

38th CA Subcommittee
63rd General Meeting
15th & 16th of April 2026
Frankfurt, Germany



Wellbore Positioning Technical Section



The Industry Steering Committee on
Wellbore Survey Accuracy (ISCWSA)

Collision Avoidance Subcommittee Update

CA Meeting #38 15-Apr-2026

Darren Aklestad - SLB
16 Apr 2026



- Darren Aklestad
- 34 yrs Schlumberger/SLB
- Wellbore positioning, well planning, anti-collision, cartographic systems, survey corrections
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Agenda Items

1. Autonomous CA Solution
2. PC discussion
3. CA testing profiles/clearance scenarios
4. CA sidetrack implementation/issues
5. Rev5 geomag reference correlation relative uncertainty
6. Documentation
7. CA Going Forward



Autonomous CA Solution

- Co-Authors: Keith Kenny, Halliburton
- William Allen, bp
- Robert Friedrich, Halliburton



Autonomous CA Solution Abstract

- *As well architecture grows increasingly complex, traditional anti-collision workflows introduce operational risk through delayed interpretation and human factors, worsened through fragmented communication. The industry requires a more consistent, real-time, industry-standards-ready and automated approach to wellbore proximity management and collaboration.*
- *This presentation introduces a secure cloud-based autonomous collision avoidance system that integrates survey data, planned trajectories, offset wells, and boundary zones, within a centralized digital environment. Automated and Directional Driller projections are shared with operations personnel. Proximity calculations use operator-defined anti-collision rules. When surveys or projections intersect defined boundary zones, the system alerts users through dashboard visuals and automated email. Directional Drillers are relieved of plotting and reporting tasks, to focus on drilling performance, identify trends, and address directional control challenges.*
- This solution has been deployed to 200+ multi-well environments, demonstrating its ability to improve workflow efficiency, enhance communication, and strengthen operator assurance in high-density drilling programs. Field results indicate measurable increases in trend recognition and proactive risk mitigation. We will discuss cases when this solution influenced decision making in real-time.
- This evolving solution integrates within the greater LOGIX™ automation and remote operations ecosystem and may be coupled with both survey management and automated directional drilling for an even more robust well placement solution. It aligns with API RP-78 and SPE WPTS best practices. This cloud-based system provides standardized proximity information representing a step-change in wellbore proximity management, delivering a scalable framework that can improve consistency, reduce operational risk, and strengthen well placement delivery in increasingly complex drilling programs.



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Plan Forward

1. CA SC to hold a virtual meeting within April 2026
 1. Candidate time/dates to be sent for feedback
 2. Ensure you are on the Collision Avoidance e-mail list
 - ISCWSA.net -> [Subcommittees](#) -> [Collision Avoidance](#) -> [About](#) -> Click sub-committee chair to contact your addition for future meeting notification



Thank You – Questions? Corrections?

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