Metro

Automatic Passenger Counter (APC)

Data Warehouse Data Dictionary

August 2007

Release v3.0   Service Performance Analysis

Table of Contents

Overview

A. Purpose of Document

The Data Dictionary provides an explanation of all the data elements found within the 4 classes of the Automatic Passenger Counter (APC) data warehouse. This is a reference for navigating the APC data warehouse, not an end user guide for using the APC data warehouse.

When the Data Dictionary is updated, users will be able to find the most current version on the Service Performance Analysis intranet page.

B. BusinessObjects Product Overview

BusinessObjects is the On-Line-Analytical-Processing (OLAP) user front-end of the APC data warehouse. BusinessObjects is the multidimensional tool used to analyze, report, graph and data mine the APC information contained in the data warehouse.

There are two variables used in the APC data warehouse:
1) Dimension (Blue Cube)- Objects that return alphanumeric data in a query.
2) Measure (Pink Sphere)- Objects that retrieve numeric data that is a result of calculations on data in the source database.

BusinessObjects training is being provided on an as-needed basis by Service Performance Analysis staff.

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I. APC STOP LEVEL

Booking Id
Description
'Booking Id' is a number that identifies the booking (schedule) in effect. It is in the form of yyyymm. (e.g., 200606)

Transit Date
Description
'Transit Date' is the day of the month associated to the schedule being used on the vehicle. For a given date/time, the transit day would be the same day or the day before. The transit day will be the day before for trips starting before 24:00. It is in the form mm/dd/yy. (e.g., 10/26/2006)

Trip Number (HASTUS)
Description
'Trip Number (HASTUS)' is the HASTUS 9-digit unique number that identifies the trip. (e.g., 14608438)

Day Type
Description
'Day Type' is a short text description that identifies the service type: Weekday=DX, Saturday=SA, Sunday=SU. (e.g., DX)

Division
Description
'Division' is the number of the Metro Bus Division assigned to the trip. (e.g., 10)

Bus Run Route
Description
'Bus Run Route' is the Block Route. This is the first part of the Bus Run. (e.g., 33 from Bus Run 33-5)

Line
Description
'Line' is the Trip Route (HASTUS) number being operated. This is the number for the multiple route branches. (e.g., 4)

Route
Description
'Route' is the route of the branch being operated by the 'Line'. For trips where the 'Route' equals the 'Line', this is a branch route of the 'Route'. For trips where the 'Route' does not equal the 'Line', this is a branch route of the 'Line'. (e.g., 4)

Bus Run Id
Description
'Bus Run Id' is the suffix of the Bus Run number (Block ID). This is the Block Route-Run ID combination that appears on the Running Board. (e.g., 31 of Bus Run 51-31)

Workrun Id
Description
'Workrun Id' is the Operator work run in effect for this trip. (e.g., 33031)

Trip Pattern Id
Description
'Trip Pattern Id' is the HASTUS identifier of the pattern being operated by the trip. (e.g., 67)

Direction
Description
'Direction' is the text name of the scheduled direction of the trip: North, East, South West, Clockwise and Counterclockwise. (e.g., East)

Trip Number (MTA)
Description
'Trip Number (MTA)' is the four-digit number that identifies each trip being operated on a specific line. This number is unique only to a Line. (e.g., 1000)

Schd Trip Start Time
Description
'Schd Trip Start Time' is the scheduled departure time from the trip start terminal, in hh:mm:ss format. (e.g., 03:48:00)

Schd Trip Start Time SSM
Description
'Schd Trip Start Time SSM' is the scheduled departure time from the trip start terminal, expressed in seconds, starting at midnight of the transit date. (e.g., 13,680)

Actl Trip Start Time
Description
'Actl Trip Start Time' is the actual departure time from the trip start terminal, in hh:mm:ss format. (e.g., 03:31:45)

Actl Trip Start Time SSM
Description
'Actl Trip Start Time SSM' is the scheduled actual time from the trip start terminal, expressed in seconds, starting at midnight of the transit date. (e.g., 12,705)

Bus Stop Id
Description
'Bus Stop Id' is the HASTUS bus stop identification number. (e.g., 6019)

Bus Stop Name
Description
'Bus Stop Name' is the name of the bus stop with identifying cross streets. (e.g., SANTA MONICA / HIGHLAND)

Bus Stop Sequence
Description
'Bus Stop Sequence' is the scheduled sequence of the bus stop for the trip. (e.g., 67)

Schd Stop Time
Description
'Schd Stop Time' is the scheduled departure time from the stop, in hh:mm:ss format. This will be blank for stops other than time points. (e.g. 04:29:00)

Schd Stop Time SSM
Description
'Schd Stop Time SSM' is the scheduled departure time from the stop, expressed in seconds, starting at midnight of the transit date. This will be blank for stops other than time points. (e.g., 16,140)

Door Open Time
Description
'Door Open Time' is the time of the first door open at the bus stop, in hh:mm:ss format. (e.g., 04:30:40)

Door Open Time SSM
Description
'Door Open Time SSM' is the time of the first door open at the bus stop, expressed in seconds, starting at midnight of the transit date. (e.g., 16240)

Door Open Time Id (20 Min Intvl)
Description
'Door Open Time Id (20 Min Intvl)' is the time of the first door open at the bus stop, expressed in the period number of a day divided into 72, 20-minute periods (period 1 = 00:00:00-00:19:59; period 40= 12:20:00-12:39:59; period 76 = 01:00:00-01:19:59). If the trip goes beyond midnight, this will be greater than 72. (e.g., 13)

Door Open Time Id (Hour Intvl)
Description
'Door Open Time Id (Hour Intvl)' is the time of the first door open at the bus stop, expressed in the period number of a day divided into 24, 1 hour periods (period 1 = 00:00-00:59; period 24 = 23:00-23:59; period 26= 01:00-01:59). If the trip goes beyond midnight, this will be greater than 24. (e.g., 5)

Door Open Time Id (20 Min Mil Time)
Description
'Door Open Time ID (20 Min Mil Time)' is the time of the first door open at the bus stop, represented in starting military time of the 20-minute interval (15:39:49 = 1520). (e.g., 440)

Ons
Description
'Ons' is the total number of boardings through all doors at a stop where the doors opened. (e.g., 2)

Offs
Description
'Offs' is the total number of alightings through all doors at a stop where the doors opened. (e.g., 0)

Load
Description
'Load' is on-board count at stop departure. (e.g., 25)

Avg Ons
Description
'Avg Ons' is the average number of boardings through all doors at a stop where the doors opened. This is used for queries where multiple instances of the same stop/trip are used to calculate the average from "Ons". (e.g., 2.58)

Avg Offs
Description
Avg Offs " is the average total number of alightings through all doors at a stop where the doors opened. This used for queries where multiple instances of the same stop/trip are used to calculate the average from "Offs". (e.g., 7.63)

Avg Load
Description
'Avg Load' is the average load at a stop. This is used for queries where multiple instances of the same stop/trip are used to calculate the average from "Load". (e.g., 25.00)

Number of Vehicle Seats
Description
'Number of Vehicle Seats' is the seat capacity for each vehicle. (e.g., 43)

Load Factor
Description
'Load Factor' is the ratio of load to the number of seats available on each vehicle. (e.g., 0.581)

Trip Max Load
Description
'Trip Max Load' is highest load for any stop on that trip. (e.g., 48)

Door Close Time
Description
'Door Close Time' is the time of the last door close at the bus stop, in hh:mm:ss format. (e.g., 04:30:47)

Door Close Time SSM
Description
'Door Close Time SSM' is the time of the last door close at the bus stop, expressed in seconds, starting at midnight of the transit date. (e.g., 16,247)

Door Close Time Id (20 Min Intvl)
Description
'Door Close Time Id (20 Min Intvl)' is the time of the last door close at the bus stop, expressed in the period number of a day divided into 72, 20-minute periods (period 1 = 00:00-00:19; period 72 = 23:40-23:59). If the trip goes beyond midnight, this will be greater than 72. (e.g., 13)

Door Close Time Id (Hour Intvl)
Description
'Door Close Time Id (Hour Intvl)' is the time of the last door close at the bus stop, expressed in the period number of a day divided into 24, 1 hour periods (period 1 = 00:00-00:59; period 24 = 23:00-23:59). If the trip goes beyond midnight, this will be greater than 24. (e.g., 5)

Door Close Time Id (20 Min Mil Time)
Description
'Door Close Time Id (20 Min Mil Time)' is the time of the last door close at the bus stop, represented in military time (15:39:49 = 1520). (e.g., 420)

Dwell Time
Description
'Dwell Time' is the number of seconds between the earliest open door and latest close door at a given bus stop location. (e.g., 7)

Revenue Seconds
Description
'Revenue Seconds' is the number of seconds between 2 consecutive stops measured from door open to door open on a revenue trip. The time is measured from the previous stop (i.e. the stop identified in this record) to the current stop. (e.g., 67)

Schd Revenue Distance
Description
'Schd Revenue Distance' is the scheduled distance, expressed in miles, between scheduled stops. The distance is measured from the previous stop (i.e. the stop identified in this record) to the current stop. (e.g., .20152)

Cumulative Schd Revenue Distance
Description
'Cumulative Schd Revenue Distance' is the scheduled distance, expressed in miles, between the scheduled trip start terminal and the current stop. (e.g., 11.3508)

Previous Bus Stop Id
Description
'Previous Bus Stop Id' is the HASTUS bus stop identification number of the preceding stop. If the current stop is the first stop of the trip, the value '999999999' will be used. (e.g., 6028)

Previous Bus Stop Name
Description
'Previous Bus Stop Name' is the name of the preceding bus stop with identifying cross streets. (e.g., SANTA MONICA / ORANGE)

Next Bus Stop Id
Description
'Next Bus Stop Id' is the HASTUS bus stop identification number of the following stop. If the current stop is the last stop of the trip, the value '999999999' will be used. (e.g., 6025)

Next Bus Stop Name
Description
'Next Bus Stop Name' is the name of the following bus stop with identifying cross streets. (e.g., SANTA MONICA / LAS PALMAS)

Bus Stop First & Last Indicator
Description
'Bus Stop First & Last Indicator' is a text code that identifies the first and last time points of a trip, assigning an 'F' or 'L'. (e.g., F)

Previous Dwell Time
Description
'Previous Dwell Time' is the number of seconds between the earliest open door and latest close door at the previous bus stop. (e.g., 3)

Schd Segment Arrival Time
Description
'Schd Segment Arrival Time' is the scheduled arrival time for the segment containing the selected bus stop, in hh:mm:ss format. This is the preceding time point. (e.g., 04:29:00)

Schd Segment Arrival Time SSM
Description
'Schd Segment Arrival Time SSM' is the scheduled arrival time for the segment containing the selected bus stop, expressed in seconds. This is the preceding time point. (e.g., 16,140)

Schd Segment Departure Time
Description
'Schd Segment Departure Time' is the scheduled departure time for the segment containing the bus stop, in hh:mm:ss format. This is the next time point. This is the same as 'Schd Segment Arrival Time' if it is the last segment of the trip. (e.g., 06:05:00)

Schd Segment Departure Time SSM
Description
'Schd Segment Departure Time SSM' Time' is the scheduled departure time for the segment containing the selected bus stop, expressed in seconds, starting at midnight of the transit date. This is the next time point. This is the same as 'Schd Segment Arrival Time' if it is the last segment of the trip. (e.g., 21,900)

Time Point Id
Description
'Time Point Id' is the 6-character place ID, from HASTUS, for the time point name. (e.g., SANHIG)

From Time Point Id
Description
'From Time Point Id' is the 6- character place ID, from HASTUS, for the name of the time point preceding the bus stop. (e.g., SANFAI)

To Time Point Id
Description
'To Time Point Id' is the 6- character place ID, from HASTUS, for the name of the time point after the bus stop. (e.g., SANHIG)

Operating Day
Description
'Operating Day' is a single letter abbreviation for the day of the week of the transit date: s=sun; m=mon; u=tues; w=wed; t=thurs; f=fri; a=sat. (s – m – u- w – t – f – a). (e.g., t)

Schd Operating Day(s)
Description
'Schd Operating Day(s)' is a concatenation of single letter abbreviations for each day the trip is scheduled to operate. The abbreviations used are the same as those used for Operating Day. (e.g., muwtf)

Event Status
Description
'Event Status' is used to denote a the school schedule: SCH0= School Off; SCH1= School On. (ie, SCH0)

Operator Id
Description
'Operator Id' is the badge number that the Operator used to log on. (e.g., 25896)

Vehicle Number
Description
'Vehicle Number' is the fleet number assigned to the vehicle operating the trip. (e.g., 1259)

Vehicle Latitude
Description
'Vehicle Latitude' is the latitude snapped to route and reported in decimal degrees. (e.g., 34.090601)

Vehicle Longitude
Description
'Vehicle Longitude' is the longitude snapped to route and reported in decimal degrees. (e.g., -118.338259)

Data Source (A/E)
Description
'Data Source (A/E)' is a text code that shows whether the stop is actual (A) or inserted (E). APC only records data for stops that have door activity (open/close). The time element at unrecorded scheduled stops is estimated based on schedule stop time distribution. (e.g., A, E)

Data Source Change Indicator
Description
'Data Source Change Indicator' is a text code that shows an uncorrelated stop (Stop ID= 0) that is then correlated based on the stop time, assigning a "C". (e.g., C)

Import Error
Description
'Import Error' is a text code that identifies an ATMS import error, assigning 1 of 16 codes {see appendix A}. (e.g., 0)

Delta (Schd – Close)
Description
'Delta (Schd – Close)' is the amount of seconds elapsed from the scheduled stop time until actual door close. (e.g., 62.00)

Record Count
Description
'Record Count' is the number of retrieved records as a result of the query. (e.g., 1, 5, 10)

Type of Day
Description
'Type of Day' is a description of the service being operated for a selected date: Weekday or Weekend. (e.g., Weekday)

II.   TIME INTERVALS

Door Open Time Intervals

Door Open- 20 Min Intervals

20 Min Intrvl StartTime-Door Open
Description
'20 Min Intrvl StartTime-Door Open' is the time of the first door open at the bus stop, expressed as the start time for that 20-minute interval. (e.g., 04:20:00)

20 Min Intrvl End Time-Door Open
Description
'20 Min Intrvl End Time-Door Open' is the time of the first door open at the bus stop, expressed as the end time for that 20-minute interval. (e.g., 04:39:59)

20 Min Intrvl Desc-Door Open
Description
'20 Min Intrvl Desc-Door Open' is the time of the first door open at the bus stop, expressed as range of time for that 20-minute interval. (e.g., 04:20:00 – 04:39:59)

Door Open Time Id (20 Min Intrvl)
Description
'Door Open Time Id (20 Min Intrvl)' is the time of the first door open at the bus stop, expressed in the period number of a day divided into 72, 20-minute periods. If the trip goes beyond midnight, this will be greater than 72. (e.g., 13)

Door Open Time Intervals

Door Open- Hour Intervals

Hour Intrvl Start Time-Door Open
Description
'Hour Intrvl Start Time-Door Open' is the time of the first door open at the bus stop, expressed as the start time for that one-hour interval. (e.g., 04:00:00)

Hour Intrvl End Time-Door Open
Description
'Hour Intrvl End Time-Door Open' is is the time of the first door open at the bus stop, expressed as the end time for that one-hour interval. (e.g., 04:59:59)

Hour Intrvl Desc-Door Open
Description
'Hour Intrvl Desc-Door Open' is the time of the first door open at the bus stop, expressed as range of time for that one-hour interval. (e.g., 04:00:00 – 04:59:59)

Door Open Time Id (Hour Intrvl)
Description
'Door Open Time Id (Hour Intrvl)' is the time of the first door open at the bus stop, expressed in the period number of a day divided into 24, one-hour periods. If the trip goes beyond midnight, this will be greater than 24. (e.g., 5)

Door Close Time Intervals

Door Close- 20 Min Intervals

20 Min Intrvl StartTime-Door Close
Description
'20 Min Intrvl StartTime-Door Close' is the time of the last door close at the bus stop, expressed as the start time for that 20-minute interval. (e.g., 04:20:00)

20 Min Intrvl End Time-Door Close
Description
'20 Min Intrvl End Time-Door Close' is the time of the last door close at the bus stop, expressed as the end time for that 20-minute interval. (e.g., 04:39:59)

20 Min Intrvl Desc-Door Close
Description
'20 Min Intrvl Desc-Door Close' is the time of the last door close at the bus stop, expressed as range of time for that 20-minute interval. (e.g., 04:20:00 – 04:39:59)

Door Close Time Id (20 Min Intrvl)
Description
'Door Close Time Id (20 Min Intrvl)' is the time of the last door close at the bus stop, expressed in the period number of a day divided into 72, 20-minute periods. If the trip goes beyond midnight, this will be greater than 72. (e.g., 13)

Door Close Time Intervals

Door Close- Hour Intervals

Hour Intrvl Start Time-Door Close
Description
'Hour Intrvl Start Time-Door Close' is the time of the last door close at the bus stop, expressed as the start time for that one-hour interval. (e.g., 04:00:00)

Hour Intrvl End Time-Door Close
Description
'Hour Intrvl End Time-Door Close' is is the time of the last door close at the bus stop, expressed as the end time for that one-hour interval. (e.g., 04:59:59)

Hour Intrvl Desc-Door Close
Description
'Hour Intrvl Desc-Door Close' is the time of the last door close at the bus stop, expressed as range of time for that one-hour interval. (e.g., 04:20:00 – 04:39:59)

Door Close Time Id (Hour Intrvl)
Description
'Door Close Time Id (Hour Intrvl)' is the time of the last door close at the bus stop, expressed in the period number of a day divided into 24, one-hour periods. If the trip goes beyond midnight, this will be greater than 24. (e.g., 1, 5, 10)

Schedule Data Time Intervals

Schedule Data- 20 Min Intervals

20 Min Intrvl Schedule Start Time
Description
'20 Min Intrvl Schedule Start Time' is the scheduled time of the bus stop, expressed as the start time for that 20-minute interval. (e.g., 04:20:00)

20 Min Intrvl Schedule End Time
Description
'20 Min Intrvl Schedule End Time' is the scheduled time of the bus stop, expressed as the end time for that 20-minute interval. (e.g., 04:39:59)

20 Min Intrvl Schedule Desc
Description
'20 Min Intrvl Schedule Desc' is the scheduled time of the bus stop, expressed as range of time for that 20-minute interval. (e.g., 04:20:00 – 04:39:59)

Schedule Time Id (20 Min Intrvl)
Description
'Schedule Time Id (20 Min Intrvl)' is the scheduled time of the bus stop, expressed in the period number of a day divided into 72, 20-minute periods. If the trip goes beyond midnight, this will be greater than 72. (e.g., 13)

Schedule Data Time Intervals

Schedule Data- Hour Intervals

Hour Intrvl Schedule Start Time
Description
'Hour Intrvl Schedule Start Time' is the scheduled time of the bus stop, expressed as the start time for that hour interval. (e.g., 04:00:00)

Hour Intrvl Schedule End Time
Description
'Hour Intrvl Schedule End Time' is the scheduled time of the bus stop, expressed as the end time for that hour interval. (e.g., 04:59:59)

Hour Intrvl Schedule Desc
Description
'Hour Intrvl Schedule Desc' is the scheduled time of the bus stop, expressed as range of time for that hour interval. (e.g., 04:00:00 – 04:59:59)

Schedule Time Id (Hour Intrvl)
Description
'Schedule Time Id (Hour Intrvl)' is the scheduled time of the bus stop, expressed in the period number of a day divided into 24, one-hour periods. If the trip goes beyond midnight, this will be greater than 24. (e.g., 1, 5, 10)

III. SCHEDULE STOP LEVEL

Booking Id
Description
'Booking Id' is a number that identifies the booking (schedule) in effect. It is in the form of yyyymm. (e.g., 200606)

Day Type
Description
'Day Type' is a short text description that identifies the service type: Weekday=DX, Saturday=SA, Sunday=SU. (e.g., DX)

Division
Description
'Division' is the number of the Metro Bus Division assigned to the trip. (e.g., 10)

Direction
Description
'Direction' is the text name of the scheduled direction of the trip: North, East, South, West. (e.g., East)

Line
Description
'Line' is the Trip Route (HASTUS) number being operated. This is the number for the multiple route branches. (e.g., 4)

Route
Description
'Route' is the route of the branch being operated by the 'Line'. For trips where the 'Route' equals the 'Line', this is a branch route of the 'Route'. For trips where the 'Route' does not equal the 'Line', this is a branch route of the 'Line'. (e.g., 4)

Trip Number (MTA)
Description
'Trip Number (MTA)' is the four-digit number that identifies each trip being operated on a specific line. This number is unique only to a Line ('Bus Run ID'). (e.g., 1000)

Trip Number (HASTUS)
Description
'Trip Number (HASTUS)' is the HASTUS 9-digit unique number that identifies the trip. (e.g., 14608438)

Bus Stop Id
Description
'Bus Stop Id' is the HASTUS bus stop identification number. (e.g., 6019)

Bus Stop Name
Description
'Bus Stop Name' is the name of the bus stop with identifying cross streets. (e.g., SANTA MONICA / HIGHLAND)

Bus Stop Sequence
Description
'Bus Stop Sequence' is the scheduled sequence of the bus stop for the trip. (e.g., 67)

Bus Stop Time
Description
'Bus Stop Time' is the scheduled departure time from the stop, in hh:mm:ss format. This will be blank for stops other than time points. (e.g., 04:29:00)

Bus Stop Time SSM
Description
'Bus Stop Time' is the scheduled departure time from the stop, expressed in seconds, starting at midnight of the transit date. This will be blank for stops other than time points. (e.g., 16,140)

Bus Stop Time Id (Hour Intvl)
Description
'Bus Stop Id (Hour Intvl)' is the scheduled departure time from the stop, expressed in the period number of a day divided into 24, one-hour periods. If the trip goes beyond midnight, this will be greater than 24. (e.g., 5)

Bus Stop Time Id (20 Min Intrvl)
Description
'Bus Stop Id (20 Min Intrvl)' is the scheduled departure time from the stop, expressed in the period number of a day divided into 72, 20-minute periods. If the trip goes beyond midnight, this will be greater than 72. (e.g., 14)

Seconds Until Next Bus Stop
Description
'Seconds Until Next Bus Stop' is the total seconds that elapse between the current and next scheduled bus stop. (e.g., 36)

Bus Stop Latitude
Description
'Bus Stop Latitude' is the latitude of the bus stop, as assigned in HASTUS each shakeup, expressed in decimal degrees. (e.g., 34.090601)

Bus Stop Longitude
Description
'Bus Stop Longitude' is the longitude of the bus stop, as assigned in HASTUS each shakeup, expressed in decimal degrees. (e.g., -118.338259)

Bus Stop First & Last Indicator
Description
'Bus Stop First & Last Indicator' is a text code that identifies the first and last time points of a trip, assigning an 'F' or 'L'. (e.g., F)

Revenue Distance
Description
'Revenue Distance' is the scheduled distance, expressed in miles, between scheduled stops. The distance is measured from this stop (i.e. the stop identified in this record) to the next stop record. (e.g., 0.20152)

Time Point Id
Description
'Time Point Id' is the 6-character place ID, from HASTUS, for the time point name. (e.g., SANHIG)

Load Stop Indicator
Description
'Load Stop Indicator' is a text code that identifies two consecutive time points with an identical stop.

Previous Bus Stop Id
Description
'Previous Bus Stop Id' is the 6-character place ID, from HASTUS, for the preceding time point. If the current stop is the first stop of the trip, the value '999999999' will be used. (e.g., 6028)

Previous Bus Stop Name
Description
'Previous Bus Stop Name' is the name of the preceding bus stop with identifying cross streets. (e.g., SANTA MONICA / ORANGE)

Next Bus Stop Id
Description
'Next Bus Stop Id' is the 6-character place ID, from HASTUS, for the following time point. If the current stop is the last stop of the trip, the value '999999999' will be used. (e.g., 6025)

Next Bus Stop Name
Description
'Next Bus Stop Name' is the name of the following bus stop with identifying cross streets. (e.g., SANTA MONICA / LAS PALMAS)

Segment Arrival Time
Description
'Segment Arrival Time' is the scheduled time arrival time for the segment start location containing the selected bus stop, in hh:mm:ss format. This is normally the scheduled arrival time at the preceding time point. (e.g., 04:29:00)

Segment Arrival Time SSM
Description
'Segment Arrival Time SSM' is the scheduled time arrival time for the segment start location containing the selected bus stop, expressed in seconds, starting at midnight of the transit date. This is normally the scheduled arrival time at the preceding time point. (e.g., 16,140)

Trip Start Time
Description
'Trip Start Time' is the scheduled start time for the trip containing the selected bus stop, in hh:mm:ss format. (e.g., 05:14:00)

Trip Start Time SSM
Description
'Trip Start Time' is the scheduled start time for the trip containing the selected bus stop, expressed in seconds, starting at midnight of the transit date. (e.g., 18,840)

Segment Departure Time
Description
'Segment Departure Time' is the scheduled time departure time for the segment end location containing the selected bus stop, in hh:mm:ss format. This is the next time point. This is the same as 'Schd Segment Arrival Time' if it is the last segment of the trip. (e.g., 04:34:00)

Segment Departure Time SSM
Description
'Segment Departure Time SSM' Time' is the scheduled time departure time for the segment end location containing the selected bus stop, expressed in seconds, starting at midnight of the transit date. This is the next time point. This is the same as 'Schd Segment Arrival Time SSM' if it is the last segment of the trip. (e.g., 16,440)

Trip Pattern Id
Description
'Trip Pattern Id' is the HASTUS identifier of the pattern being operated by the trip. (e.g., 67)

Schd Operating Day(s)
Description
'Schd Operating Day(s)' is a concatenation of single letter abbreviations for each day the trip is scheduled to operate. The abbreviations used are the same as those used for Operating Day. (e.g., muwtf)

Event Status
Description
'Event Status' is used to denote the schoolschedule: SCH0= School Off; SCH1=
School On. (ie, SCH0)

Schd Record Count
Description
'Schd Record Count' is the number of retrieved records as a result of the query. (e.g.,
1, 33)

IV.   LINE STOP ANALYSIS FEED

Booking Id
Description
'Booking Id' is a number that identifies the booking (schedule) in effect. It is in the form of yyyymm. (e.g., 200606)

Bus Stop Id
Description
'Bus Stop Id' is the HASTUS bus stop identification number. (e.g., 6019)

Direction
Description
'Direction' is the text name of the scheduled direction of the trip: North, East, South West, Clockwise and Counterclockwise. (e.g., East)

Direction Code Id
Description
'Direction Code Id' is the numerical representation for the direction of the trip: 1=Clockwise; 2=East; 3=North; 4=South; 5=West; 6=Counterclockwise. (e.g., 2)

Direction Number
Description
'Direction Number is the numerical representation for the direction of the trip, divided into 2 categories: 0=Clockwise, East and North; 1=Counterclockwise, South and West. (e.g., 0)

Line
Description
'Line' is the Trip Route number being operated. This differs from the 'Bus Run Route' for foreign line trips. (e.g., 4)

Bus Stop Name
Description
'Bus Stop Name' is the name of the bus stop with identifying cross streets. (e.g., SANTA MONICA / HIGHLAND)

Order Number
Description
'Order Number' is the scheduled sequence of the bus stop for the single direction of the line. (e.g. 67)

Stop Latitude
Description
'Stop Latitude' is the latitude of the bus stop expressed in decimal degrees. (e.g., 34.090601)

Stop Longitude
Description
'Stop Longitude' is the longitude of the bus stop expressed in decimal degrees. (e.g., -118.338259)

Appendix A

Import Error Codes:

0. No Error
1. No Booking
2. Pattern Correlation
3. <no longer used>
4. No stop Found
5. Door event without logon
6. Door event without trip
7. Max load negative
8. Max on
9. Max off
10. Unreasonable mileage
11. <no longer used>
12. <no longer used>
13. Failed to move ons to next trip
14. No previous distance and time
15. Max dwell time