Appendix G

Event Log Matrix

OBS Event Log
Data Fields and Descriptions

	Freq	Data Fields	Description	Terminology
1	All	VID	VehicleID = unique KCM coach no.	
2	All	Operator ID	OperatorID = Unique KCM employee ID	(not currently the same number)
3	All	Block ID	Hastus Block ID	Identify version to be used: GIS, AVL
4	All	Block Route	Route No. used in "Route/Run" block identifier entered at login	
5	All	Block Run	Run No. used in "Route/Run" block identifier entered at login	
6	All	Service Route	Route No. associated with TripID	optional
7	All	Trip ID	Trip number starting at trip 1 - deadhead to first terminal	Identify version to be used: GIS, AVL
8	All	Trip Type	Kind of trip = Revenue Route, Deadhead between service trips, Deadhead to/from base and terminal, Non-Rev: training, maintenance, etc.	0 = None 1 = Dummy 2 = Route:Var Trip 3 = Non-Route:Var Trip
9	All	Dest Sign Text	Route No. and Type displayed on the destination sign, i.e. 5 or 5E	
10	All	Pattern ID	Unique pattern ID from Hastus (includes route, part, service type and direction)	Identify version to be used: GIS, AVL
11	All	Dest Sign Code	Code associated with destination sign display, e.g. 4F=No Passengers	
12	All	Event Type	Category of Event = reason for logging data	0 = Undefined 1 = Operator ID 2 = Distance 3 = Stop 4 = Route 5 = Block ID 6 = Radio 7 = Off Route 8 = On Route 9 = End of Trip 10 = New Trip 11 = APC 12 = Work 13 = Trip 14 = Trigger Point 15 = AVM
13	All	Event Time Stamp	Date and time that the event occurred	time format to be agreed on by users and supported by the databases to be used

14	**All**	**Work Status**	VLU state = not ready, login=known work, Unknown, Corrupt Schedule,	0 = Not Ready 1 = Ready 2 = Unknown Block ID 3 = Corrupt Schedule File 4 = Unkown Error 6 = No Schedule File 8 = No Work or End of Work
15	**All**	**Route Status**	Current status = on, off, end of route/trip, new trip, etc.	0 = Off Route 1 = On Route GPS 2 = On Route Verified 3 = End of Trip 4 = New Trip
16	**All**	**Navigation State**	Relates to Work Status: On = Know work w/schedule; Off = Unknown work or w/o schedule	0 = Navigation Off, No Route Selected or On/Off key set off
17	**All**	**Odometer (ft)**	Odometer reading when the event occurred	1 = Navigation On, Route selected and On/Off key set on
18	**All**	**Latitude**	(WGS 84) (Decimal Degrees)	
19	**All**	**Longitude**	(WGS 84) (Decimal Degrees)	
20	**All**	**Heading**	The compass heading indicating the direction of travel.	
21	**All**	**OBDB Version**	Current on-board DB, e.g. bi-weekly update or re-route edits to Svc. Chg.	
22	**All**	**Service Change**	Service change number from DDB/TED	
23	**All**	**Schedule Type**	Weekday, Saturday, Sunday/Holiday, Partial Holiday, Holiday Plus, Special, etc.	
24	**All**	**Fare Set (optional)**	Default fare set on the fare transaction processor a.k.a. smart card reader	1 = $0(free), 2 = $1.25(1&2 Zone Offpeak) 3 = $1.50 (1 Zone Peak) 4 = $2.00 (2 Zone Peak) 5 = $.25 (Reduced Offpeak) 6 = $.50 (Reduced Peak) 7 = $.75 (Youth)
25	Var	Stop Event Type	Event related to scheduled or unscheduled stop	1 = Scheduled Stop 2 = Additional stop in same zone 3 = UnServiced Scheduled Stop 4 = Unkown Stop
26	Var	Stop ID #	Unique KCM StopPointZone ID	
27	Var	Stop Exit Time (sec)	time exited zone	
28	Var	Stop Speed (ft/sec)	Unserviced Stop = Current speed when entering zone	
29	Var	Stop Status	Missed stop - when a vehicle goes off-route and entirely missed a stop before getting back on route.	
30	Var	Front Pass On	Boardings through front door	

31	Var	Middle Pass On	Boardings through middle door	
32	Var	Rear Pass On	Boardings through rear door	
33	Var	Lift/Ramp Pass On	Boardings via lift or ramp	
34	Var	Front Pass Off	Alightings through front door	
35	Var	Middle Pass Off	Alightings through middle door	
36	Var	Rear Pass Off	Alightings through rear door	
37	Var	Lift/Ramp Pass Off	Alightings via lift or ramp	
38	Var	Passenger Load	Number of passenger on-board at time of event	
39	Var	TimePoint ID	Unique KCM timepoint ID	
40	Var	TimePoint Status	Timepoint - detected or not detected	0 = Timepoint detected 1 = Timepoint not detected
41	Var	Timpoint Entry	Arrival time at a timepoint based on offset distance	
42	Var	Timpoint Exit	Departure time at a timepoint based on offset distance	
43	Var	Schedule Deviation	Measured as leaving the timepoint.	
44	Var	Trigger Point Type	Trigger event related to time & location, e.g. change destination sign, change fare set, etc.	0 =None 1 = Scheduled Timepoint 2 = Dest Sign Change Timepoint 3 = Exterior Announcement Change 4 = Interior Announcement 5 = Fare Set Change 6 = Road Relief
45	Var	Radio Event Type	Data: poll response, CCS login ACK, text msg sent, etc.; Voice: PRTT sent, All Call received, etc.	
46	Var	VLU Message	Messages from OBS system to Operator and/or CCS	
47	Var	Alarm Type	Events characterized as alarms: e.g. EA, AVM "red" status alarm, OBS component health status, etc.	
48	Var	Device ID	Related to Alarm Type: OBS component or AVM system generating the alarm	
49	Var	Capture Camera Flag	Operator initiates security camera system to save digital video for automatic download: EA or "Save Event" button pressed	
50	Var	AVM Event Type	Vehicle system operates outside of threshold: e.g. Battery Strength below lower limit	
51	Var	File Error	Code associated with file type and error type, e.g. corrupt OBDB schedule	
52	Var	Device Error Type	Code associated with OBS device and error type, e.g. Odometer input fault	

Part C, Statement of Work   **King County Metro**
Appendices   **OBS/CCS RFP #04-001**
Appendix G,Event Log Matrix

OBS Event Log
Event Types

Event Type	Event Type Description	Terminology
0 = Undefined	Unknown event - VLU failure that the system is unable to fit into other category	
1 = Operator ID	New OperatorID	
2 = Distance	Vehicle traveled defined distance w/o event being recorded	
3 = Stop	Vehicle stops & door opens (scheduled or unscheduled) or unserviced stop.	
4 = Route	New Route No. - may not occur with destination sign change	
5 = Block ID	New Login - Route/Run	
6 = Radio	Traffic (voice or data) from vehicle-to-CCS or CCS-to-Vehicle, e.g. radio call, poll response,CCS ACK, text msg.	
7 = Off Route	Change in status from on route to off route	
8 = On Route	Change in status from off route to on route	
9 = End of Trip	Vehicle arrives at end of trip terminal	
10 = New Trip	Vehicle arrives at beginning of trip terminal	
11 = APC	APC signals boarding or alighting detected (only if door open)	
12 = Work	Revenue vs non-revenue; no work scheduled for block on the day entered e.g. holiday schedule	
13 = Trip	Trip number – every trip including deadhead trips should be numbered in sequence.	Same as 10 = new trip?

Event Type	Event Type Description	Terminology
14 = Trigger Point	Event trigger identified by route adherence manager	
15 = AVM	Alarm generated by vehicle system computer (engine, brakes, etc.) e.g. Battery Strength below lower limit	