

NASA/GSFC	NETWORKS AND MISSION SERVICES PROJECTS (N&MSP) CONFIGURATION CHANGE REQUEST (CCR)			
1. CCR. NO. CCR-451-ICD-10	2. DATE September 10, 1998	3. PRIORITY <input type="checkbox"/> EMERGENCY <input type="checkbox"/> URGENT <input checked="" type="checkbox"/> ROUTINE	4. CHANGE LEVEL <input type="checkbox"/> A <input checked="" type="checkbox"/> B <input type="checkbox"/> C	
5. TITLE OF CHANGE: SHO Subheaders 5 and 6 LI Expansion for WDISC.				
6. DOCUMENT TITLE: Interface Control Document (ICD) between the NCC/FDF and the WSC, Revision 5, through DCN-01. 6/30/98. DOCUMENT NO.: 530-ICD-NCC-FDF/WSC, Rev. 5 through DCN-01. LIST ALL AFFECTED DOCUMENTS INCLUDING PROCEDURES: 405-TDRS-RP-ICD-001, 12/95 through SCN-01. <div style="text-align: right;">(CONT. ON ATTACHMENT)</div>				
7. REASON FOR CHANGE: To provide an LI port address at WSC for TCP/IP transmissions <div style="text-align: right;">(CONT. ON ATTACHMENT)</div>				
8. DESCRIPTION OF CHANGE: Pages 9-9, 9-11, and AB-5 <div style="text-align: right;">(CONT. ON ATTACHMENT)</div>				
9. IMPACT SYSTEM				
Y N <input type="checkbox"/> <input checked="" type="checkbox"/> SCHEDULE	Y N <input type="checkbox"/> <input checked="" type="checkbox"/> BUDGET	Y N <input type="checkbox"/> <input checked="" type="checkbox"/> FACILITIES		
<input type="checkbox"/> <input checked="" type="checkbox"/> TESTING	<input type="checkbox"/> <input checked="" type="checkbox"/> TRAINING	<input type="checkbox"/> <input checked="" type="checkbox"/> CONTRACTOR SUPPORT		
<input checked="" type="checkbox"/> <input type="checkbox"/> INTERFACES	<input type="checkbox"/> <input checked="" type="checkbox"/> SECURITY	<input type="checkbox"/> <input checked="" type="checkbox"/> HARDWARE		
<input checked="" type="checkbox"/> <input type="checkbox"/> SOFTWARE	<input type="checkbox"/> <input checked="" type="checkbox"/> LOGISTICS	<input checked="" type="checkbox"/> <input type="checkbox"/> DOCUMENTATION		
<input checked="" type="checkbox"/> <input type="checkbox"/> GROUND SEGMENT		<input type="checkbox"/> <input checked="" type="checkbox"/> SPACE SEGMENT		
<input type="checkbox"/> <input checked="" type="checkbox"/> OTHER _____				
10. COMMENTS:				
11. ORIGINATOR CODE <u>451</u> Bryan Gioannini, (505) 527-7002		12. SEGMENT MANAGER'S APPROVAL CODE _____		
SIGNATURE _____ DATE _____		SIGNATURE _____ DATE _____		
13. BOARD CHAIRPERSON SIGNATURE DATE _____		14. BOARD CHAIRPERSON COMMENTS		
15. BOARD ACTION <input type="checkbox"/> Approved <input type="checkbox"/> Withdrawn <input type="checkbox"/> Disapproved <input type="checkbox"/> Deferred _____		16. ACTION REQUIRED <input type="checkbox"/> Publish Document <input type="checkbox"/> Publish DCN <input type="checkbox"/> Deviation <input type="checkbox"/> Waiver <input type="checkbox"/> Implement Change <input type="checkbox"/> Other _____		

<u># of Bytes</u>	<u>Data Item</u>
	DIS Disable Time
2	Year
3	Day
2	Hours
2	Minutes
2	Seconds
1	Data Source (the following parameters in Subheader No. 5 are for control of the designated Demultiplexer (DEMUX)).
	1 = GSFC Demux
	2 = JSC Demux
	3 = Local Interface (LI)
1	LI***
	0 = Spare (Unused)
	1-4 = Nominal LI Channel ID
	5-9 = Spare (Unused)
	A-D= EDOS Ebnet Channel ID
	E-F = Landsat-7 Channel ID
	G =SPTR Channel ID
	H =DAB Channel ID
	I =Project Antenna Channel ID
	<u>J-L =WDISC Channel ID</u>
	M-X =Spare (Unused)
	Y-Z= LI Test Channel ID
	a-z = Spare (Unused)
2	Port Address*
	4 Hexadecimal characters
1	Blocked/Unblocked Data*
	1 = Blocked
	2 = Unblocked
1	Clamped/Unclamped Clock*
	1 = Clamped
	0 = Unclamped
1	Clock Tracking* **
	1 = Yes
	0 = No

* Applicable to MDM only.

** The clock tracking parameter for DEMUX configuration shall not be used for Shuttle Forward Data or for any End-to-End Test user return data.

*** A zero (0) shall be specified if the data source is not LI.

<u># of Bytes</u>	<u>Data Item</u>
2	Hours
2	Minutes
2	Seconds
1	Data Destination
	1 = LI
	2 = HDRM
	3 = MDM
	4 = Record Only
	5 = Television (TV) - Shuttle Only
	6 = Analog Data - Shuttle Only
1	LI*
	0 = McMurdo TDRS Relay System (MTRS) High Rate Channel ID
	1-4 = Nominal Low Rate (LR) Channel ID 100 BPS ≤ Data Rate ≤ 10 MBPS (Low Rate)
	5-8 = Nominal High Rate (HR) Channel ID 10 MBPS < Data Rate ≤ 300 MBPS (High Rate) If Data rate is ≥ 150 MBPS, 5-8 specifies the service, i.e., no Q-Channel specified.
	9 = Spare (Unused)
	A-F = EDOS EBnet Low Rate Channel ID
	G-H = EDOS GSIF High Rate Channel ID
	I-J = Landsat-7 Low Rate Channel ID
	K = SPTR SSAR Low Rate Channel ID
	L = SPTR KSAR Low Rate Channel ID
	M-N = DAB Low Rate Channel ID
	O = Project Antenna Low Rate Channel ID
	P-R = Spare (Unused) <u>WDISC Low Rate Channel ID</u>
	S-V = LI Test Low Rate Channel ID
	W-Z = LI Test High Rate Channel ID
	a-z = Spare (Unused)
1	HDRM
	0 = Not used
	1-4 = Input Port Number

* A zero (0) shall be specified if the data destination is not LI.

TDRS	Tracking and Data Relay Satellite
TDRSS	Tracking and Data Relay Satellite System
TLM	Telemetry
TOCC	TDRSS Operations and Control Center
TT&C	Tracking, Telemetry and Command
TV	Television
USS	User Services Subsystem
UTC	Coordinated Universal Time
VIC	Vehicle Identification Code
<u>WDISC</u>	<u>WSC Transmission Control Protocol (TCP)/Internet Protocol (IP) Data Interface Service Capability</u>
WSC	White Sands Complex
X MUX	Cross-Strapping Multiplexer