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# S3schedule 2022 Release Notes

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**S3schedule**  
2022

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## 1. Introduction

S3schedule 2022 is part of the suite of Reservoir Engineering Pre-Processing tools from Sciencesoft Ltd. S3schedule will build simulator input schedule files from measured well data (deviation surveys, logs, production history, etc.) and grid geometry data.

Enhancements and new features in S3schedule 2022:

- Observed Data
  - Improved loading.
  - Added user specified date format option.
  - Basic filtering in tabular vector view.
- Well Events
  - Enhanced visual validation.
  - Display of shifted events.
  - Process shifts from well event file.
- Deviation/Trajectory file loading
  - Set default deviation settings based on file preview.
  - Enhanced calculated term support.
  - Validation of trajectory point order.
- Well and Group Controls
  - Can copy controls from existing table rows.
- Templates
  - Set end date for template application.
- Reporting
  - User selected timestep mode allows more control over reporting dates.
- Exporting
  - Export all loaded wells (where data available) to deviation style file.
  - Added option to load exported input deck files into S3control automatically.
- General
  - Added a Date Format option to alter the displayed date format throughout the application.
  - Treeview options added to open file and project location folders.
  - 'Search all files' for specific term.
  - Project files can be 'zipped' into archive folder.

## 1.1. Observed Data

The user can now specify a date format when loading observed data (if applicable):

Data: WellObservedEx1.csv - Parse File

Profile: LastUsedObservedProfile X Save Profile As...

Delimited Fixed Width

Delimiter: . Allowed Headers: Ignore Name Units Member StartDate Header Order: Name Member Units

Comment: --

Block Keyword:

Date Format: DD/MM/YYYY

Blank ItemsFirst

DATE	WOPR P2 (STB/Day)	WOPR P3 (STB/Day)	WOPR P4 (STB/Day)	WwPR P2 (STB/Day)	WwPR P3 (STB/Day)
01/01/1970	544.012	378.309	80.6598	0.766874	1.64047
01/02/1970	985.237	667.569	133.089	1.45535	3.14961
01/03/1970	1252.83	857.871	158.739	1.95631	4.69305
01/04/1970	1671.81	1126.51	191.561	2.7913	7.81072
01/05/1970	1139.68	820.445	127.178	1.99381	7.47471
01/06/1970	1225.55	847.442	124.661	2.2237	10.0308
01/07/1970	1135.78	777.205	218.023	2.13542	11.9484
01/08/1970	980.297	665.042	1129.03	1.89972	14.2319
01/09/1970	1100.69	693.579	1193.07	2.21972	19.9988
01/10/1970	1085.09	657.478	1154.85	2.3222	24.4244
01/11/1970	1064.57	621.361	1119.12	2.47147	29.7007
01/12/1970	1045.02	587.063	1089.13	2.69888	36.2875
01/01/1971	1277.68	664.097	1288.23	3.81802	51.8704
01/02/1971	985.249	517.243	1015.51	3.40807	48.6513
01/03/1971	968.693	491.391	987.54	3.86819	55.2818
01/04/1971	966.722	469.543	970.101	4.46039	62.8152
01/05/1971	930.091	437.126	925.358	5.18715	67.8849
01/06/1971	1237.37	539.876	1183.17	9.56079	97.4833
01/07/1971	1254.36	533.196	1189.18	13.1276	112.192
01/08/1971	1189.64	495.016	1124.15	16.1392	121.983
01/09/1971	1135.98	461.097	1069.65	19.1334	130.964
01/10/1971	1092.79	432.215	1024.64	23.1971	139.25
01/11/1971	1058.04	408.483	986.124	29.1744	147.224
01/12/1971	1027.19	387.549	951.596	35.1459	155.491
01/01/1972	814.495	310.044	769.228	32.932	136.052
01/02/1972	794.941	298.283	749.279	36.6185	140.693
01/03/1972	779.068	288.524	732.826	40.4299	145.714
01/04/1972	761.715	278.762	715.418	45.5115	150.703
01/05/1972	588.758	216.901	558.986	83.331	124.429

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## 1.2. Well Events

Shifted events are now indicated in the well event table, with a tooltip showing the shifted date:

	Well Name	Well Type	Event Type	Date	Defined By	La
	P2	Path	Perforation	01/01/1970	MD	Sand_1
	P2	Path	Perforation	05/01/1972	MD	Sand_2
	P2	Path	Perforation	10/05/1971	MD	Sand_3

Validation indicator displayed if specified top/bottom MD values are out with calculated range for a well:

	Well Name	Well Type	Event Type	Date	Defined By	Layer Name	Top MD	Bottom MD	
	G2	Path	Perforation	01/15/1970	MD	Sand_1	8000	8149.47	0.65
	G2	Path	Perforation	06/22/1972	MD	Sand_2	8149.47	8189.67	0.65
	G3	Path	Perforation	01/01/1970	MD	Sand_1	8100	8189.67	0.65

Trajectory top MD: 8013.223  
Value is not within trajectory MD range

### 1.3.Deviation/Trajectory File Loading

'Out-of-order' trajectory points are highlighted with log message:

```

TRAJECTORY_COLUMN_ORDER
MD_ENTRY GRID_I GRID_J GRID_K

GLOBAL

WELLNAME G1
WELLHEAD_I 14
WELLHEAD_J 2
TRAJECTORY
  7979.05   14    2    1
  8034.94   14    2    2
  8126.31   14    2    3
  8148.62   14    2    4
   8165.3   14    2    3
  8356.28   14    2    2
END_TRAJECTORY
  
```

09:33:17 01/20/2022 Trajectory points in file E:\Data\S3scheduleDemo\ex1\EX1.TRJ are out of order for the following well(s): G1

### 1.4.Reporting

Added a 'User Selected' option which allows clicking on table dates to add reporting steps:

EX1.DATA | EX1All Reporting x

**Reports** | RFT | PLT

Reporting On

Reporting Timesteps

Add Remove

Number	Start Timestep	End Timestep
0	01/01/1970	01/12/1975

Options

All timesteps

Last Only

Monthly 1 ▾

Yearly 1 ▾

Defined Frequency 1 ▾

User Selected

Timestep	Reporting
01/01/1970	.
15/01/1970	.
12/03/1970	.
28/07/1970	.
01/01/1971	✓
01/02/1971	.
01/05/1971	.
21/05/1971	.
05/06/1971	✓
01/01/1972	.
01/05/1972	.
22/06/1972	.
01/01/1973	✓
05/10/1973	.
01/01/1974	.
25/12/1974	.
01/01/1975	.
01/12/1975	.

## 2. Bug Fixes and other improvements

Some notable bug fixes in this release of S3schedule:

- Added option to turn off/on automatic deviation measured/reference depth correction.
- Fixed grid processing in some models.
- Fixed issue where inserted tabular values were not applied.
- Improved stability of Save and Save As operations.
- Corrected well downtime calculation.
- Fixed numerous issues arising from different user region settings.
- Fixed issue with modifying branch of well event(s).
- Corrected Net to Gross term in Trajectory export.
- Added new informative session log messages.
- Small fixes for production history preview zoom bar.
- Remove items from MRU list.
- Corrected application keyboard shortcuts.
- Improved performance of cell hit testing.
- Fixed memory leak with 3D grid fonts.
- Improved adding wells with LGR grids.
- Improved some display elements at high DPI settings.