

International Association of Drilling Contractors



ART DCS Cyber Security Work Group Meeting

19 March 2015

10:30 am – 12:00 pm

IADC
10370 Richmond Ave., Suite 760
Houston, TX 77042

Minutes

Agenda for the meeting:

1. Welcome and Introductions
2. Review of Antitrust Guidelines and Facility Orientation
3. Review of minutes from last meeting
4. Risk management and assessment recommendation document - review
5. Action Point List
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 on: <http://www.iadc.org/advanced-rig-technology-committee/meeting-minutes/>. No comments received on the minutes from the group meeting February 19, 2015.
4. The risk management and assessment recommendation document has been updated according to the discussions and suggestions at the group meeting January 22. The overview of the cybersecurity policies in the European Union and the United States, along with the description of the NIST and ISO framework standards and core standards and the IEC/ISA 62443 standards family has been moved to annexes. The same is the case for the tables listing the international and U.S. standards of relevance to risk management and assessment. The main body of the document is still work in progress and needs more input. The group decided to setup a task group for the recommendation document. The task group should include members from all parts of the drilling supply chain to capture the various relevant perspectives. The task group will meet 7:30 am April 2 to do a complete review of the document. Please refer to AP01 for the list of members in the task group. Siv will update the main body of the document and distribute it to the task group prior to the meeting. After the task group has processed the document, it will be sent for review to the whole CybSec work group.

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The “IEC/ISA 62443-3-2: Security Levels for Zones and Conduits” standard will not be sent for ballot until Q2 2015. This means that we should hold off on approving our recommendation document until the standard is sent for ballot to avoid uncertainties regarding the content in the standard. The standard have already been out for comments, so there will most likely be very few changes to the standard ones it goes for ballot. By completing our recommendation document as soon as possible, we would be in a position to send the document for review at the same time as the standard goes for ballot.

The group also decided to start working on a risk assessment of an example drilling asset using the current draft of ISA/IEC 62443-3-2. This purpose of this exercise is to illustrate how and to what extent the ISA/IEC 62443-3-2 standard can be used to assess risks of drilling assets.

5. The group has focused on risk assessment and management over the last few months, including performing standards analysis, looking into cybersecurity policies of relevance, and performed a detailed evaluation of selected relevant standards. However, risk assessment only covers the “Identify” part of the NIST cybersecurity standard and a risk assessment produces a list of risks that needs to somehow be addressed by applying various types of countermeasures, such as network segmentation, system security, security policies, business continuity plans, etc. As a result of the more extensive standards analysis that the group did Summer 2014, it was identified that one of the “low hanging fruits” on securing a drilling asset is network segmentation. This is especially the case for older rigs with limited capacity and bandwidth. The group will move forward with its work and start looking into countermeasures, first focusing on network segmentation. Patric Dove from Siemens was assigned the lead for the network segmentation standards and best practices task (see AP04). He will be supported by Marco Ayala from aeSolutions and Siv Hilde Houmb from Secure-NOK. Please volunteer to support Patric!

6. The next task group meeting is scheduled for April 2, 2015, @10:30am-12:00pm.

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, Kent Hulick,	Q2 2015
02	Top 10 threats for DCS	Marco Ayala (lead), Nathan Moralez	TBD
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	TBD
04	Network Segmentation standards and best practices relevant for DCS	Patric Dove (lead), Marco Ayala, Siv Hilde Houmb	TBD
05			
06			
07			

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Attendance

Name		Company Name
Husein	Allgayer	GE Oil and Gas
Pradeep	Annaiyappa	CANRIG
Marco	Ayala	AE Solutions
Patric	Dove	Siemens
Erlend	Engum	NATIONAL OILWELL VARCO
Siv Hilde	Houmb	Secure-NOK
Nathan	Moralez	BP
Harshal	Patil	ABS
Matthew	Romero	ABS