Collaborative Automation Team

CAT

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FAA Lead - Jill Sparrow, ATCSCC
Industry Lead - Charlie Mead, AAL

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CAT Tasking #55: Data Quality Report Card/Surface Data

- **The CAT worked jointly with the Surface CDM Team (SCT) to examine the existing Data Quality (DQ) report card metrics in conjunction with the proposed surface metrics to determine the most accurate data field and methods for use in the measurement of data quality.**

- **STATUS: CAT/SCT concurred with the surface metrics as proposed by the Surface Outreach Group and recommended they be added to the data quality report card.   The CSG approved the recommendation in October of 2015.**

Data Quality Report Card/Surface Data Element Integration

- **Current Data Quality Report Card Metrics:**
1. **Cancels that Flew**
2. **Time-Out Cancels**
3. **Undeclared flights**

- **Surface CDM Data Quality Metrics:**
1. **Flight Initialization Lead Time**
2. **Off-Block Accuracy**
3. **Timely Provision of Actual Off Block Time (AOBT)**
4. **Data comprehensiveness**

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Flight Initialization Lead Time

- ## Description

  - Measures how far in advance Flight Operators provide flight information prior to the planned departure time

  - Applicable regardless of a Departure Metering Program (DMP) being in effect

- ## Measurement

Flight Initialization, Initial Off-Block Time (IOBT)	Credits
240 or more minutes prior to IOBT	15 credits
240-121 minutes prior to IOBT	10 credits
120-61 minutes prior to IOBT	5 credits
Less than 60 minutes prior to IOBT	0 credits

Off-Block Time Accuracy

- **Description**
  - Provides an indication of the accuracy of an EOBT prior to pushback of the flight
    - Compares the history of the EOBT and AOBT of a flight
  - Applicable only when a Departure Meter Program (DMP) is not in effect

Off-Block Time Accuracy Measurement

Time before AOBT	Accuracy (Difference between EOBT and AOBT)	Credits
Between 240 and 121 minutes	+/- 20 minutes	+ 5
Between 120 and 61 minutes	+/- 15 minutes	+ 10
Between 60 and 31 minutes	+/- 10 minutes	+ 10
Between 30 and 1 minutes	+/- 5 minutes	+ 10
At AOBT	+/- 5 minutes	+ 15
Total Credits		Minimum of 0, Maximum of 50

Timely Provision of Actual Off-Block Time

- **Description**
  - Measures how quickly the AOBT data element is provided after the flight pushes back from the gate
  - Applicable regardless of a DMP being in effect

- **Measurement**

Provision of Actual Off-Block Time (AOBT)	Credits
Provided within 5 minutes of AOBT	15 credits
Provided more than 5 minutes after AOBT	5 credits
Not Provided	0 credits

Data Comprehensiveness

- ## Description

  - Measures how comprehensively additional surface data elements were provided

  - Applicable regardless of a DMP being in effect

- ## Measurement

Data Comprehensiveness	Credits
Provided Gate Assignment	10 credits
Provided Tail Number	10 credits
Provided Cancellation with EOBT always in future	50 credits
Provided Cancellation with EOBT 1 to 30 minutes in the past	25 credits
Provided Cancellation with EOBT more than 30 minutes in past	0 credits
Provided Cancelation Information and operates w/out reinstatement	0 credits

TMA Release Time (TMA-RT) Field

Add/Remove Columns

By Field

NAME	FIELD DESCRIPTION
SlotInfo	The slot with the element name prefixed
STAR	Standard Terminal Arrival Route
STRSN	STAR Transition Fix
SUB	Subbable Flight Flag
Substituted	Flight was substituted
SWP	Swapping
TO	Time Out Cancelled
TO_BE_PURG...	Prev Controlled To Be Purged Flag
TOD	Time Out Delayed

By Group

- Default
  - AC
  - ID
  - ENTRY
  - EXIT
  - IGTD
  - IENTRY
  - IGTA
- Control Information
- FCA Information

FSM Calculated

Select Time   –   Select Time

Set Global Default   Clear Global Default

Current Default

GLOBAL

Fields Displayed

NAME	FIELD DESCRIPTION
ACID	NAS Aircraft ID
TYPE	Aircraft Type
ETD	Estimated Time of Departure
ETA	Estimated Time of Arrival
DCENTR	Departure Center
ORIG	Origin Airport
AFIX	Arrival Fix
DFIX	Departure Fix
DEST	Destination Airport
TMA-RT	TMA Release Time

Up   Down

OK   Cancel

TMA-RT added to flight list fields

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TMA Release Time (TMA-RT) Field cont.

Flight List: PHL 06/1547 LIVE

File   View   Flight List   Help

PHL   03/06/2015   15:47Z

Current Info

Data: Arrivals
Filter(s):   Ground Stopped OR Dep (Past ETD) OR Dep (No CTD) OR Dep (CTD Issued) OR Dep (CTD Other Element) O
             06/1700 and 06/1759

	ACID	TYPE	ETD	ETA ▲	DCENTR	ORIG	AFIX	DFIX	DEST	TMA-RT
1	AWE775	B752	E06/1341	E06/1705	ZSU	TJSJ	JIIMS	–	PHL	–
2	RPA4637	E170	L06/1637	L06/1706	ZDC	BWI	DQO	SWANN	PHL	–
3	AAL1210	B738	A06/1458	E06/1707	ZMA	MIA	ESSSO	HEDLY	PHL	–
4	SWA1128	B737	A06/1547	E06/1709	ZTL	ATL	ESSSO	DAWGS	PHL	–
5	TCF5900	145	L06/1623	E06/1713	ZDC	RDU	ESSSO	FAK	PHL	–
			535	E06/1716	ZAU	GRR	BUNTS	–	PHL	–
			549	L06/1717	ZNY	EWR	PTW	WHITE	PHL	–
			528	L06/1718	ZOB	PIT	BUNTS	JST	PHL	–
			610	E06/1721	ZID	DAY	BUNTS	–	PHL	–
			427	E06/1723	ZDV	DEN	BUNTS	EXTAN	PHL	–
11	EJA565	C56X	A06/1504	E06/1724	ZMA	07FA	ESSSO	–	PHL	–
12	AWE1748	A321	A06/1507	E06/1728	ZFW	DFW	ESSSO	TRRCH	PHL	–
13	PDT4745	DH8A	L06/1635	L06/1730	ZDC	PHF	VCN	–	PHL	–
14	AWE1944	A319	L06/1639	L06/1734	ZTL	CLT	ESSSO	MERIL	PHL	–
15	AWI3896	CRJ2	L06/1655	L06/1734	ZNY	LGA	VCN	WHITE	PHL	–
16	JIA5211	CRJ2	L06/1625	L06/1735	ZID	DAY	BUNTS	–	PHL	–
17	AWE1933	A319	L06/1615	L06/17						

ETD should update to TMA-RT time, pre-fixed with "M"

TMA-RT field in flight list will contain the scheduled TBFM departure time

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Task #68: CDM Data

- **Evaluate current TFMS data elements to identify which specific data elements:**
  - Will be restricted from distribution beyond CDM-members and, if restricted, to what degree
  - Will be required as a basis for CDM membership in the CDM data exchange process, making provisions for Airport Authority membership

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The CDM Automation Team

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- **Charlie Mead**   **AAL**
- **Mike McAfee**   **FDX**
- **Jim McClay**   **NBAA**
- **Clay Whitesell**   **UAL**
- **Mike Namendorf**   **JBU**
- **Brett Gilbertson**   **DAL**
- **RB Haggerty**   **A4A**
- **Scott Fritz**   **AAL**

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