



MCS - DCS Interface Standardization

MDIS Decision Log

Legend

- ◆ Key event
- D(n) Functional or technical decision

ID	Decision/Milestone	Date	Comment
◆	1 st meeting	Dec 09	The need for a network on standardizing the MCS-DCS interface, separate from the SIIS JIP, was confirmed, to be managed by OTM
◆	MDIS named and Steering Committee (SC) selected with three members each from <ul style="list-style-type: none"> • Operators • DCS suppliers • Subsea suppliers 	Feb 10	
◆	MDIS logo approved	May 10	
D01	Two architectures will be supported <ul style="list-style-type: none"> • Case 1: Integrated (DCS to Subsea Gateway) • Case 2: Interfaced (DCS to MCS) 	May 10	This is consistent with the SIIS architectures in ISO-13628-6 (ISO 13628-6 Revised 270509_OTM.pdf) N.B. MDIS is concerned with defining case 2
◆	Three Work Groups formed <ul style="list-style-type: none"> • Architectures & functionality • Protocols (former DCS vendors group) • Objects (former Subsea vendors group) 	May 10	See minutes of meeting May 2010 Ref: mmMDIS_260510.pdf
◆	Website launched	Jul 10	www.mdis-network.com
D02	Protocol decision criteria defined and weighted	Sep 10	See minutes of meeting September 2010 Ref: mmMDIS_280910.pdf
D03	Eight protocols selected for ranking and initial evaluation: <ul style="list-style-type: none"> • EtherCat • Ethernet/IP • FMC-722 • IEC-61850 • Modbus/TCP • OPC DA • OPC UA • Profinet 	Sep 10	Accepted in general session in Boston. List will not be expanded or revisited.
◆	Charter approved	Nov 10	In SC teleconference, see MDIS charter Ref: MDIS charter_121110.pdf
◆	2011 SC membership and membership fee approved by SC and general session	Dec 10	In SC and general meeting





MCS - DCS Interface Standardization

ID	Decision/Milestone	Date	Comment
D04	Two protocols on shortlist for detailed evaluation: <ul style="list-style-type: none"> Ethernet/IP Profinet 	Dec 10	Accepted in general session in Dublin after Members' vote. See minutes of meeting December 2010 Ref: mmMDIS_071210.pdf
D05	Additional two protocols on shortlist for detailed evaluation: <ul style="list-style-type: none"> OPC UA Modbus TCP/IP 	Feb 11	
D06	Paper test format agreed	May 11	
D07	Physical test format agreed	Sep 11	
◆	Formation of validation test and recommended practice working groups	Dec 11	
◆	MDIS SharePoint set-up	Dec 11	
◆	Revised membership fees agreed	Dec 11	
◆	Paper test results with addendums published	Feb 12	
D08	Security is out of the MDIS scope. This assumption / policy is to be stated within the MDIS RP	Feb 12	Responsibility and ownership of security is topside. As MDIS sits under that hierarchy it is therefore out of MDIS scope
◆	Protocol Physical Test results published	Apr 12	
◆	Protocol complete results published	May 12	
D09	MODBUS is removed as an option from the voting process	Jun 12	See mmMDIS_06_06_2012
D10	Wurldtech protocol testing has met the requirements of MDIS and no further testing is required prior to voting	Jun 12	Post SC meeting 6 Jun 12
◆	MDIS protocol vote – round 1		
D11	Protocols selected to progress to round 2 of voting are: Ethernet IP and OPC UA	Aug 12	
D12	The protocol selection process is too advanced to consider new protocol solutions outside of those agreed in Feb 11	Nov 12	The SC declined the offer from the OPC foundation to present a 'dual protocol solution' Ref: mmMDIS_TC_SC_21_11_2012.doc
◆	MDIS protocol vote – round 2	Feb 13	This is for the entire scope of MDIS (i.e. case one and case two architectures)
D13	The selected MDIS protocol is OPC UA		
D14	The MCS-subsea gateway is defined as the MDIS server, the DCS is defined as the MDIS client	Feb 13	For further detail refer to the Architecture document



MCS - DCS Interface Standardization

ID	Decision/Milestone	Date	Comment
D15	MDIS definitions approved	Jun 13	Appendix to Architecture document
D16	MDIS mandatory and optional object definitions approved	Sep 13	To be included in future meeting workpacks and uploaded to sharepoint
D17	MDIS object design requirements for valve, choke and instrument objects agreed	Feb 14	The approved versions uploaded to SharePoint
D18	Proceed with the use of methods when converting objects to OPC UA standard	Feb 14	OPC UA methods will be used as necessary when converting the MDIS objects to OPC UA standard
D19	First MDIS interoperability test to be held in June 2015 to align with the MDIS meeting scheduled in Amsterdam	Jun 14	Hotel to be verified as suitable venue