

The messages defined in the Flight Vehicle Command Messages table shall compose the Flight Vehicle Command Functional Group of messages [DLI 3488]. The Flight Vehicle Command messages shall not be able to be sent between a CUCS and VSM without an authorized connection [DLI 3489].

New Msg #	Description	Push/Pull	Source	Allowable Max Latency (msec)
2000	Vehicle Configuration Command	Push	CUCS	1,000
2005	Flight Termination Command	Push	CUCS	500
2007	Unmanned Aircraft Lights	Push	CUCS	500
2008	Engine Command	Push	CUCS	500
2009	Zeroize Encryption Keys Command	Push	CUCS	500
2010	UA Stick Command Message	Push	CUCS	200
2011	Area Transmission Command	Push	CUCS	1000
2012	Area Polygon Loop Segment Message	Push/Pull	CUCS/VSM	1000
2013	Joystick Command	Push	CUCS	200
2014	Emergency Mode Command	Push	CUCS	500
2015	Energy Storage Unit Configuration	Push	CUCS	500
2016	Vehicle Operating Mode Command	Push	CUCS	500
2017	Loiter Configuration	Push	CUCS	500
2018	Slave to Sensor Configuration	Push	CUCS	500
2019	Slave to Location Configuration	Push	CUCS	500
2020 - 2999	Unassigned message types in the range of 2000 –2999 are reserved			

**Table 4 - 7: Flight Vehicle Command Messages**

#### 4.1.1.3 Flight Vehicle Status Functional Group

The messages defined in the Flight Vehicle Status Messages table shall compose the Flight Vehicle Status Functional Group of messages [DLI 3490]. The Flight Vehicle Status messages shall not be able to be sent between a CUCS and VSM without an authorized connection, with the exception of Message #3000, Vehicle Configuration Message in response to a specific configuration request via Message #17002, Generic Information Request Message [DLI 3491].

New Msg #	Description	Push/Pull	Source	Allowable Max Latency (msec)
3000	Vehicle Configuration	Pull	VSM	1,000
3001	Vehicle Operating Mode Report	Push/Pull	VSM	500
3002	Vehicle Operating States	Push/Pull	VSM	500

New Msg #	Description	Push/Pull	Source	Allowable Max Latency (msec)
3003	Reserved	-	-	-
3004	Loiter Configuration Report	Push/Pull	VSM	500
3005	Flight Termination Mode Report	Push/Pull	VSM	500
3006	Vehicle Lights State	Push/Pull	VSM	500
3007	Engine Operating States	Push/Pull	VSM	500
3008	Zeroize Encryption Keys State	Push/Pull	VSM	500
3009	Air and Ground Relative States	Push	VSM	500
3010	Body-Relative Sensed States	Push	VSM	200
3011	UA Stick Status Message	Push	VSM	200
3012	Area Status Alert Message	Push	VSM	1,000
3013	Area Transmission Status	Pull	VSM	1,000
3014	Emergency Mode Report	Pull	VSM	500
3015	Energy Storage Unit State	Push/Pull	VSM	500
3016	Relative Route/Waypoint/Location Report	Push/Pull	VSM	1,000
3017-3999	Unassigned message types in the range of 3000 – 3999 are reserved			

**Table 4 - 8: Flight Vehicle Status Messages****4.1.1.4 Flight Vehicle Payload Relevant Status Functional Group**

The messages defined in the Flight Vehicle Payload Relevant Status Messages table shall compose the Flight Vehicle Payload Relevant Status Functional Group of messages [DLI 3492]. The Flight Vehicle Payload Relevant Status Messages have been distinguished from the other Flight Vehicle Status Messages to limit implementation of messages on a system, CUCS and VSM that require the flight vehicle orientation, or location knowledge, to correctly implement LOI 3 monitor capabilities for a payload. The Flight Vehicle Payload Relevant Status Messages shall not be able to be sent between a CUCS and VSM without an authorized connection [DLI 3493].

New Msg #	Description	Push/Pull	Source	Allowable Max Latency (msec)
4000	Inertial States	Push	VSM	500
4001	From-To-Next Waypoint States	Push	VSM	1000
	Unassigned message types in the range of 4000 – 4999 are reserved			

**Table 4 - 9: Flight Vehicle Payload Relevant Status Message****4.1.1.5 IFF/SSR Command Functional Group**

The messages defined in the IFF/SSR Command Messages table shall compose the IFF/SSR Command Functional Group of messages [DLI 3494]. The IFF/SSR Command Messages shall not be transmitted between a CUCS and VSM without an authorized connection [DLI 3495].

New Msg #	Description	Push/Pull	Source	Allowable Max Latency (msec)
5000	IFF/SSR Code Command	Push	CUCS	500
5001	IFF/SSR Identification of Position Command	Push	CUCS	500
5002	IFF Key Control Command	Push	CUCS	500
5003	IFF/SSR BIT Command	Push	CUCS	500
	Unassigned message types in the range of 5000 – 5999 are reserved			

**Table 4 - 10: IFF Command Messages**

#### 4.1.1.6 IFF/SSR Status Functional Group

The messages defined in the IFF/SSR Status Messages table shall compose the IFF/SSR Status Functional Group of messages [DLI 3496]. The IFF/SSR Status Messages shall not be transmitted between a CUCS and VSM without an authorized connection [DLI 3497].

New Msg #	Description	Push/Pull	Source	Allowable Max Latency (msec)
6000	IFF/SSR Status Report	Push/Pull	VSM	500
	Unassigned message types in the range of 6000 – 6999 are reserved			

**Table 4 - 11: IFF Status Messages**

#### 4.1.1.7 ATC Interface Command Functional Group

The messages defined in the ATC Interface Command Messages table shall compose the ATC Interface Command Functional Group of messages [DLI 3498]. The ATC Interface Command Messages shall not be transmitted between a CUCS and VSM without an authorized connection [DLI 3499].

New Msg #	Description	Push/Pull	Source	Allowable Max Latency (msec)
7000	Civilian Air Traffic Control (ATC) Radio Command	Push	CUCS	500
7001	NAVAID Radio Command	Push	CUCS	500
	Unassigned message types in the range of 7000 – 8999 are reserved			

**Table 4 - 12: ATC Interface Command Messages**

#### 4.1.1.8 ATC Interface Status Functional Group

The messages defined in the ATC Interface Status Messages table shall compose the ATC Interface Status Functional Group of messages [DLI 3500]. The ATC Interface Status Messages shall not be transmitted between a CUCS and VSM without an authorized connection [DLI 3501].

New Msg #	Description	Push/Pull	Source	Allowable Max Latency (msec)
9000	Civilian Air Traffic Control (ATC) Radio Status	Push/Pull	VSM	500
9001	NAVAID Radio Status	Push/Pull	VSM	500
	Unassigned message types in the range of 9000 – 10999 are reserved			

**Table 4 - 13: ATC Interface Status Messages**

#### 4.1.1.9 Vehicle Auxiliary Command Functional Group

The messages defined in the Vehicle Auxiliary Command Messages table shall compose the Vehicle Auxiliary Command Functional Group of messages [DLI 3502]. The Vehicle Auxiliary Command Messages shall not be transmitted between a CUCS and VSM without an authorized connection [DLI 3503].

New Msg #	Description	Push/Pull	Source	Allowable Max Latency (msec)
11000	Vehicle Auxiliary Command	Push	CUCS	500
11001	Fuel, Oil, & Hydraulic Commands	Push	CUCS	500
11101	Battery Bank Select	Push	CUCS	500
	Unassigned message types in the range of 11000 – 11999 are reserved			

**Table 4 - 14: Vehicle Auxiliary Command Messages**

#### 4.1.1.10 Vehicle Auxiliary Status Functional Group

The messages defined in the Vehicle Auxiliary Status Messages table shall compose the Vehicle Auxiliary Status Functional Group of messages [DLI 3504]. The Vehicle Auxiliary Status Messages shall not be transmitted between a CUCS and VSM without an authorized connection [DLI 3505].

New Msg #	Description	Push/Pull	Source	Allowable Max Latency (msec)
12000	Vehicle Auxiliary Status	Push/Pull	VSM	500
12001	Electrical Report	Push	VSM	500
12002	Meteorological Data	Push	CUCS	500
12003	Fuel, Oil, & Hydraulic Status	Push	VSM	500

New Msg #	Description	Push/Pull	Source	Allowable Max Latency (msec)
12101	Battery Report	Push	VSM	500
	Unassigned message types in the range of 12003 – 12999 are reserved			

**Table 4 - 15: Vehicle Auxiliary Status Messages****4.1.1.11 Mission Command and Status Functional Group**

The messages defined in the Mission Command and Status Messages table shall compose the Mission Command and Status Functional Group of messages [DLI 3506]. The Mission Command and Status messages shall not be able to be sent between a CUCS and VSM without an authorized connection [DLI 3507].

New Msg #	Description	Push/Pull	Source	Allowable Max Latency (msec)
13000	Mission Transfer Command	Push	CUCS/VSM	500
13001	UA Route	Push/Pull	CUCS/VSM	500
13002	UA Position Waypoint	Push/Pull	CUCS/VSM	500
13003	UA Loiter Waypoint	Push/Pull	CUCS/VSM	500
13004	Payload Action Waypoint	Push/Pull	CUCS/VSM	500
13005	Airframe Action Waypoint	Push/Pull	CUCS/VSM	500
13006	Vehicle Specific Waypoint	Push/Pull	CUCS/VSM	500
13007	Define Contingency	Push/Pull	CUCS/VSM	500
13008	IFF/SSR Action Waypoint	Push/Pull	CUCS/VSM	500
13009	Data Recorder Action Waypoint	Push/Pull	CUCS/VSM	500
13010	VSM Flight Data Record Stream	Push	CUCS/VSM	2,000
13011	Playback Control Command	Push	CUCS	500
14000	Mission Upload/Download Status	Push	VSM	500
	Unassigned message types in the range of 13000 – 14999 are reserved			

**Table 4 - 16: Mission Command and Status Messages****4.1.1.12 Subsystem Status Functional Group**

The messages defined in the Subsystem Status Messages table shall compose the Subsystem Status Functional Group of messages [DLI 3508]. The Subsystem Status Messages shall not be able to be sent between a CUCS and VSM without an authorized connection [DLI 3509].