

INTERNATIONAL ASSOCIATION OF DRILLING CONTRACTORS



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IADC ART Drilling Control Systems Subcommittee Meeting
8:30 am, Tuesday, 10 May 2011
IADC – Houston, TX

Attendance:

David A. Wagner, AWC, Inc.
Fred Florence, National Oilwell Varco
David Reid, National Oilwell Varco
Clinton Chapman, Schlumberger
Lea Huegel, Stran Technologies
Trenton Martin, Transocean
Terry Loftis, Transocean
Tracy Cummings, Weatherford

Minutes:

1. Subcommittee Chairman opened the meeting and welcomed the participants.
2. The IADC Antitrust Policy was reviewed and noted as being available on the IADC website.
3. The focus of this month's meeting was to solicit volunteers to participate in 'Work Groups' to address the specific deficiencies in the SPE/IADC WITSML-OPC Interface Initiative. These areas of need were highlighted in last month's presentation by DSATS Deputy Chairman, Clinton Chapman.

POSSIBLE DCS TASKS/ACTIONS/INVOLVMENT EXTRACTED FROM APRIL 5th NOTES:

- If there are multiple pieces of machinery under automation control, how do you switch off one of them, or do you switch off all of them? (maybe it's a function of criticality)
- Determine establish the prioritization, if any. Will an agent be able to field tool requests from another agent?
- How does the driller regain control (ie. Authorization monitoring and disconnect automation)?
- Big Red Button...(s). Symbolic or physical?
- UI standardization - Can this be integrated into the drillers console (if desired)
- Help define the state/phases of the drilling operation.
- Impact of cascading intelligent controls system (EDS, Autodriller with DCD).
- Review and comment on the use cases being worked on by DSATS.
- Establish Fail-safe Philosophy and/or Modes ...
- How will the transition between services occur (e.g. Baker to Schlumberger, etc). Manual, automatic....
- As an organization IADC-DCS needs to define where downhole communication/integration brings value for specific phases of well construction

4. The group reviewed the list, discussed correlation between the descriptions, and consolidated the list according to issues and the drilling business segment (which we collectively felt was) best suited to provide a technical response. This resulted in the following matrix:

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TASK/WORK-GROUP	DOMAIN OF EXPERTISE				
Transfer of Tool Ownership		DRL		MFG	
User Interface Standardization		DRL	SRV	MFG	TPY
Well State/Phase Definition	OPR	DRL	SRV	MFG	
Cascade Effect of Control		DRL	SRV	MFG	

- OPR – Operator
- DRL – Drilling Contractor
- SRV – Service Company
- MFG – Equipment Manufacturer
- TPY – Third Party Consultant/Contractor

5. The group agreed that the next progressive step was to recruit volunteers and participation in the defined work groups. A number of possible contributors were discussed and it was suggested that all potential participants should be solicited through a letter/email. A draft letter will be prepared and reviewed, prior to distribution. Being near the allocated time of the meeting, discussion on this agenda topic was concluded.
6. No topics were raised under the heading of “other business”.
7. The next subcommittee meeting was scheduled for **Tuesday, June 7th, 8:30 am** at IADC headquarters, located at 10370 Richmond Ave, Suite 760, Houston, TX 77042 USA.
Register at http://www.iadc.org/committees/advanced_rig_technology/meetings.htm
8. There being no further business, the meeting was adjourned.