

## Completed features/changes beyond v4.5; not yet discussed in Dec-2010 User Manual

### SES v4.73 Release Notes

1. (4.73) Surv: enhance WITSML functionality after testing SES on two additional servers (G&G)
2. (4.73) LWD: enhance WITSML functionality after testing SES on two additional servers (G&G)
3. (4.73) Multiple: add additional error messaging
4. (4.73) System: change SES installer to create SES shortcuts for All users vice Current user

### SES v4.72 Release Notes

1. (4.72) Utilities: add proxy server configuration and connection capabilities for WITSML server functionality (needed by some internal networks)
2. (4.72) Multiple: add additional data quality control messaging

### SES v4.71 Release Notes

1. (4.71) Surv: plot gray stations from other surveys/sidetracks on vertical section view if VSA is same
2. (4.71) Surv: enhance WITSML functionality after testing SES on three additional servers (G&G)
3. (4.71) LWD: enhance WITSML functionality after testing SES on three additional servers (G&G)
4. (4.71) Multiple: add additional data quality control messaging
5. (4.71) Utilities: enhance WITSML functionality after testing SES on three additional servers (G&G)

### SES v4.70 Release Notes

1. (4.70) Surv: add EXPORT feature in LAS format (CWLS LAS version 3.0)
2. (4.70) Surv: enhance Grid data plotting QC
3. (4.70) Plan: add EXPORT feature in LAS format (CWLS LAS version 3.0)
4. (4.70) Plan: enhance Grid data plotting QC
5. (4.70) LWD: add EXPORT feature in LAS format (CWLS LAS version 3.0)
6. (4.70) LWD: enhance LAS file import Append feature with an optional Auto feature that makes it easier to append data with multiple curves possessing variable measurement lag

7. (4.70) LWD: enhance WITSML data import Append feature with an optional Auto feature that makes it easier to append data with multiple curves possessing variable measurement lag (G&G)
8. (4.70) THD: add EXPORT feature in LAS format (CWLS LAS version 3.0)
9. (4.70) Utilities: add floating-network temporary license check-in/check-out feature for SES use while away from the network (0 to 9 days, with on-demand/immediate check-in supported)

### SES v4.69 Release Notes

1. (4.69) Wells: enhance SES xml file importer to automatically detect and convert files from Unix to DOS format (some systems inadvertently change SES xml text files to Unix format when emailed/ftp'd)
2. (4.69) LWD: enhance WITSML data import with user-set quantizing of raw server data (G&G)
3. (4.69) LWD: enhance WITSML data import to allow 'chunking', in order to successively download and process raw server data (e.g., in 20000 record 'chunks') and create complete usable quantized LWD datasets comparable to traditional LAS file data (G&G)

### SES v4.68 Release Notes

1. (4.68) System: enhance floating-network license seat-status reporting
2. (4.68) System: add feature to easily deactivate machine-specific license for transfer purposes
3. (4.68) System: create simplified online machine-specific license activation system

### SES v4.67 Release Notes

1. (4.67) Surv: add feature to download/import MD/Inc/Azi directly from a WITSML server (G&G)
2. (4.67) LWD: add feature to download/import LWD data directly from a WITSML server (G&G)
3. (4.67) Wells: add feature to browse a WITSML server to select the matching server well
4. (4.67) Utilities: add feature to setup WITSML server access; up to three different servers
5. (4.67) System: create SESuser.mdb as new auto-generated run-time folder database to store all custom user & WITSML server settings so upgrades won't overwrite such settings in future upgrades

### SES v4.65 Release Notes

1. (4.65) Surv: add feature to automatically convert a survey into a new SES well plan
2. (4.65) Surv: enhance LAS importer to support line-wrapped files (DOS & UNIX formats)

3. (4.65) Surv: enhance LAS importer with an append-only feature (for easier LAS file splicing)
4. (4.65) Surv: add toggle button to lock/retain zoomed axes limits between successive refreshes
5. (4.65) Plan: shade ID column if detected target TYPE is valid
6. (4.65) Plan: add toggle button to lock/retain zoomed axes limits between successive refreshes
7. (4.65) Plan: make table width adjustable and store setting value (for monitor-size versatility)
8. (4.65) Plan: add double-click within 'ID' cell to insert a blank plan target row above current row
9. (4.65) LWD: add survey interpolation option to linearly extrapolate beyond survey TD
10. (4.65) LWD: enhance data validity verification of parameter keypunch values
11. (4.65) LWD: enhance LAS importer to support line-wrapped files (DOS & UNIX formats)
12. (4.65) LWD: enhance LAS importer with an append-only feature (for easier LAS file splicing)
13. (4.65) TL: enhance LAS importer to support line-wrapped files (DOS & UNIX formats)
14. (4.65) TL: enhance LAS importer with an append-only feature (for easier LAS file splicing)
15. (4.65) TL: add type log EXPORT feature in LAS format (CWLS LAS version 3.0)
16. (4.65) TL: add toggle button to lock/retain zoomed RSD/SD range between successive refreshes
17. (4.65) TL: add feature to copy/poke offset bed thicknesses to a Marker Bed
18. (4.65) TL: make graph width adjustable and store setting value (for monitor-size versatility)
19. (4.65) PT: change maximum dip magnitude via dragging 'End | Dip' line to be 40°
20. (4.65) PT: add toggle button to lock/retain MD range between successive loads
21. (4.65) PT: add toggle button to lock/retain TVD range while MD-scrolling and between loads
22. (4.65) PT: improve multi-curve display behavior
23. (4.65) PT: make both RSD track widths independently adjustable and store setting values (for monitor-size versatility)
24. (4.65) PT: add non-intrusive cursor tracking on right/inner RSD track
25. (4.65) PT: add feature to enable primary LWD curve data smoothing (central moving average)
26. (4.65) THD: enhance THD calculation algorithm for when 3DSB governs planned TVD/Inc., reduce tolerances, and output horizontal distance as VD within vertical well plan hole sections
27. (4.65) X-sec: add select-printer feature vice using default printer only (work-around to fix stray line connecting first-last points in some print jobs sent directly from print-preview)
28. (4.65) X-sec: add feature to interpolate grid data beyond TD (i.e., extrapolate wellbore along VS line)
29. (4.65) X-sec: enhance high resolution (1-ft|0.25m MD) data export CSV to also include: RSD; TVD coordinates of all offset beds in local and global coordinate systems; automatic wellbore/zone classification within payzone, all offset beds, and 'zones' beyond defined offset beds; gross and net zone in/out summary tables including zone name, footage in zone, and percent in zone; full wellbore survey coordinates and angles via minimum curvature interpolation
30. (4.65) X-sec: add feature to calculate and post zone in/out summary table at survey TD

31. (4.65) Multiple: resize certain table columns for improved appearance with Office 2007|2010
32. (4.65) Utilities: allow for trial license-code request to originate from tab on UTILITIES screen
33. (4.65) System: allow for FREE features by default
34. (4.65) System: release floating-network license seat immediately from File, Exit menu click
35. (4.65) System: add graphics to notify user of active feature option and active license format
36. (4.65) System: notify user if no write permission to run-time folder or database folder is detected