

ATTACHMENT 2
DATA STANDARDS

TABLE 1 - BCD DATA

Label	Eqpt ID (Hex)	Parameter Name	Units	Range (Scale)	Sig Bits	Pos Sense	Resolution	Min Transit Interval (msec) 2	Max Transit Interval (msec) 2	Max Transport Delay (msec) 3	Notes & Cross Ref. to Tables and Attachments
0 0 1	0 0 2	Distance to Go	N.M.	±3999.9	5		0.1	100	200		6-25
	0 5 6	Distance to Go	N.M.	±3999.9	5		0.1	100	200		
	0 6 0	Distance to Go	N.M.	±3999.9	5		0.1	100	200		
0 0 2	0 0 2	Time to Go	Min	0-399.9	4		0.1	100	200		6-25
	0 5 6	Time to Go	Min	0-399.9	4		0.1	100	200		
	0 6 0	Time to Go	Min	0-399.9	4		0.1	100	200		
	1 1 5	Time to Station	Min	0-399.9	4		0.1	50	50		
0 0 3	0 0 2	Cross Track Distance	N.M.	0-399.9	4		0.1	100	200		6-25
0 0 4	0 0 1	Runway Distance to Go	Feet	0-79900	3		100.0	100	200		
0 1 0	0 0 2	Present Position - Latitude	Deg:Min	180N-180S	6	N	0.1	250	500		Section 2.1.2
	0 0 4	Present Position - Latitude	Deg:Min	180N-180S	6	N	0.1	250	500		Section 2.1.2
	0 3 8	Present Position - Latitude	Deg:Min	180N-180S	6	N	0.1	250	500		
0 1 1	0 0 2	Present Position - Longitude	Deg:Min	180E-180W	6	E	0.1	250	500		
	0 0 4	Present Position - Longitude	Deg:Min	180E-180W	6	E	0.1	250	500		
	0 3 8	Present Position - Longitude	Deg:Min	180E-180W	6	E	0.1	250	500		
0 1 2	0 0 2	Ground Speed	Knots	0-7000	4		1.0	250	500		6-25
	0 0 4	Ground Speed	Knots	0-7000	4		1.0	250	500		
	0 4 D	Qty-LD SEL (LB)	Lbs.	0-79999	5		1.0				
	0 0 5	Ground Speed	Knots	0-7000	4		1.0	250	500		
	0 2 5	Ground Speed	Knots	0-7000	4		1.0	125	250		
	0 3 8	Ground Speed	Knots	0-7000	4		1.0	250	500		
	0 5 6	Ground Speed	Knots	0-7000	4		1.0	250	500		
	0 6 0	Ground Speed	Knots	0-7000	4		1.0	250	500		
0 1 3	0 0 2	Track Angle - True	Deg	0-359.9	4		0.1	250	500		6-25
	0 0 4	Track Angle - True	Deg	0-359.9	4		0.1	250	500		
	0 4 D	Qty-Flt. Deck (LB)	Lbs.	0-79999	5		1.0				
	0 3 8	Track Angle - True	Deg	0-359.9	4		0.1	250	500		
0 1 4	0 0 4	Magnetic Heading	Deg	0-359.9	4		0.1	250	500		
	0 0 5	Magnetic Heading	Deg	0-359.9	4		0.1	250	500		
	0 3 8	Magnetic Heading	Deg	0-359.9	4		0.1	250	500		
0 1 5	0 0 2	Wind Speed	Knots	0-799	3		1.0	250	500		
	0 0 4	Wind Speed	Knots	0-799	3		1.0	250	500		
	0 0 5	Wind Speed	Knots	0-799	3		1.0	250	500		
	0 3 8	Wind Speed	Knots	0-799	3		1.0	250	500		
0 1 6	0 0 4	Wind Direction - True	Deg	0-359	3		1.0	250	500		
	0 3 8	Wind Direction - True	Deg	0-359	3		1.0	250	500		
0 1 7	0 1 0	Selected Runway Heading	Deg	0-359.9	4		0.1	167	333		
	0 4 D	Total-Flt. Deck (LB)	Lbs.	0-79999	5		1.0				
	0 5 5	Selected Runway Heading	Deg	0-359.9	4		0.1				
	0 A 0	Selected Runway Heading	Deg	0-359.9	4		0.1	167	333		
	0 B 0	Selected Runway Heading	Deg	0-359.9	4		0.1	167	333		
0 2 0	0 2 0	Selected Vertical Speed	Ft/Min	±6000	4		1.0	100	200		6-25
	0 4 D	Tnk-LD SEL (LB)	Lbs.	0-79999	5		1.0				
	0 A 1	Selected Vertical Speed	Ft/Min	±6000	4	Up	1.0	100	200		
0 2 1	0 0 2	Selected EPR	EPR	0-3	4		0.001	100	200		
	0 0 2	Selected N1	RPM	0-3000	4		1	100	200		
	0 2 0	Selected EPR	EPR	0-3	4		0.001	100	200		
	0 2 0	Selected N1	RPM	0-3000	4		1	100	200		
	0 A 1	Selected EPR	EPR	0-3	3		0.001	100	200		

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	0 A 1	Selected N1	RPM	0-3000	4		1	100	200		
0 2 2	0 2 0	Selected Mach	Mach	0-4	4		0.001	100	200		
	0 4 D	Qty-LD SEL (KG)	Kg	0-79999	5		1.0				
	0 A 1	Selected Mach	Mach	0-4	4		0.001	100	200		
0 2 3	0 2 0	Selected Heading	Deg	0-359	3		1.0	100	200		6-25
	0 4 D	Qty-Flt Deck (KG)	Kg	0-79999	5		1.0				
	0 A 1	Selected Heading	Deg	0-359	3		1.0	100	200		
0 2 4	0 1 1	Selected Course #1	Deg	0-359	3		1.0	167	333		6-25
	0 2 0	Selected Course #1	Deg	0-359	3		1.0	167	333		
	0 A 1	Selected Course #1	Deg	0-359	3		1.0	167	333		
	0 B 1	Selected Course #1	Deg	0-359	3		1.0	167	333		
0 2 5	0 2 0	Selected Altitude	Feet	0-50000	5		1.0	100	200		6-25
	0 A 1	Selected Altitude	Feet	0-50000	5		1.0	100	200		
0 2 6	0 0 3	Selected Airspeed	Knots	30-450	3		1.0	100	200		6-25
	0 2 0	Selected Airspeed	Knots	30-450	3		1.0	100	200		
	0 A 1	Selected Airspeed	Knots	30-450	3		1.0	100	200		
0 2 7	0 0 2	TACAN Selected Course	Deg	0-359	3		1.0	167	333		
	0 1 1	Selected Course #2	Deg	0-359	3		1.0	167	333		
	0 2 0	Selected Course #2	Deg	0-359	3		1.0	167	333		
	0 4 D	Total-Flt Deck (KG)	Kg	0-79999	5		1.0				
	0 5 6	TACAN Selected Course	Deg	0-359	3		1.0	167	333		
	0 6 0	TACAN Selected Course (BCD)	Deg	0-359	3		1.0	167	333		
	0 A 1	Selected Course #2	Deg	0-359	3		1.0	167	333		
	0 B 1	Selected Course #2	Deg	0-359	3		1.0	167	333		
0 3 0	0 2 0	VHF COM Frequency		See Chapter 3				100	200		6-45
	0 2 4	VHF COM Frequency		See Chapter 3				100	200		
	0 4 D	TNK-LD SEL (KG)	Kg	0-79999	5		1.0				
	0 B 6	VHF COM Frequency		See Chapter 3				100	200		
0 3 1	0 2 0	Beacon Transponder Code		See Chapter 3				100	200		6-46
	0 B 8	Beacon Transponder Code		See Chapter 3				100	200		
0 3 2	0 1 2	ADF Frequency		See Chapter 3				100	200		6-40
	0 2 0	ADF Frequency		See Chapter 3				100	200		
	0 B 2	ADF Frequency		See Chapter 3				100	200		
0 3 3	0 0 2	ILS Frequency		See Chapter 3				167	333		6-44
	0 1 0	ILS Frequency		See Chapter 3				167	333		
	0 2 0	ILS Frequency		See Chapter 3				167	333		
	0 5 6	ILS Frequency		See Chapter 3				167	333		
	0 6 0	ILS Frequency		See Chapter 3				167	333		
	0 B 0	ILS Frequency		See Chapter 3				167	333		
0 3 4	0 0 2	VOR/ILS Frequency		See Chapter 3				167	333		6-44-1
	0 0 6	Baro Correction (mb) #3	mb	745-1050	5		0.1	62.5	125		
	0 1 1	VOR/ILS Frequency		See Chapter 3				167	333		
	0 2 0	VOR/ILS Frequency		See Chapter 3				167	333		
	0 5 6	VOR/ILS Frequency		See Chapter 3				167	333		
	0 6 0	VOR/ILS Frequency #1		See Chapter 3				167	333		
	0 B 0	VOR/ILS Frequency		See Chapter 3				167	333		
0 3 5	0 0 2	DME Frequency		See Chapter 3				100	200		6-41
	0 0 6	Baro Correction (ins of Hg) #3	ins Hg	22-31	5		0.001	62.5	125		
	0 0 9	DME Frequency		See Chapter 3				100	200		
	0 2 0	DME Frequency		See Chapter 3				100	200		

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	0 5 5	Paired DME Frequency	MHz	108-135.9	4		0.05				
	0 5 6	DME Frequency		See Chapter 3				100	200		
	0 6 0	DME Frequency		See Chapter 3				100	200		
	0 A 9	DME Frequency		See Chapter 3				100	200		
0 3 6	0 0 2	MLS Frequency		See Chapter 3				100	200		
	0 2 0	MLS Frequency		See Chapter 3				100	200		
	0 5 5	MLS Channel Selection		500-600	3		1				
	0 5 6	MLS Frequency Channel		See Chapter 3				100	200		
	0 6 0	MLS Frequency Channel		See Chapter 3				100	200		
	0 C 7	MLS Frequency		See Chapter 3				100	200		
0 3 7	0 2 0	HF COM Frequency		See Chapter 3				100	200		6-42
	0 B 9	HF COM Frequency		See Chapter 3				100	200		
0 4 1	0 0 2	Set Latitude	Deg/Min	180N/180S	6	N	0.1	250	500		
	0 0 4	Set Latitude	Deg/Min	180N/180S	6	N	0.1	250	500		
	0 2 0	Set Latitude	Deg/Min	180N/180S	6	N	0.1	250	500		
	0 5 6	Set Latitude	Deg/Min	180N/180S	6	N	0.1	250	500		
	0 6 0	Set Latitude	Deg/Min	180N/180S	6	N	0.1	250	500		
	0 A 4	Set Latitude	Deg/Min	180N/180S	6	N	0.1	250	500		
0 4 2	0 0 2	Set Longitude	Deg/Min	180E/180W	6	E	0.1	250	500		
	0 0 4	Set Longitude	Deg/Min	180E/180W	6	E	0.1	250	500		
	0 2 0	Set Longitude	Deg/Min	180E/180W	6	E	0.1	250	500		
	0 5 6	Set Longitude	Deg/Min	180E/180W	6	E	0.1	250	500		
	0 6 0	Set Longitude	Deg/Min	180E/180W	6	E	0.1	250	500		
	0 A 4	Set Longitude	Deg/Min	180E/180W	6	E	0.1	250	500		
0 4 3	0 0 2	Set Magnetic Heading	Deg	0-359	3		1.0	250	500		
	0 0 4	Set Magnetic Heading	Deg	0-359	3		1.0	250	500		
	0 2 0	Set Magnetic Heading	Deg	0-359	3		1.0	250	500		
	0 5 6	Set Magnetic Heading	Deg	0-359	3		1.0	250	500		
	0 6 0	Set Magnetic Heading	Deg	0-359	3		1.0	250	500		
	0 A 4	Set Magnetic Heading	Deg	0-359	3		1.0	250	500		
0 4 4	0 0 4	True Heading	Deg	0-359.9	4		0.1	250	500		
	0 3 8	True Heading	Deg	0-359.9	4		0.1	250	500		
0 4 5	0 0 3	Minimum Airspeed	Knots	0-259.9	4		0.1	62.5	125		
0 4 6	0 3 3	Engine Serial No. (LSDs)						500	1000		6-15
	1 0 A	Engine Serial No. (LSDs)						500	1000		6-15
	1 0 B	Engine Serial No. (LSDs)						500	1000		6-15
0 4 7	0 2 0	VHF Com Frequency	See Chap. 3					100	200		
	0 2 4	VHF Com Frequency	See Chap. 3					100	200		
	0 3 3	Engine Serial No. (MSDs)						500	1000		6-16
	1 0 A	Engine Serial No. (MSDs)						500	1000		6-16
	1 0 B	Engine Serial No. (MSDs)						500	1000		6-17
	0 B 6	VHF Com Frequency	See Chap. 3					100	200		
0 5 2	0 3 7	Long. Zero Fuel CG	% MAC	0-100.00	5		0.01	100	200		
0 5 3	0 0 5	Track Angle-Magnetic	Deg	0-359	3		1.0	250	500		
0 5 6	0 0 2	Estimated Time of Arrival	Hr:Min	0-23.59.9	5		0.1	250	500		
	0 0 5	Wind Direction - Magnetic	Deg	0-359	3		1.0	250	500		
	0 3 7	Gross Weight (Kilograms)	100 kg	0-19999	5		1.0	100	200		
	0 5 6	ETA (Active Waypoint)	Hr:Min	0-23.59.9	5		0.1	250	500		
	0 6 0	ETA (Active Waypoint)	Hr:Min	0-23.59.9	5		0.1	250	500		

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0 6 0	0 2 5	S/G Hardware Part Number			4						6-36
	0 3 7	Tire Loading (Left Body Main)	%	0-299.9	4		0.1	100	200		
0 6 1	0 2 5	S/G Software Config. Part No.			4						6-37
	0 3 7	Tire Loading (Right Body Main)	%	0-299.9	4		0.1	100	200		
0 6 2	0 3 7	Tire Loading (Left Wing Main)	%	0-299.9	4		0.1	100	200		
0 6 3	0 3 7	Tire Loading (Right Wing Main)	%	0-299.9	4		0.1	100	200		
0 6 4	0 3 7	Tire Loading (Nose)	%	0-299.9	4		0.1	100	200		
0 6 5	0 0 3	Gross Weight	100 lb.	0-12000	5		1.0	100	200		
	0 3 7	Gross Weight	100 lb.	0-19999	5		1.0	100	200		
0 6 6	0 0 2	Longitudinal Center of Gravity	% MAC	0-100.00	5		0.01	500	1000		
	0 3 7	Longitudinal Center of Gravity	% MAC	0-100.00	5		0.01	100	200		
0 6 7	0 3 7	Lateral Center of Gravity	% MAC	0-100.00	5		0.01	100	200		
1 2 5	0 0 2	Universal Time Coordinate	Hr-Min	0-23.59.9	4		0.1	100	200		6-25
	0 0 B	UTC	Hr:Min	0-23:59.9	5		0.1	200	1200		
	0 3 1	Universal Time Coordinate	Hr:Min	0-23.59.9	5		0.1	100	200		
	0 5 6	Universal Time Coordinate	Hr-Min	0-23.59.9	4		0.1	100	200		
	0 6 0	Universal Time Coordinate (UTC)	Hr-Min	0-23.59.9	4		0.1	100	200		
1 3 5	0 5 A	ACT 1 Fuel Quan. Display	Kg/Lb	0-9999	4		100	100	200		
1 3 6	0 5 A	ACT 2 Fuel Quan. Display	Kg/Lb	0-9999	4		100	100	200		
1 3 7	0 5 A	Center+Act1+Act2 FQ Display	Kg/Lb	0-9999	4		100	100	200		
1 4 0	0 5 A	Actual Fuel Quan. Display	Kg/Lb	0-9999	4		100	100	200		
1 4 1	0 5 A	Preselect Fuel Quan. Display	Kg/Lb	0-9999	4		100	100	200		
1 4 2	0 5 A	Left Wing Fuel Quan. Display	Kg/Lb	0-9999	4		100	100	200		
1 4 3	0 5 A	Center Wing Fuel Quan. Display	Kg/Lb	0-9999	4		100	100	200		
1 4 4	0 5 A	Right Wing Fuel Quan. Display	Kg/Lb	0-9999	4		100	100	200		
1 5 5	0 2 7	MLS Selected GP Angle	Deg	0-359.9	4		0.1	100	200		
1 5 7	1 1 4	Trim Tank Probe Capacitance	pf	0-400	4		1.0				
1 6 3	0 3 7	Zero Fuel Weight (lb)	Lbs.	0-19999	5		1.0	100	200		
1 6 5	0 0 7	Radio Height	Feet	±7999.9	5		0.1	25	200		6-25
1 7 0	0 2 5	Decision Height Selected (EFI)	Feet	±7000	4		1.0	100	200		6-25
	0 C 5	Decision Height Selected (EFI)	Feet	±7000	4		1.0	100	200		6-25
2 0 0	0 0 2	Drift Angle	Deg	±180	4		0.1	100	200		
	0 0 4	Drift Angle	Deg	±180	4		0.1	100	200		
	0 5 6	Drift Angle	Deg	±180	4		0.1	100	200		
	0 6 0	Drift Angle	Deg	±180	4		0.1	100	200		

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2 0 1	0 0 9	DME Distance	N.M.	-1-399.99	5		0.01	83.3	167		6-1-1
	1 1 2	TACAN Distance	N.M.	0-399.99	5		0.01	190	210		
	1 1 5	DME Distance	N.M.	0-399.99	5		0.01	50	50		
2 0 5	0 0 2	HF COM Freq (New Format)									
	0 B 9	HF COM Freq (New Format)									
2 0 7	0 2 5	Operational Software Parts			4						6-37
2 3 0	0 0 6	True Airspeed	Knots	100-599	3		1.0	250	500		6-25
	0 3 8	True Airspeed	Knots	100-599	3		1.0	250	500		
2 3 1	0 0 6	Total Air Temperature	Deg C	-060+099	3		1.0	250	500		
	0 3 8	Total Air Temperature	Deg C	-060+099	3		1.0	250	500		
	1 1 4	Inner 2 Tank Probe Capacitance	pf	0-400	4		1.0				
2 3 2	0 0 4	Altitude Rate	Ft/Min	±20000	4	Up	10.0	31.3	62.5		6-25
	0 0 5	Altitude Rate	Ft/Min	±20000	4	Up	10.0	31.3	62.5		
	0 0 6	Altitude Rate	Ft/Min	±20000	4	Up	10.0	31.3	62.5		
	1 1 4	Inner 4 Tank Probe Capacitance	pf	0-400	4		1.0				
2 3 3	0 0 6	Static Air Temperature	Deg C	-099 to +060	3		1.0	250	500		6-25
	0 3 8	Static Air Temperature	Deg C	-099 to +060	3		1.0	250	500		
	1 1 4	Right Outer Probe Capacitance	pf	0-400	4		1.0				
2 3 4	0 0 6	Baro Correction (mb) #1	mb	745-1050	5		0.1	62.5	125		
	0 3 8	Baro Correction (mb) #1	mb	745-1050	5		0.1	62.5	125		
2 3 5	0 0 6	Baro Correction (ins of Hg) #1	ins Hg	22-31	5		0.001	62.5	125		6-25
	0 3 8	Baro Correction (ins of Hg) #1	ins Hg	22-31	5		0.001	62.5	125		6-25
2 3 6	0 0 6	Baro Correction (mb) #2	mb	745-1050	5		0.1	62.5	125		
	0 3 8	Baro Correction (mb) #2	mb	745-1050	5		0.1	62.5	125		
2 3 7	0 0 6	Baro Correction (ins of Hg) #2	ins Hg	22-31	5		0.001	62.5	125		
	0 3 8	Baro Correction (ins of Hg) #2	ins Hg	22-31	5		0.001	62.5	125		
2 4 3	0 3 7	Zero Fuel Weight (kg)	Kg	0-19999	5		1.0	100	200		
2 6 0	0 0 2	Date/Flight Leg	N/A					500	1000		
	0 0 B	Date	dd:mo:yr	dd:mm:yr	6		4				
	0 3 1	Date	N/A					100	200		6-18
	0 5 6	Date/Flight Leg	N/A					500	1000		
	0 6 0	Date/Flight Leg	N/A					500	1000		
	0 A 2	Date/Flight Leg	N/A					500	1000		
2 6 1	0 0 2	Flight Number	N/A	0-9999	4		1.0	500	1000		6-9
	0 A 2	Flight Number	N/A	0-9999	4		1.0	500	1000		
	0 5 6	Flight Number	N/A	0-9999	4		1.0	500	1000		
	0 6 0	Flight Number	N/A	0-9999	4		1.0	500	1000		
2 7 2	0 5 A	Fuel Density	Kg/cu.m.	0-9999	4		0.0001	100	200		ARINC 429 P2
2 7 3	0 5 A	Sensor Values Left Wing Tank	pF	0-100	3		100	200			
2 7 4	0 5 A	Sensor Values Center Wing Tank	pF	0-100	3		0.1	100	200		
2 7 5	0 5 A	Sensor Values Right Wing Tank	pF	0-100	3		0.1	100	200		
3 4 5	0 0 2	NDB Effectivity							1000		
3 5 0	1 1 4	Fuel Density	kg/l	0-.999	4		0.01				ARINC 429 P2

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