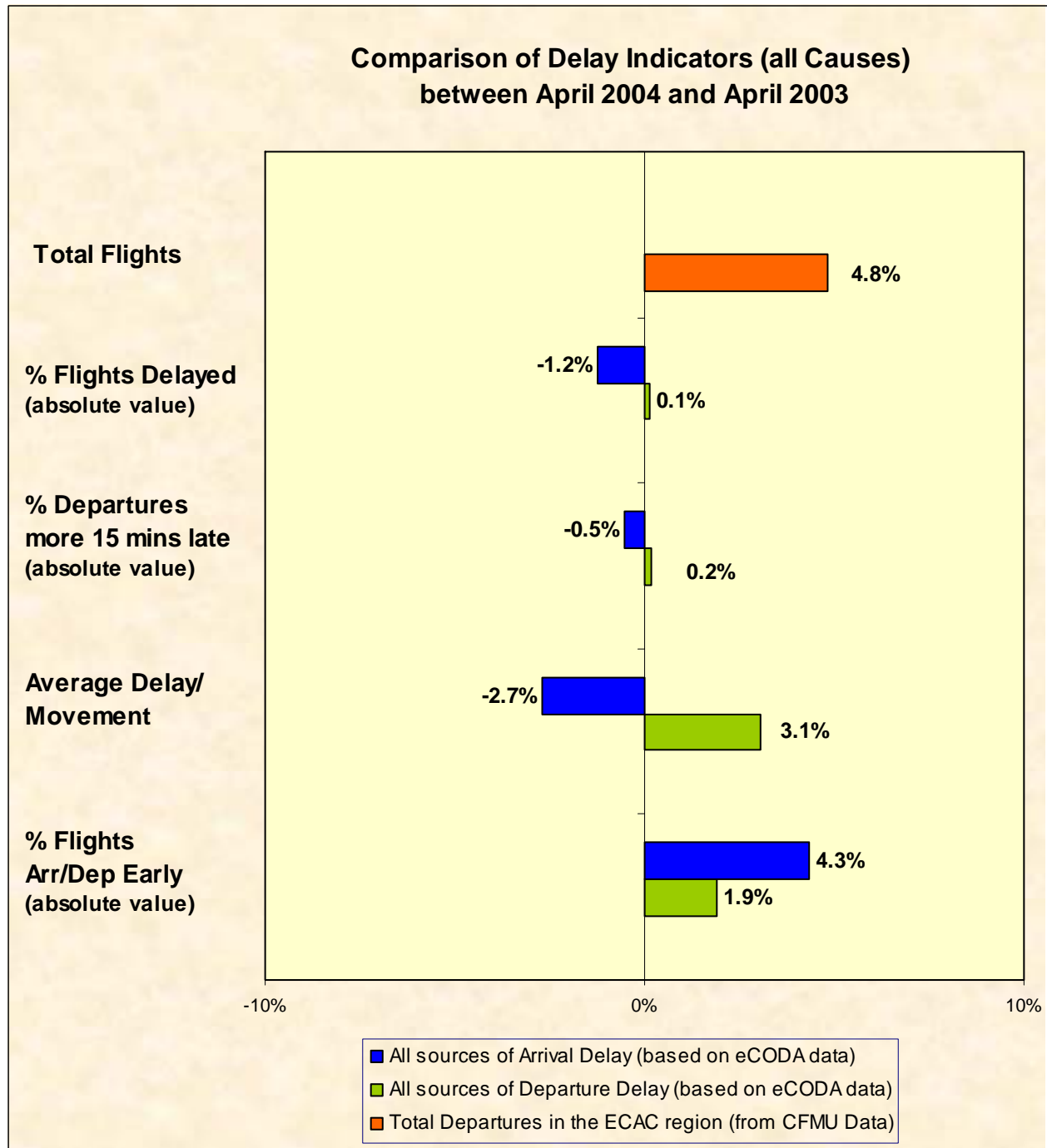


Delays to Air Transport in Europe April 2004



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FOREWORD

This report represents an overview of the delay situation in the European Civil Aviation Conference Area. It is based on delay data supplied by the CFMU and airline data from eCODA, and has been prepared by the Central Office for Delay Analysis (CODA), a service of the European Air Traffic Management Programme (EATMP).

The report consists of an overview of the reporting period, a summary of the main delay effects, and a series of charts and graphics, which illustrate the main characteristics of the reporting period. A glossary of terms and abbreviations used throughout the report is given in Annex 2.

In this report the definition of the CFMU ATFM departure delay is based on the difference between the scheduled off-block time and the calculated off-block time, taking into account slot time and estimated taxi time. Airline data from eCODA is based on real recorded delays.

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1. SUMMARY OVERVIEW

Departures in the ECAC region continued to increase in April, with a significant rise over 2003. The Average Delay per Movement, due to all causes of delay, for departure traffic, increased by three percent to seven and a half minutes. By comparison, arrivals had a decrease of almost three percent, to just eight minutes. ATFM delay fell significantly by twenty four percent, with the Average Delay per Movement falling by twenty seven percent to just one minute.

For the first four months of the year, traffic increased by three percent, with delayed flights due to all causes, staying the same for departures and falling by three percent for arrivals. The number of flights delayed by more than fifteen minutes rose by three and a half percent for departures and fell by half a percent for arrivals. On the plus side, compared with the same period of last year, seven percent of the flights left early and four percent landed early. Turning to delays, the Average Delay per Movement was just under ten minutes for departures and just over ten minutes for arrivals. Total ATFM delay fell by five percent, with the Average Delay per Movement falling by almost eight percent to one and a half minutes.

TRAFFIC SITUATION FOR APRIL 2004¹

When compared with April 2003, traffic throughout the ECAC region increased by five percent and although the total number of flights was slightly less than last month; with over seven hundred thousand flights, it was the highest April figure since 1996. Domestic traffic increased by less than one percent whereas International traffic rose by eight percent. Over ninety percent of the busier countries had an increase in International traffic, with the largest real increase in the United Kingdom, followed by France, Germany, Turkey and Spain and the largest real decrease in Cyprus. Turkey and the United Kingdom had the largest rises in domestic traffic while France and Germany had significant real decreases.

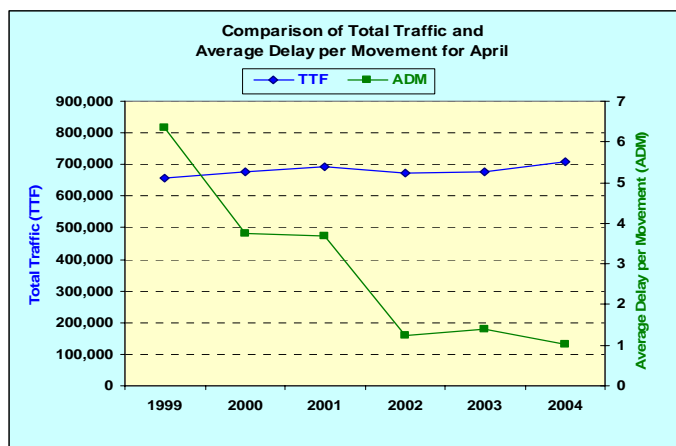
Among the busier airports (those with at least two thousand five hundred flights per month), more than eighty percent saw an increase in traffic, with twenty four percent having a double figure increase. The largest real increases were at Istanbul, London/Stansted, Paris/Orly, Athens and Vienna. At the other end of the scale, Nice, Cologne and Berlin had the largest decreases.

The busiest city pair in April was Madrid-Barcelona with around one thousand and eight hundred flights in each direction, but was nevertheless down six percent on last year. Milan/Linate-Rome was the only other pair with more than one thousand flights in each direction. Almost sixty percent of the busier pairs had an increase in the number of flights and thirty two percent of them had a rise of more than ten percent. Milan/Linate-Rome had the largest real increase and was followed by Stockholm-Gotenborg and Nice-Paris/Orly. At the other end of the scale, Cologne-Berlin and Barcelona-Madrid had the largest decreases.

¹ The analysis was based on the CFMU database which contains details on all IFR flights in the ECAC region.

ATFM DELAY SITUATION FOR APRIL 2004

Delays due solely to ATFM measures showed a significant decrease and were down twenty four percent on April last year. The Average Delay per Movement also fell by twenty seven percent to just one minute. ATC Capacity was responsible for half of all the ATFM delay and was followed by Airport Capacity (seventeen percent) and weather (fifteen percent).



Delayed flights decreased by eleven percent, with the percentage of flights delayed falling by one percentage point to just over six percent. Flights delayed by more than fifteen minutes decreased by twenty one percent, with flights delayed by more than one hour falling by seventy two percent.

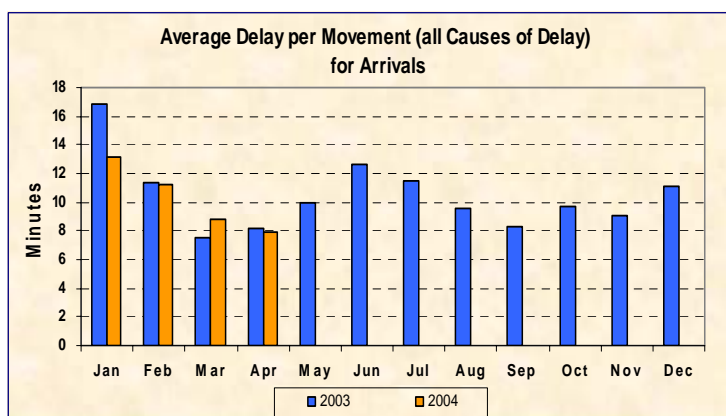
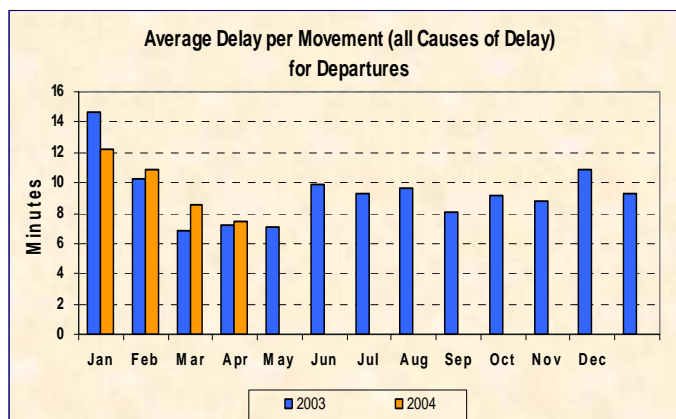
Not all ATFM delay was due to ATC: forty eight percent of the total ATFM delay in the ECAC region was caused by regulations put in place to protect airports. Compared with April 2003, the share of the delay due to these restrictions increased by four percentage points and the actual amount of the delay was down eighteen percent. The airports of Zurich, London, Barcelona and Rome were the most affected by airport-related regulations. Almost forty percent of the airport-related ATC delay was due to Airport Capacity, followed by Weather (thirty one percent) and ATC Capacity (fifteen percent).

Based on the locations of the most penalising regulations, traffic (including overflights) using the airspace of the United Kingdom, Switzerland, France and Italy had the largest share of the ATFM delay. Between them, they accounted for almost sixty percent of the total ATFM delay in the ECAC region. Compared with April last year, Spain, Switzerland, Austria and Czech Republic had the largest increases, with Italy, France and Germany having the largest decreases.

When the traffic handled is taken into account (again including overflights), Switzerland, Italy the United Kingdom and Cyprus were the most penalising countries, but Switzerland was the only country with an Average Delay per Movement exceeding one minute. Compared with April last year, no country had an increase or a decrease of one minute or more; the Czech Republic had the largest rise and Italy the largest fall.

eCODA DATA FOR APRIL 2004

The Average Delay per Movement for departure traffic, for all causes of delay, continued the seasonal downward trend since the beginning of 2004; however, with almost seven and a half minutes, this was an increase of three percent on April last year. Thirty five percent of flights were delayed on departure, with thirteen percent delayed by more than fifteen minutes. On the other hand, fourteen percent of flights departed before their scheduled time.



The Average Delay per Movement for arrival traffic, for all causes of delay, was eight minutes, also less than for the first three months of the year and a decrease of almost three percent on April 2003. Thirty four percent of flights were delayed on arrival, with fourteen percent delayed by more than fifteen minutes. On the other hand, thirty seven percent of flights landed before their scheduled time.

Among the busier airports, only four of them had an Average Delay per Movement of more than ten minutes, with Paris/Orly having the largest (thirteen minutes), followed by Prague, Rome and Paris/Charles de Gaulle. Compared with April 2003, more than one third of the airports had an increase in average delay of more than one minute. Amsterdam had the largest rise (five minutes) and was followed by Paris/Orly and Bristol. These increases were balanced by a significant decrease at Verona (fourteen minutes), followed by Belfast, Malaga and Rome. In all, a quarter of the airports had a decrease in average delay of more than one minute. As in the previous months, all the airports had a proportion of their flights departing before their scheduled time, with Alicante having the largest (forty percent) and Copenhagen the lowest (five percent).








As for the busier airports as destinations, traffic arriving at Prague had the largest Average Delay per Movement, with twenty two minutes and was followed by Verona (seventeen minutes), Bologna (fourteen minutes) and Seville (eleven minutes). Compared with April last year, forty one percent of the busier airports had an increase in average delay of one minute or more, with the largest (up six minutes) at Verona, followed by Seville, Vienna and Bologna. At the other end of the scale, there was a large decrease at London/Stansted (down fourteen minutes), followed by Belfast and Rome. Thirty one and a half percent of the airports had a decrease in average delay of more than one minute. As with departures, all the airports had a proportion of their flights landing before their scheduled time, with Belfast having the largest (sixty two percent) and Verona the lowest (twenty percent).

The most affected city pair, due to all causes of delay, was New York-London/Heathrow (eighteen minutes), followed by Paris/Charles de Gaulle-Prague (seventeen and a half minutes), Paris/Orly-Montpellier (sixteen minutes) and Rome-Madrid (fifteen minutes). Compared with April 2003, more than half of the city pairs had an increase in Average Delay per Movement, with thirty six percent having a rise of more than one minute. The largest increase was between New York-London/Heathrow (up fourteen minutes), followed by Barcelona-Ibiza, Paris/Orly-Montpellier and Santiago-Madrid. At the other end of the scale, forty six percent of the pairs had a decrease in average delay, with thirty two percent having a fall of one minute or more. The largest decrease was between Milan/Malpensa-Frankfurt (down nine minutes) followed by Aberdeen-London/Heathrow and Madrid-Brussels.

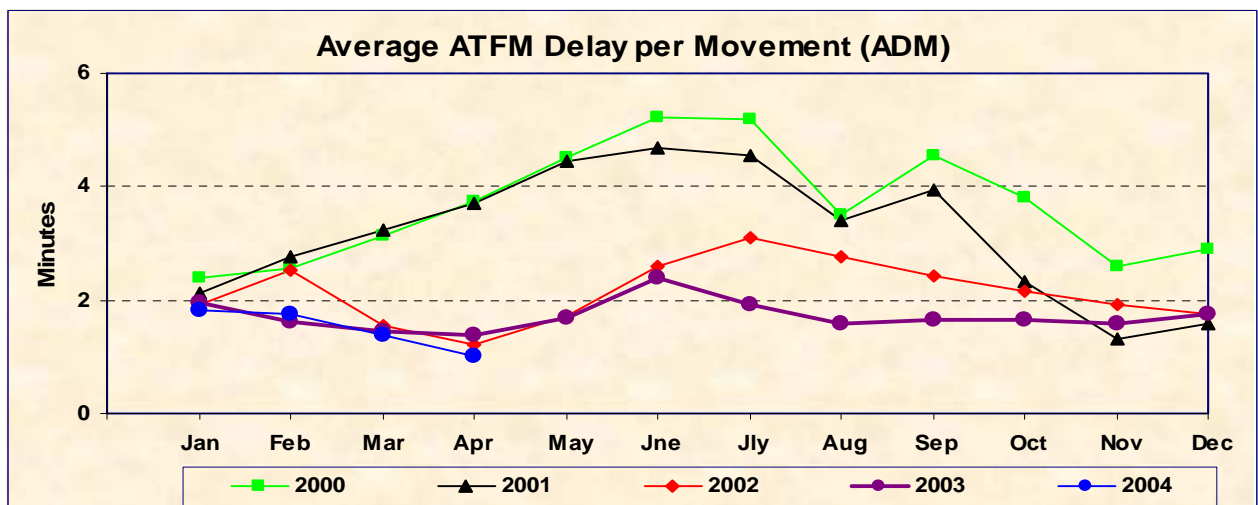
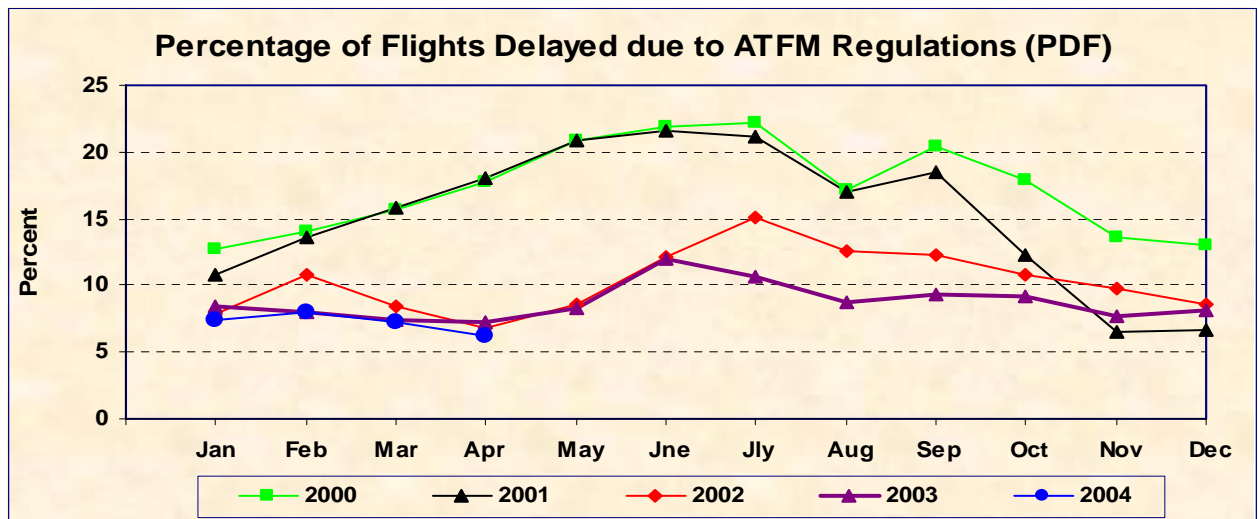
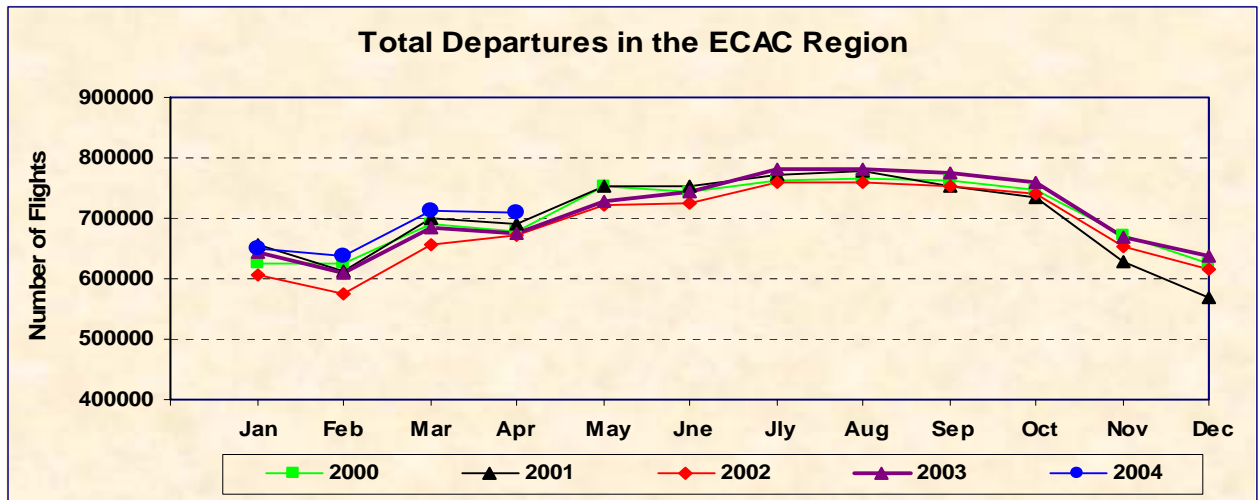
An analysis of the delay causes and categories, grouped by IATA codes, shows that thirty seven percent of them had an increase in delay share, with the largest rises in the Others, Miscellaneous, Aircraft & Ramp Handling, Airport Facilities, Passenger & Baggage and Technical & Aircraft Equipment categories. To offset these increases, there was a significant decrease in the ATFM Restrictions at Destination Airport, followed by Weather, Restrictions at Departure Airport and Flight Operations and Crewing (only those categories with more than one percent of the delay were taken into account).

Technical & Aircraft Equipment was the most penalising direct delay category, with eleven percent, followed by Passenger & Baggage, Aircraft & Ramp Handling and Airport Facilities. ATFM En-Route Demand Capacity, on the other hand, accounted for five and a half percent of the delay, a decrease of twenty two percent on April 2003.

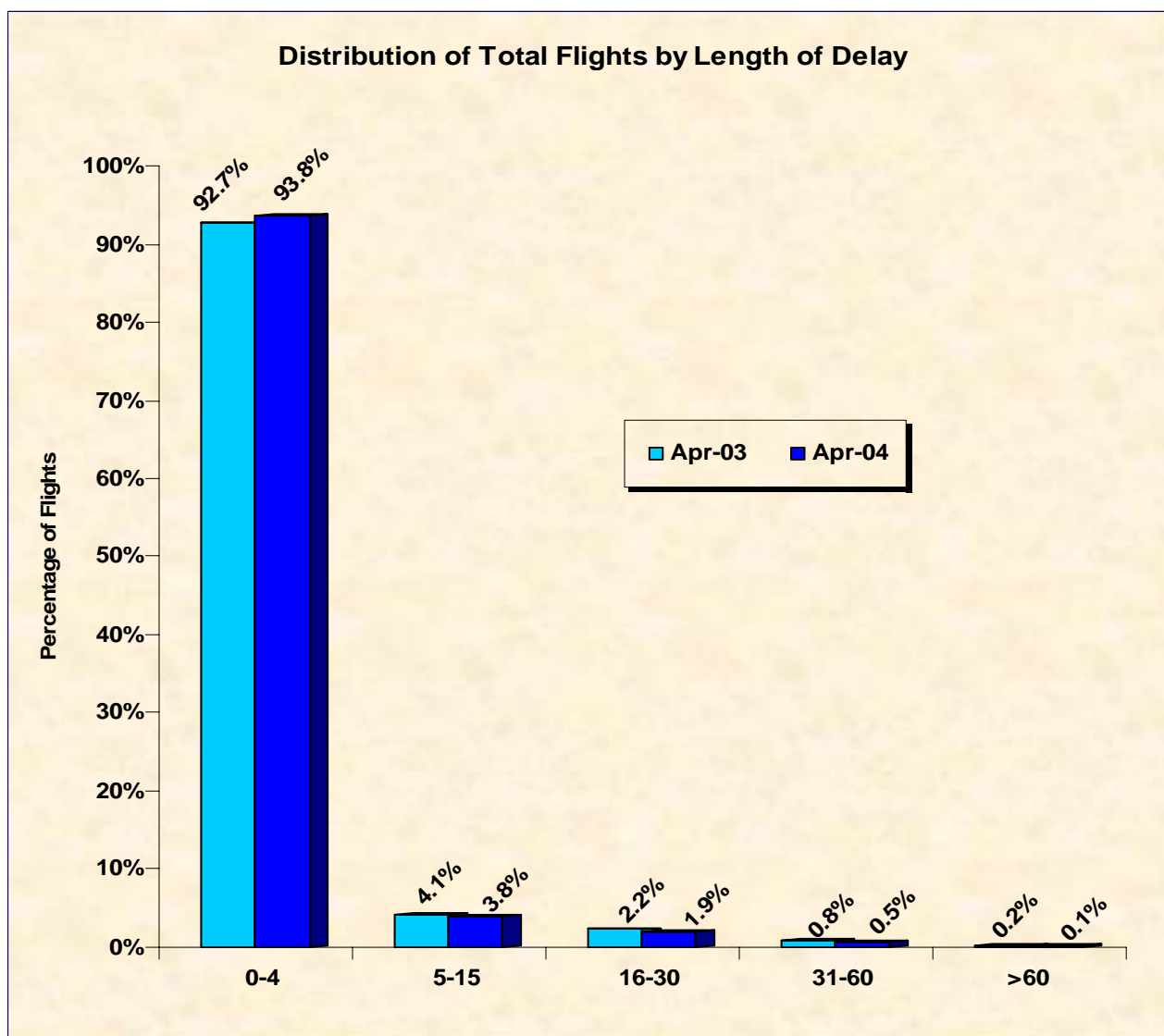
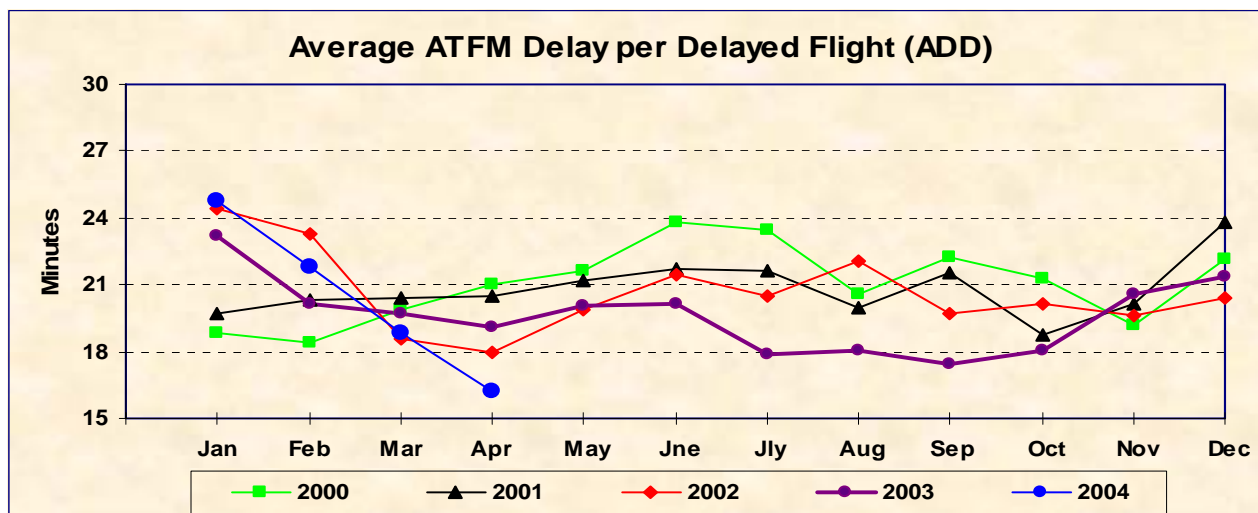
SUMMARY OF SIGNIFICANT EVENTS

-  Weather conditions including fog, low cloud ceiling, wind and low visibility reducing arrival and departure rates for short periods.
-  Technical problems including power failure at Southampton ACC; radar outages at Ljubljana, Brussels, Copenhagen and Villafranca ACCs; unreliable radar data at Zurich ACC; radar maintenance at Brindisi ACC; FPL processing failure in Italy reducing traffic level by sixty percent; ILS repair at Prague FIR; ATC evacuation at London/Heathrow.
-  Staff issues at Copenhagen, Maastricht and London ACCs.
-  Zero rate at Birmingham due to an aircraft accident; reduced capacity at Rome due to runway configuration.
-  Single runway operations at Gran Canaria and Milan/Malpensa due to work in progress.
-  Military activity at Bordeaux, Aix en Provence, Geneva, Munich and Belgrade ACCs.
-  Other items included resectorisation within London ACC Clacton sectors; new equipment and procedures at Aix en Provence ACC reducing capacity; evaluation of operations in new ATC centre at Dublin; EU Accession Ceremony at Dublin; Motorcycle Grand Prix at Malaga, bomb removal at Bremen.

2. Year on Year Trends in Main Indicators

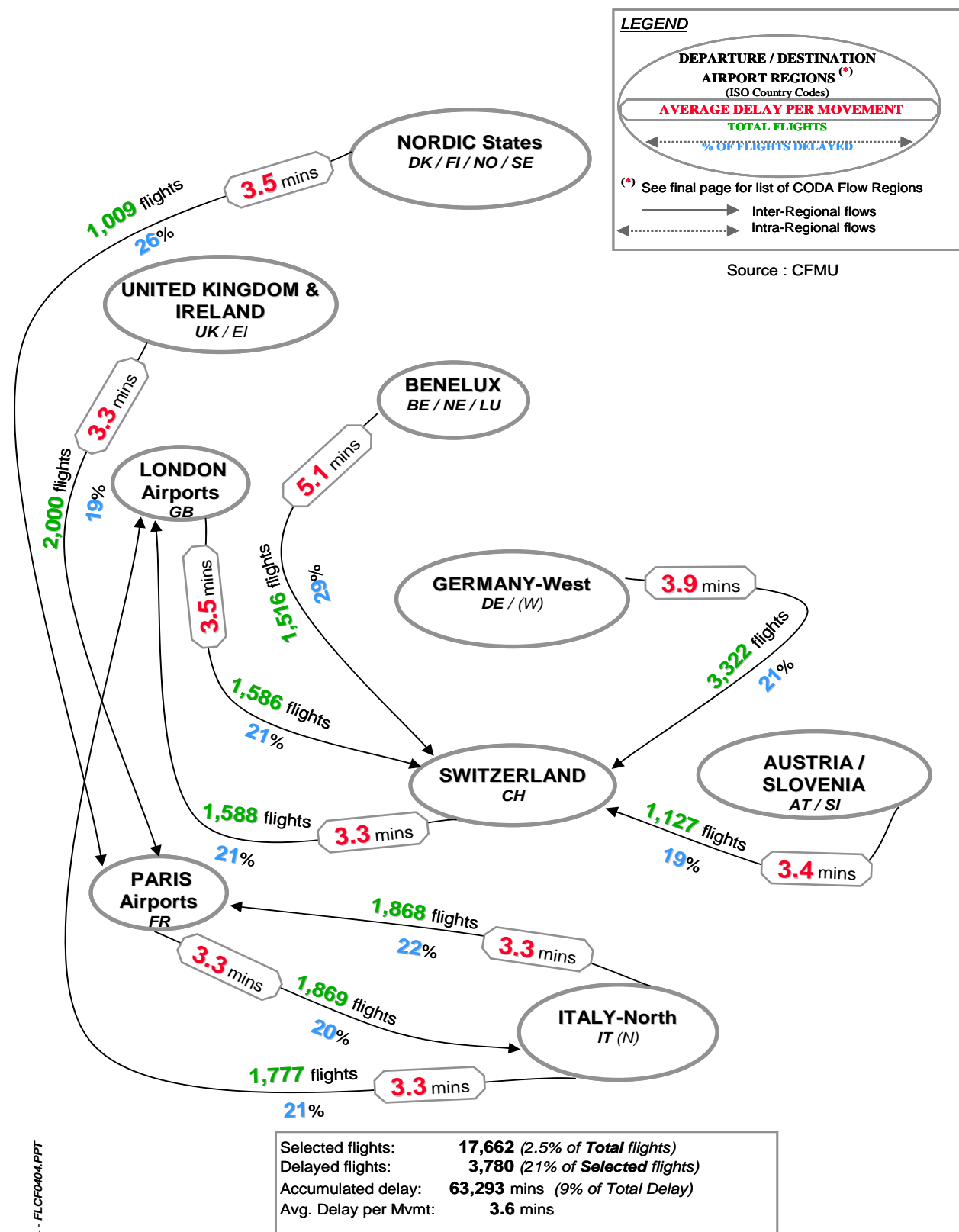


Source : CFMU ATFM Data



Source : CFMU ATFM Data

3. Most Affected Traffic Flows by CODA Regions



**ATFM Delay Situation on 10 Regional CODA Traffic Flows (>1,000 flights)
in April 2004**

4. Most Affected and Most Dense Traffic Flows

MOST AFFECTED TRAFFIC FLOWS (CFMU)

Rank	Departure	Destination	TTF	TRF	TDF	PDF	TDM	ADD	ADM
1	Benelux	Switzerland	1,516	728	432	28.50	7,788	18.03	5.14
2	Germany-West	Switzerland	3,322	1,345	682	20.53	12,877	18.88	3.88
3	London Airports	Switzerland	1,586	555	329	20.74	5,592	17.00	3.53
4	Nordic States	Paris Airports	1,009	570	261	25.87	3,495	13.39	3.46
5	Austria/Slovenia	Switzerland	1,127	466	215	19.08	3,792	17.64	3.36
6	Switzerland	London Airports	1,588	613	336	21.16	5,267	15.68	3.32
7	Paris Airports	Italy-North	1,869	794	374	20.01	6,139	16.41	3.28
8	Italy-North	Paris Airports	1,868	974	411	22.00	6,083	14.80	3.26
9	United Kingdom & Ireland	Paris Airports	2,000	626	370	18.50	6,492	17.55	3.25
10	Italy-North	London Airports	1,777	693	370	20.82	5,768	15.59	3.25
11	Benelux	France Southeast	1,084	452	202	18.63	3,473	17.19	3.20
12	Nordic States	London Airports	2,118	768	380	17.94	6,159	16.21	2.91
13	Germany-West	London Airports	3,124	1,102	562	17.99	9,024	16.06	2.89
14	London Airports	Italy-North	1,781	713	322	18.08	5,128	15.93	2.88
15	Italy-North	Other	2,206	464	309	14.01	6,293	20.37	2.85
16	Iberian Peninsula/Canaria	Italy-North	1,157	298	183	15.82	3,146	17.19	2.72
17	France Southeast	Benelux	1,083	437	193	17.82	2,784	14.42	2.57
18	Switzerland	Benelux	1,511	611	272	18.00	3,805	13.99	2.52
19	Benelux	Italy-North	1,775	734	302	17.01	4,403	14.58	2.48
20	Italy-North	Benelux	1,811	658	310	17.12	4,442	14.33	2.45
Totals			35,312	13,601	6,815	19.30	111,950	16.43	3.17

MOST DENSE TRAFFIC FLOWS (CFMU)

Rank	Departure	Destination	TTF	TRF	TDF	PDF	TDM	ADD	ADM	ADM-Rank
1	Nordic States	Nordic States	60,659	1,074	435	0.72	7,713	17.73	0.13	29
2	United Kingdom & Ireland	United Kingdom & Ireland	29,628	1,878	884	2.98	13,875	15.70	0.47	19
3	Iberian Peninsula/Canaria	Iberian Peninsula/Canaria	26,618	1,471	580	2.18	8,339	14.38	0.31	23
4	Germany-West	Germany-West	21,063	1,870	884	4.20	13,694	15.49	0.65	18
5	Greece/Cyprus	Greece/Cyprus	10,679	32	19	0.18	315	16.58	0.03	33
6	Other	Other	10,495	67	38	0.36	689	18.13	0.07	30
7	Italy-North	Italy-South/Malta	9,431	1,138	644	6.83	14,128	21.94	1.50	4
8	Italy-South/Malta	Italy-North	9,416	833	501	5.32	12,304	24.56	1.31	8
9	London Airports	United Kingdom & Ireland	9,331	1,089	515	5.52	7,539	14.64	0.81	16
10	United Kingdom & Ireland	London Airports	9,328	2,104	1,102	11.81	19,900	18.06	2.13	2
11	Other	London Airports	8,153	173	92	1.13	1,409	15.32	0.17	28
12	London Airports	Other	8,132	1,254	694	8.53	10,050	14.48	1.24	9
13	Italy-South/Malta	Italy-South/Malta	7,934	696	407	5.13	11,562	28.41	1.46	5
14	Other	Germany-West	7,798	269	125	1.60	1,659	13.27	0.21	26
15	Germany-West	Other	7,789	1,166	649	8.33	10,183	15.69	1.31	7
16	Balearics/Spain East	Iberian Peninsula/Canaria	7,667	1,064	427	5.57	7,072	16.56	0.92	14
17	Iberian Peninsula/Canaria	Balearics/Spain East	7,611	1,305	630	8.28	10,595	16.82	1.39	6
18	Turkey	Turkey	7,475	0	0	0.00	0	0.00	0.00	35
19	Paris Airports	Other	7,055	1,048	511	7.24	7,317	14.32	1.04	11
20	Other	Paris Airports	7,022	399	118	1.68	1,525	12.92	0.22	25
21	Germany-East/Czech Rep	Germany-West	6,403	601	302	4.72	4,766	15.78	0.74	17
22	Balearics/Spain East	Balearics/Spain East	6,368	524	295	4.63	6,604	22.39	1.04	12
23	Germany-West	Germany-East/Czech Rep	6,361	456	170	2.67	2,697	15.86	0.42	20
24	Central Europe	Central Europe	5,501	29	14	0.25	306	21.86	0.06	31
25	Benelux	Other	5,219	836	388	7.43	5,631	14.51	1.08	10

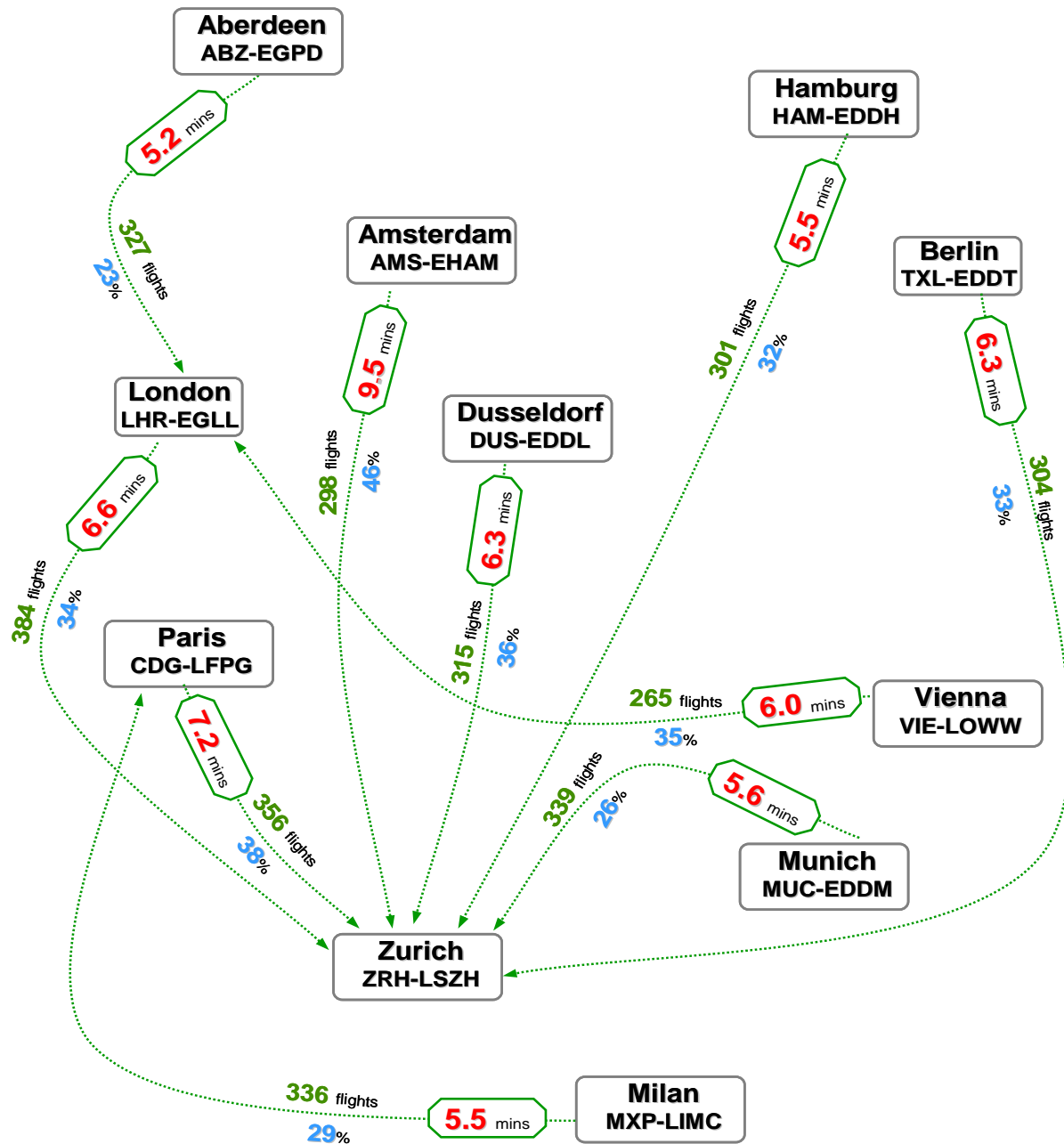
Source: CFMU ATFM Data

5. Most Affected City Pairs

AVERAGE DELAY PER MOVEMENT

Source : CFMU

Total Number of Flights & % of Flights Delayed



Selected flights: 3,225 (0.5% of Total flights)
 Delayed flights: 1,066 (33% of Selected flights)
 Accumulated delay: 20,508 mins (3% of Total Delay)
 Avg. Delay per Mvmt.: 6.4 mins

ATFM Delay Situation on 10 City Pairs (>250 flights) in April 2004

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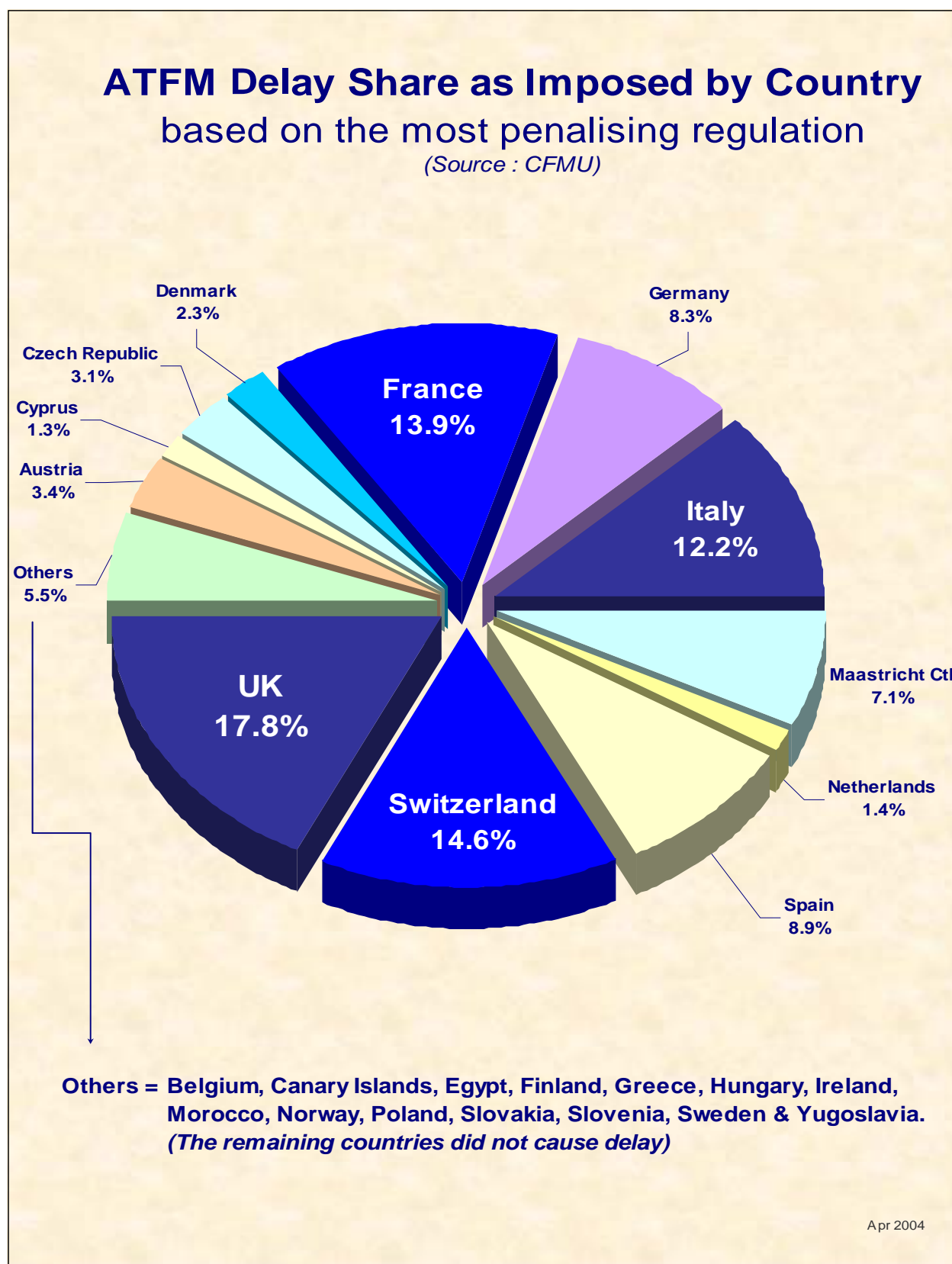
6. Most Affected and Most Dense City Pairs

MOST AFFECTED CITY PAIRS (CFMU)									
Rank	Departure	Destination	TTF	TRF	TDF	PDF	TDM	ADD	ADM
1	Amsterdam	Zurich	298	192	137	45.97	2,819	20.58	9.46
2	Paris/Charles-De-Gaulle	Zurich	356	224	137	38.48	2,552	18.63	7.17
3	London/Heathrow	Zurich	384	230	131	34.11	2,549	19.46	6.64
4	Berlin-Tegel	Zurich	304	184	99	32.57	1,918	19.37	6.31
5	Dusseldorf	Zurich	315	220	113	35.87	1,986	17.58	6.30
6	Vienna	London/Heathrow	265	146	92	34.72	1,578	17.15	5.95
7	Munich	Zurich	339	170	89	26.25	1,913	21.49	5.64
8	Hamburg	Zurich	301	162	95	31.56	1,667	17.55	5.54
9	Milan/Malpensa	Paris/Charles-De-Gaulle	336	200	97	28.87	1,830	18.87	5.45
10	Aberdeen	London/Heathrow	327	128	76	23.24	1,696	22.32	5.19
11	Edinburgh	London/Heathrow	579	226	139	24.01	2,981	21.45	5.15
12	Vienna	Zurich	381	222	109	28.61	1,956	17.94	5.13
13	Oslo/Gardermoen	London/Heathrow	260	121	67	25.77	1,295	19.33	4.98
14	Frankfurt	London/Heathrow	526	265	160	30.42	2,597	16.23	4.94
15	Geneva	London/Heathrow	300	151	91	30.33	1,472	16.18	4.91
16	Dublin	London/Heathrow	573	251	152	26.53	2,770	18.22	4.83
17	Zurich	London/Heathrow	384	198	101	26.30	1,759	17.42	4.58
18	Copenhagen/Kastrup	London/Heathrow	354	177	98	27.68	1,607	16.40	4.54
19	Berlin-Tegel	Paris/Charles-De-Gaulle	252	143	77	30.56	1,045	13.57	4.15
20	Stockholm/Arlanda	London/Heathrow	339	146	82	24.19	1,361	16.60	4.01
Totals			7,173	3,756	2,142	29.86	39,351	18.37	5.49

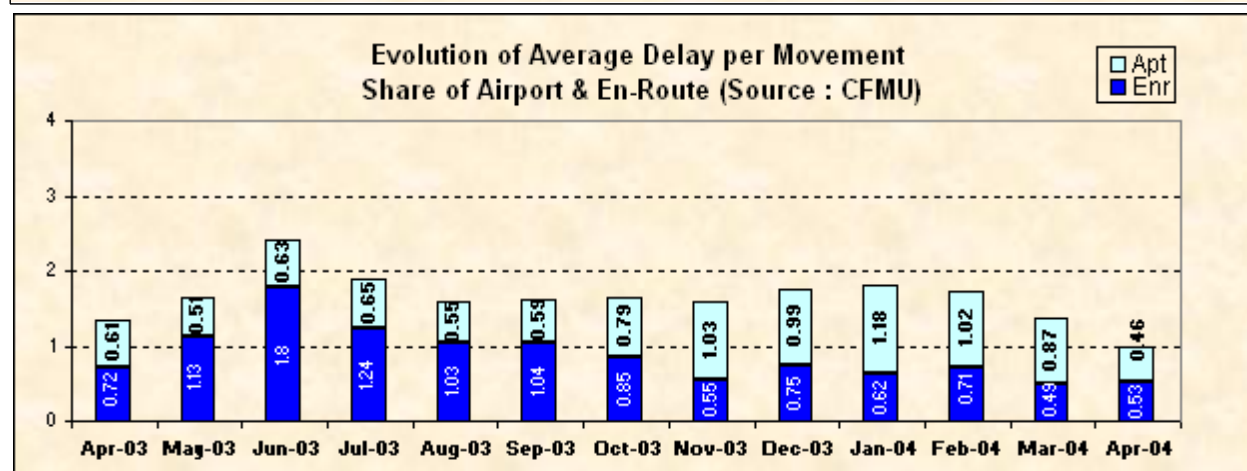
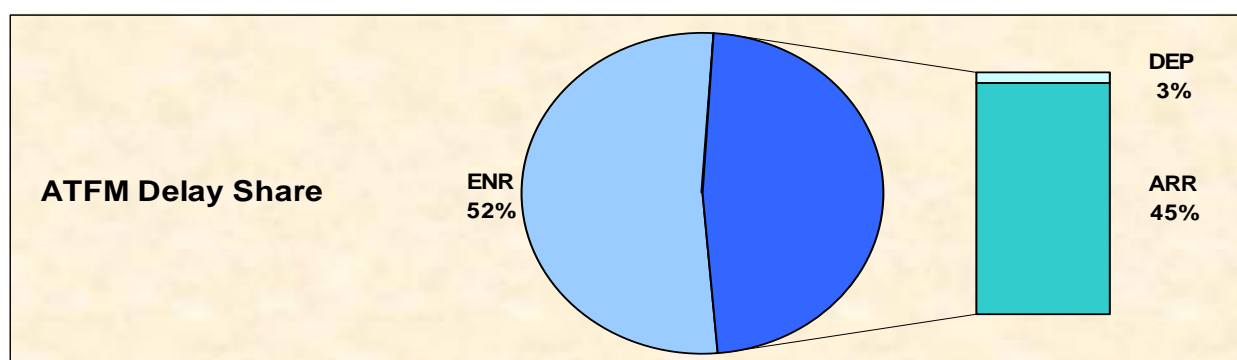
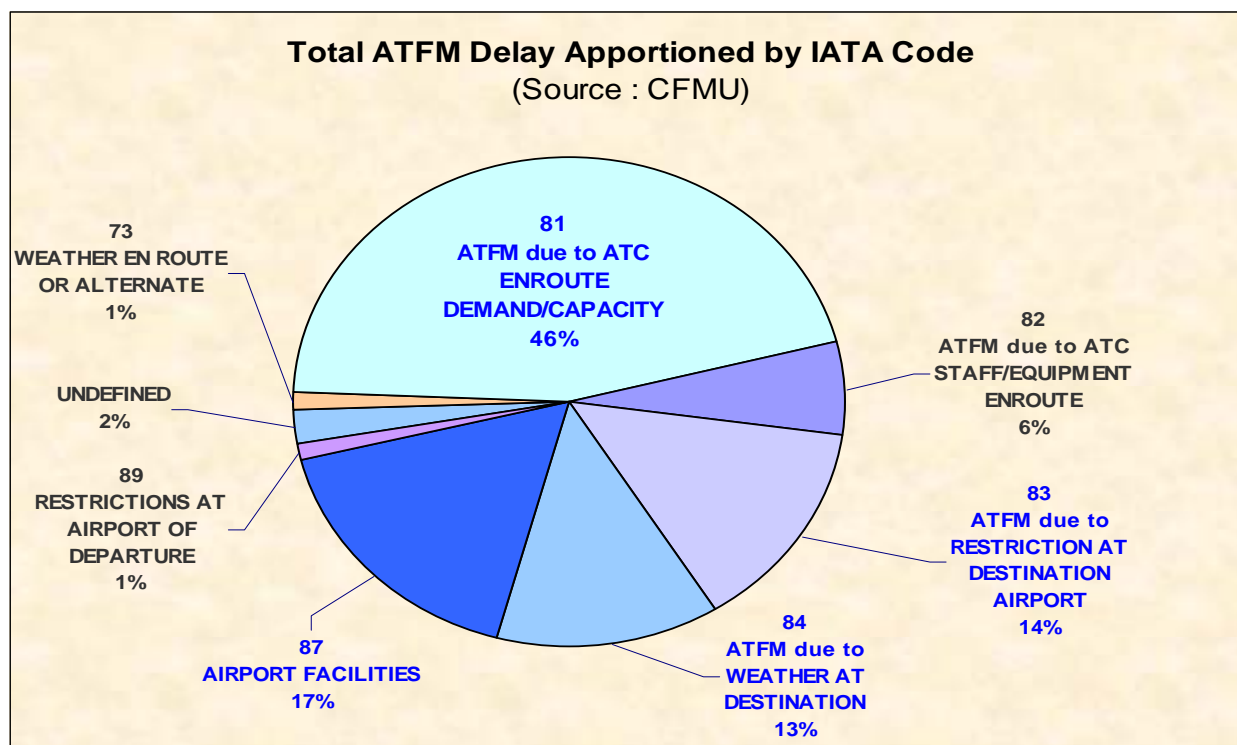
MOST DENSE CITY PAIRS (CFMU)										
Rank	Departure	Destination	TTF	TRF	TDF	PDF	TDM	ADD	ADM	ADM-rank
1	Madrid/Barajas	Barcelona	1,790	457	221	12.35	3,774	17.08	2.11	5
2	Barcelona	Madrid/Barajas	1,783	480	169	9.48	2,808	16.62	1.57	7
3	Milan/Linate	Rome/Fiumicino	1,214	267	159	13.10	3,101	19.50	2.55	3
4	Rome/Fiumicino	Milan/Linate	1,202	18	6	0.50	552	92.00	0.46	20
5	Barcelona	Palma De Mallorca	886	33	31	3.50	860	27.74	0.97	10
6	Toulouse/Blagnac	Paris/Orly	838	44	22	2.63	286	13.00	0.34	22
7	Paris/Orly	Toulouse/Blagnac	835	26	11	1.32	181	16.45	0.22	25
8	Palma De Mallorca	Barcelona	833	213	100	12.00	2,029	20.29	2.44	4
9	Paris/Charles-De-Gaulle	London/Heathrow	820	306	159	19.39	2,595	16.32	3.16	2
10	London/Heathrow	Paris/Charles-De-Gaulle	818	170	79	9.66	1,213	15.35	1.48	8
11	Madrid/Barajas	Palma De Mallorca	749	14	12	1.60	222	18.50	0.30	23
12	Athens	Makedonia	744	12	7	0.94	97	13.86	0.13	27
13	Makedonia	Athens	742	0	0	0.00	0	0.00	0.00	31
14	Palma De Mallorca	Madrid/Barajas	733	129	48	6.55	543	11.31	0.74	14
15	Paris/Orly	Nice	727	56	20	2.75	334	16.70	0.46	19
16	Nice	Paris/Orly	725	72	33	4.55	463	14.03	0.64	15
17	Amsterdam	London/Heathrow	724	276	130	17.96	2,479	19.07	3.42	1
18	London/Heathrow	Amsterdam	723	45	23	3.18	320	13.91	0.44	21
19	Den Helder/De Kooy	Unknown	668	0	0	0.00	0	0.00	0.00	32
20	Unknown	Den Helder/De Kooy	654	0	0	0.00	0	0.00	0.00	33
21	Helsinki-Vantaa	Stockholm/Arlanda	652	0	0	0.00	0	0.00	0.00	34
22	Fuerteventura	Las Palmas	644	7	5	0.78	89	17.80	0.14	26
23	Las Palmas	Fuerteventura	640	5	2	0.31	17	8.50	0.03	30
24	Stockholm/Arlanda	Helsinki-Vantaa	628	25	8	1.27	74	9.25	0.12	28
25	Paris/Charles-De-Gaulle	Frankfurt	613	137	74	12.07	1,015	13.72	1.66	6

Source: CFMU ATFM Data

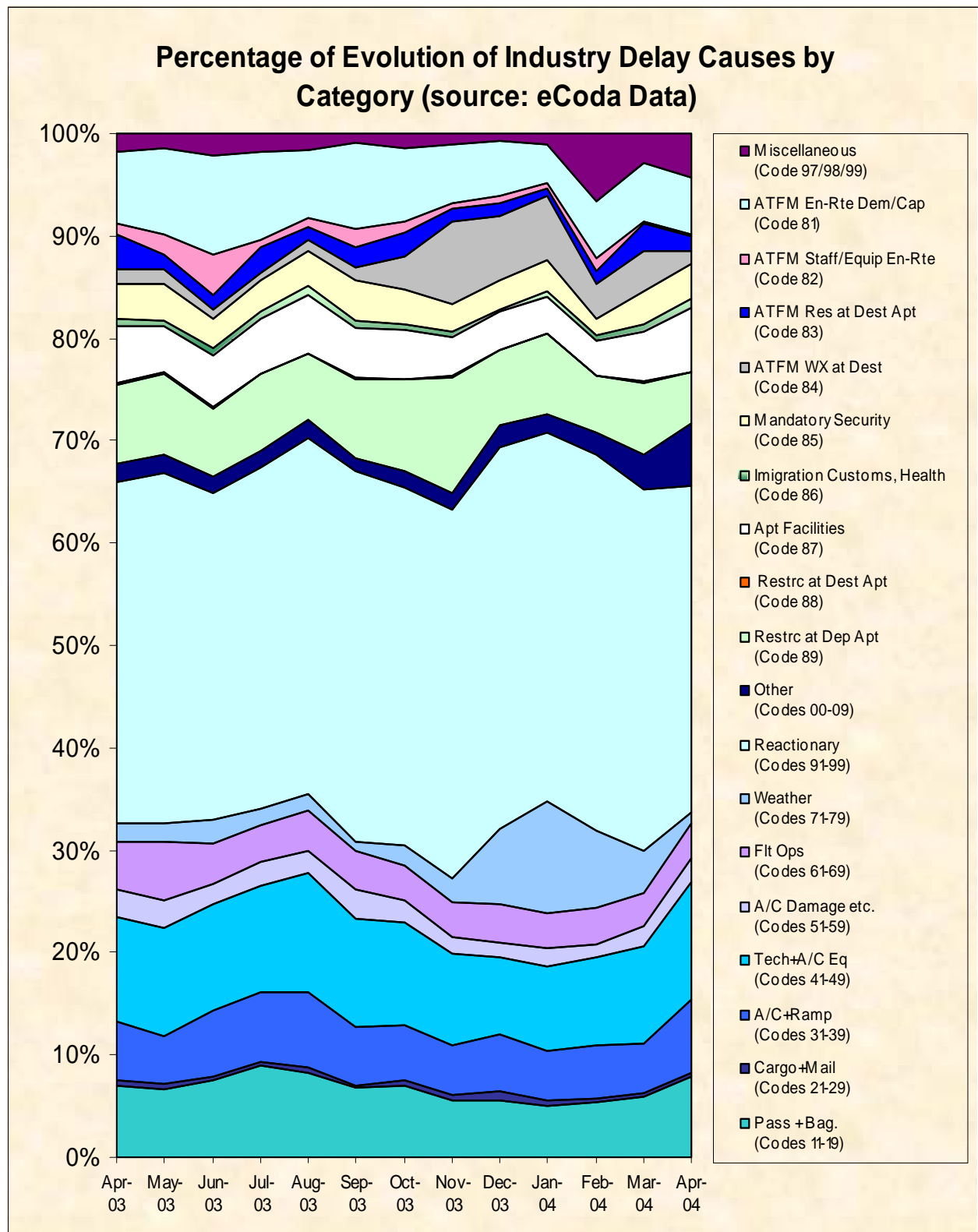
7. ATFM Delay Share by Country



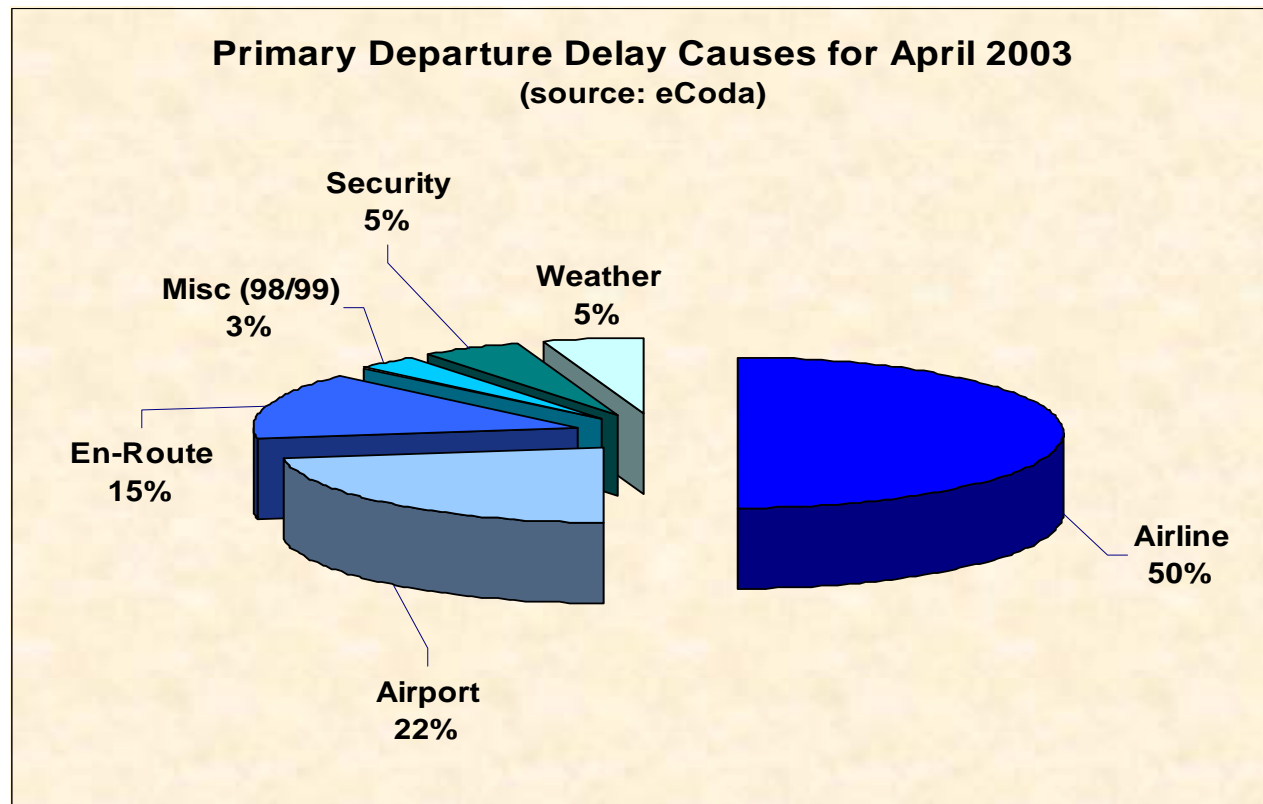
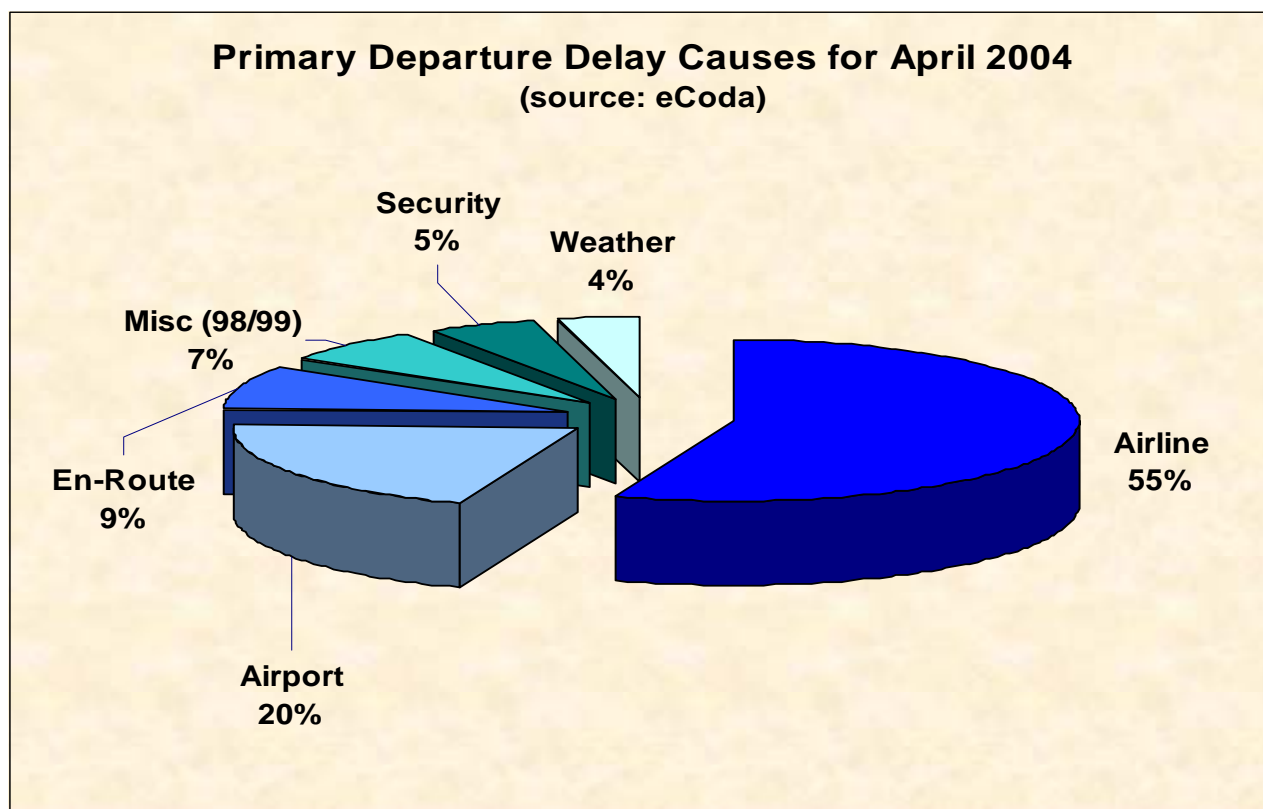
8. Reasons for ATFM Delay



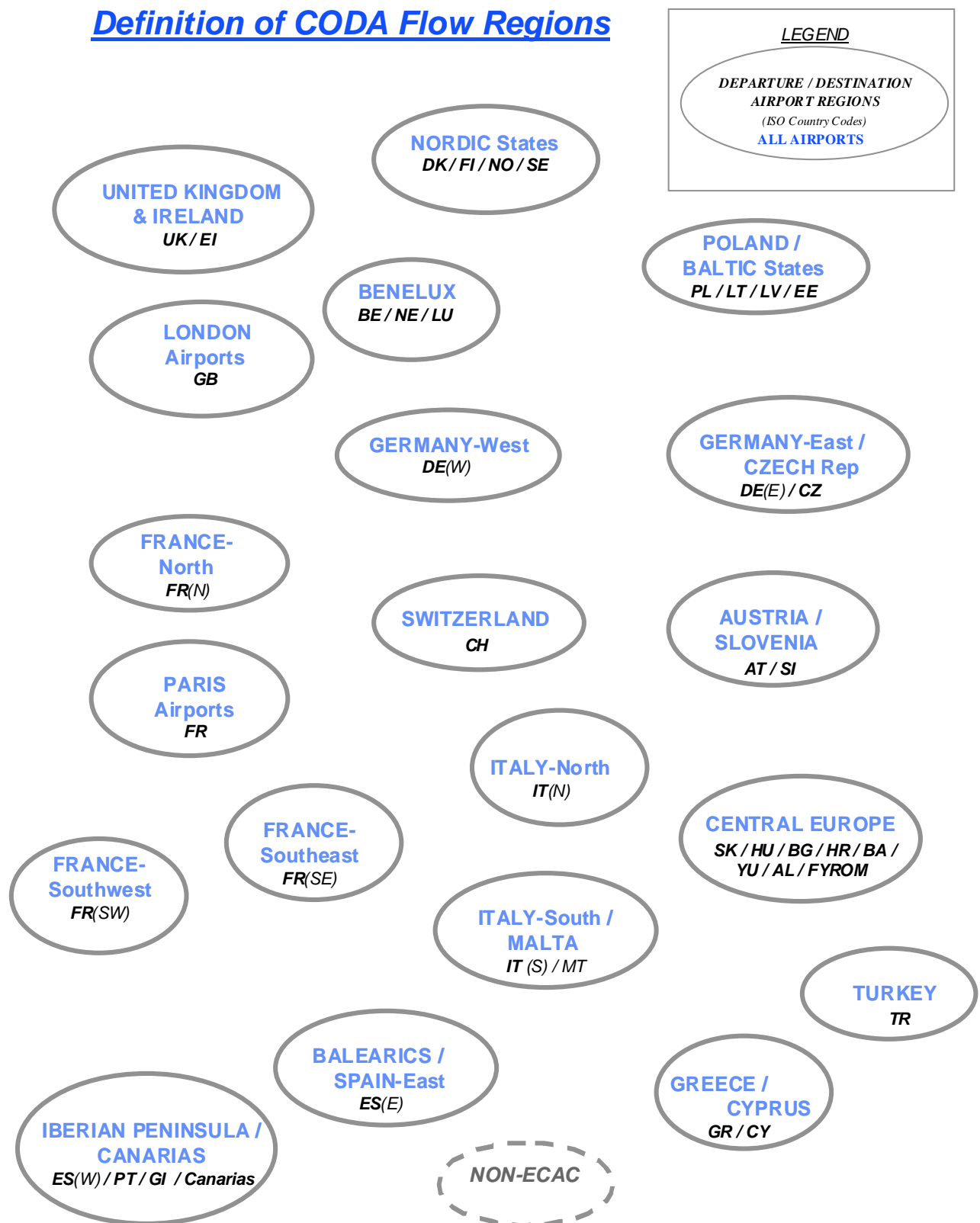
9. Consolidated Evolution of Industry Delay Causes by Category



10. Primary Departure Delay Causes



Definition of CODA Flow Regions (Annex 1)

Definition of CODA Flow Regions

Glossary of Terms and Abbreviations (Annex 2)

Delay Parameter Abbreviations

TTF	Total Flights
TRF	Total Regulated Flights
TDF	Total Delayed Flights
PRF	Percentage of Regulated Flights
PDF	Percentage of Delayed Flights
TDM	Total Delay in Minutes
ADM	Average Delay per Movement
ADR	Average Delay per Regulated Flight
ADD	Average Delay per Delayed Flight

Glossary of Terms

AEA	Association of European Airlines
ATFM	Air Traffic Flow Management
ATS	Air Traffic Services
CFMU	Central Flow Management Unit
CODA	Central Office for Delay Analysis
EATMP	European Air Traffic Management Program
ECAC	European Civil Aviation Conference
EDAS	European Delay Analysis System
ERA	European Regions Airline Association
EURACA	European Air Carrier Assembly
IACA	International Air Carrier Association
IATA	International Air Transport Association

Standard IATA Delay Codes (Annex 3)

Others

00-05	AIRLINE INTERNAL CODES
06 (OA)	NO GATE/STAND AVAILABILITY DUE TO OWN AIRLINE ACTIVITY
09 (SG)	SCHEDULED GROUND TIME LESS THAN DECLARED MINIMUM GROUND TIME

Passenger and Baggage

11 (PD)	LATE CHECK-IN, acceptance after deadline
12 (PL)	LATE CHECK-IN, congestions in check-in area
13 (PE)	CHECK-IN ERROR, passenger and baggage
14 (PO)	OVERSALES, booking errors
15 (PH)	BOARDING, discrepancies and paging, missing checked-in passenger
16 (PS)	COMMERCIAL PUBLICITY/PASSENGER CONVENIENCE, VIP, press, ground meals and missing personal items
17 (PC)	CATERING ORDER, late or incorrect order given to supplier
18 (PB)	BAGGAGE PROCESSING, sorting etc.

Cargo and Mail

21 (CD)	DOCUMENTATION, errors etc.
22 (CP)	LATE POSITIONING
23 (CC)	LATE ACCEPTANCE
24 (CI)	INADEQUATE PACKING
25 (CO)	OVERSALES, booking errors
26 (CU)	LATE PREPARATION IN WAREHOUSE
27 (CE)	DOCUMENTATION, PACKING etc (<i>Mail Only</i>)
28 (CL)	LATE POSITIONING (<i>Mail Only</i>)
29 (CA)	LATE ACCEPTANCE (<i>Mail Only</i>)

Aircraft and Ramp Handling

31 (GD)	AIRCRAFT DOCUMENTATION LATE/INACCURATE, weight and balance, general declaration, pax manifest, etc.
32 (GL)	LOADING/UNLOADING, bulky, special load, cabin load, lack of loading staff
33 (GE)	LOADING EQUIPMENT, lack of or breakdown, e.g. container pallet loader, lack of staff
34 (GS)	SERVICING EQUIPMENT, lack of or breakdown, lack of staff, e.g. steps
35 (GC)	AIRCRAFT CLEANING
36 (GF)	FUELLING/DEFUELLING, fuel supplier
37 (GB)	CATERING, late delivery or loading
38 (GU)	ULD, lack of or serviceability
39 (GT)	TECHNICAL EQUIPMENT, lack of or breakdown, lack of staff, e.g. pushback

Technical and Aircraft Equipment

41 (TD)	AIRCRAFT DEFECTS.
42 (TM)	SCHEDULED MAINTENANCE, late release.
43 (TN)	NON-SCHEDULED MAINTENANCE, special checks and/or additional works beyond normal maintenance schedule.
44 (TS)	SPARES AND MAINTENANCE EQUIPMENT, lack of or breakdown.
45 (TA)	AOG SPARES, to be carried to another station.
46 (TC)	AIRCRAFT CHANGE, for technical reasons.
47 (TL)	STAND-BY AIRCRAFT, lack of planned stand-by aircraft for technical reasons.
48 (TV)	SCHEDULED CABIN CONFIGURATION/VERSION ADJUSTMENTS.

Damage to Aircraft & EDP/Automated Equipment Failure

51 (DF)	DAMAGE DURING FLIGHT OPERATIONS, bird or lightning strike, turbulence, heavy or overweight landing, collision during taxiing
52 (DG)	DAMAGE DURING GROUND OPERATIONS, collisions (other than during taxiing), loading/off-loading damage, contamination, towing, extreme weather conditions
55 (ED)	DEPARTURE CONTROL
56 (EC)	CARGO PREPARATION/DOCUMENTATION
57 (EF)	FLIGHT PLANS

Flight Operations and Crewing

- 61 (FP) FLIGHT PLAN, late completion or change of, flight documentation
- 62 (FF) OPERATIONAL REQUIREMENTS, fuel, load alteration
- 63 (FT) LATE CREW BOARDING OR DEPARTURE PROCEDURES, other than connection and standby (flight deck or entire crew)
- 64 (FS) FLIGHT DECK CREW SHORTAGE, sickness, awaiting standby, flight time limitations, crew meals, valid visa, health documents, etc.
- 65 (FR) FLIGHT DECK CREW SPECIAL REQUEST, not within operational requirements
- 66 (FL) LATE CABIN CREW BOARDING OR DEPARTURE PROCEDURES, other than connection and standby
- 67 (FC) CABIN CREW SHORTAGE, sickness, awaiting standby, flight time limitations, crew meals, valid visa, health documents, etc.
- 68 (FA) CABIN CREW ERROR OR SPECIAL REQUEST, not within operational requirements
- 69 (FB) CAPTAIN REQUEST FOR SECURITY CHECK, extraordinary

Weather

- 71 (WO) DEPARTURE STATION
- 72 (WT) DESTINATION STATION
- 73 (WR) EN ROUTE OR ALTERNATE
- 75 (WI) DE-ICING OF AIRCRAFT, removal of ice and/or snow, frost prevention excluding unserviceability of equipment
- 76 (WS) REMOVAL OF SNOW, ICE, WATER AND SAND FROM AIRPORT
- 77 (WG) GROUND HANDLING IMPAIRED BY ADVERSE WEATHER CONDITIONS

ATFM + AIRPORT + GOVERNMENTAL AUTHORITIES**AIR TRAFFIC FLOW MANAGEMENT RESTRICTIONS**

- 81 (AT) ATFM due to ATC EN-ROUTE DEMAND/CAPACITY, standard demand/capacity problems
- 82 (AX) ATFM due to ATC STAFF/EQUIPMENT EN-ROUTE, reduced capacity caused by industrial action or staff shortage, equipment failure, military exercise or extraordinary demand due to capacity reduction in neighbouring area
- 83 (AE) ATFM due to RESTRICTION AT DESTINATION AIRPORT, airport and/or runway closed due to obstruction, industrial action, staff shortage, political unrest, noise abatement, night curfew, special flights
- 84 (AW) ATFM due to WEATHER AT DESTINATION

AIRPORT AND GOVERNMENTAL AUTHORITIES

- 85 (AS) MANDATORY SECURITY
- 86 (AG) IMMIGRATION, CUSTOMS, HEALTH
- 87 (AF) AIRPORT FACILITIES, parking stands, ramp congestion, lighting, buildings, gate limitations, etc.
- 88 (AD) RESTRICTIONS AT AIRPORT OF DESTINATION, airport and/or runway closed due to obstruction, industrial action, staff shortage, political unrest, noise abatement, night curfew, special flights
- 89 (AM) RESTRICTIONS AT AIRPORT OF DEPARTURE WITH OR WITHOUT ATFM RESTRICTIONS, including Air Traffic Services, start-up and pushback, airport and/or runway closed due to obstruction or weather², industrial action, staff shortage, political unrest, noise abatement, night curfew, special flights

Reactionary

- 91 (RL) LOAD CONNECTION, awaiting load from another flight
- 92 (RT) THROUGH CHECK-IN ERROR, passenger and baggage
- 93 (RA) AIRCRAFT ROTATION, late arrival of aircraft from another flight or previous sector
- 94 (RS) CABIN CREW ROTATION, awaiting cabin crew from another flight
- 95 (RC) CREW ROTATION, awaiting crew from another flight (flight deck or entire crew)
- 96 (RO) OPERATIONS CONTROL, re-routing, diversion, consolidation, aircraft change for reasons other than technical

Miscellaneous

- 97 (MI) INDUSTRIAL ACTION WITH OWN AIRLINE
- 98 (MO) INDUSTRIAL ACTION OUTSIDE OWN AIRLINE, excluding ATS
- 99 (MX) OTHER REASON, not matching any code above

SOURCE: Provisional list composed by IATA

² Restriction due to weather in case of ATFM regulation only, else refer to code 71 (WO)

Correlation between IATA Delay Codes and the CFMU Reasons for Regulation (Annex 4)

CORRELATION BETWEEN IATA DELAY CODES AND THE CFMU REASONS FOR REGULATION				IATA	
REASON FOR REGULATION	CODE	REGULATION LOCATION	EXAMPLE	CFMU	
				CODE	DELAY CAUSE
ATC Capacity	C	D	Demand exceeds the capacity	89	RESTRICTIONS AT AIRPORT OF DEPARTURE
		E		81	ATFM due to ATC ENROUTE DEMAND/CAPACITY
		A		83	ATFM due to RESTRICTION AT DESTINATION AIRPORT
ATC Ind Action	I	D	Controllers' strike	89	RESTRICTIONS AT AIRPORT OF DEPARTURE
		E		82	ATFM due to ATC STAFF/EQUIPMENT ENROUTE
		A		83	ATFM due to RESTRICTION AT DESTINATION AIRPORT
ATC Routeings	R	E	Phasing in of new procedures	81	ATFM due to ATC ENROUTE DEMAND/CAPACITY
ATC Staffing	S	D	Illness; traffic delays on the highway	89	RESTRICTIONS AT AIRPORT OF DEPARTURE
		E		82	ATFM due to ATC STAFF/EQUIPMENT ENROUTE
		A		83	ATFM due to RESTRICTION AT DESTINATION AIRPORT
ATC Equipment	T	D	Radar failure; RTF failure	89	RESTRICTIONS AT AIRPORT OF DEPARTURE
		E		82	ATFM due to ATC STAFF/EQUIPMENT ENROUTE
		A		83	ATFM due to RESTRICTION AT DESTINATION AIRPORT
Accident/Incident	A	A	RWY23 closed due accident	89	RESTRICTIONS AT AIRPORT OF DEPARTURE
Aerodrome Capacity	G	D	Lack of parking; taxiway closure; areas closed for maintenance; demand exceeds the declared airport capacity	87	AIRPORT FACILITIES
		A		87	AIRPORT FACILITIES
		D		89	RESTRICTIONS AT AIRPORT OF DEPARTURE
De-icing	D	D	De-icing	87	AIRPORT FACILITIES
Equipment non-ATC	E	A	Runway or taxiway lighting failure	87	AIRPORT FACILITIES
Ind Action non-ATC	N	D	Firemen's strike	98	INDUSTRIAL ACTION OUTSIDE OWN AIRLINE
		A		98	INDUSTRIAL ACTION OUTSIDE OWN AIRLINE
		D		89	RESTRICTIONS AT AIRPORT OF DEPARTURE
Military Activity	M	D	Brilliant Invader; ODAX	82	ATFM due to ATC STAFF/EQUIPMENT ENROUTE
		E		83	ATFM due to RESTRICTION AT DESTINATION AIRPORT
		A		89	RESTRICTIONS AT AIRPORT OF DEPARTURE
Special Event	P	D	European football cup; Heads of Government meetings	89	RESTRICTIONS AT AIRPORT OF DEPARTURE
		A		73	WEATHER EN ROUTE OR ALTERNATE
		E		84	ATFM due to WEATHER AT DESTINATION
Weather	W	D	Thunderstorm; low visibility; X winds	89	RESTRICTIONS AT AIRPORT OF DEPARTURE
		E		81	ATFM due to ATC ENROUTE DEMAND/CAPACITY
		A		83	ATFM due to RESTRICTION AT DESTINATION AIRPORT
Other	O	D	Security alert	89	RESTRICTIONS AT AIRPORT OF DEPARTURE
		E		81	ATFM due to ATC ENROUTE DEMAND/CAPACITY
		A		83	ATFM due to RESTRICTION AT DESTINATION AIRPORT