the resulting additional terminal revenue is shared between the ANSPs and airspace users, with the main ANSP (LFV) retaining an amount of 8.4 MSEK (0.8 M€).

Terminal costs by entity

Actual real terminal costs are slightly lower than planned (-0.4% or -0.2 M \in 2017). This is driven by the other ANSP, Swedavia (-3.8%, or -0.4 M \in 2017) and MET SP (-7.7%, or -0.1 M \in 2017), while the actual costs of the main ANSP, LFV are slightly higher than planned (+0.9%, or +0.3 M \in 2017). NSA costs are close to the planned costs (-0.5%).

Terminal costs for the main ANSP at charging zone level

The slightly higher than planned terminal costs in real terms for LFV in 2020-2021 reflect a combination of:

- lower staff costs (-1.5%); due to lower than planned pension costs. In addition, "staff costs were reduced by the revenues for staff participating in projects or other parts not financed by terminal charges";

- significantly higher other operating costs (+14.7%); mainly due to higher training costs;

- no depreciation costs are reported for LFV since these costs are fully borne by the other ANSP (Swedavia, airport operator) owning the CNS infrastructure at Arlanda;

- nevertheless, LFV reports the cost of capital (computed on costs exempt from cost sharing from RP2), which turned out higher than planned (+6.2%); linked with a higher interest rate on debt used to compute the cost of capital.

5.3.2 Actual unit cost incurred by the users (AUCU) (PI#1)



AUCU components (€/SU) - 2020-2021

Components of the AUCU in 2020-2021	€/SU
DUC	403.06
Inflation adjustment	1.91
Cost exempt from cost-sharing	-1.57
Traffic risk sharing adjustment	-5.11
Traffic adj. (costs not TRS)	-0.33
Finantial incentives	0.00
Modulation of charges	0.00
Cross-financing	0.00
Other revenues	-3.37
Application of lower unit rate	0.00
Total adjustments	-8.46
AUCU	394.60
AUCU vs. DUC	-2.1%



Cost exempt from cost sharing

Cost exempt from cost sharing by item - 2020-2021	€′000	€/SU
New and existing investments	43.9	0.40
Competent authorities and qualified entities costs	-0.4	0.00
Eurocontrol costs	0.0	0.00
Pension costs	-216.8	-1.97
Interest on loans	0.0	0.00
Changes in law	0.0	0.00
Total cost exempt from cost risk sharing	-173.4	-1.57

5.3.3 Regulatory result (RR)



Focus on regulatory result

LFV net gain on terminal activity in the Sweden-Arlanda terminal charging zone in the combined year 2020-2021

LFV generated a net gain of +3.8 MSEK (+0.4 M€), as a combination of a loss of -4.6 MSEK arising from the cost sharing mechanism and a gain of +8.4 MSEK arising from the traffic risk sharing mechanism.

LFV overall regulatory results (RR) for the terminal activity

Ex-post, the overall RR is equal to the net gain from the terminal activity mentioned above and amounts to +3.8 MSEK (1.1% of the terminal revenues). The resulting ex-post rate of return on equity is 10.5%, which is higher than the 0.0% RoE planned in the PP.