

International Association of Drilling Contractors



**ART Drilling Control Systems
CybSec Workgroup Meeting
04 Sept 2015
IADC
10370 Richmond Ave., Suite 760
Houston, TX 77042**

Attendance

Name		Company Name
Marco	Ayala	AE Solutions
James	Cooper	NATIONAL OILWELL VARCO
John	Cusimano	AE Solutions
Patric	Dove	Siemens
Erlend	Engum	NATIONAL OILWELL VARCO
Kenneth	Frische	AE Solutions
Dale	Gibson	Diamond Offshore Drilling
Christopher	Goetz	Kingston Systems
Siv Hilde	Houmb	Secure-NOK
Mike	Lyssy	AE Solutions
Trenton	Martin	Transocean
Richard	Parliman	Lloyd's Register Energy- Drilling
Steven	Ronan	Northwest Technical Solutions

Agenda for the meeting:

1. Welcome and Introductions
2. Review of Antitrust Guidelines and Facility Orientation
3. Review of minutes from last meeting

International Association of Drilling Contractors

4. Action Point List
5. Risk assessment applying ISA/IEC 62443-3-2 on a drilling asset.
6. Next meeting schedule and AOB

Minutes:

1. Welcome and short introduction of the participants – “round around table”.
2. Meeting delegates was reminded of the IADC antitrust guidelines.
3. Minutes from the group meetings are posted at: <http://www.iadc.org/advanced-rig-technology-committee/meeting-minutes/>. There were no comments to the minutes from the previous WG meeting.
4. Review of action point list. The top-10 threat list was reviewed and will be further discussed as part of the example risk assessment. The plan is to use the top-10 threat list as input to the risk assessment. This way there will be a thorough discussion on each of the identified threat.

The network segmentation work was briefly reviewed. There will be a dedicated meeting discussing the network segmentation work September 29. Meeting invitation will be sent out. For deadlines on these action points and others please consult the below table.

5. The example risk assessment continued from the previous meeting by starting with a review of the system under consideration (SuC). Some changes were made to the SuC to ensure that the drilling asset example is as generic as possible. The SuC is a futuristic generic drilling asset with two “permanent” third party connections (MWD/LWD and Mudlogging), temporary third party connections (not specific for what purpose), multiple remote connections (either satellite or fixed (like fiber etc.), standard HMIs, standard controllers, connection directly through one single firewall to the remote connections (so no DMZ), and a set of servers and services for pushing data to and from operational centers. The scope of the risk assessment includes the interfaces to the connections into the DCS, the HMIs and controllers and the servers and services for pushing data to and from operational centers.

The meeting then went through the analysis of one threat from the top-10 threat list. The assessment will continue at the WG meeting October 1.

6. The next WG meetings are scheduled for September 29 @10am-11am and October 1 @10:30am-12pm. The WG meeting September 29 is a webex only meeting.

Action Points:

AP no.	Description	Responsible	Deadline
01	Guidelines for Risk Management and Assessment Methods to use for assessing Drilling Assets.	Siv Hilde Houmb (lead), Matthew Romero, Patric Dove, Nathan Moralez	First round of reviews completed. The document will be transferred into an IADC template and redistributed for final discussion and approval.

International Association of Drilling Contractors

02	Top 10 threats for DCS.	Marco Ayala (lead), Nathan Moralez, Matthew Romero, Carman Babin, Mason Smith	Sept 4, 2015. First iteration completed. Will be reviewed as part of the example risk assessment.
03	Risk assessment of example drilling asset using ISA/IEC 62443-3-2.	John Cusimano (lead), Marco Ayala, Patric Dove, Nathan Moralez, Greg Villano, Siv Hilde Houmb and all	Will continue at WG meeting October 1.
04	Network Segmentation standards and best practices relevant for DCS.	Patric Dove (lead), Marco Ayala, Siv Hilde Houmb	Sept 4, 2015. First iteration completed. Dedicated discussion meeting will be September 29 @ 10-11am.
05	Check with the ICS CERT regarding what they have of threat lists of interest to the WG.	Greg Villano	Closed.
06	Check with the FBI regarding what they have of threat lists of interest to the WG.	Siv Houmb	Closed.