London City Airport (LCY)

Summer 2016 (S16)

Start of Season Report

Report Date: Tue 22-Mar-2016

Headlines

	S16 Start	vs. S15 Start	vs. S15 End
Total Air Transport Movements (Passenger & Freight)	52,021	▲ 7.9%	▲ 10.6%
Total Passenger Air Transport Movements	52,021	▲ 7.9%	▲ 10.6%
Total Passenger Air Transport Movement Seats	4,319,894	▲ 9.6%	▲ 12.7%
Average Seats per Passenger Air Transport Movement	83.0	▲ 1.5%	▲ 2.0%
Percentage of allocated slots cleared as requested (OK)	96.2%		

Contents

Page	Content
2	Runway Scheduling Limits
3	Coordinator's Report
4	ATM Allocation by Operator (Full season and Peak Week Comparison)
5	Peak Week - Allocation and Slot Adjustment Distribution by Operator
6	Significant Route Changes
7	Full Season - Aircraft Size Analysis
8	Full Season - Seasonality
9	Peak Week - Hourly Runway Allocation
10	Peak Week - Hourly Runway Allocation Comparison (S16 Start vs. S15 End)
11	Peak Week Histogram - Arrival Movements (R60/5) - All Terminals - All Operators - AM peak
12	Peak Week Histogram - Departure Movements (R60/5) - All Terminals - All Operators - AM peak
13	Peak Week Histogram - Arrival Movements (R5) - All Terminals - All Operators - AM peak
14	Peak Week Histogram - Departure Movements (R5) - All Terminals - All Operators - AM peak
15	Peak Week Histogram - Arrival Movements (R60/5) - All Terminals - All Operators - PM peak
16	Peak Week Histogram - Departure Movements (R60/5) - All Terminals - All Operators - PM peak
17	Peak Week Histogram - Arrival Movements (R5) - All Terminals - All Operators - PM peak
18	Peak Week Histogram - Departure Movements (R5) - All Terminals - All Operators - PM peak
19	Glossary

S15 scheduling season runs from Sun 29-Mar-2015 to Sat 24-Oct-2015 (210 days).
S16 scheduling season runs from Sun 27-Mar-2016 to Sat 29-Oct-2016 (217 days).
S15 full season data is adjusted by a factor of 1.03333 in order to directly compare against S16 full season data.

Disclaimer
No warranty whether expressed or implied as to the completeness, accuracy, fitness for purpose, or satisfactory quality is given by ACL regarding the information in this report, which is provided by third parties. Accordingly, ACL excludes all liability with regard to such data.

The contents of this report may not be reproduced without the written consent of ACL.

Runway Scheduling Limits

Declared Hourly Movement Capacity

	S15 Arrivals								Change: S15 to S16								S16 Arrivals							
Hour	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Hour	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Hour	Mon	Tue	Wed	Thu	Fri	Sat	Sun
UTC	1	2	3	4	5	6	7	UTC	1	2	3	4	5	6	7	UTC	1	2	3	4	5	6	7
04	0	0	0	0	0	0	0	04								04	0	0	0	0	0	0	0
05	6	6	6	6	6	6	0	05								05	6	6	6	6	6	6	0
06	19	19	19	19	19	19	0	06								06	19	19	19	19	19	19	0
07	19	19	19	19	19	19	0	07								07	19	19	19	19	19	19	0
08	19	19	19	19	19	19	0	08								08	19	19	19	19	19	19	0
09	19	19	19	19	19	19	0	09								09	19	19	19	19	19	19	0
10	19	19	19	19	19	19	0	10								10	19	19	19	19	19	19	0
11	19	19	19	19	19	19	19	11								11	19	19	19	19	19	19	19
12	19	19	19	19	19	0	19	12								12	19	19	19	19	19	0	19
13	19	19	19	19	19	0	19	13								13	19	19	19	19	19	0	19
14	19	19	19	19	19	0	19	14								14	19	19	19	19	19	0	19
15	19	19	19	19	19	0	19	15								15	19	19	19	19	19	0	19
16	19	19	19	19	19	0	19	16								16	19	19	19	19	19	0	19
17	19	19	19	19	19	0	19	17								17	19	19	19	19	19	0	19
18	19	19	19	19	19	0	19	18								18	19	19	19	19	19	0	19
19	19	19	19	19	19	0	19	19								19	19	19	19	19	19	0	19
20	19	19	19	19	19	0	19	20								20	19	19	19	19	19	0	19
21	0	0	0	0	0	0	0	21								21	0	0	0	0	0	0	0

	S15 Departures								Change: S15 to S16								S16 Departures							
Hour	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Hour	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Hour	Mon	Tue	Wed	Thu	Fri	Sat	Sun
UTC	1	2	3	4	5	6	7	UTC	1	2	3	4	5	6	7	UTC	1	2	3	4	5	6	7
04	0	0	0	0	0	0	0	04								04	0	0	0	0	0	0	0
05	6	6	6	6	6	6	0	05								05	6	6	6	6	6	6	0
06	19	19	19	19	19	19	0	06								06	19	19	19	19	19	19	0
07	19	19	19	19	19	19	0	07								07	19	19	19	19	19	19	0
08	19	19	19	19	19	19	0	08								08	19	19	19	19	19	19	0
09	19	19	19	19	19	19	0	09								09	19	19	19	19	19	19	0
10	19	19	19	19	19	19	0	10								10	19	19	19	19	19	19	0
11	19	19	19	19	19	19	19	11								11	19	19	19	19	19	19	19
12	19	19	19	19	19	0	19	12								12	19	19	19	19	19	0	19
13	19	19	19	19	19	0	19	13								13	19	19	19	19	19	0	19
14	19	19	19	19	19	0	19	14								14	19	19	19	19	19	0	19
15	19	19	19	19	19	0	19	15								15	19	19	19	19	19	0	19
16	19	19	19	19	19	0	19	16								16	19	19	19	19	19	0	19
17	19	19	19	19	19	0	19	17								17	19	19	19	19	19	0	19
18	19	19	19	19	19	0	19	18								18	19	19	19	19	19	0	19
19	19	19	19	19	19	0	19	19								19	19	19	19	19	19	0	19
20	19	19	19	19	19	0	19	20								20	19	19	19	19	19	0	19
21	0	0	0	0	0	0	0	21								21	0	0	0	0	0	0	0

	S15 Totals								Change: S15 to S16								S16 Totals							
Hour	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Hour	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Hour	Mon	Tue	Wed	Thu	Fri	Sat	Sun
UTC	1	2	3	4	5	6	7	UTC	1	2	3	4	5	6	7	UTC	1	2	3	4	5	6	7
04	0	0	0	0	0	0	0	04								04	0	0	0	0	0	0	0
05	6	6	6	6	6	6	0	05								05	6	6	6	6	6	6	0
06	38	38	38	38	38	38	0	06								06	38	38	38	38	38	38	0
07	38	38	38	38	38	38	0	07								07	38	38	38	38	38	38	0
08	38	38	38	38	38	38	0	08								08	38	38	38	38	38	38	0
09	38	38	38	38	38	38	0	09								09	38	38	38	38	38	38	0
10	38	38	38	38	38	38	0	10								10	38	38	38	38	38	38	0
11	38	38	38	38	38	38	38	11								11	38	38	38	38	38	38	38
12	38	38	38	38	38	0	38	12								12	38	38	38	38	38	0	38
13	38	38	38	38	38	0	38	13								13	38	38	38	38	38	0	38
14	38	38	38	38	38	0	38	14								14	38	38	38	38	38	0	38
15	38	38	38	38	38	0	38	15								15	38	38	38	38	38	0	38
16	38	38	38	38	38	0	38	16								16	38	38	38	38	38	0	38
17	38	38	38	38	38	0	38	17								17	38	38	38	38	38	0	38
18	38	38	38	38	38	0	38	18								18	38	38	38	38	38	0	38
19	38	38	38	38	38	0	38	19								19	38	38	38	38	38	0	38
20	38	38	38	38	38	0	38	20								20	38	38	38	38	38	0	38
21	0	0	0	0	0	0	0	21								21	0	0	0	0	0	0	0

Coordinator's Report

Total demand	**52,023**	slots		
Total slots allocated	**52,021**	slots	**100.00%**	of total demand
Number of slots cleared OK	**50,036**	slots	**96.18%**	of total slots cleared

Slots adjusted (not OK) due to:

RUNWAY constraints	**710**	slots	**35.8%**	of total slots adjusted
TERMINAL constraints	**-**	slots	**0.0%**	of total slots adjusted
STAND constraints	**125**	slots	**6.3%**	of total slots adjusted
NIGHT constraints	**-**	slots	**0.0%**	of total slots adjusted
OTHER constraints	**-**	slots	**0.0%**	of total slots adjusted
ARR/DEP TURNAROUND feasibility	**1,150**	slots	**57.9%**	of total slots adjusted

Executive Summary

The coordination of LCY S16 season has seen very little change within the morning/evening peaks. Availability due to runway constraints remains very scarce with the rolling 60 minute runway constraints of 19 Arrivals or 19 Departures per 60min period remaining the main obstacle to adding new services into the morning / evening peak periods.

The step change from 70 to 76 movements per 120min period at 06:30z has created some complex scheduling scenarios prior to 06:30z where there are two additional overnight services (Alitalia and Flybe) for S16, combined with a changing profile of BA Cityflyer's early morning departures.

Initial demand for stand capacity exceeded the number of stands available during the 11:00 - 13:55z time period and a number of reschedules have been made to reduce demand and to make the schedule fit within the declared stand constraints.

Runway Constraints

- The majority of adjustements due to runway constraints are found within morning/evening peaks.
- There are only a small number of runway problems during off peak periods (adjustments <15mins).

Terminal Constraints

No Terminal Constraint issues.

Stand Constraints

- Nearly all of the scheduled adjustements due to stand constraints occur during the 1100-1355z period.

Night Constraints

No Night Constraint issues.

Other Constraints

No Other Constraint issues.

Arr/Dep Turnaround Feasibility

- There are outstanding requests for non standard ground times (>30mins) within the morning peak.
- There are outstanding requests for non standard ground times (>30mins) within the evening peak.

Air Transport Movement Allocation by Operator

Comparison between S15 End vs. S16 Start

	FULL SEASON ALLOCATION								PEAK WEEK ALLOCATION							
Operator	S15 ATMs	S16 ATMs	+/- change	S16 Rank	S15 Seats	S16 Seats	+/- change	S16 Rank	S15 ATMs	S16 ATMs	+/- change	S16 Rank	S15 Seats	S16 Seats	+/- change	S16 Rank
Alitalia	1,719	2,036	317	6	171,947	203,600	31,653	5	56	68	12	6	5,600	6,800	1,200	5
Aurigny Air Services	608	674	66	11	31,893	32,352	459	10	20	22	2	11	1,440	1,056	-384	11
BA Cityflyer	18,923	22,669	3,746	1	1,608,265	1,901,576	293,312	1	658	730	72	1	56,108	61,520	5,412	1
Blue Islands	973	984	11	8	46,616	47,232	616	8	32	32	0	9	1,536	1,536	0	8
British Airways	578	626	48	12	18,484	20,098	1,614	12	22	22	0	11	704	704	0	12
Cityjet	10,544	11,062	518	2	887,721	1,003,190	115,469	2	372	364	-8	2	31,020	32,960	1,940	2
Flybe	5,638	5,618	-20	3	420,426	432,324	11,898	3	262	220	-42	3	20,436	16,712	-3,724	3
Lufthansa	1,106	1,136	30	7	103,933	106,784	2,851	7	40	40	0	8	3,760	3,760	0	7
Luxair	2,265	2,390	125	5	172,145	181,640	9,495	6	80	80	0	5	6,080	6,080	0	6
Malmo Aviation	-	-	0	13	-	-	0	13	10	-	-10	13	950	-	-950	13
MHS Aviation	6	-	-6	13	192	-	-192	13	-	-	0	13	-	-	0	13
SkyWork Airlines	271	736	465	10	13,460	34,558	21,098	9	24	24	0	10	1,200	1,200	0	10
Sun-Air	1,018	856	-162	9	32,571	27,392	-5,179	11	42	42	0	7	1,344	1,344	0	9
Swiss International	3,401	3,234	-167	4	324,118	329,148	5,030	4	108	108	0	4	10,044	10,986	942	4
VLM Airlines	-	-	0	13	-	-	0	13	-	-	0	13	-	-	0	13
Welcome Air	2	-	-2	13	64	-	-64	13	-	-	0	13	-	-	0	13
TOTAL	**47,052**	**52,021**	**4,969**		**3,831,835**	**4,319,894**	**488,059**		**1,726**	**1,752**	**26**		**140,222**	**144,658**	**4,436**	

Operators with 0 'ATMs' in both S15 End & S16 Start schedules are included in the table due to appearing in the S15 Start schedule (either with/without allocated slots).

Peak Week - Allocation and Slot Adjustment Distribution by Operator

Schedule: S16 Start

		SLOT ADJUSTMENTS (MINUTES OFF REQUESTED TIME)														
Operator	S16 allocated ATMs	0	5	10	15	20	25	30	35	40	45	50	55	60	>60	Requests with NO slot allocated
Alitalia	68	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-
Aurigny Air Services	22	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-
BA Cityflyer	730	94.2%	1.6%	2.2%	0.0%	0.0%	0.7%	0.7%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	-
Blue Islands	32	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-
British Airways	22	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-
Cityjet	364	92.3%	3.3%	0.8%	0.0%	0.3%	1.1%	0.3%	0.0%	0.0%	0.5%	0.5%	0.0%	0.0%	0.8%	-
Flybe	220	95.9%	0.9%	0.0%	3.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-
Lufthansa	40	62.5%	37.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-
Luxair	80	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-
Malmo Aviation	-															-
SkyWork Airlines	24	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-
Sun-Air	42	76.2%	0.0%	23.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-
Swiss International	108	73.1%	25.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-
TOTAL	1,752	92.4%	3.9%	1.8%	0.4%	0.1%	0.5%	0.3%	0.0%	0.0%	0.1%	0.1%	0.2%	0.0%	0.2%	-

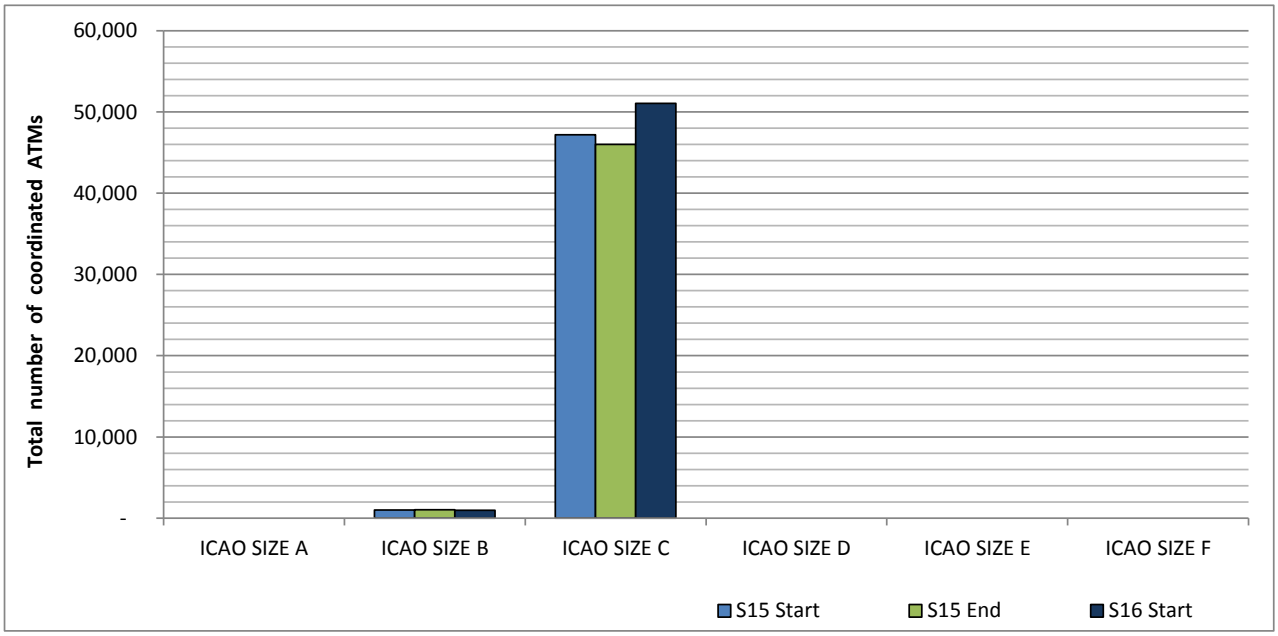
Operators with 0 'allocated ATMs' and 0 'Requests with NO slot allocated' in S16, are included in this list due to having slots allocated in either S15 Start or S15 End schedules.

Significant Route Changes

Operator	Category	Description of change from S15 schedule to S16 schedule
Alitalia	CHANGE	Increase frequency on Milan (LIN) from 22x to 28x per week (new LCY nightstop).
Aurigny Air Services	CHANGE	Increase frequency on Guernsey (GCI) from 10x to 11x per week (cont from W15).
BA Cityflyer	NEW	Plans to commence 16x per week scheduled service to Berlin (TXL) - Jul 16.
BA Cityflyer	NEW	Plans to commence 17x per week scheduled service to Hamburg (HAM) - May 16.
BA Cityflyer	NEW	Plans to commence 4x per week scheduled service to Bergerac (EGC) - May-Sep.
BA Cityflyer	NEW	Plans to commence 4x per week scheduled service to Unspecified (ZZF) - Jul-Sep.
BA Cityflyer	CHANGE	Increases frequency on Faro (FAO) from 4x to 6x per week during Jul-Aug.
BA Cityflyer	CHANGE	Increases frequency on Florence (FLR) from 6x to 7x per week.
BA Cityflyer	CHANGE	Increases frequency on Isle of Man (IOM) from 19x to 27x per week.
Cityjet	NEW	Continue their 18x per week Cork (ORK) service - started Oct 2015.
Cityjet	NEW	Plans to operate a 1x per week charter service to Graz (GRZ) during Jun 16 only.
Cityjet	CHANGE	Reduce frequency on Antwerp (ANR) from 21x to 18x per week.
Cityjet	CHANGE	Reduce frequency on Dublin (DUB) from 43x to 40x per week.
Cityjet	CHANGE	Reduce frequency on Paris (ORY) from 27x to 22x per week.
Cityjet	CHANGE	Reduce frequency on Rotterdam (RTM) from 26x to 19x per week.
Cityjet	CANCELLED	Will not operate any services to Brive (BVE) during Jul - Aug.
Flybe	NEW	Plan to introduce a short term 24x per week Cardiff (CWL) service. This is a rail replacement service operating during Sep - Oct 16.
Flybe	NEW	Plans to introduce 5x per week scheduled service to Paris (CDG).
Flybe	NEW	Plans to introduce 6x per week scheduled service to Rennes (RNS).
Flybe	CHANGE	Increases frequency on Edinburgh (EDI) from 36x to 40x per week.
Flybe	CHANGE	Reduce frequency on Aberdeen (ABZ) from 17x to 12x per week.
Flybe	CHANGE	Reduce frequency on Exeter (EXT) from 12x to 7x per week.
Sun-Air	NEW	Plans to commence 10x per week scheduled service to Bremen (BRE) - Sep 16.
Sun-Air	CANCELLED	Cancel 10x per week scheduled services to Hamburg (HAM) - effective May 16.

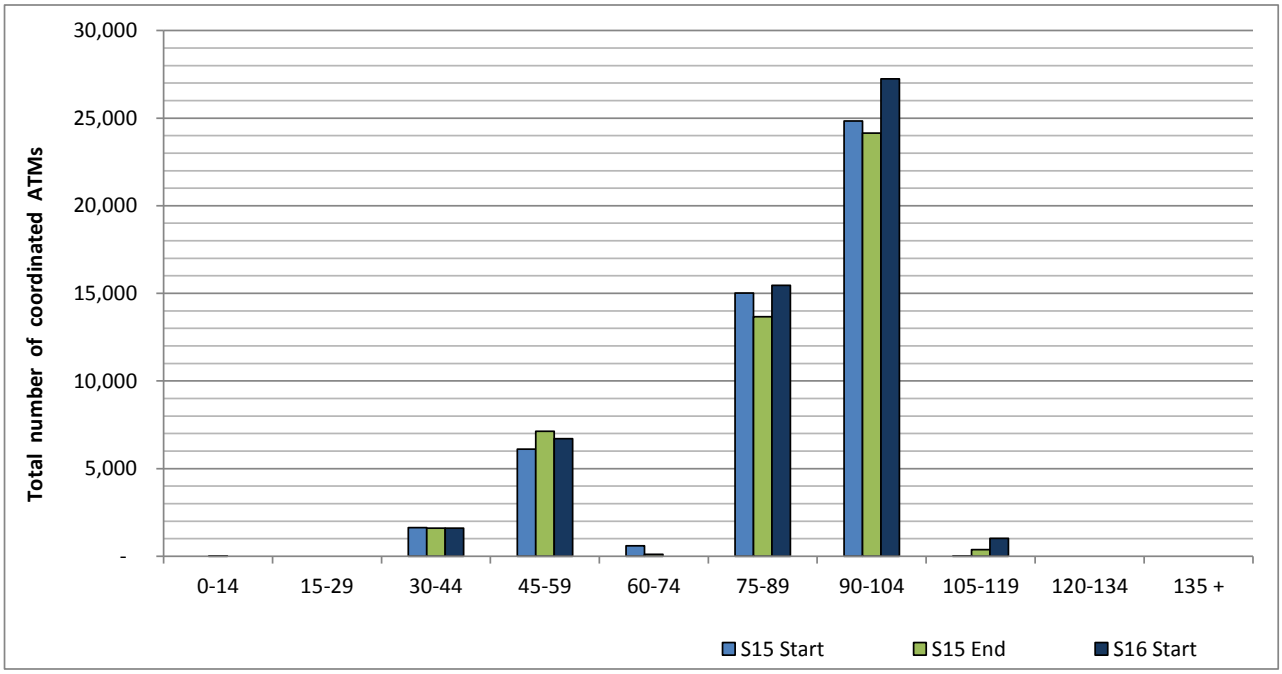
Full Season - Aircraft Size Analysis

ICAO size designation



Note: See Glossary for definitions of ICAO SIZE groupings

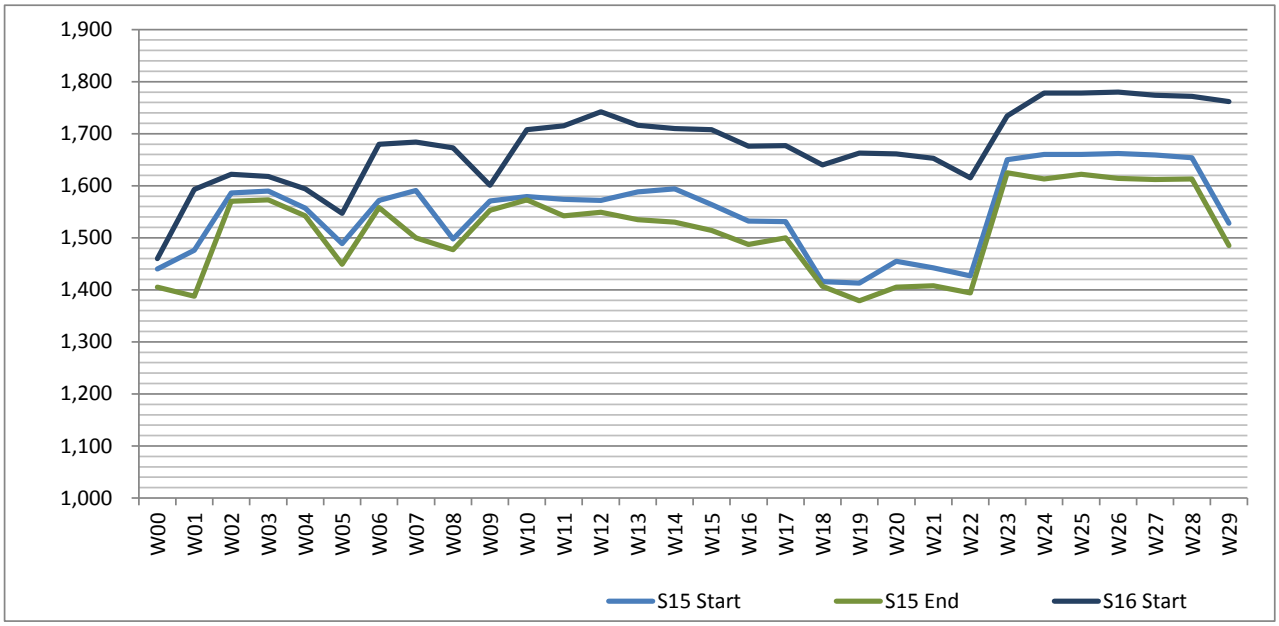
Air Transport Movement seat distribution



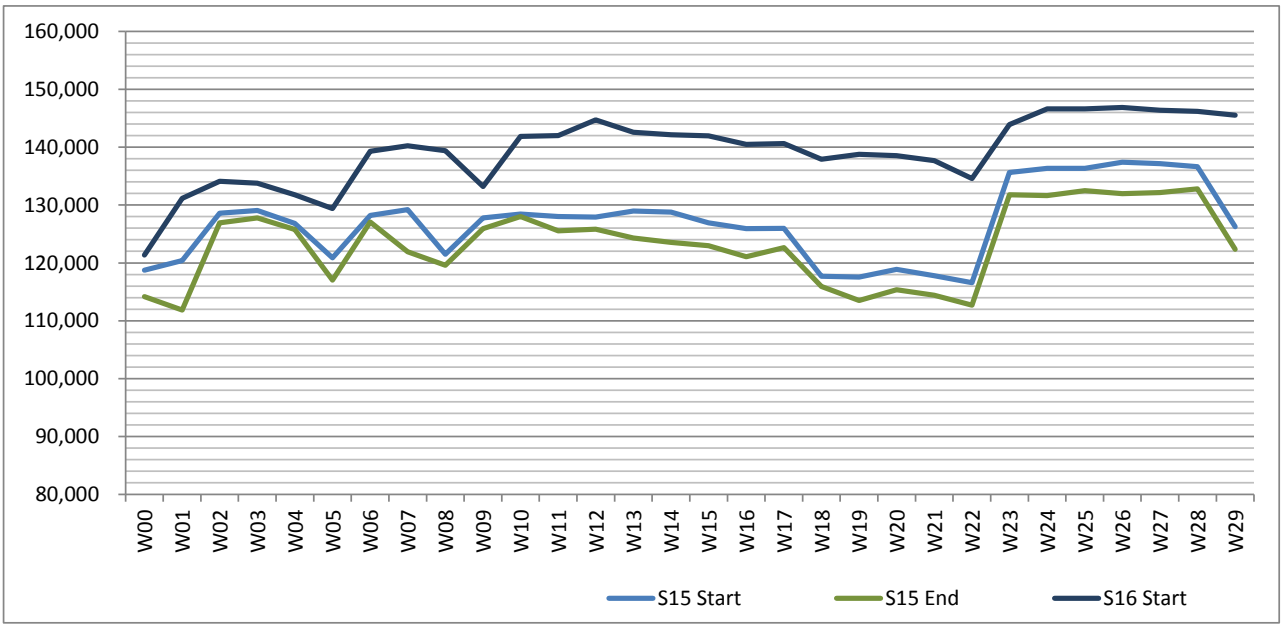
Note: FREIGHT-ONLY services with 0 seats are included in the first seat band '0-14'

Full Season - Seasonality

Air Transport Movements by week of season



Air Transport Movement Seats by week of season

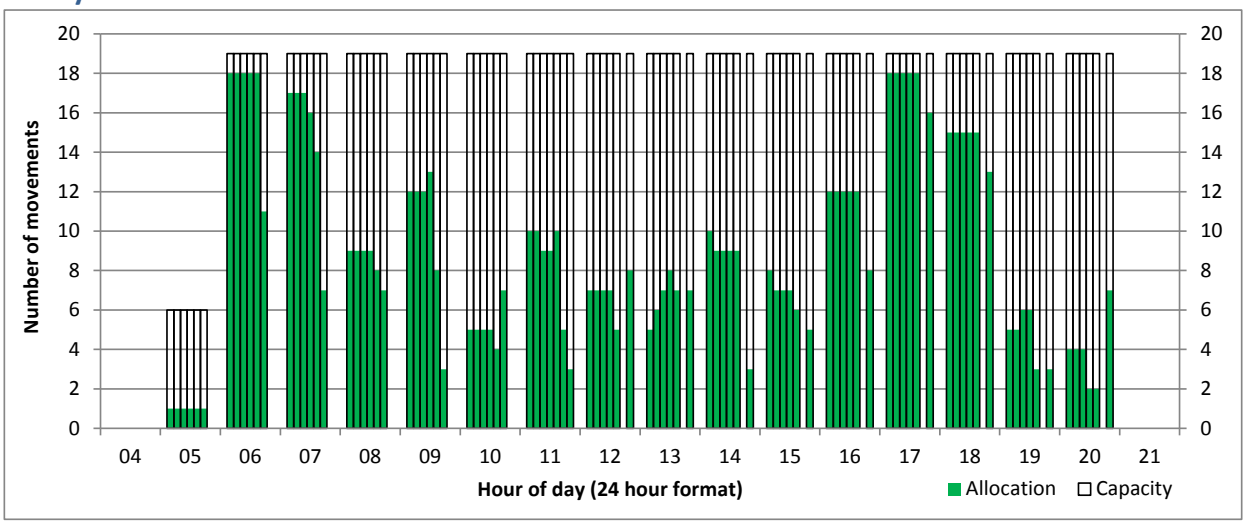


Peak Week - Hourly Runway Allocation

Schedule: S16 Start

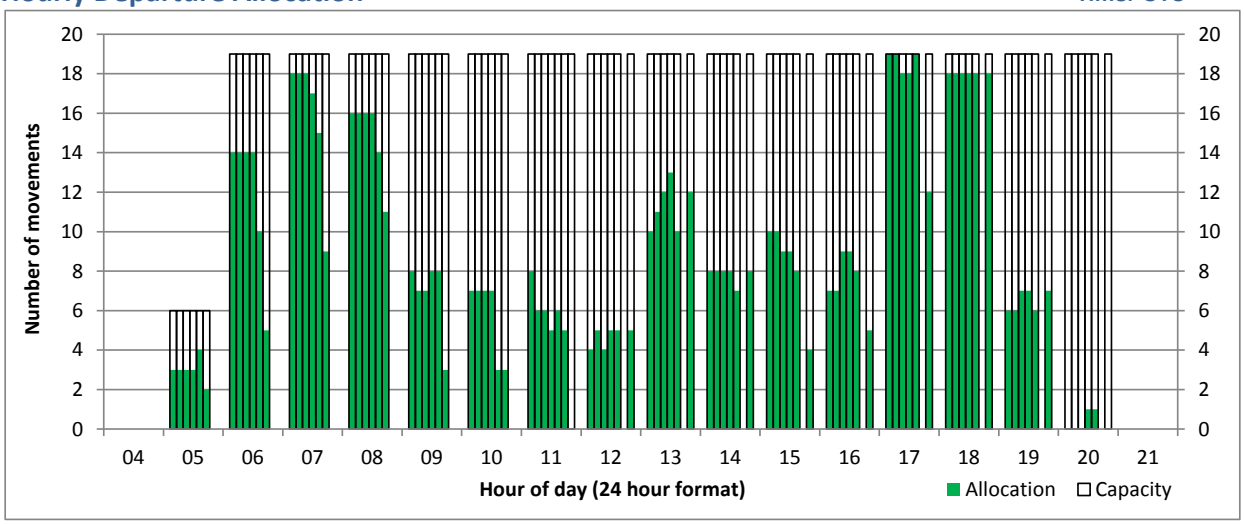
Hourly Arrival Allocation

Time: UTC



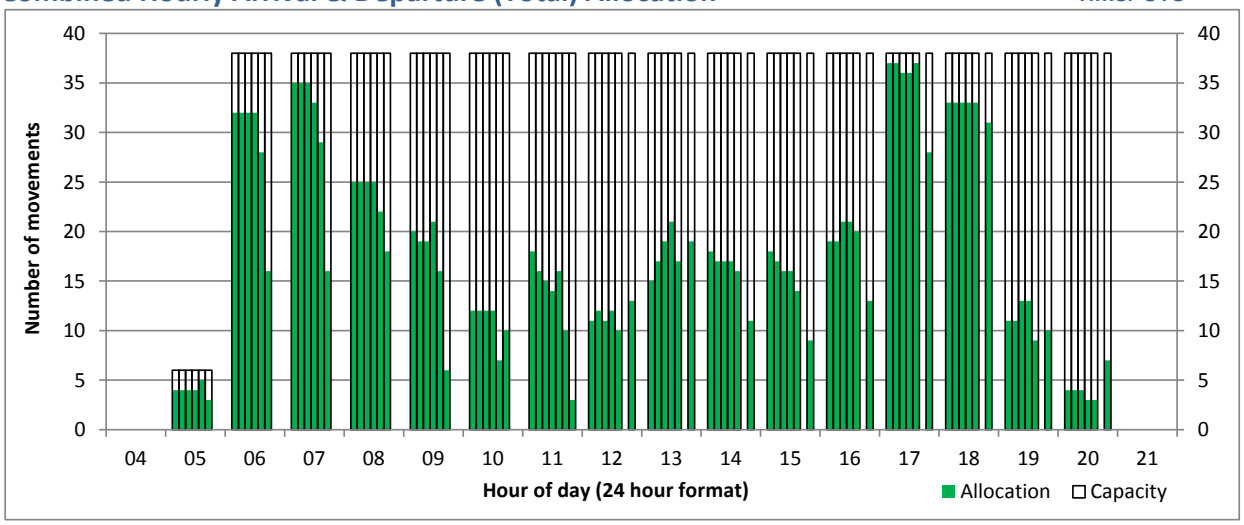
Hourly Departure Allocation

Time: UTC



Combined Hourly Arrival & Departure (Total) Allocation

Time: UTC

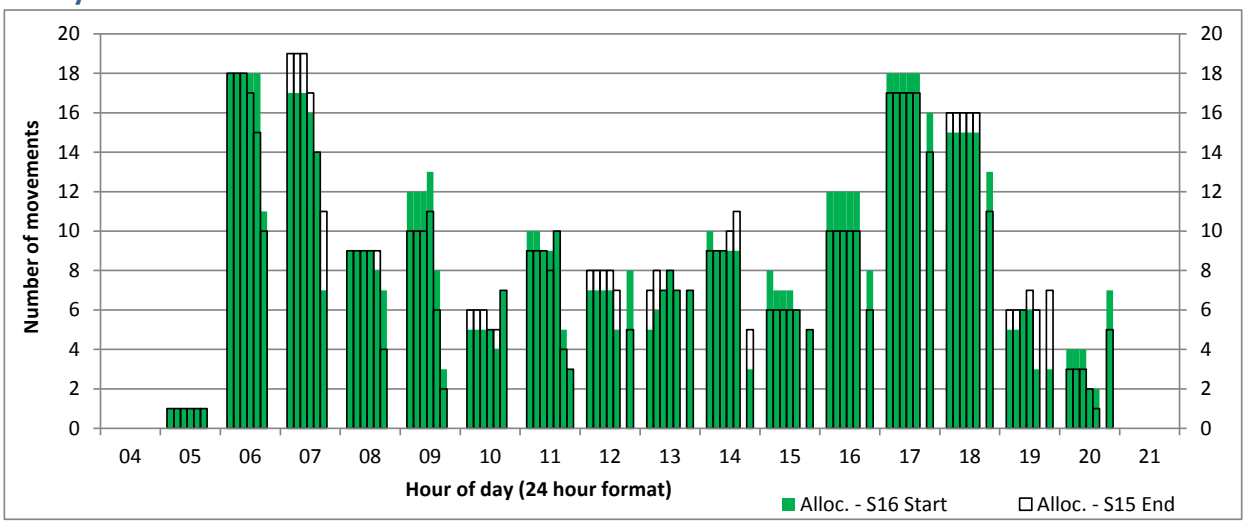


Peak Week - Runway Allocation Comparison

Comparison of S16 Start vs. S15 End

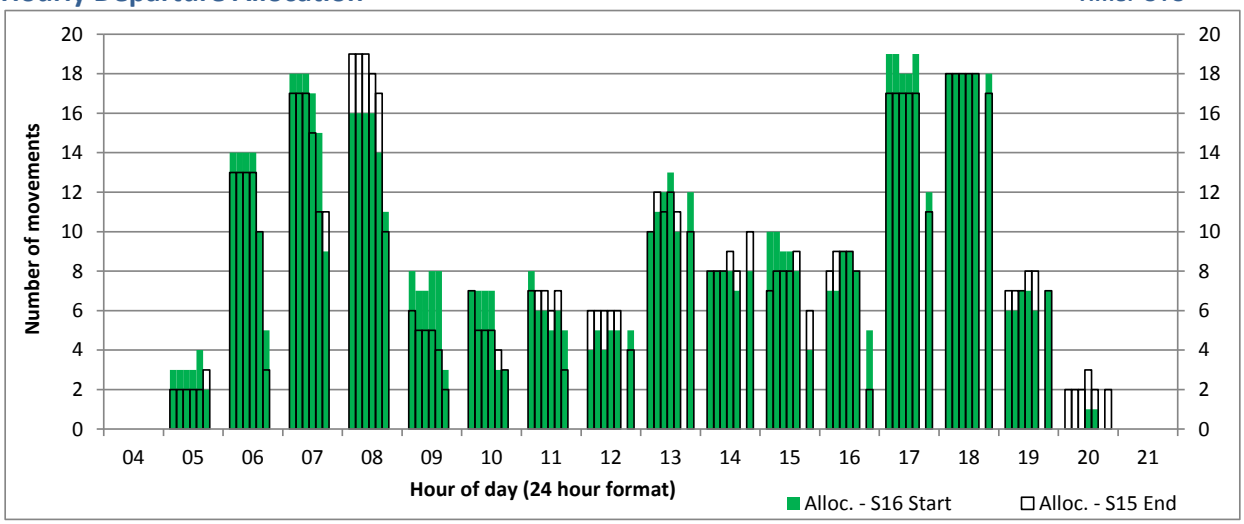
Hourly Arrival Allocation

Time: UTC



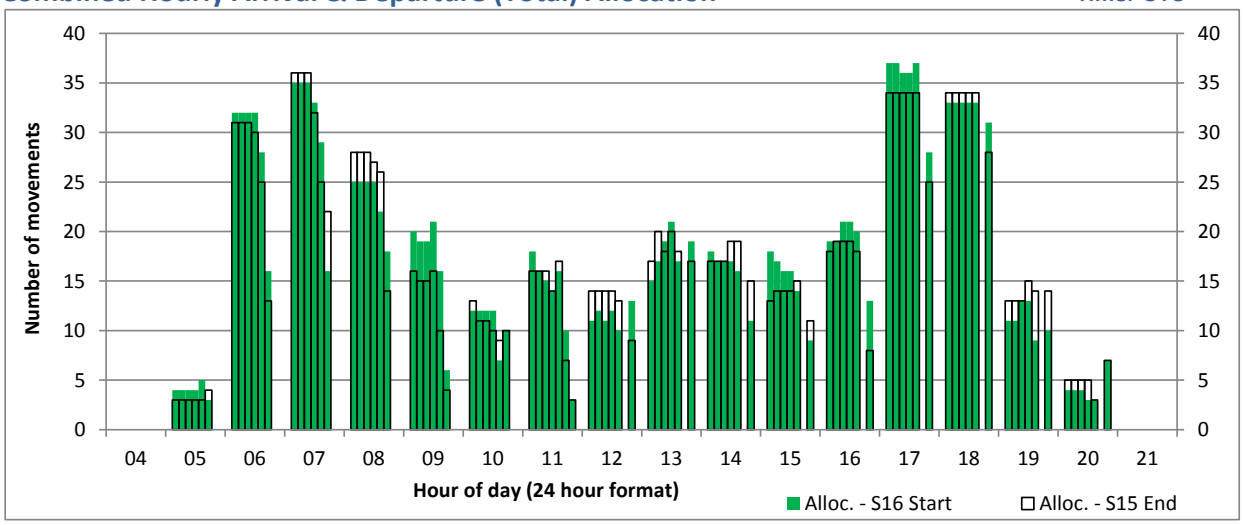
Hourly Departure Allocation

Time: UTC



Combined Hourly Arrival & Departure (Total) Allocation

Time: UTC

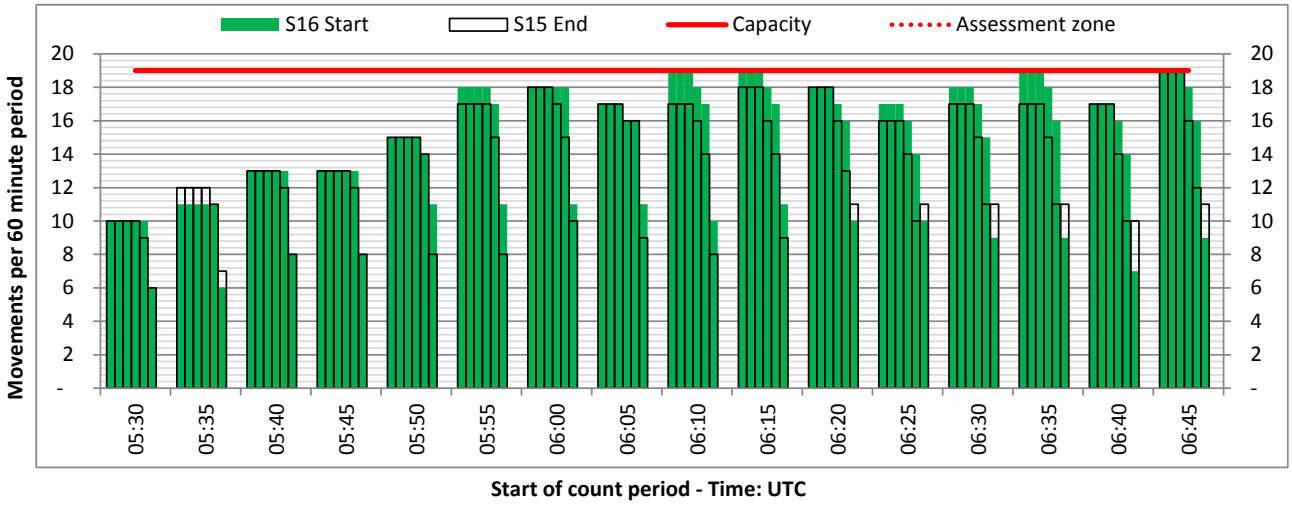


Peak Week - Movements Histogram

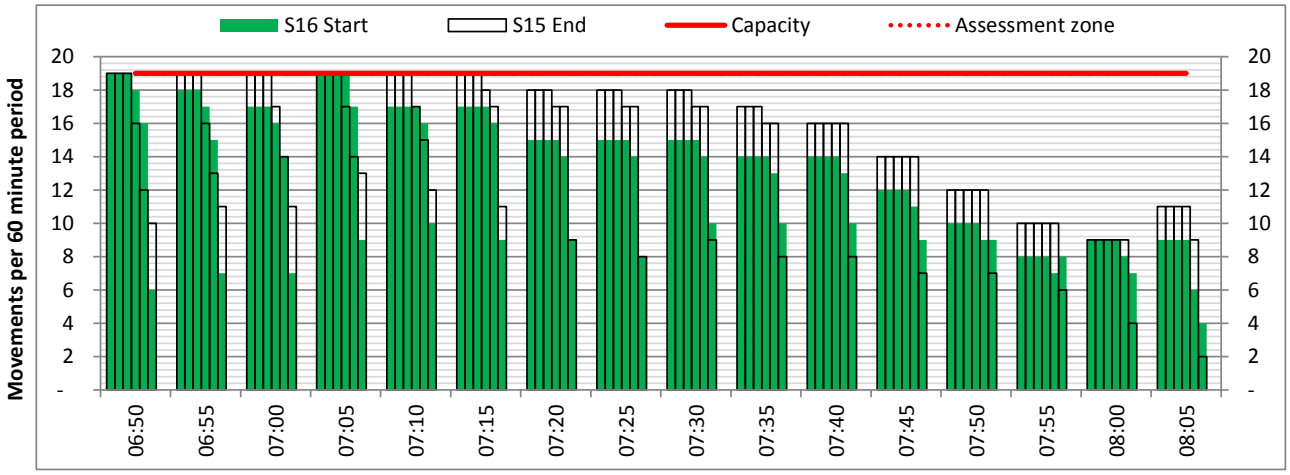
ARRIVAL - 60 minute count rolling every 5 mins (R60/5)

Airport Coordination Limited

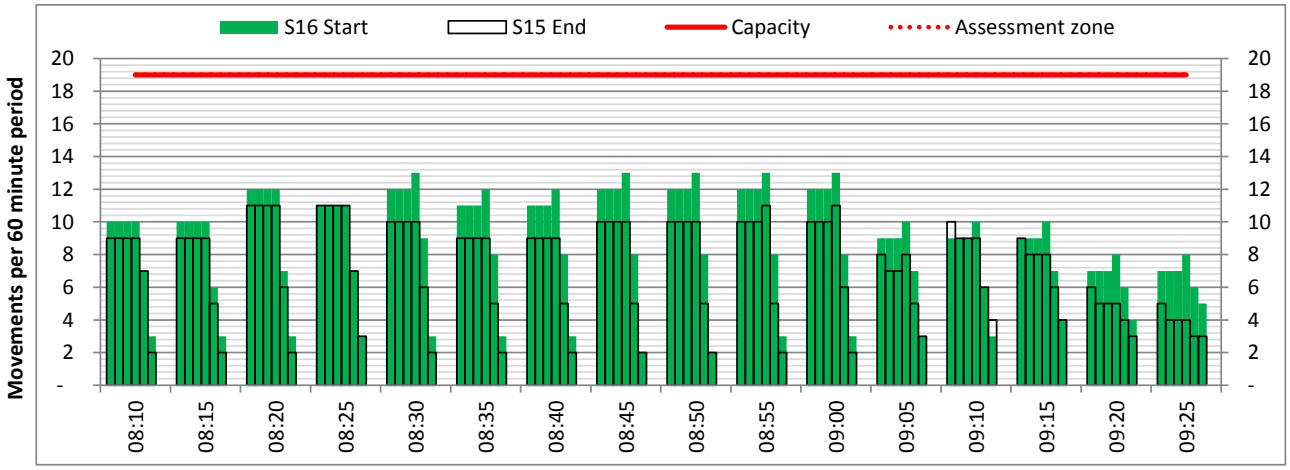
Terminals: All Terminals **Operators: All Operators** **Days: 1234567**



Start of count period - Time: UTC



Start of count period - Time: UTC

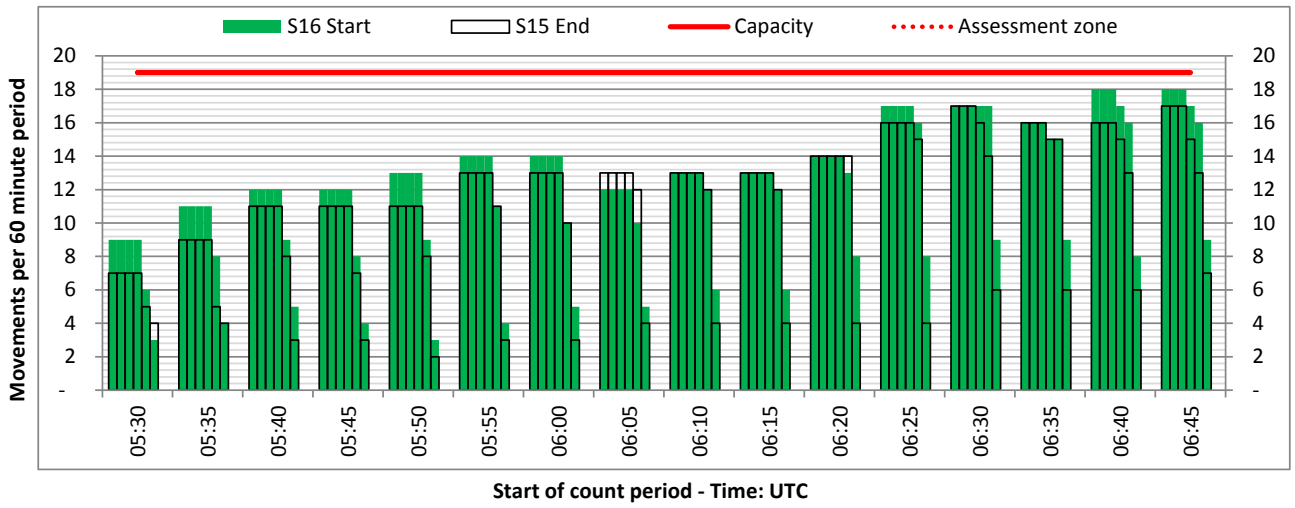


Start of count period - Time: UTC

Peak Week - Movements Histogram

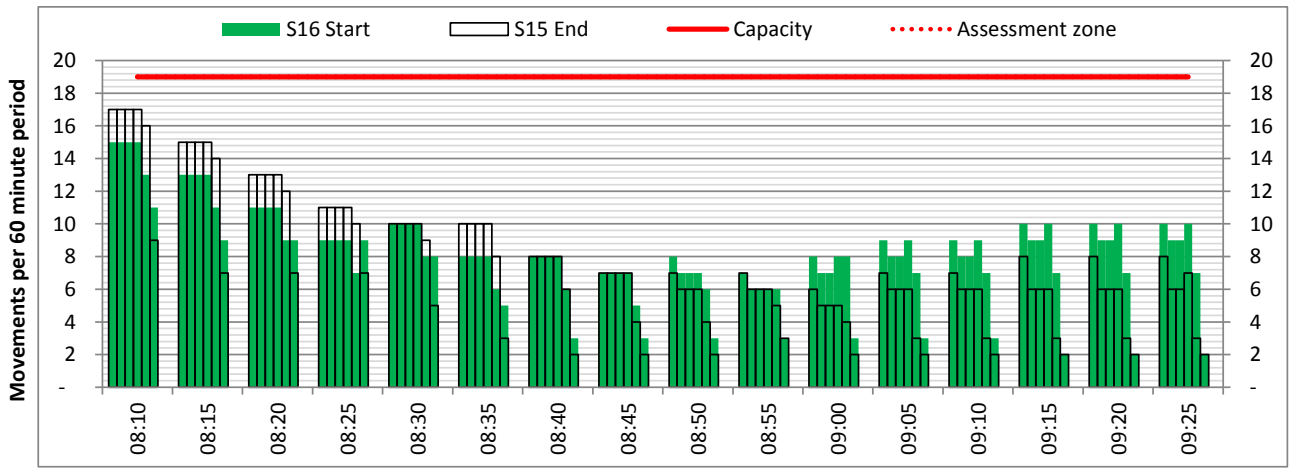
DEPARTURE - 60 minute count rolling every 5 mins (R60/5)

Terminals: All Terminals **Operators: All Operators** **Days: 1234567**



Start of count period - Time: UTC

Start of count period - Time: UTC

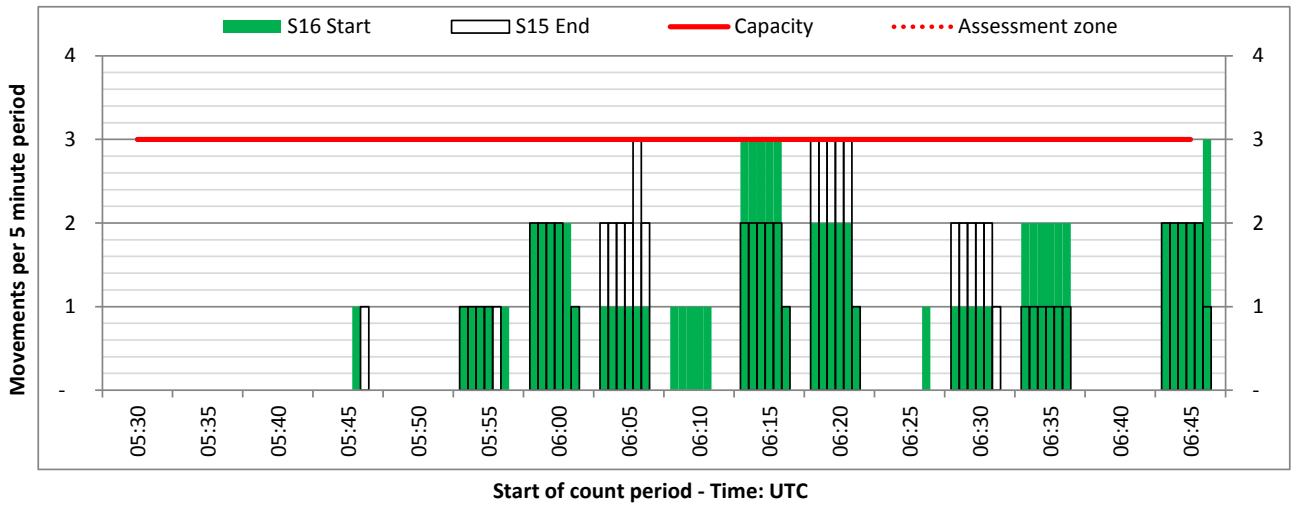


Start of count period - Time: UTC

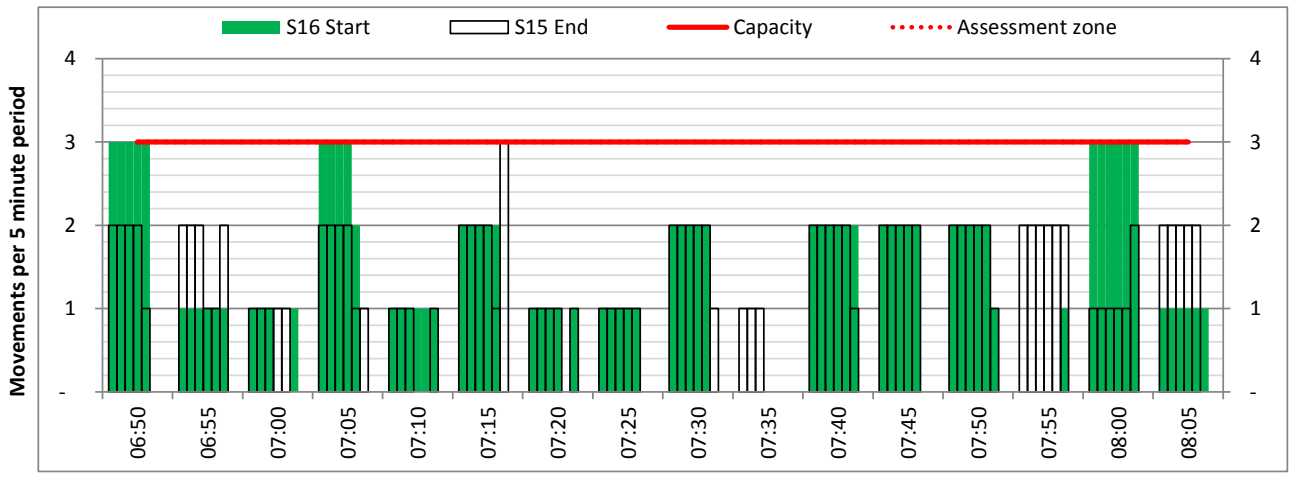
Peak Week - Movements Histogram

ARRIVAL - 5 minute count rolling every 5 mins (R5)

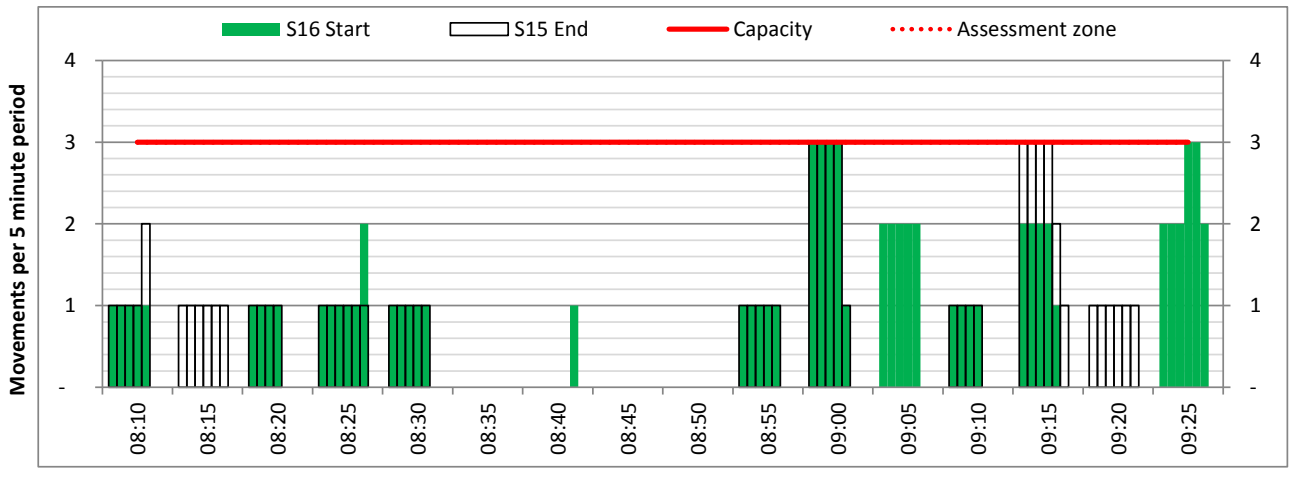
Terminals: All Terminals **Operators: All Operators** **Days: 1234567**



Start of count period - Time: UTC



Start of count period - Time: UTC

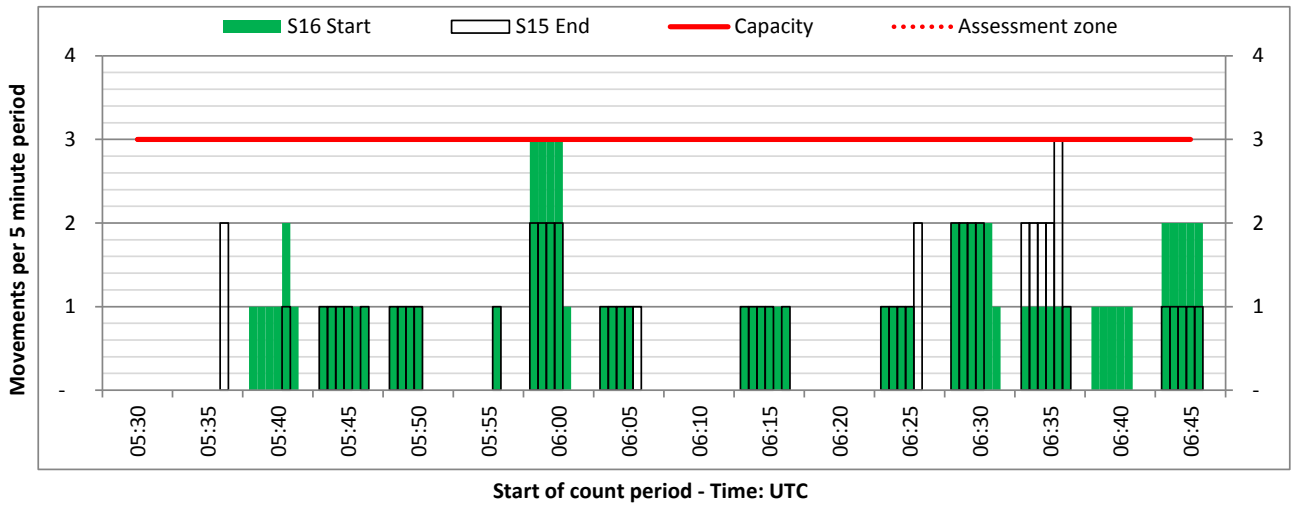


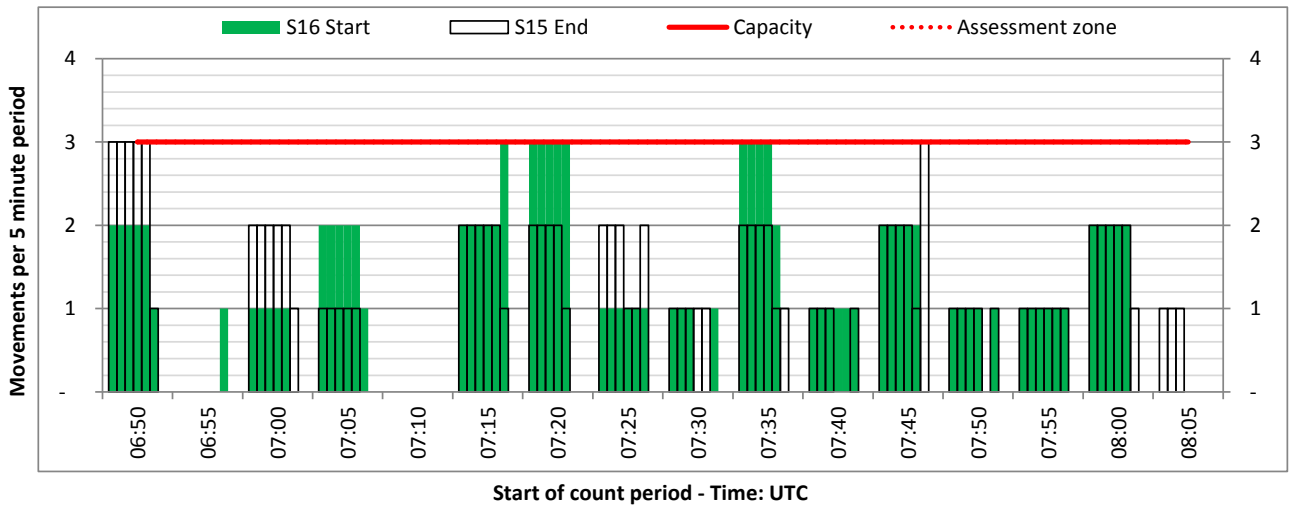
Start of count period - Time: UTC

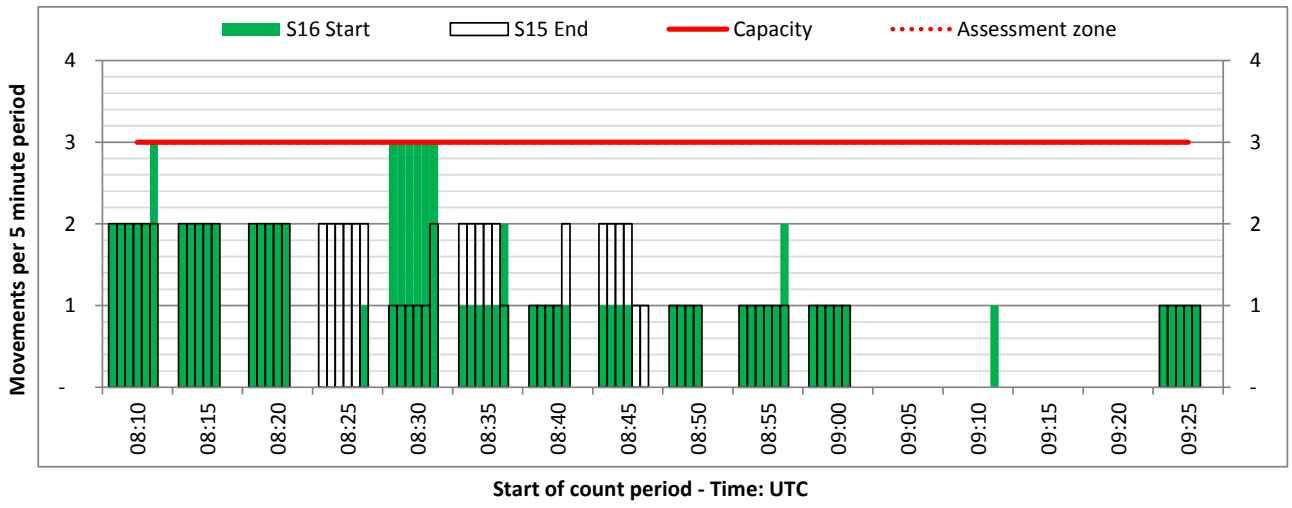
Peak Week - Movements Histogram

DEPARTURE - 5 minute count rolling every 5 mins (R5)

Terminals: All Terminals **Operators: All Operators** **Days: 1234567**





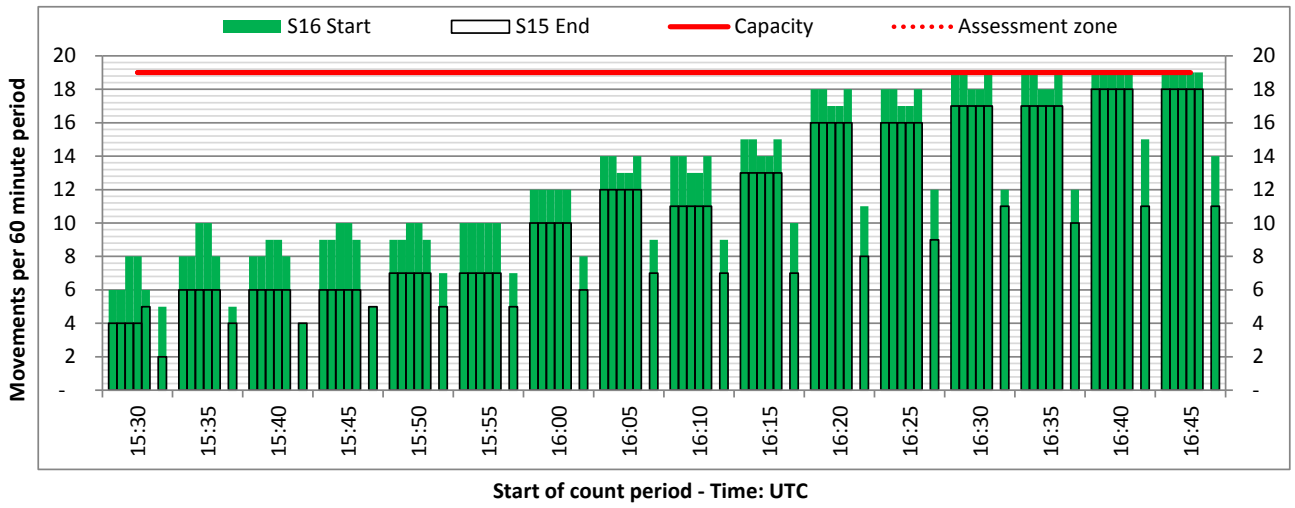


Peak Week - Movements Histogram

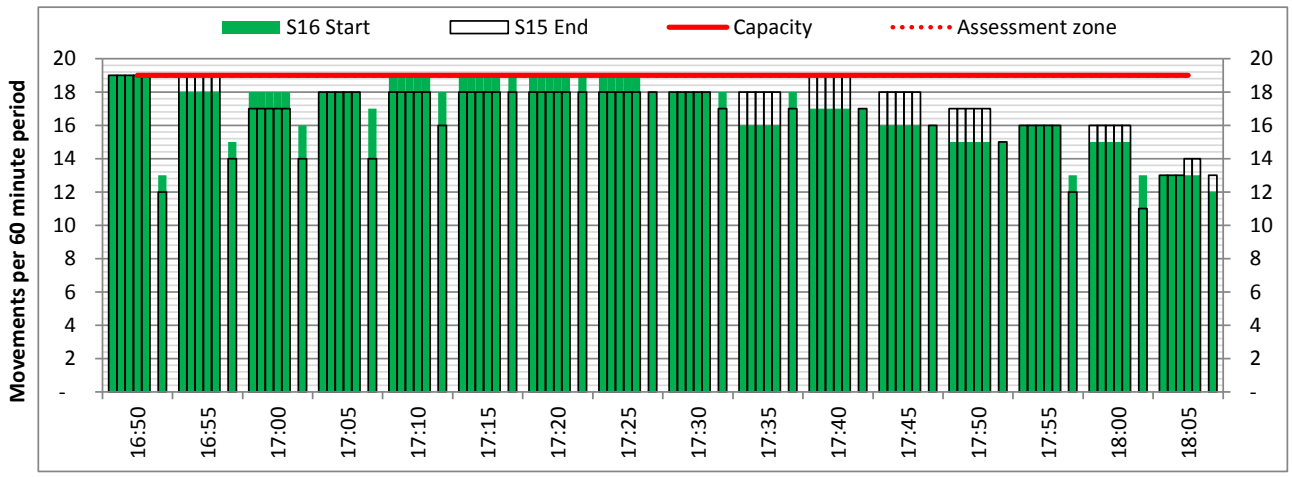
ARRIVAL - 60 minute count rolling every 5 mins (R60/5)

Airport Coordination Limited

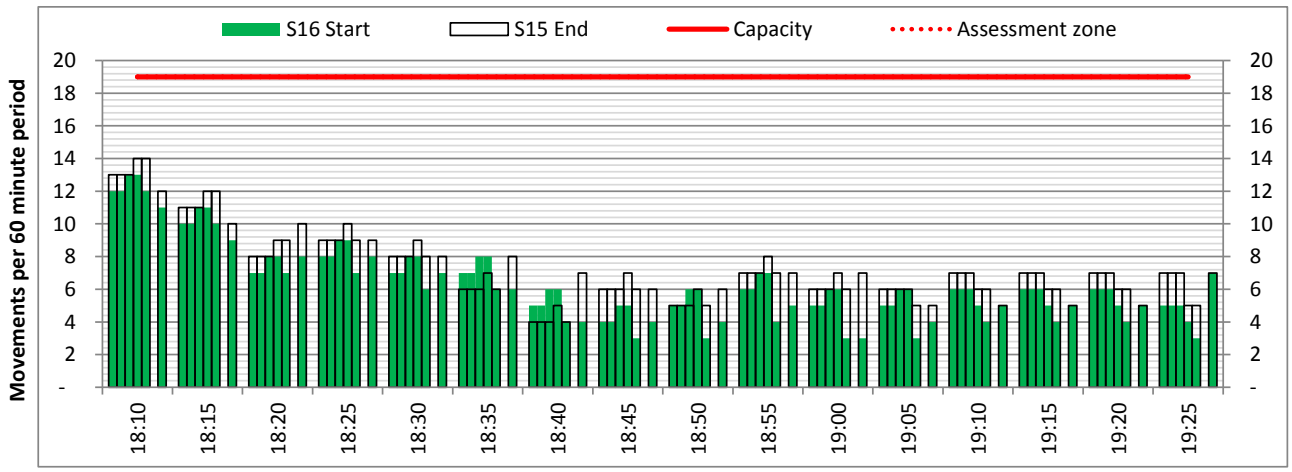
Terminals: All Terminals **Operators: All Operators** **Days: 1234567**



Start of count period - Time: UTC



Start of count period - Time: UTC



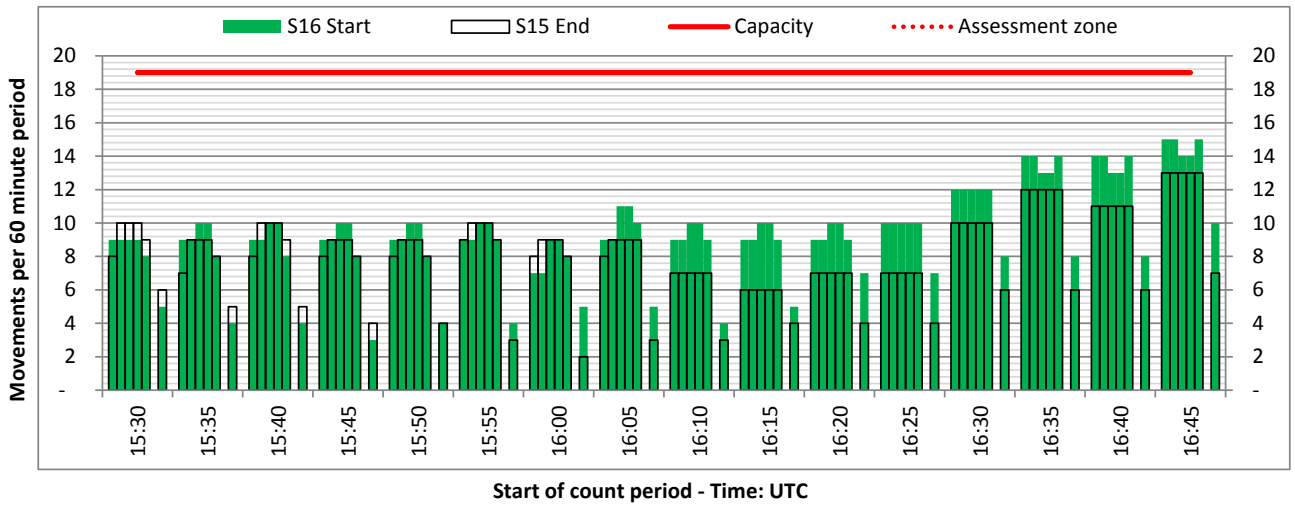
Start of count period - Time: UTC

Peak Week - Movements Histogram

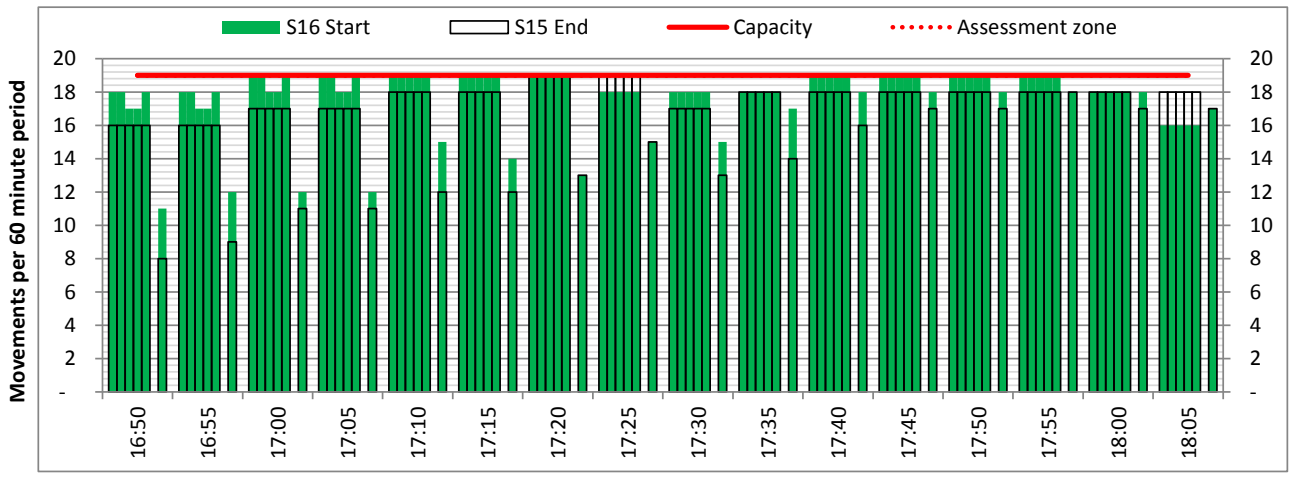
DEPARTURE - 60 minute count rolling every 5 mins (R60/5)

Airport Coordination Limited

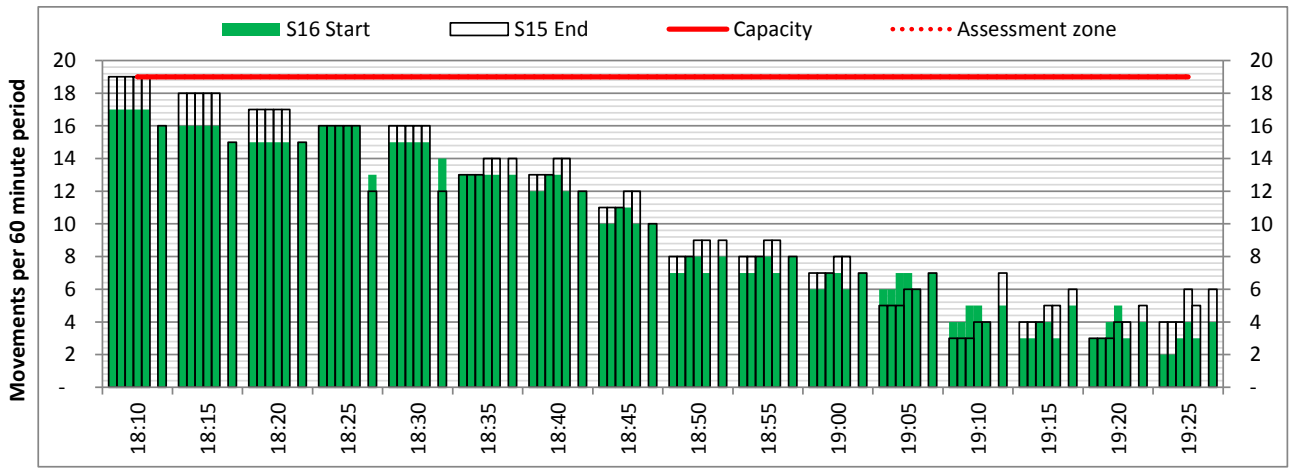
Terminals: All Terminals **Operators: All Operators** **Days: 1234567**



Start of count period - Time: UTC



Start of count period - Time: UTC



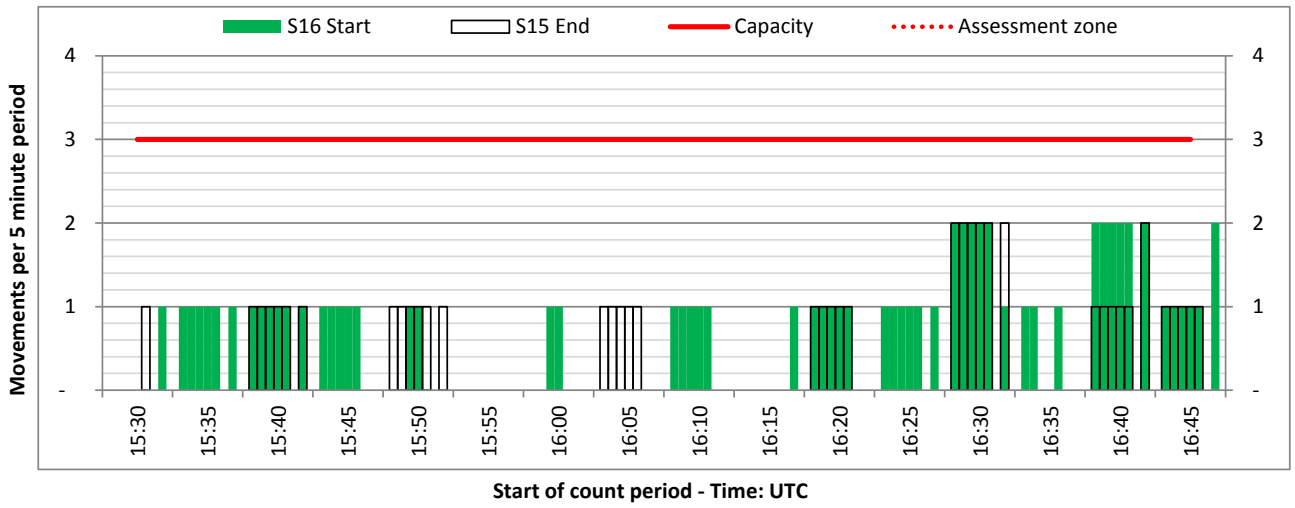
Start of count period - Time: UTC

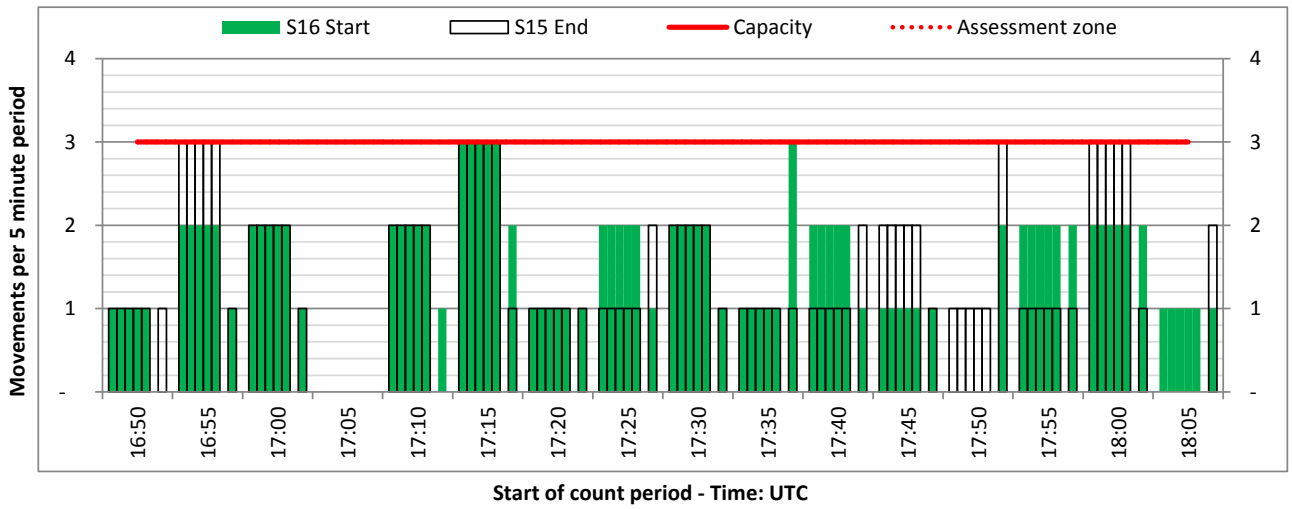
Peak Week - Movements Histogram

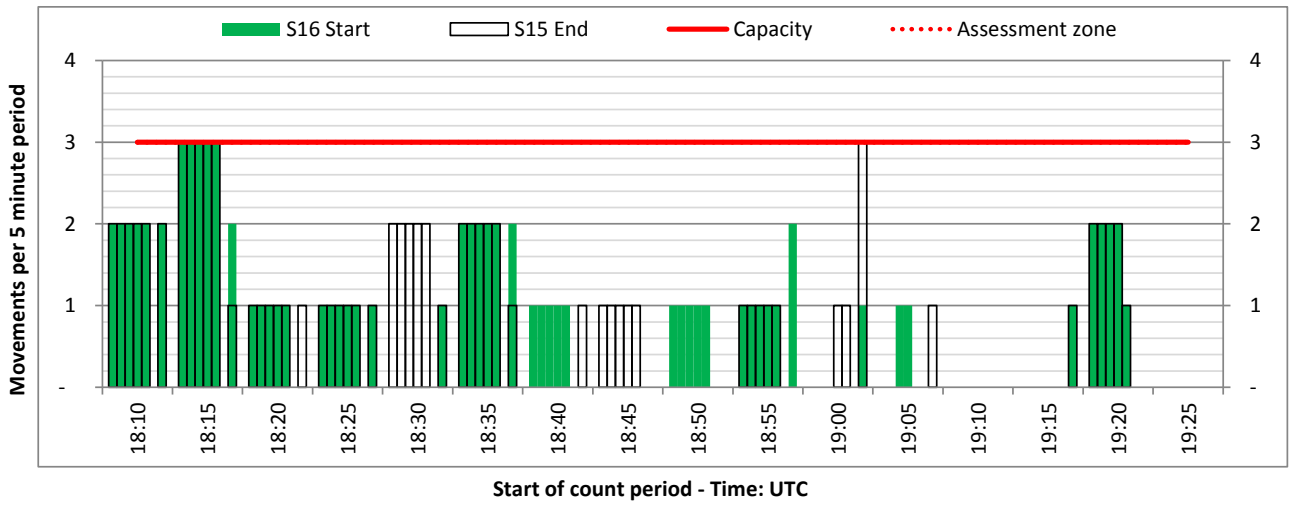
ARRIVAL - 5 minute count rolling every 5 mins (R5)

Airport Coordination Limited

Terminals: All Terminals **Operators: All Operators** **Days: 1234567**



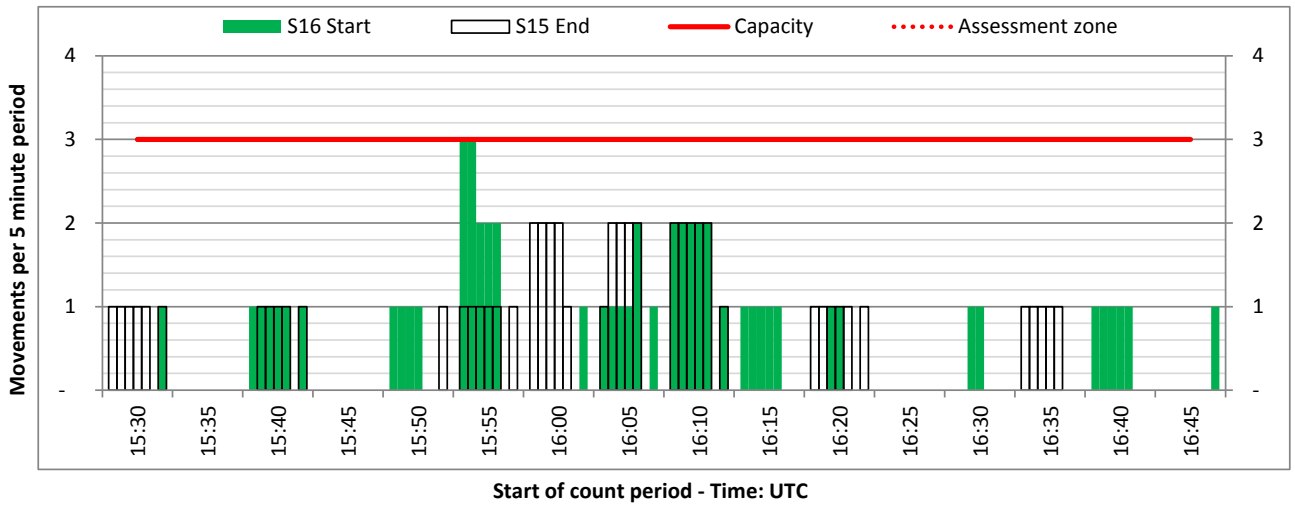


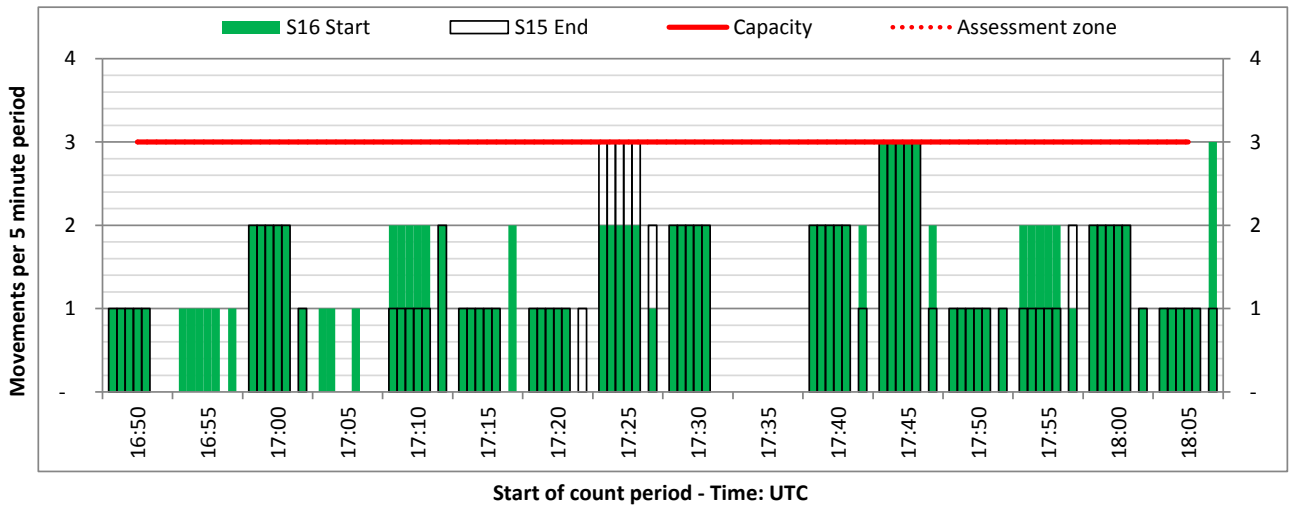


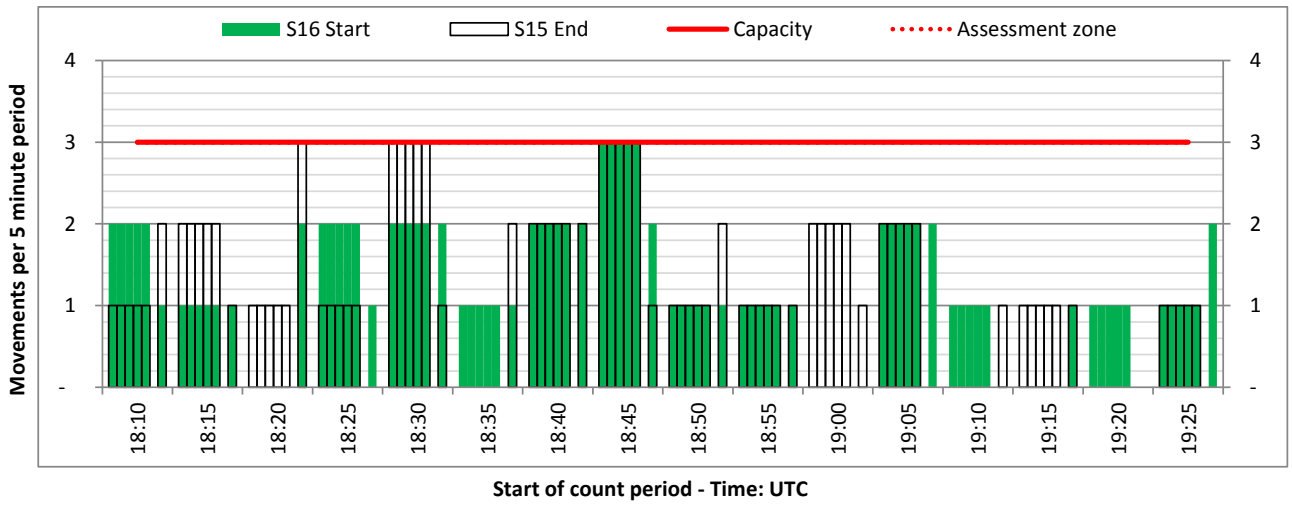
Peak Week - Movements Histogram

DEPARTURE - 5 minute count rolling every 5 mins (R5)

Terminals: All Terminals **Operators: All Operators** **Days: 1234567**







Glossary

Air Transport Movement (ATM)	Any aircraft movement which is either a scheduled or chartered passenger or cargo flight.
Common Travel Area (CTA)	Origin or Destination is in Republic of Ireland or the Channel Islands.
Demand	Unconstrained demand before any schedule adjustments have been made.
"Fill-in"	These are gaps in a historic series of slots which the carrier requests to "Fill-in" at Initial Submissions - Fill-ins will be recognisably part of the historic series and will have the same flight details to qualify as a "Fill-in".
Hist (SHL)	Snapshot of historic schedule rolled over from end of the previous equivalent season - as advised to airlines in the SHLs.
ICAO Size A	Aircraft with wingspan between 0.00m - 14.99m.
ICAO Size B	Aircraft with wingspan between 15.00m - 23.99m.
ICAO Size C	Aircraft with wingspan between 24.00m - 35.99m.
ICAO Size D	Aircraft with wingspan between 36.00m - 51.99m.
ICAO Size E	Aircraft with wingspan between 52.00m - 64.99m.
ICAO Size F	Aircraft with wingspan between 65.00m - 80.00m.
Init Coord	Snapshot of schedule immediately after Initial Coordination is completed - as advised to airlines in the SALs.
Passenger Air Transport Movement (PATM)	Any aircraft movement which is either a scheduled or chartered passenger flight.
Start	Snapshot of schedule shortly before the start of the scheduling season (exact date given below where used).
Time: Local	Times shown are in LOCAL time for the airport/scheduling season.
Time: UTC	Times shown are in Universal Time Constant (UTC).

Data snapshot descriptions

S15 Start	S15 schedule as cleared on Tue 24-Mar-15.
S15 End	S15 schedule as cleared on Tue 27-Oct-15.
S16 Start	S16 schedule as cleared on Tue 22-Mar-16.
Peak Week	Peak week for S15 is Mon 21-Sep-15 to Sun 27-Sep-15. Peak week for S16 is Mon 19-Sep-16 to Sun 25-Sep-16.

For ACL use

	Airport-Season-Branch-Resource	From date	To date	Time
Full Season Rep 1	LCY-S15-SOS Report - Live-Standard	Sun 29-Mar-2015	Sat 24-Oct-2015	UTC
Full Season Rep 2	LCY-S15-Live-End with CJ and EZ-Standard	Sun 29-Mar-2015	Sat 24-Oct-2015	UTC
Full Season Rep 3	LCY-S16-SOS Report - Live-Standard	Sun 27-Mar-2016	Sat 29-Oct-2016	UTC
	Airport-Season-Branch-Resource	From date	To date	Time
Peak Week Rep 1	LCY-S15-SOS Report - Base-Standard	Mon 21-Sep-2015	Sun 27-Sep-2015	UTC
Peak Week Rep 2	LCY-S16-SHL-Standard	Mon 19-Sep-2016	Sun 25-Sep-2016	UTC
Peak Week Rep 3	LCY-S16-SOS Report - Base-Standard	Mon 19-Sep-2016	Sun 25-Sep-2016	UTC