

Data Link Features

- Data Link Terminology
- Flight Data Block Information
- Data Link Status List
- Data Link Transfer of Communication
- Data Link Keyboard Commands

Data Link Terminology

uplink	a message sent up from the ground to the flight deck.
downlink	a message sent down from the flight deck to the ground.
eligibility	sector can communicate with aircraft via Data Link. Only one sector at a time has eligibility.
status list	list of ongoing transactions. Status list entries have 4 elements: (1) a "." for selecting the transaction, (2) aircraft ID, (3) transaction specific info, (4) the transaction's current status.
transaction	a data link exchange (uplink and reply, downlink and reply) between flight deck and ground.
trial plan uplink	provisional altitude or route modification clearance; trial plans can be uplinked to the aircraft as new route or altitude (UC). Clearance is entered into HOST and sent to aircraft at same time.

Data Link

Flight Data Block Information



status the following data link status symbols are found in the flight data block (left of the call sign):

symbols ◆: eligibility ◇: no eligibility ⚡: TOC in progress ↑: uplink in progress

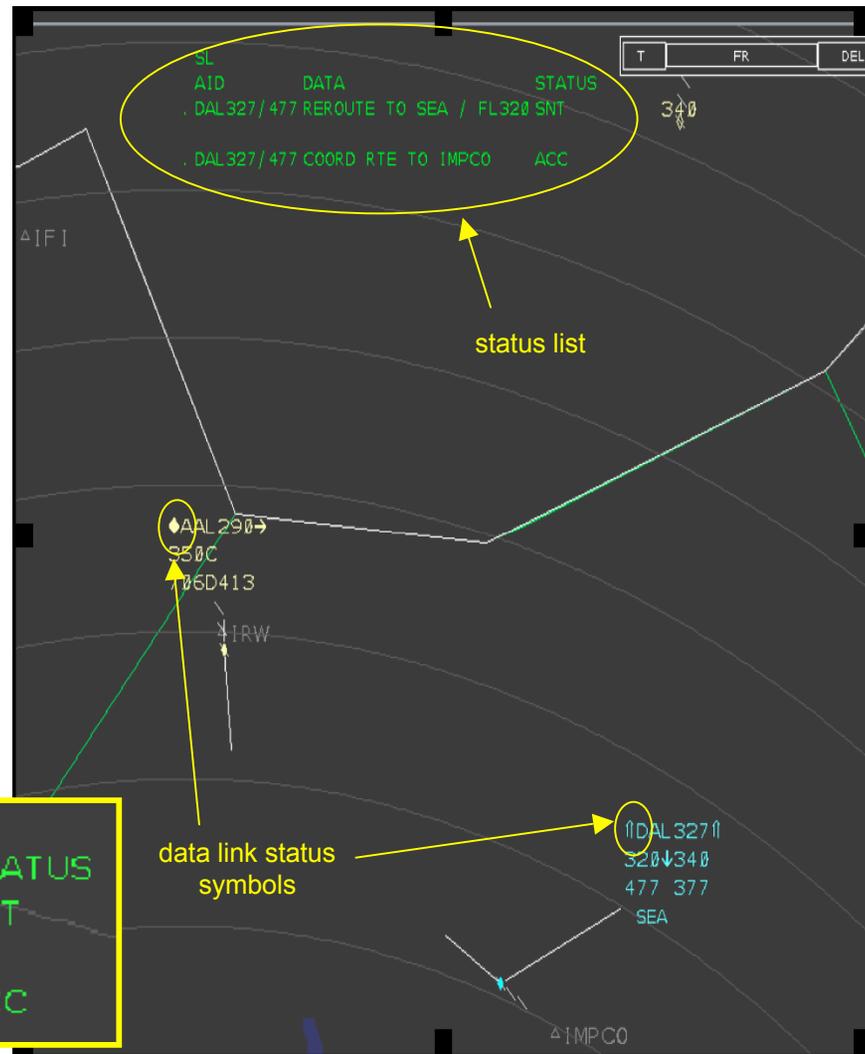
→: coordination request (right of callsign) [NOT USED FOR DAC]

- A filled diamond (◆) indicates that the sector has “eligibility”, and can send and receive messages to the aircraft. Data link eligibility usually accompanies track control, but the transfer mechanism is separate.
- An unfilled diamond (◇) indicates that the sector does not have “eligibility” (i.e., cannot communicate with this aircraft via CPDLC).
- A lightning bolt (⚡) indicates that a transfer of communication (and transfer of eligibility) is in progress.
- An up arrow (↑) indicates that a message has been “uplinked” from the controller to the aircraft. The uplink may be a clearance, frequency, or text message.
- A side arrow (→) indicates a coordination request which is a clearance request sent to the CPDLC eligible controller from another ground position or MSP.

Data Link: Status List

Status List (SL):

- (.) for selecting transaction
- AID: aircraft ID
- DATA: identifies the transaction and list information
- STATUS: shows transactions current status

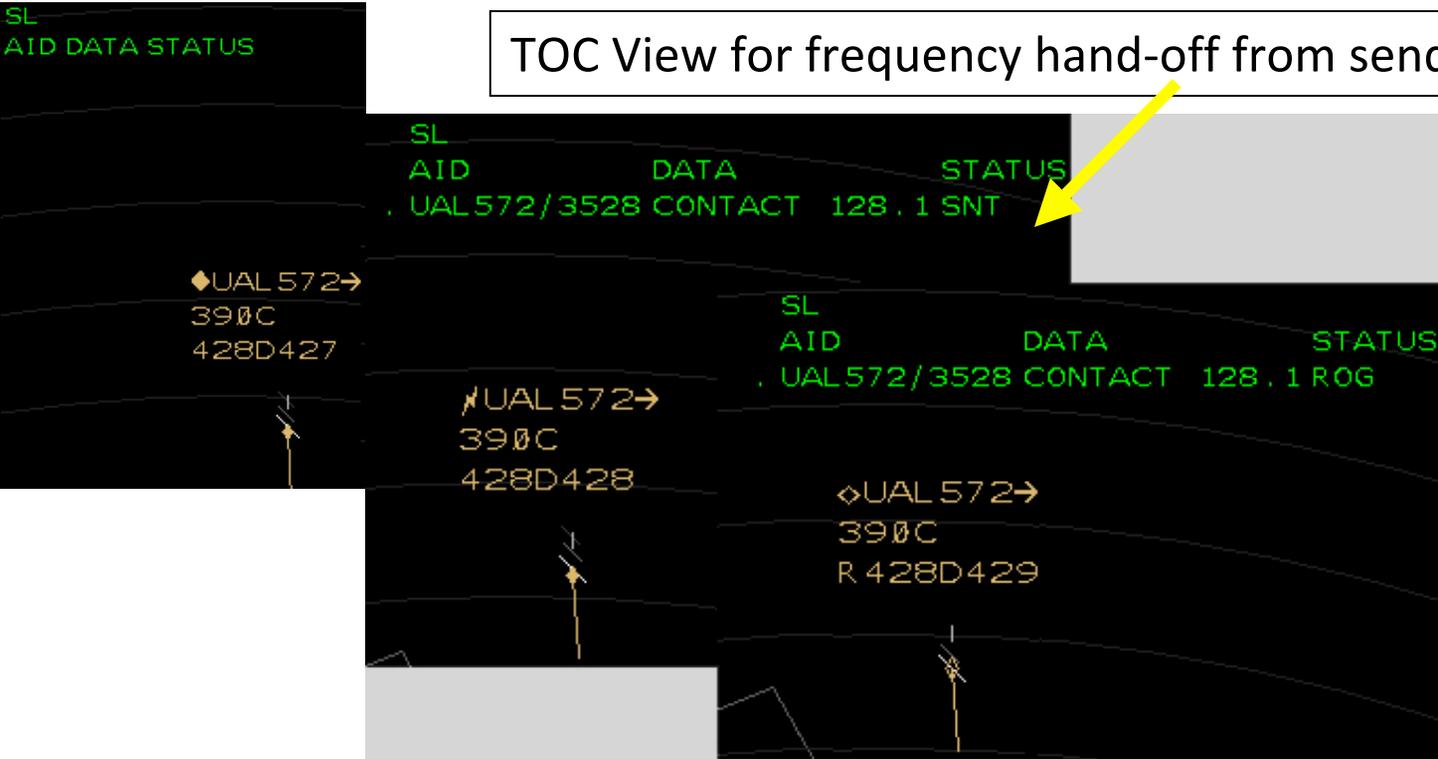


SL	AID	DATA	STATUS
.	DAL327/477	REROUTE TO SEA / FL320 SNT	
.	DAL327/477	COORD RTE TO IMPC0	ACC

Sample Data Link TOC

(Transfer of Communication)

TOC View for frequency hand-off from sending sector:



TOC View for accepting hand-off frequency change from receiving sector:



Summary of Data Link Keyboard Commands

Data Link to Airplane: Uplink Clearance “UC”

UC [CID] (with coordination trial plan shown)	Uplinks trial plan to [CID] and sends affirmative response to originating ATC position regarding proposed trial plan
UC [CID] (with no speed advisory or trial plan shown)	Data link current host route to [CID]
UC [CID] (with trial plan shown)	Data link trial plan to [CID]

Data Link Eligibility

SX	SX [CID]	Assign data link eligibility of [CID] to owner of [CID]'s track control
----	----------	---

Data Link Status List: Delete List Messages “DE”

DE	DE [CID]	Delete all closed data link messages for [CID] from status list
	DE [status list message symbol]	Delete closed data link message from status list
	DE /OK [CID]	Delete all open and closed data link messages for [CID] from status list
	DE /OK [status list message symbol]	Delete data link message (open or closed) from status list

Transfer of Communication happens automatically with hand-off