



# Patch Release Notes T7.0 Release

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<b>Release 7.0.</b>	02/2015	Full distribution of T7.0
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## PATCH INFORMATION

<b>Patch 7.0.01</b>	06/03/15	T7.001 Patch release (Linux/Windows)
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### ***Bug Fixes/Enhancements***

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2511E >	<b>SEISMIC:</b>	Seismic section frame-control now has editable text fields for specifying section numbers.
<2512>	<b>EARTHGRID:</b>	Optimisation for conjugate gradients (Windows).
<2514>	<b>EARTHGRID:</b>	Fix bug for rubber band editing on graphs.
<2515>	<b>EARTHGRID:</b>	Fix font resizing in the geostat wizard.
<2516>	<b>TRIANGLE:</b>	Minor T7 branding issues.
<2517>	<b>TRIANGLE:</b>	Triangle-Direct fails to create project.
<2518>	<b>DATABASE:</b>	Project strip failure (Windows).
<2519E>	<b>PROJECT MANAGEMENT:</b>	Project template update improvements (now version-managed).
<2520>	<b>DBTREE:</b>	Clearing seismic cache for multiple seismic-line selection fails.
<2521>	<b>PROJECT MANAGEMENT:</b>	Enable optional diagnostic core dump support for control menu.
<2522E>	<b>UTILITIES:</b>	Horizon Volume Utility: add new processing method to handle power function.

<b>Patch 7.0.02</b>	11/03/15	T7.002 Patch release (Linux/Windows)
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### ***Bug Fixes/Enhancements***

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<---E >	<b>DOCS:</b>	Documentation and context sensitive help updates and improvements.
<2523>	<b>SEG-Y-LOADER:</b>	(Windows) fix crash when attempting to load/scan data.
<2524>	<b>ASCII-IO:</b>	Well trajectory importer: Default format for time units should be milliseconds.

<b>Patch 7.0.03</b>	13/03/15	T7.003 Patch release (Linux/Windows)
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**Bug Fixes/Enhancements**

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2525>	<b>UTILITIES:</b>	<p>Fix for colourmap upgrade bug. Prior to this patch any projects upgraded to T7 would not have the colourmaps for display methods upgraded and display methods would not function. After this patch is installed any projects already upgraded to T7 should be corrected by running "txm_upd -cmap1" in a project xterm window.</p> <p>This patch also fixes related issues in other T7 utilities:</p> <ul style="list-style-type: none"> <li>❖ Time-Depth conversion</li> <li>❖ Project Parameters initialisation</li> <li>❖ Seismic data extraction for corner-point grids</li> </ul>

<b>Patch 7.0.04</b>	02/04/15	T7.004 Patch release (Linux/Windows)
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**Bug Fixes/Enhancements**

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2526>	<b>PROJECT MANAGEMENT:</b>	Project backup/restore issues on Windows/MKS.
<2527>	<b>SEISMIC:</b>	Volume Editor crash when using the "export to Flex" option.
<2528>	<b>SYSTEM:</b>	Fix for startup script error when used on unsupported platforms.
<2529E >	<b>SEISMIC:</b>	Add new graticule annotation option for in-line section distance.
<2530E >	<b>OPENWORKS:</b>	Support for OpenWorks R5000.10.1 Links.
<2531>	<b>SURFACE:</b>	Fix for curve mapped the shale fault attribute which can occasionally contain triangles regions filled with zeros.

<b>Patch 7.0.05</b>	20/04/15	T7.005 Patch release (Linux/Windows)
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**Bug Fixes/Enhancements**

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2533>	<b>BASEMAP:</b>	The new T7 feature allowing simple digitisation of arbitrary lines can occasionally crash Volume Editor.
<2534>	<b>SURFACE:</b>	Fixes regressive bug introduced in 2531 which caused anomalous V-shale attribute computations below the last seismic horizon on a fault surface.
<2535>	<b>TRIANGLE:</b>	Fixes reverse font display for graph titles when using the MKS X server.

<b>Patch 7.0.06</b>	21/05/15	T7.006 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<b>ID No.</b>	<b>MODULE:</b>	<b>DESCRIPTION</b>
<2539>	<b>VOLUME EDITOR:</b>	Volume editor session loading can crash the MKS X server. Session loading efficiency improvements.
<2540>	<b>DBTREE:</b>	Time Depth curve crash on MKS if no curve is available for a well.
<2542>	<b>T7-SYSTEM:</b>	T7 inadvertently reading user's cshrc file when invoking commands via xterm.
<2543>	<b>SEG-Y-LOADER:</b>	Increase SEG-Y loader max 2-D line name length from 30 to 80 characters.
<2544>	<b>SECTION MODULE:</b>	Occasional crash when using Probe Controller extents widgetry.
<2545>	<b>CONTROL MENU:</b>	T7 control menu first feature check-out now forced to be "BaseSystem".
<2546>	<b>SECTION MODULE:</b>	Volume-Editor duplicate seismic displays (in different viewers) not updated.

<b>Patch 7.0.07</b>	19/06/15	T7.007 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<b>ID No.</b>	<b>MODULE:</b>	<b>DESCRIPTION</b>
<2547>	<b>SURFACE:</b>	Poor 3D performance when viewing horizon raw data on some graphics cards.
<2548>	<b>SEISMIC:</b>	Interpreting horizon over sharp kink in 2D line can cause crash Vol-ed.
<2549>	<b>SEISMIC:</b>	Cursor tracking between 3D viewer and 2D inline mapping not working between sessions.
<2550>	<b>CDA:</b>	Horizon well picks not getting updated in local app when Time depth curves assigned to parent well.
<2551>	<b>WELL EDITOR:</b>	"Sending" multiple wells to Well Editor only results in the last well being added.
<2552>	<b>CDA:</b>	Well pick copy now uses MD as reference rather than TVD. (Option pending in DBTree.)
<2553>	<b>DBTREE:</b>	Selected tree nodes occasionally render incorrectly on MKS implementation.
<2554>	<b>ASCII-I/O</b>	Well Trajectory Importer: external to internal units not properly implemented.
<2555>	<b>GEOSEVER:</b>	Isochore crash related to maximum character length horizon names.
<2558>	<b>CDA</b>	Horizon name/colour change removes raw data from Volume Editor.
<2559>	<b>GEOSEVER:</b>	Adjustment to throw map algorithm.

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2560>	<b>VOLUME EDITOR:</b>	Speed up rotation centre determination. Removes stickiness in initial movement.
<2561>	<b>SURFACE:</b>	Volume Editor crash unloading then loading wells after session (with horizons + wells) loaded.

<b>Patch 7.0.08</b>	22/06/15	T7.008 Patch release (Linux/Windows)
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**Bug Fixes/Enhancements**

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2562>	<b>SURFACE:</b>	Hiding/Unhiding discrete fractures can be very slow.
<2563>	<b>IESX-LINKS:</b>	IESX link fails with 'missing idb_upd' error.
<2564>	<b>T7-SYSTEM:</b>	Startup version check fails with script error.

<b>Patch 7.0.09</b>	06/08/15	T7.009 Patch release (Linux/Windows)
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**Bug Fixes/Enhancements**

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2565>	<b>DBTREE:</b>	Multiple selection can select inactive items even when hidden.
<2566>	<b>SURFACE:</b>	Sending well from Volume Editor to Well Editor can result in duplicate tracks.
<2567>	<b>SEISMIC:</b>	Crash when loading and unloading wells with horizon picks when horizons are loaded.
<2568E>	<b>DBTREE:</b>	Poor performance with 3D surveys containing thousands of lines.
<2569>	<b>SEISMIC:</b>	Picking on probe face can return incorrect values.
<2570>	<b>SEISMIC:</b>	Modifying a seismic access definition can hang Volume Editor.
<2571>	<b>SEISMIC:</b>	Incorrect colourmaps using Windows ATI graphics card.
<2572>	<b>SEISMIC:</b>	Changing seismic colourmap fails to update loaded timeslices.
<2573E>	<b>BASEMAP:</b>	Improve Basemap 3D grid performance.
<2576>	<b>TXM:</b>	Unable to create any texture map attributes with less than 64 texels.
<2577>	<b>SURFACE:</b>	"Auto-model faults" does not respond when nodes are deleted from a fault point-set.
<2578>	<b>SURFACE:</b>	Display of fault segments not handled correctly in multiple viewers.
<2579>	<b>PETREL LINK:</b>	Updating existing horizon skips certain parameters.
<2582>	<b>SURFACE:</b>	TrapAnalyst dialog warning of contact overhead now changed.

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2583E>	<b>DBTREE:</b>	Add support for "GEOLOGICAL_FEATURE" in GoCAD import export.
<2585>	<b>DATABASE:</b>	Arbitrary line corruption & duplication after 3D survey grid modification.
<2588>	<b>SURFACE:</b>	Trimesh 'area delete' operation is very slow for large meshes.
<2589>	<b>BASEMAP:</b>	Basemap erratic behaviour when changing 3D survey subgrid.
<2590>	<b>FAULTED:</b>	FaultED observation grid display out by one cell in I and J directions.
<2591>	<b>FAULTED:</b>	FaultED crash when running model on a newly copied ED Scenario.
<2592>	<b>GEOSERVER:</b>	Occasional reverse horizon modelling crash.
<2593E>	<b>DATABASE:</b>	Add feature to qdb2 utility to allow fixing of database static index values.
<2594E>	<b>SURFACE:</b>	Add option to load fracture networks as non-discrete surfaces.
<2595>	<b>EARTHGRID:</b>	Occasional crash when unloading cell grids from a trace selection.
<2596>	<b>SURFACE:</b>	Occasional crash when unloading fault segments by category.
<2597>	<b>SEG-Y-LOADER:</b>	Control menu item tagged to incorrect license feature.

<b>Patch 7.0.10</b>	27/08/15	T7.010 Patch release (Linux/Windows)
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### ***Bug Fixes/Enhancements***

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2598>	<b>VOLUME EDITOR:</b>	Spill point not being recorded correctly in saved reports or ASCII export.
<2601>	<b>SEISMIC:</b>	Enable conversion of image seismic into BGL volume.
<2602>	<b>VOLUME EDITOR:</b>	Rare crash during high memory load on Windows MKS platform.
<2603>	<b>SEISMIC:</b>	Linked BGL volumes do not show on auxiliary/lighting volume lists.

<b>Patch 7.0.11</b>	12/10/15	T7.011 Patch release (Linux/Windows)
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### ***Bug Fixes/Enhancements***

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2605>	<b>DBTREE:</b>	Branch-line copy functionality (new in T7.000) not working correctly.
<2606>	<b>EARTHGRID:</b>	Property Modelling: No image preview during grey level selection in Geostatistical Wizard.

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2607>	<b>GEOSERVER:</b>	Longitudinal strain and shear strain fault attributes are the wrong way round.
<2608>	<b>PETREL LINK:</b>	Transferring 3D volume can fail occasionally.
<2609>	<b>DBTREE</b>	Fix memory error in TD curve editor.
<2610>	<b>TRAPTESTER:</b>	Increase precision for textual display of data in velocity units.
<2611>	<b>TRAPTESTER:</b>	Improve well trajectory TD curve resampling and filtering.
<2612>	<b>DBTREE:</b>	TD curve editor does not cater for active state of well horizon picks.
<2613>	<b>VOLUME EDITOR:</b>	Occasional crash of PTC X-Server when changing aspect ratio (via text-field input).

<b>Patch 7.0.20</b>	30/11/15	T7.020 Patch release (Linux/Windows)
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### **Bug Fixes/Enhancements**

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
	<b>T7-SYSTEM:</b>	<b>ALL FILES</b>
		<p>In addition to the specific items below and numerous general improvements this patch introduces several major new enhancements:</p> <ul style="list-style-type: none"> <li>❖ StructureSolver 2-way link</li> <li>❖ LAS well log import tool</li> <li>❖ Tree-view in Volume Editor</li> <li>❖ Seismic co-rendering</li> <li>❖ Improved fault tip-loop creation options</li> <li>❖ Displacement control profiles (and displacement control segments)</li> <li>❖ Extensions to the BGL Volume Manager</li> <li>❖ Time/Depth conversion using velocity volumes                             <ul style="list-style-type: none"> <li>• New dedicated facility for velocity volume creation</li> <li>• Improved support for loading SEG Y velocity volumes</li> <li>• Add support for converting from depth domain to time domain</li> </ul> </li> <li>❖ New well pick location mode facility</li> <li>❖ Improved colourmap access controls</li> <li>❖ Support for Grid Definition visualisation</li> </ul>
<2575>	<b>TRIANGLE:</b>	Default triangle SGR display method colourmap scaled incorrectly.
<2580>	<b>SURFACE:</b>	"Lock-on-edit" not applied to horizon surfaces following deletion of triangles.
<2615>	<b>ASCII-I/O</b>	Well trajectory import: format editor permitted line and field numbers to be set to 0 causing import to fail.
<2616>	<b>SURFACE:</b>	Volume Editor crash when clearing the selection using discreet fracture selection tool.
<2619>	<b>SURFACE:</b>	Discrete fracture networks created by assignment displayed in non-discrete mode.
<2621>	<b>T7-SYSTEM:</b>	Add support for handling spaces in: T7 installation path, Project path/names, user home path



<b>Patch 7.0.21</b>	03/12/15	T7.021 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2581>	<b>SURFACE:</b>	Volume Editor: RMB "Re-sync tri-mesh" does not update horizon trimesh after some data nodes have been deleted.
<2624>	<b>SEISMIC:</b>	Volume Editor: Seismic Volume view dialog shows incorrect details.
<2625>	<b>SURFACE:</b>	Volume Editor: Potential crash when initializing.
<2626>	<b>SEISMIC:</b>	Volume Editor: Co-rendering probe causes column faces to be rendered incorrectly.
<2627>	<b>CDA:</b>	Volume Editor: Editing fault segments can destabilize/crash Volume Editor.
<2628>	<b>GEOSEVER:</b>	Volume Editor: Horizon tri-mesh sync ignores polygons for faults that are not loaded.
<2629>	<b>TDCONVERSION</b>	Time/Depth conversion using velocity volumes improved with tri-linear interpolation.
<2630>	<b>GEOSEVER:</b>	Move new prototype reverse-faulted horizon meshing process as option in the project's .geos file.

<b>Patch 7.0.22</b>	14/12/15	T7.022 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2631>	<b>BASEMAP:</b>	Add missing Grid-Definition toolbar controls & hotkeys.
<2634>	<b>SURFACE:</b>	Fault surface re-sync performance and stability improvements.
<2636>	<b>SEISMIC:</b>	Querying horizon interpretation on sections shows no results.

<b>Patch 7.0.23</b>	21/01/16	T7.023 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2635E>	<b>DBTREE:</b>	List usability improvements: <ol style="list-style-type: none"> <li>1. Activation/deactivation of list items now passed through to referred objects.</li> <li>2. Added RMB menu option to list for activating/deactivating all listed/non-listed items.</li> <li>3. Added RMB menu option to listable objects to allow adding to existing list.</li> <li>4. Fixed bug where order of list references was sometimes incorrect.</li> </ol>



<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2639>	<b>LIST EDITOR:</b>	Changing the sequence of list items not propagated through IPC to other applications.
<2640>	<b>CDA:</b>	Creation of a new list resulted in multiple instances in other applications.
<2641>	<b>DBTREE:</b>	Occasional "node not found" error when navigating tree.
<2643>	<b>CDA:</b>	Activation of list items succeeds even if referred object is inactive.
<2644>	<b>PETREL LINK:</b>	2D seismic export can occasionally fail with an error.
<2645E>	<b>WELL EDITOR:</b>	Add option to set active fault+horizon from selection.
<2646>	<b>TRAPTESTER:</b>	Database deadwood check takes far too long under MKS.
<2647>	<b>CDA:</b>	Well trajectory modifications not propagated correctly to other applications.
<2648E>	<b>PETREL LINK:</b>	Add support for name-based matching for Petrel import.
<2649>	<b>TRAPTESTER:</b>	Well trajectory importer: bug with textfield editing in format editor.
<2651>	<b>SEISMIC:</b>	Potential crash on failure to transform seismic correlation panel.
<2653>	<b>BASEMAP:</b>	Crash when attempt to create composite section with one point.
<2654E>	<b>VOLUME EDITOR:</b>	Improvements to horizon data and fault segment representation in object tree.
<2655>	<b>SURFACE:</b>	Missing dependency check when computing capillary entry pressure.
<2656>	<b>TRIANGLE:</b>	Triangle direct file chooser fails to popup if empty text in file-name box.
<2657>	<b>DBTREE:</b>	"Sending" a line to Volume Editor loads the wrong line.
<2658>	<b>DBTREE:</b>	Tree nodes may become unselectable.
<2659E>	<b>VOLUME MANAGER:</b>	Add new facility for re-extracting navigation data for BGL 2-D seismic lines.
<2660>	<b>TRAPTESTER:</b>	Added support for forcing X-list refresh via an environment variable. It is now possible to set the following variable in the faps.conf file: FAP_XLIST_REMAP (set to 1 or True, unset to disable). This feature works around a display bug in list-selection for RedHat E6.
<2661>	<b>SLICER:</b>	Seismic slicer fails if project path contains embedded spaces.
<2662>	<b>SURFACE/CDA:</b>	Horizon volume raw data inadvertently unloaded if its name is changed.

<b>Patch 7.0.24</b>		18/02/16	T7.024 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>			
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>	
<2652>	<b>SEISMIC:</b>	<i>Correlation Panel:</i> Occasional failure to correctly draw correlation points around inflexions.	
<2663>	<b>OPENWORKS LINKS:</b>	Well depth-domain import omits wells that have no time depth curves.	
<2664>	<b>IDB:</b>	Well min TWT range value can be incorrectly set.	
<2665>	<b>BASEMAP:</b>	Unloading a 3D survey with arbitrary lines fails to remove nodes in object tree.	
<2666>	<b>VOLUME EDITOR:</b>	Minor stability fixes.	
<2667>	<b>STRUCTURE SOLVER:</b>	<i>SS-Link Server:</i> Crash on loading a .bglss file with a seismic line that does not exist in the project DB.	
<2668>	<b>SEISMIC SGR:</b>	This utility fails when running the SGR calculation (invalid no. of slices).	
<2669>	<b>VOLUME EDITOR:</b>	Global seismic colourmap list does not respond to SIAC name/colour change.	
<2670>	<b>VOLUME EDITOR:</b>	Well re-pick only operates successfully on the last selected well.	

<b>Patch 7.0.25</b>		03/03/16	T7.025 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>			
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>	
<2671>	<b>SEISMIC:</b>	Seismic sections and probe faces rendered without lighting on Linux.	
<2672>	<b>CACHETOOL:</b>	Cachetool fails to write session file correctly.	
<2673>	<b>ECLIPSE I/O:</b>	ECLIPSE export scenario selection list shows too many items.	
<2674>	<b>SEG-Y LOADER:</b>	SEG-Y loader unit display + format improvements.	
<2675>	<b>TRAPTESTER:</b>	Unit-text widgets initially losing selection when focus lost.	
<2677>	<b>TRAPTESTER:</b>	<i>Well Trajectory Importer:</i> Bug importing dip and azimuth well data in time projects.	
<2678>	<b>SURFACE:</b>	Rare crash when opening new viewer.	
<2680>	<b>SURFACE:</b>	Zonal attributes fail to compute.	

<b>Patch 7.0.26</b>	16/03/16	T7.026 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2681>	ASCII-IO:	Well trajectory importer: Erroneous unit transformations being applied to plunge+azimuth files.
<2683>	T7-SYSTEM:	Possible crash on MKS Windows when launching subprocesses.
<2684>	PROJECT MANAGER:	Rare crash when adding paths in Project Manager.
<2685E>	ASCII-IO:	ASCII discrete fracture import now has option to control the shape of the resulting discrete fracture objects by defining the no. of radial points.
<2686E>	VOLUME EDITOR:	Extend tape measure to calculate distances in time projects using default velocity.
<2687>	TXM:	Incorrect unit domain for seismic-derived gouge ratio.
<2688>	PETREL LINK:	Importing/exporting wells now preserves 'pseudo' flag.
<2689>	TRAPTESTER:	Improved binary patching performance.

<b>Patch 7.0.27</b>	14/04/16	T7.027 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2691>	VOLUME EDITOR:	Closing a Volume Editor window with Viewer Properties open can cause a crash.
<2692>	IESX-LINKS:	Geoframe link fails to connect and operate.
<2693>	SURFACE:	Volume-Editor: Gridtool breaks when the task is defined with a single polygon with zero offset.
<2694>	PETREL LINK:	T7 exporter may fail to start in a project containing 2D lines.
<2695>	WELL EDITOR:	Seismic extraction fails for seismic volumes with non-zero index origins.
<2696>	TRAPTESTER:	File dialogs fail to show all files for restored project.

<b>Patch 7.0.28</b>	25/05/16	T7.028 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2697>	DBTREE:	ASCII import/export fails to launch on Windows MKS.
<2698>	SEISMIC:	Unhiding a line with surface intersections shown can cause a crash.
<2701>	DBTREE:	Resizing Database Explorer can (rarely) switch Windows to Basic colour scheme.
<2703>	TRAPTESTER:	Project paths longer than 100 characters can cause issues.
<2704>	ASCII-IO:	<i>Well Trajectory Importer</i> : Importing negative down TVD data leads to a memory error.
<2705>	TRIANGLE:	Potential crash when regenerating a Triangle plot.
<2706>	PROJECT MANAGER:	Spurious warning when creating projects on MKS Windows.

<b>Patch 7.0.28</b>	25/05/16	T7.028 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2697>	DBTREE:	ASCII import/export fails to launch on Windows MKS.
<2698>	SEISMIC:	Unhiding a line with surface intersections shown can cause a crash.
<2701>	DBTREE:	Resizing Database Explorer can (rarely) switch Windows to Basic colour scheme.
<2703>	TRAPTESTER:	Project paths longer than 100 characters can cause issues.
<2704>	ASCII-IO:	<i>Well Trajectory Importer</i> : Importing negative down TVD data leads to a memory error.

Patch 7.0.30	23/08/16	T7.030 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
ID No.	MODULE:	DESCRIPTION
	<b>T7-SYSTEM:</b>	<b>ALL FILES</b>
		In addition to the specific items below and numerous general improvements, this patch introduces several major new enhancements. Users should refer to the 7.030 New Features PDF in "<T7_HOME>/docs/updates/7.030" for details of new features.
<2584>	<b>SEISMIC:</b>	Frame Control now refers to "Time-slice" as "Z-slice".
<2690-E>	<b>TRAPTESTER:</b>	Improved filesystem performance on MKS Windows.
<2700>	<b>STRESS EDITOR:</b>	"Unsaved stress-field" message - "Cancel" works incorrectly.
<2702-E>	<b>PETREL LINK:</b>	Improved "Framework model" option for exporting surface models as input data to Petrel.
<2707>	<b>TD-CONVERSION:</b>	Fault picks not correctly converted in depth-to-time conversion.
<2708>	<b>SURFACE:</b>	Reverse faulted horizon modelling fails when shallowest datum is less than zero.
<2709-E>	<b>PETREL LINK:</b>	Support "match by name" mode when exporting to T7.
<2711>	<b>SEG Y LOADER:</b>	SEG Y loader fails on import phase if sample rate <1 millisecond.
<2712>	<b>APPL:</b>	Changing well properties reverts if changing the TD curve assignment also.
<2713>	<b>DBTREE:</b>	Fix Database Explorer tree issues when viewing an object with multiple parents
<2714>	<b>ASCII I/O</b>	Discrete fracture export not exporting texture-mapped attribute data.
<2715>	<b>BASEMAP:</b>	Style changes to culture data in vol_ed are ineffective at run-time.
<2716>	<b>EARTHGRID:</b>	<i>Facies Modelling</i> : models have artefacts if the cellular dimension is greatest in the vertical.
<2717>	<b>PROJECT MANAGER:</b>	TT 6.0 Database upgrade fails on MKS Windows.
<2718>	<b>VOLUME EDITOR:</b>	Frequent crash during session load.

Patch 7.0.31	20/09/16	T7.031 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
ID No.	MODULE:	DESCRIPTION
<1332-E>	<b>SEISMIC:</b>	Add style option to post horizon intersections on 2D lines.
<2719>	<b>VOLUME EDITOR:</b>	Viewer remote control functionality fails when 'advanced graphics' enabled.
<2720-E>	<b>TRIANGLE:</b>	Add reverse fault display mode.

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2721>	<b>T7-SYSTEM:</b>	Applications can become unresponsive, over time, when using PTC X-Server.
<2722>	<b>T7-SYSTEM:</b>	Closing a dialog after using the new T7 file selector can cause a crash.
<2724-E>	<b>CULTURE:</b>	Culture trimesh texture images can now use corresponding world files for location.
<2725>	<b>CDA:</b>	Fault-segment copy (via Fault-plane copy) fails to retain displacement control settings.
<2727>	<b>APPL:</b>	Fault-segment editor not committing edits correctly.
<2729-E>	<b>VOLUME EDITOR:</b>	Improved Session Manager with date sorting & preview option.
<2730-E>	<b>T7-SYSTEM:</b>	Simplify colourmap editor file management to use drop-list.
<2731>	<b>SURFACE:</b>	Unloading horizon data can occasionally cause a crash.
<2732>	<b>SURFACE:</b>	Grid tool not loading horizon for display (Windows MKS only).
<2733-E>	<b>SURFACE:</b>	Add warp options to fault/horizon raw data.
<2734-E>	<b>SURFACE:</b>	Add tri-mesh sync options to horizon/fault raw data.
<2735-E>	<b>SURFACE:</b>	Add well intersections to discrete fracture selection tool.
<2737>	<b>VOLUME EDITOR:</b>	Seismic load fails if BGL volume name contains embedded spaces.
<2738>	<b>T7-SYSTEM:</b>	Improved console on Windows MKS.
<2740>	<b>SURFACE:</b>	Unreliable snapping of intersection polygons at branch lines.
<2741>	<b>SURFACE:</b>	Displacement backstripping crashes when one (or) both walls of a polygon have zero points.
<2742>	<b>SURFACE:</b>	Trimesh vertices not deleted during deletion of triangles from a surface.
<2743-E>	<b>T7-SYSTEM:</b>	Useability improvements to new file chooser.
<2746>	<b>T7-SYSTEM:</b>	Droplist useability issues when thousands of items are displayed.
<2747>	<b>PLOTVIEWER:</b>	Data selection lists not populating correctly for Cell-Fault & Cell-Grid tasks.

<b>Patch 7.0.32</b>	21/09/16	T7.032 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2748>	<b>EARTHGRID:</b>	Custom TT-Transgen plugins can fail to build on Windows MKS.
<2749>	<b>EARTHGRID:</b>	EarthGrid cell-fault join operation crashes Volume Editor.
<2750>	<b>APPL:</b>	Changing colour in object editor dialogs does not activate the APPLY button.

<b>Patch 7.0.33</b>	31/10/16	T7.033 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<b>ID No.</b>	<b>MODULE:</b>	<b>DESCRIPTION</b>
<2753>	<b>SURFACE:</b>	Changes to TD curves assigned to a well do not immediately update displayed attribute curves.
<2754>	<b>DBTREE:</b>	Viewing list references fails with an error.
<2755>	<b>DBTREE:</b>	Launching the stratigraphy editor from an object list toolbar can cause a crash.
<2756>	<b>STRESS EDITOR:</b>	Erroneous "gom_XS_Construct: ERR-W: gom_XS not initialized" output at console.
<2757>	<b>SEISMIC:</b>	Unable to hide volume rendered probe.
<2758>	<b>SEISMIC:</b>	Unhiding a probe does not always update Probe Controller correctly.
<2759>	<b>T7-SYSTEM:</b>	Well-pick relocation after TD curve mods not functioning consistently in DEPTH domain.
<2761>	<b>VOLUME EDITOR:</b>	Performing project backup can reset dates in Session Manager.
<2762>	<b>DBTREE:</b>	Modifying an object can set its colour to white in the tree.
<2763>	<b>CDA:</b>	Fault & Horizon pointsets do not inherit parent colour in tree view.
<2764>	<b>CDA:</b>	Multi-object edit capability not operational for well & horizon fault picks.
<2765>	<b>CDA:</b>	Deletion of a grid definition fails if it contains refs to FaultED data.
<2766>	<b>EARTHGRID:</b>	TT-TransGen plugin editor fails on invocation if the requested plugin does not exist.
<2767>	<b>EARTHGRID:</b>	TT-TransGen FZONE & DRAG plugins fail to build on Linux if proj path contains embedded spaces.
<2768>	<b>SURFACE:</b>	Loading sections from horizon raw data is complex if surface tri-mesh is also displayed.
<2769-E>	<b>VOLUME EDITOR:</b>	Add rotation-only reset mode (<Shift>click on toolbar reset (R) button).
<2770-E>	<b>VOLUME EDITOR:</b>	Add 90-degree rotational sweeps on all 3-screen axes (MB2 click on toolbar rotation buttons).
<2771>	<b>SURFACE:</b>	VE well data style frame will not open if style UI initialised with it closed.
<2772-E>	<b>SURFACE:</b>	Meshing of reverse faulted horizons enhanced to follow the horizon mesh sub-sampling strategy.



<b>Patch 7.0.34</b>	08/11/16	T7.034 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2775>	<b>T7-SYSTEM:</b>	Initialise new projects with default set of well-attribute types.
<2776>	<b>SECTION:</b>	Threshold distance for projecting "local wells" onto sections is ineffective.
<2777>	<b>SURFACE:</b>	<i>LAS Importer</i> : Clearer update messages.
<2778>	<b>SURFACE:</b>	Correction to hanging wall subsampling when meshing reverse faulted horizons.
<2779>	<b>CDA:</b>	Seismic Access Definition & Well Attribute Definition creation improved.
<2780-E>	<b>DIRECTLINKS:</b>	Add Export to DecisionSpace feature.
<2781>	<b>SURFACE:</b>	<i>TrapAnalyst</i> : all report items now toggled on as default.

<b>Patch 7.0.35</b>	24/11/16	T7.035 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2782>	<b>SEISMIC:</b>	Volume bounds increment sliders can be unresponsive under MKS X-Server 10.
<2783-E>	<b>APPL:</b>	Extend DB Tree multi-object edit dialog to handle advanced substitution macros.
<2784>	<b>CULTURE:</b>	Culture Textures: fix backward compatibility issue with textures on trimeshes.
<2785-E>	<b>DBTREE:</b>	Add list reference popup menu option to jump to referred object.
<2786-E>	<b>EARTHGRID:</b>	More accurate CPG cell volume computations.
<2787-E>	<b>TXM:</b>	DM item selection & DM deletion UI handling improved.
<2788>	<b>DBTREE:</b>	Displaying the SIAC histogram can cause spurious errors in Database Explorer.
<2789>	<b>VOLUME EDITOR:</b>	Colourbar value tooltips do not function on MKS X-Server 10
<2790>	<b>VOLUME MANAGER:</b>	BGL volume manager prevents removal of broken 2D volume links.
<2791>	<b>CDA:</b>	Fix CDA errors & crash when handling FaultED related IPC updates.
<2792-E>	<b>DBTREE:</b>	Preserve column headers in scrolling object-data editor windows.
<2793>	<b>TRIANGLE:</b>	Applying display method in Display Method Editor should update Triangle plot.
<2794>	<b>PETREL LINK:</b>	Exporting large amounts of seismic data to DecisionSpace can fail.

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2795>	<b>PETREL LINK:</b>	BGL volume Z domain set incorrectly in certain cases.
<2796>	<b>T/D CONVERSION</b>	Velocity volume creation fails if T7 install path contains spaces.
<2797>	<b>T/D CONVERSION</b>	Depth conversion fails under Windows-MKS (tar-error).

<b>Patch 7.0.36</b>	17/01/17	T7.036 Patch release (Linux/Windows)
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### **Bug Fixes/Enhancements**

<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2682>	<b>TRIANGLE:</b>	Display Method Editor updates before 'Apply' is pressed in Control Panel.
<2798>	<b>SEGY LOADER:</b>	Improve SEGY loader sample stats extraction.
<2799>	<b>ASCII-IO</b>	<i>Well-import tool:</i> file path text being mismanaged when adding items for import.
<2801>	<b>SURFACE:</b>	Horizon gridding can fail due to absent attributes (if set) on input horizon volumes.
<2802>	<b>CDA:</b>	Improve well trajectory filtering for wells with large sample intervals.
<2804>	<b>TD-CONVERSION:</b>	Time-Depth conversion utility fails to list linked 2D seismic volumes.
<2805-E>	<b>ASCII-IO</b>	Add time/depth curve ASCII I/O support.
<2806>	<b>SURFACE:</b>	Increase labelling density for minor contours.
<2807>	<b>VOLUME EDITOR:</b>	When digitising poly-lines, the "undo-last-point" operation (MB2) can clear all picked points.
<2808>	<b>DB-EXPLORER:</b>	Tree is not sorted correctly when using "alternate parent" node naming.
<2809>	<b>ASCII-IO</b>	<i>Well Trajectory Importer:</i> plunge and azimuth error on importing.
<2815>	<b>STRUCT-SOLVER:</b>	Loading in new horizons into T7 are always defined as unassigned.
<2816>	<b>VOLUME EDITOR:</b>	Seismic load fails for arbitrary lines which have names with embedded spaces.
<2817>	<b>DB-EXPLORER:</b>	Moving items in Stratigraphic Sequence Editor generates unnecessary history log entries.
<2818>	<b>SEISMIC:</b>	Unloading a hidden probe can cause a crash.
<2819>	<b>SEISMIC:</b>	Section annotation can (under rare circumstances) draw incorrectly.

Patch 7.0.40	21/04/17	T7.040 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
ID No.	MODULE:	DESCRIPTION
	<b>T7-SYSTEM:</b>	<b>ALL FILES</b>
		In addition to the specific items below and numerous general improvements, this patch introduces several major new enhancements. Users should refer to the 7.040 New Features PDF in "<T7_HOME>/docs/updates/7.040" for details of new features.
<2820>	<b>VOLUME EDITOR:</b>	<i>Image Mapping</i> : issue with mapping very large images onto trimeshes.
<2821>	<b>HRZ VOL UTIL:</b>	3D Seismic extraction on horizon data volume improved to use XY lookup.
<2822>	<b>SURFACE:</b>	3D horizon vol seismic extraction in VE can result in under-sampling.
<2823>	<b>TXM:</b>	Display method image cache preventing display updates in multi-viewer cases.
<2824>	<b>SURFACE:</b>	Fracture network objects not displaying in additional 3D viewers.
<2825>	<b>SEISMIC:</b>	Minor "colour-error" with high amplitude values exported to SS from T7.
<2826>	<b>T7-SYSTEM:</b>	"Create New folder" dialog in filechooser creates directory even on cancel.
<2827>	<b>SEISMIC:</b>	Probe controller left and right volume arrow buttons remain disabled.
<2829>	<b>DB-EXPLORER:</b>	Potential crash when viewing cellular model.
<2830>	<b>ASCII-IO:</b>	ASCII well-pick import can now obtain the destination well-ID from file.
<2831>	<b>TD-CONVERSION:</b>	Conversion process fails to copy all project components to target project.
<2832-E>	<b>SURFACE:</b>	Well repick now provides explicit fault & horizon selections.
<2833-E>	<b>UTILITIES:</b>	Data offset tool extended to permit XYZ scaling.

<b>Patch 7.0.41</b>	28/04/17	T7.041 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2834>	<b>SURFACE:</b>	New 7.040 well repick control window pops up for each well in a multi-selection case.
<2835>	<b>TRIANGLE:</b>	Triangle attributes rely on there being a T7Triangle license but should use T7Seal if available.
<2836>	<b>T7-SYSTEM:</b>	Redundant license entries included in license path on Windows MKS.
<2837>	<b>IDB:</b>	Abstract Fault Group modifications not transmitted via IPC to other T7 applications.
<2838>	<b>ASCII-I/O</b>	<i>ASCII polygon export</i> : very long object names can cause a crash.
<2839>	<b>EARTHGRID:</b>	CPG-Well-pick layer-snapping operation is wrongly labelled in the Undo/Redo system.
<2840>	<b>DATABASE:</b>	DB strip can fail if well marker picks are out of sequence.
<2841>	<b>T7-SYSTEM:</b>	Occasional flicker during repaint with advanced graphics enabled on Windows MKS.
<2842>	<b>VOLUME EDITOR:</b>	Seismic Colourmap list entries can sometimes shrink up to hide colour bar display-bar button.
<2943>	<b>GEOSERVER:</b>	Fixes for framework polygon generation.

<b>Patch 7.0.42</b>	11/05/17	T7.042 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2844>	<b>SURFACE:</b>	Well copy-and-paste results in new well trajectory with invalid TWT values.
<2846>	<b>EARTH GRID:</b>	Layer-to-pick snapping operations on CPGs do not always honour the layer/horizon cross-ref.
<2847>	<b>TXM:</b>	TXM attribute licensing checkout mode incorrectly implemented.
<2848>	<b>SEISMIC:</b>	Miscellaneous probe related UI fixes.
<2849>	<b>VOLUME EDITOR:</b>	Viewer-colourbar redraw can fail with advanced graphics enabled.
<2850>	<b>ECLIPSE I/O</b>	ECLIPSE export can export data in incorrect units.
<2851>	<b>EARTH GRID:</b>	CPG computed cell volumes have incorrect sign for (imported) right-handed grids.
<2853>	<b>APPL:</b>	Well top location adjustments not applied correctly to trajectory in depth projects.
<2854-E>	<b>VOLUME EDITOR:</b>	Re-enable object render sequence viewer options.

<b>Patch 7.0.43</b>	06/06/17	T7.043 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2405>	SEISMIC:	Box probe warp can warp to the wrong face.
<2855>	SEG-Y LOADER:	Amplitude histogram plot graphics can result in occasional crash.
<2857>	SEG-Y LOADER:	SEG-Y loader not initially populating survey drop-down list.
<2858>	PETREL LINK:	T7->T7 transfer doesn't maintain well pick location mode.
<2859>	T7-SYSTEM:	Incorrect behaviour when cancelling a filechooser using the system close button.
<2860>	VOLUME MANAGER:	Cancelling a filechooser when creating new link or moving volume displays an error.
<2861-E>	SEISMIC:	Visualisation and interpretation of fault segments on planar probes.
<2862>	EARTHGRID:	Running the layer-pick snapping tool causes a crash without well list/xref file.
<2863>	EARTHGRID	Property modelling cross-referencing was not handling negative downhole depths.
<2864>	LICENSE SYSTEM	Increase width of user-name & hostname display from 10 to 16 chars.
<2865-E>	VOLUME MANAGER:	BGL volume manager UI improvements for velocity volumes.
<2866-E>	SEISMIC:	Add mousewheel support for moving probe faces
<2867>	TRIANGLE:	Triangle Throw-Connectivity plot is empty when depth range set.
<2868>	SEISMIC:	Probe Z status text incorrect when units are not in metres.

<b>Patch 7.0.44</b>	23/06/17	T7.044 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2817>	<b>DB-EXPLORER:</b>	Moving items in Stratigraphic Sequence Editor generates unnecessary history log entries.
<2869>	<b>DSG LINK:</b>	Incorrect DecisionSpace version shown in Export Version combo box.
<2870>	<b>VOLUME EDITOR:</b>	Fix various picking-related issues.
<2871>	<b>DB-EXPLORER:</b>	Initial button-hold delay too short when moving items in Stratigraphic Sequence Editor.
<2872>	<b>OPENWORKS LINKS:</b>	OpenWorks Interp link crashes on 3D project initialise when point-files exist in OW proj.
<2873>	<b>PETREL LINK:</b>	Marker well picks created with invalid zero scale value.
<2874-E>	<b>SEISMIC:</b>	Provide an option to lock planar probes in vertical orientation.
<2875>	<b>SURFACE:</b>	Missing icon for fault segment edit on planar probe.

<b>Patch 7.0.45</b>	13/07/17	T7.045 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2879>	<b>PPROF EDITOR:</b>	Pressure Profile Editor pops up its editor when other apps start up.
<2880>	<b>SEISMIC:</b>	Frame controller Z-slice field fails if units are not meters or milliseconds.
<2882>	<b>FACIT MODULE:</b>	<i>FASIT</i> : zero- (and very small) -offset polygons causing anomalous values in frequency plots.
<2883-E>	<b>T7-SYSTEM:</b>	T7 patching system upgraded with security enhancements.
<2886>	<b>SEISMIC:</b>	<i>Section</i> : exporting from T7 to StructureSolver can cause a crash.
<2887>	<b>VOLUME EDITOR:</b>	Unhiding all objects can take an excessive amount of time.
<2888>	<b>OPENWORKS LINKS:</b>	OpenWorks seismic access license check can fail on more recent OW 5000 versions.

<b>Patch 7.0.46</b>		
27/07/17	T7.046 Patch release (Linux/Windows)	
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2889>	<b>SEISMIC:</b>	Add mode to display in-line sections with constant trace spacing.
<2890>	<b>T7-SYSTEM:</b>	Control application can leak memory when project dialog is left open.
<2891>	<b>SURFACE:</b>	Add facility to delete horizon raw data within fault trim zone.
<2892>	<b>DB-EXPLORER:</b>	Selecting horizon data volumes can occasionally cause a crash.
<2893>	<b>FAULTED:</b>	Model-run list layout problems.
<2894>	<b>SEISMIC:</b>	Occasional crash when unhiding a probe with sections loaded.
<2895>	<b>SEISMIC:</b>	Attempting to pick on a probe not in interpretation-mode can cause a crash.
<2896>	<b>SEISMIC:</b>	Picking on a section in a secondary viewer can crash if a probe is loaded.
<2898>	<b>T7-SYSTEM:</b>	T7 on Windows MKS fails to operate when installed alongside Coviz 9.1.
<2901>	<b>T7-SYSTEM:</b>	Patching can fail on Windows MKS.
<2902>	<b>SURFACE:</b>	Generating attribute-based contours can cause a crash on Windows MKS.
<2903>	<b>CDA:</b>	Improve point-to-line checks for rows & columns in 3D surveys.

<b>Patch 7.0.47</b>		
28/07/17	T7.047 Patch release (Linux/Windows)	
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2892>	<b>DB-EXPLORER:</b>	Selecting horizon data volumes can occasionally cause a crash. <i>Recommended: fixes issues introduced with 7.046</i>



<b>Patch 7.0.48</b>	19/09/17	T7.048 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2904>	CDA:	DB-Explorer crash during well copy.
<2905>	IDB:	Efficiency improvements to DB-strip & TD-conversion.
<2906>	SEISMIC:	Box probe does not always show interpretation.
<2907>	SURFACE:	Solid-fill of 3D horizon raw data does not handle object-specific styles correctly.
<2908>	SEISMIC:	Fault segs not auto-loaded on sections for new fault-planes.
<2909>	SEISMIC:	Volume 'view' dialog height can be incorrect.
<2910-E)	SURFACE:	Add new function to extract polygons from horizon tri-meshes.
<2911>	UTILITIES:	Seismic SGR extraction fails with errors.
<2912>	EARTHGRID:	CPG faults, FW/HW sometimes flipped.
<2913-E>	VOLUME EDITOR:	Provide display of floating info box when picking.
<2914>	VOLUME EDITOR:	Saved session preview can occasionally contain session dialog.
<2915>	TT-TRANSGEN:	User-defined CPG attribs passed to plugins have HW = FW values.
<2916>	CDA:	SHAPE objects omitted from project extents computations.
<2917>	T7-SYSTEM:	Shared memory support for advanced rendering fails (future fix for PTC X/Server 10.1).
<2918>	EARTHGRID:	Cellular grid menu missing from object tree.
<2919>	T7-SYSTEM:	T7.exe file incorrectly added to Linux installs during patching.

<b>Patch 7.0.49</b>	14/12/17	T7.049 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2921>	<b>SURFACE:</b>	Correction to equant triangulation of faults in the case when primary surface is gridded.
<2922-E>	<b>SEISMIC:</b>	Add capability for the viewing and editing of horizon data on planar probes.
<2924-E>	<b>VOLUME EDITOR:</b>	Added MB3-popup-menu & toolbar context specific style-control action to viewer objects.
<2926>	<b>VOLUME MANAGER:</b>	BGL volume manager incorrectly sets the datum tag when creating depth-domain velocity volumes.
<2927-E>	<b>TD-CONVERSION:</b>	Add new simple TD conversion option that uses the default TD velocity & datum in Project Parameters.
<2928>	<b>TRIANGLE:</b>	Attribute acronym ignored for Triangle floating colour widget.
<2929>	<b>TXM:</b>	T7Triangle license does not permit computation of required TXM base filters.
<2931>	<b>VOLUME EDITOR:</b>	Initiating motion in viewer can adversely affect other viewers upon input lag.
<2932>	<b>GEOSERVER:</b>	Horizon surface polygon extraction can fail unless all faults are loaded.
<2933-E>	<b>EARTHGRID:</b>	Enable mixed mode infill for CPG creation.
<2934>	<b>PETREL LINK:</b>	Importing via network can fail immediately with network error.
<2935>	<b>SURFACE:</b>	Use of discrete fracture selector tool results in unnecessary warnings.
<2936>	<b>SURFACE:</b>	Selecting 2D horizon data can cause a crash.
<2937>	<b>T7-SYSTEM:</b>	Temporary visual artefacts with "Advanced Rendering" enabled on MKS Windows.

<b>Patch 7.0.50</b>	05/04/18	T7.050 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
	<b>T7-SYSTEM:</b>	In addition to the specific items below and numerous general improvements, this patch introduces several major new enhancements. Users should refer to the 7.050 New Features PDF in "<T7_HOME>/docs/updates/7.050" for details.
<2914>	<b>VOLUME EDITOR:</b>	Saved session preview can occasionally contain session dialog.
<2925>	<b>GEOSEVER:</b>	Fault cut planes fail to update dynamically in Volume Editor (slicer control).
<2938>	<b>CDA:</b>	Standard horizon-raw-data attribute computations result in non-null data at points where input Z data is null.
<2939>	<b>IDB:</b>	Horizon copy (DB-Explorer) leaves open bulk data file pointers.
<2940>	<b>T7-SYSTEM:</b>	Improved math performance on Windows MKS.
<2941>	<b>DB-EXPLORER:</b>	Improved error dialog when attempt to activate object with inactive parents fails.
<2942>	<b>SEISMIC:</b>	2D horizon intersections do not display.
<2943>	<b>ECLIPSE I/O:</b>	ECL ASCII load does not handle enquoted keyword data with trailing or leading white-space.
<2944>	<b>TXM:</b>	Occasional crash when listing Display Methods (if all DMs set as favourites).
<2945>	<b>VOLUME EDITOR:</b>	3D handles sometimes have the wrong size.
<2946>	<b>BGL CAPTURE:</b>	Improvements to image-based seismic access.
<2947>	<b>ASCII-I/O:</b>	Selecting import entries in the well pick importer can cause a crash.
<2948>	<b>SURFACE:</b>	Improved algorithm for computing tubular well attribute geometry.

<b>Patch 7.0.51</b>	10/05/18	T7.051 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2949>	<b>SURFACE:</b>	Display of 3D horizon raw-data using fill-contiguous crashes with data-type display & sub-grid.
<2950-E>	<b>LICENSING SYSTEM:</b>	Add new T7FracNet license feature support.
<2951-E>	<b>VOLUME EDITOR:</b>	<i>Geomodelling:</i> property modelling provides additional user feedback on failure when no data found.
<2952>	<b>VOLUME EDITOR:</b>	<i>Geomodelling:</i> potential error using secondary well data in the co-located co-kriging workflow.
<2953-E>	<b>T7-SYSTEM:</b>	Improved messages area with Copy, Clear and Save support.
<2954>	<b>ASCII-IO</b>	<i>LAS Importer:</i> Excessive error messages on initialisation.
<2955>	<b>ASCII-IO</b>	<i>LAS Importer:</i> Unable to use locally created wells (those created via the application's well list).
<2956-E>	<b>TRIANGLE:</b>	Implement interactive pan and zoom using MB2 and mouse wheel.
<2958>	<b>VOLUME EDITOR:</b>	Scarring when cursor tracking in second viewer on Windows MKS.
<2959>	<b>PETREL LINK:</b>	Potential loss of precision when exporting data.
<2960>	<b>SEISMIC:</b>	Seismic display not updated when access definition switched.
<2961>	<b>CDA:</b>	Occasional crash in Volume Editor when displaying attributes on newly imported fault surfaces.
<2962>	<b>PETREL LINK:</b>	T7 import utility locks database preventing writes and applications launching whilst open.
<2963>	<b>DATABASE:</b>	TrapTester 6 project upgrade fails if IDB-database version <620.
<2964>	<b>VOLUME CAPTURE:</b>	Image-based seismic-io - floating point rounding issues for navigation extraction.
<2965>	<b>PETREL LINK:</b>	Exporting to previous versions of Petrel fails.
<2966>	<b>SURFACE:</b>	Hiding discrete fracture networks using the object tree fails.
<2967>	<b>ATT-CALC:</b>	AttCalc fails to list cell-grid faults for direct running of macros.
<2968>	<b>EARTHGRID:</b>	TT-TransGen cell-model scenario lock fails (Windows MKS) in Volume Editor after fault attribute sync.
<2969>	<b>PROJECT MANAGER:</b>	Incorrect disk space calculation during project backup.
<2970>	<b>ASCII-IO</b>	ASCII fault segment import can crash when Origin ID field is unspecified.
<2972>	<b>PETREL LINK:</b>	Transfer of 2D seismic can fail with an error.

<b>Patch 7.0.52</b>	04/06/18	T7.052 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<2974>	<b>BACKUP / RESTORE:</b>	Improved project size calculation during backup/restore
<2975>	<b>BACKUP / RESTORE:</b>	Project backup not interruptible via CTRL+C.
<2976-E>	<b>PROJECT MANAGER:</b>	Add new project information dialog, including project size.
<2977-E>	<b>EARTHGRID:</b>	Creation of horizon data from CPG layers now creates tri-meshes (and point-sets).
<2978>	<b>T7-SYSTEM:</b>	T7 applications can fail to start on Windows MKS with BadShmSeg X error reported.
<2979>	<b>DATABASE:</b>	DB initialiser for new projects creates default well attributes but they are not set as "active".
<2980>	<b>APPL:</b>	<i>Time depth curve editor:</i> undefined behaviour when editing (moving) unselected points on plot.
<2981>	<b>APPL:</b>	ED Scenario editor UI default height too small - obscuring some UI components.
<2982>	<b>PETREL LINK:</b>	Exporting cellular models can cause a crash if layers are Unassigned.
<2983>	<b>BGL VOLUME MANAGER:</b>	Seismic Access Definition volume name-matching issues.
<2984>	<b>PROJECT PARAMETERS:</b>	<i>Set project parameter:</i> "Treat negative throws as zero for SGR" to False as a default.
<2985>	<b>PROJECT PARAMETERS:</b>	Rationalise default attribute selections to reduce default attrib creation times.
<2986>	<b>SURFACE:</b>	Creation of arbitrary lines from fault segs can incorrectly detect 2D lines as existing host-lines.
<2987>	<b>EARTHGRID:</b>	Viewer-based CPG polygon clipping does not support polygon-sets.
<2988>	<b>DATABASE:</b>	DB update to correct pre-7.050 TD-Curve storage.

<b>Patch 7.0.53</b>		19/07/18	T7.053 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>			
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>	
<2841>	<b>T7-SYSTEM:</b>	Fix: Occasional graphics flicker during repaint with advanced graphics enabled on Windows MKS.	
<2989-E>	<b>T7/PETREL LINK:</b>	Add support TVDSS depth mode for T7 to T7 TD-curve transfer.	
<2990-E>	<b>VOLUME EDITOR:</b>	Add option to create shape from a contour.	
<2991-E>	<b>VOLUME EDITOR:</b>	Improve closed contour map-area computation (account for labelled contours).	
<2992-E>	<b>T7/PETREL LINK:</b>	Add Support for survey lists for T7 and Petrel transfers.	
<2993>	<b>VOLUME EDITOR:</b>	Fix: viewer colourbars hidden during viewer interaction when "Advanced Graphics" enabled.	
<2994>	<b>VOLUME EDITOR:</b>	Fix: enquiring (using <Shift>+MB2) whilst colourbars shown can cause a crash on Windows MKS.	
<2996>	<b>MODEL &amp; MAP:</b>	Fix: improve TrapAnalyst error message when no interval is defined.	
<2999>	<b>PROJECT MANAGER:</b>	Fix: projects backed up on Windows MKS can fail to restore on Linux.	
<3000>	<b>VOLUME EDITOR:</b>	Volume Editor Fix: crash when using a Display Method with a name > 30 chars in length.	
<3001>	<b>VOLUME EDITOR:</b>	Fix: context menu/toolbar shape creation tools not available unless surveys loaded.	
<3002>	<b>HORIZON VOLUME UTILITY:</b>	Fix: crash if set to use a control horizon but no control horizon selected.	
<3003-E>	<b>MODEL &amp; MAP:</b>	Add new options to (re)assign fault point-set data to active fault.	
<3004-E>	<b>TRIANGLE:</b>	Add probabilistic shale smear factor attribute & display method.	
<3005-E>	<b>TXM:</b>	Add new fault attribute filter-type to extract separation centre-lines.	
<3006>	<b>TRIANGLE:</b>	Fix: Display method editor list graphical glitch when selecting blank favourites separator entry.	
<3008>	<b>SS-T7 SERVER:</b>	Fix: importing files from StructureSolver can sometimes lead to significant data loss.	
<3009>	<b>INTERPRET:</b>	Fix: can not export to StructureSolver from section without seismic data.	
<3010>	<b>T7/PETREL LINK:</b>	Fix: rare crash on error.	
<3011>	<b>MODEL &amp; MAP:</b>	Fix: polygon editing fails to snap to branch lines.	

Patch 7.0.54	19/09/18	T7.054 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<i>ID No.</i>	<i>MODULE:</i>	<i>DESCRIPTION</i>
<3012-E>	<b>VOLUME EDITOR:</b>	Add option to highlight style settings when un hiding items using the tree.
<3013>	<b>INTERPRET:</b>	Fix: hiding a section leaves 2D horizon intersects & way-points on the display.
<3015>	<b>PROJECT MANAGER:</b>	Fix: improve dialog text when project open fails
<3016>	<b>INTERPRET:</b>	Fix: enquiry on a seismic probe displays corrupted text.
<3017>	<b>DOCUMENTATION</b>	Fix: corrupted manual page can cause browser to fail to load page.
<3018-E>	<b>ECLIPSE I/O</b>	Add option to choose a filter to control cell-status export.
<3019>	<b>INTERPRET:</b>	Fix: StructureSolver export does not always honour the current seismic colour map.
<3020-E>	<b>T7 SYSTEM:</b>	Alter default seismic colour-bar for newly imported/created data to be white-to-black.
<3021>	<b>T7 SYSTEM:</b>	Fix: T7 can fail to start on Windows MKS if the HOME variable is not set.
<3022>	<b>ASCII I/O:</b>	Fix: crash when reading GoCad files.
<3025>	<b>INTERPRET:</b>	Fix: well-projection: wells are not being filtered properly by threshold distance.
<3026>	<b>VOLUME EDITOR:</b>	Fix: un hiding objects can cause a crash (rare).
<3027>	<b>INTERPRET:</b>	Fix: modifying a seismic access definition can cause hidden objects to reappear in a disabled state.
<3028>	<b>EARTHGRID:</b>	Fix: saving a Cell-Grid config file can cause crash if no faults being used.
<3029>	<b>T7 INSTALLER:</b>	Fix: patch installation fails if previous patch was manually installed using lowercase patch name.
<3030>	<b>INTERPRET:</b>	Fix: assign & Load function for fault segments can crash Volume Editor.
<3031-E>	<b>T/D CONVERSION:</b>	Allow Z-domain conversion of velocity volumes + general usability improvements.
<3032>	<b>MODEL &amp; MAP:</b>	Fix: Well-Copy (Volume Editor, Model & Map) fails to assign the copied TD curve to the new well.
<3033>	<b>ASCII I/O:</b>	Fix: handling the import of GOCAD Tsurf files that contain triangles in wrong digitisation order.
<3034>	<b>PETREL LINK:</b>	Fix: exporting a seismic volume can fail with 'no such volume' error.
<3036>	<b>INTERPRET:</b>	Fix: seismic probe viewer-colour bars can fail to update.
<3038-E>	<b>T/D CONVERSION:</b>	Add facility to refresh seismic volume lists in the Time/Depth conversion UI.
<3039>	<b>IDB-UPDATE:</b>	Fix: IDB database update for ED scenario table zeroing out background-strain values.
<3041>	<b>PETREL LINK:</b>	Fix: import of 2D horizon data can fail on Windows MKS.



<b>Patch 7.0.55</b>	07/10/18	T7.055 Patch release (Linux/Windows)
<b>Bug Fixes/Enhancements</b>		
<b>ID No.</b>	<b>MODULE:</b>	<b>DESCRIPTION</b>
<3047-E>	<b>BGL VOL. CRT:</b>	Improve 3D seismic volume dip & azimuth extraction (now extracted as 32 bit floats in degrees).
<3051>	<b>VOLUME EDITOR:</b>	Fix: viewer colour bars can become "lost" between sessions with different viewer sizes.
<3052-E>	<b>PETREL LINK:</b>	Added option to crop 3D seismic to survey subgrid.
<3053-E>	<b>BGL VOL. MGR:</b>	Replace symbolic links with file-based system for linked BGL volumes.
<3054>	<b>PLOT VIEWER:</b>	Fix: unable to select attributes for crossplotting geocellular properties.
<3055>	<b>VOLUME EDITOR:</b>	Fix: creating or reactivating a horizon when planar probes are loaded can cause a crash.
<3056>	<b>VOLUME EDITOR:</b>	Fix: deactivating and reactivating faults in DB-Explorer when sections are loaded can cause crash.