



DATASHEET Fatigue Risk Management Solutions

FAID Quantum Release Notes

About InterDynamics

InterDynamics is a leading provider of decision support and risk management methodologies and software. Servicing an international market, our extensive client base spans the spectrum of shiftwork and safety-critical industries, including transportation, mining, logistics, healthcare and manufacturing.

Fatigue Risk Management Solutions: Helping businesses identify, assess and manage the risks associated with work-related fatigue at both operational and management levels.

Decision Support Solutions: Helping organisations plan and schedule their business operations more effectively.

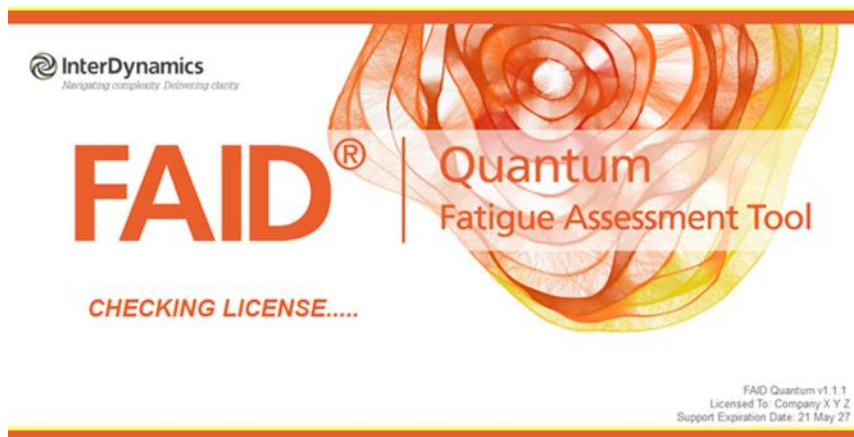
Our collaborative approach to customer service also helps us stand out from the crowd. Our experienced team can call on a wealth of problem-solving expertise to offer advice that is both practical and implementable.

Please contact us to find out more on this or our other offerings

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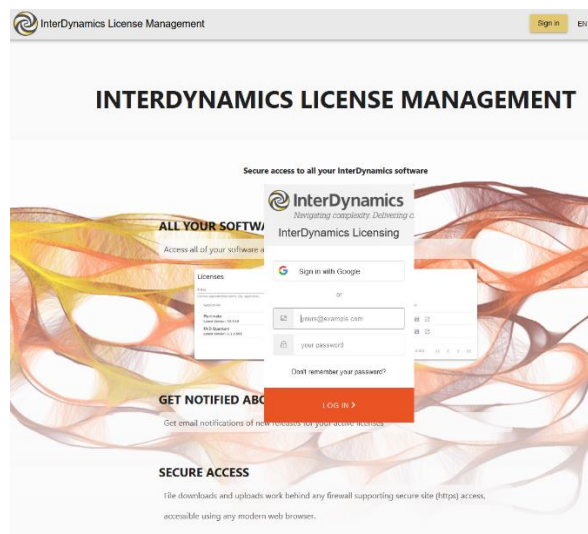
August 2023

Since the initial release of FAID Quantum, InterDynamics continues to receive suggestions and feedback from our users who are involved in a variety of industries, and we have incorporated them into the latest release: **FAID Quantum Version 1.1.1**. Read on for more about the License Management website, What's New in the FAID Quantum software, and details on the latest minor enhancements and fixes implemented.



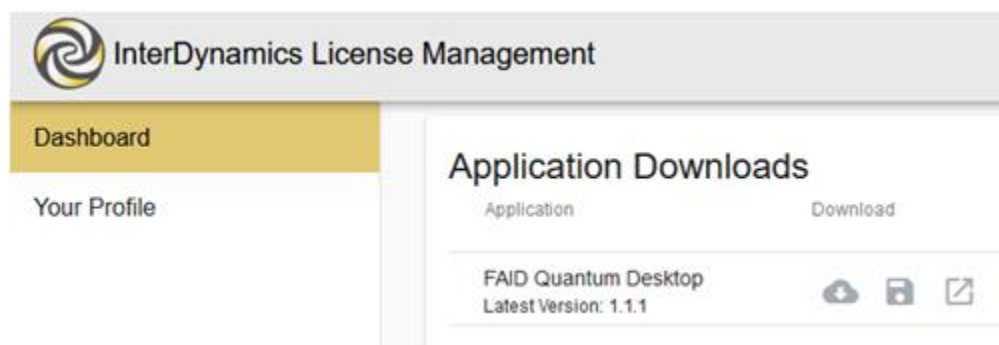
New File Sharing Website

InterDynamics has developed a new file sharing website located at: <https://licensing.interdynamics.com>



InterDynamics License Management Website

The InterDynamics License Management website provides access to download the latest FAID Quantum installation file, license key files, and documentation.



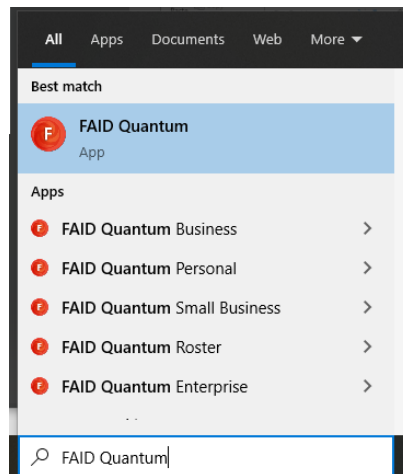
User Dashboard To Download Files

New and current clients will receive an email with a License Key File attachment, as well as links to the latest application to download. New Users will need to create a log-in password before entering the website.

NOTE: This new website replaces the previous filesharing website; idBase.

Program Name

The application program name is now **FAID Quantum**, without the variation being part of the name (ie previous application name of version 1.0.62 was FAID Quantum – Business).



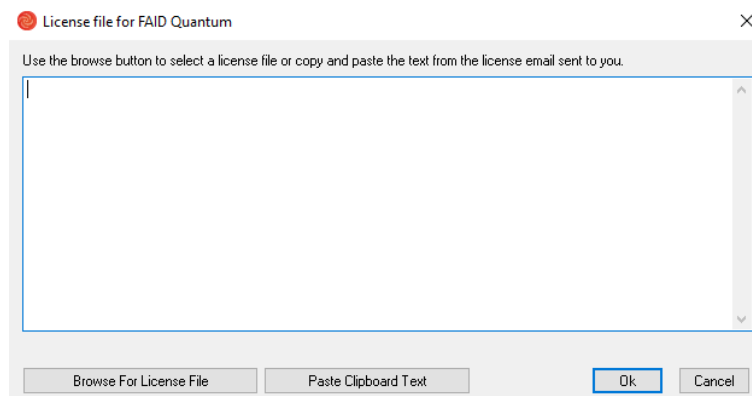
Application Name

It is recommended to uninstall previous versions of FAID Quantum.

License Key File

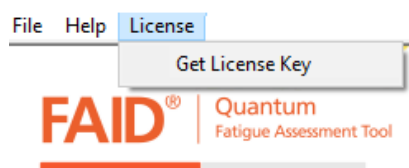
To activate the **FAID Quantum** software the user will need a valid license key file (UserKeyfile.FQLicense). This file is provided to the user via email when a **FAID Quantum** order is processed, and is also available to download via the License Management website.

When the user first starts **FAID Quantum** they will be prompted to browse and find the saved license key file, or copy and paste the license key file text using the License Request Form.



License Request Form

This is a once off process for a valid licence, as the license key file will be saved to the computer for future use. Also available is the option to load a new License Key File from the License menu option in the software.



Read License Key File Via Program Menu

Input File Format

There is a new file format for **FAID Quantum** input files, although they will still be a comma separate text file, there is the addition of a header row which contains details of the corresponding column title. Input file extensions are:

Work Schedule	.fqw
Sleep Schedule	.fqs
External Result	.fqr

Example of a Work Schedule input file (.fqw) data:

Name, Start, End, Activity Code
Finn Aide, 12 May 2023 0730, 12 May 2023 1930, CRM1
Finn Aide, 13 May 2023 0730, 13 May 2023 1930, CRM1
Finn Aide, 15 May 2023 1930, 16 May 2023 0700, CRM2
Finn Aide, 16 May 2023 1930, 17 May 2023 0700, CRM2

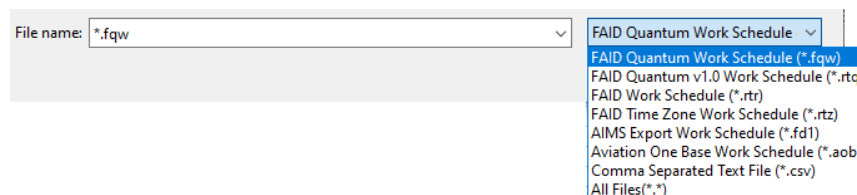
When reading in a file, **FAID Quantum** will read in the nominated column details from the files first row, and when saving **FAID Quantum** will save only the columns in view of the **FAID Quantum** software.

NOTE: For identification of individual if 'Name' column title then formatting of text is used, if 'ID' is used then value formatting will be used. Prompts will guide users if current formatting is different.

Work Schedule Column Names

Name (or ID), Start, Origin, Origin Start, End, Destn, Destination End, Post Shift Rest Quality, Activity Code, Task Risk, Sleep Buffer Prior, Sleep Buffer Post.

NOTE: Some columns are specific to the optional Time Zone feature, and previously used file formats (ie .rtr , .rtz. .rtq) will still be able to be read using the file extension drop down when reading in a file.



File Extension Options When Reading Input File

External Result

Input

FAID Quantum now provides an extra input of External Result to add to the Output review process. There are many options for using the External Result feature; the result could be an incident, accident, near miss, self-assessment by individual at start or end of work period, behavioural alertness test results (ie PVT). The external result can be formatted as text (ie description) or be a value (ie test result).

The Input table has three fields: Identification, Time of Result, Description/Value.

Example of an External Result input file (.fqr) data:

Name, Time, Result

Francis Royal, 15 May 2023 0223, 6

Francis Royal, 18 May 2023 0330, 5

Marley Parker, 11 May 2023 1930, 3

Marley Parker, 11 May 2023 1930, 8

Output

After analysis of the Work Schedule, and a corresponding External Result data has been imported, output displays are available to review of the External Results and the FAID Score and Karolinska Sleepiness Scale result at, or within 1 hour of, the time of the work period.

The Key Risk Indicators (KRI) provides a display breaking down the Count, Average, and Standard Deviation for the External Results in the relative blocks.

External Result Block	Hours at KSS	External Result Count	Average External Results	Std Dev External Results	External Result Block	Hours at FAID Score	External Result Count	Average External Results	Std Dev External Results
1 to 2	0.0	0	0.0	0.0	0 to 10	10.5	0	0.0	0.0
2 to 3	17.1	0	0.0	0.0	10 to 20	24.2	1	4.0	0.0
3 to 4	245.2	32	4.9	0.2	20 to 30	94.3	11	5.1	0.7
4 to 5	180.1	1	5.0	0.0	30 to 40	178.3	16	5.0	0.0
5 to 6	61.1	0	0.0	0.0	40 to 50	137.4	7	5.3	0.8
6 to 7	61.7	4	7.0	0.0	50 to 60	79.2	5	7.4	0.5
7 to 8	27.1	20	7.6	0.5	60 to 70	45.7	4	7.5	0.6
8 to 9	0.0	0	0.0	0.0	70 to 80	15.6	9	7.4	0.5
					80 to 90	6.3	1	8.0	0.0
					90 to 100	0.8	3	8.0	0.0
					100 to 110	0.0	0	0.0	0.0
					110 to 120	0.0	0	0.0	0.0

KRI - External Results Display

The External Results Schedule display provides a tabular review of each result and details about:

- If the External Result occurred during a work period, or within one hour of a work period.
- What was the FAID Score / KSS result at the time of the External Result.
- What was the Peak FAID Score and Peak KSS for the work period it occurred in.

Name	Time	Result	FAID Score	KSS	Worked	Worked Start	Worked End	Worked PFS	Within 1h Start	Work Start FS	Within 1h End	Work End FS	Worked PKSS	KSS Within 1h	Work Start KSS	KSS Within 1h	Work End KSS
Sample1	17 Jun 20 18:06	5	38	4.0	Yes	17 Jun 20 07:00	17 Jun 20 18:06	57					4.7				
Sample5	24 Jun 20 03:36	7	62	7.2	Yes	23 Jun 20 17:30	24 Jun 20 03:36	62					7.2				
Sample6	11 Jun 20 18:18	4		3.9		11 Jun 20 07:00	11 Jun 20 17:18			Yes		17			Yes		3.5
Sample6	12 Jun 20 16:00	5	27	3.2	Yes	12 Jun 20 07:00	12 Jun 20 16:00	29					4.7				
Sample6	13 Jun 20 17:45	5	32	3.8	Yes	13 Jun 20 07:00	13 Jun 20 17:45	42					4.7				
Sample6	15 Jun 20 04:36	8	74	7.6	Yes	14 Jun 20 17:30	15 Jun 20 04:36	74					7.6				
Sample6	16 Jun 20 04:30	7		7.5		15 Jun 20 17:30	16 Jun 20 03:30			Yes		79			Yes		7.4
Sample6	17 Jun 20 04:36	8	95	7.7	Yes	16 Jun 20 17:30	17 Jun 20 04:36	95					7.7				
Sample6	20 Jun 20 16:31	5	28	3.3	Yes	20 Jun 20 07:00	20 Jun 20 16:31	36					4.5				

External Result Schedule Output

Sleep Buffer

Work Schedule Input

With Time Zone Mode set to Yes, there is the option to include in the Work Schedule the fields (via settings) a 'Sleep Buffer Prior' and a 'Sleep Buffer Post' with three different sleep buffers options available: **Normal, Short, Long**.

If there is no Sleep Buffer columns included in the Work Schedule, and/or no time Zone Mode, then just one Sleep Buffer time is used (**Normal**).

Settings

The Sleep Buffers are for the prediction of sleep between two work periods and default times for these are:

Normal	1 hour
Short	30 mins
Long	2 hours

Major Release Dates:

FAID	v1.0	September 1999
FAID	v1.5	June 2005
FAID	v2.0	October 2007
FAID	v2.1	January 2012
FAID	v2.2	May 2014
FAID Quantum	v1.0	March 2016
FAID Quantum	v1.1	June 2020

Fixes and Enhancements v1.1.1.776

- Expired License Key File will invoke a check of FAID Quantum software release date
- Fix for License Key File check when starting FAID Quantum via work schedule file
- Input ability for user to lock the Analysis Start Date
- Input Addition of Post Shift Sleep Quality for work periods (non-time zone users)
- Input Deleting Rows from Work Schedule now has different options via edit menu
- Input Import Work Schedule will check Activity and Sleep Buffer details
- Input Fix for Import .csv Style and Paste from Clipboard and enter wrong day count
- Input Sleep Buffer columns in Work Schedule change display when KSS option changed
- Inputs - Enhancement to duplicate selected work periods and add to work schedule via edit menu
- Inputs - Enhancement to help clean up errors automatically
- Analysis fix for check for number of optional columns
- Analysis Generate Missing Historic Sleep when no work in history period
- Output Apparent Tolerance Level - FAID Score text alignment
- Output Dashboard Layout updated. Ability to set Target Compliance and Yellow indicator
- Output Dashboard export to Clipboard viewed only

- Output Individual Score Tabs - Summary alignment
- Output Fix navigate to Individual Compare Table check remote control image
- Outputs Save Image style option .png for selected Outputs
- Outputs align scale for FAID and KSS Score Plots
- Outputs Fix for number of columns used in Individual Table view
- Outputs Ignore when Past 168 hours Sleep is Zero. Change in Settings. Default is YES.
- Outputs KRI Compliance additional view for Apparent TL for Summary and Individuals
- Outputs Navigation to Individual Plot - Multiple View option
- Outputs Fix Score Plot legend key display
- Outputs Summary Hours at Result ability to define the 'blocks' for FAID Score and KSS via the Settings
- Outputs Fixed for Summary - Cumulative Profile - Graph Scale for Work Schedule 2
- Roster - Customised Jobs to show KSS Scores
- Roster - File Location display length increased
- Roster - Fix for Update White Colouring button
- Roster - Import Work Schedule file with Automatically Add Individuals with Identification value
- Roster - Import WS option to overwrite or append
- Roster - Time Zone - Shift Choice Time Zone mismatch display. Settings option to Display.
- Roster - Import files option with Time Zone details
- Roster - Unable to find File Path warning notification.
- Time Zone - Look to apply Inflight Rest to all work periods if no Activity Column to check.
- Time Zone - New Sample Work Schedule which includes time zone movement
- Time Zone - Outputs - Plot and Work Schedule column for specific Time Zone view. Settings - Aviation - Display Single Time Zone.
- Time Zone - Work Schedule with half time zones notification. Option to 'Don't Show Again'.
- Enterprise - Ability to change the Input Work Schedule column widths
- Enterprise - Ability to change the Raw Network data calendar format used
- Enterprise - Ability to include a Task Risk
- Enterprise - Summary Change Level Menu uses Level Detail Name for selections.
- Enterprise - Users can switch INPUTS between Network (Raw) and Business Work Schedule 1 and 2

Fixes and Enhancements in prior releases

v1.1.1.712 (Mar 2022)

- Input Sleep Schedule refresh.
- Input Work Schedule 'Add Shift' popup to have Sleep Buffer detail same as the Default.
- Importing an External Results table for auto adding descriptive text.
- Moved the Settings Input for Default Task Edit in different section.
- Settings Time Zone mode Rest Discount percentage.
- Output Work Schedule column selection (Location and Activity).
- Output Sleep Plot Graph to have same scale.
- Output Sleep Plot capture Legend.
- Outputs selected columns turned view off when Analysis KSS not performed.
- Summary Compare Schedules Compliance Hours text.
- Summary Capture Work Schedule 2 Shifts display.
- Change the Output 'Extra Details' drop down option from 'Aviation' to 'Time Zone'.
- Output Dashboard view keep selection.
- Outputs KRI the Hour of Day the scroll bar for KSS Result.
- Outputs KRI the Hours and Condition copying to clipboard with FAID Score Only.

- Outputs Individual Table display to have the Sleep Schedule displaying.
- Outputs Individual Plot Legend Sleep details
- Roster - Browse for work schedule file.
- Roster - Template issue with name and ID numbers in file.
- Roster - Template delete option.
- Roster - Template same name as existing template.
- Roster - .csv import file path.
- Enterprise - Inputs old Network Summary files Total Hours load.
- Enterprise - Inputs warning when loading files and Network Summary present.
- Enterprise - Inputs if cancel import doesn't clear current Raw Schedule.
- Enterprise - Outputs Trend Display FAID Score and KSS text.
- Enterprise - Analysis Trend selected check whole month for analysis. Provide Warning.
- Enterprise - Ability to add a Task Risk column to Raw Network import file and analyse with multiple task risk.
- Enterprise - Network Summary no work with apparent FAID Score Tolerance Level detail.
- Enterprise - From Network Summary load file option check Tolerance Level matches Bulk analysis detail.
- Enterprise - Read Network Summary file check Tolerance Level matches Bulk analysis detail.
- Enterprise - Display the Enterprise Levels in the External Result Output view.
- Enterprise - Summary Individual Apparent FAID Score and KSS points adjustment.
- Enterprise - Summary KSS Compliance % x.x
- Enterprise - Summary and Individual Compliance % rounding for 99.9%
- Enterprise - Summary Load File Analysis History Date 7 days.
- Enterprise - Network Summary individuals with zero work hours.

v1.1.1.674 (Oct 2021)

- Input Work Schedule file (.fqw) save only columns in view.
- Fixed when cancel creation of Sleep Schedule from Work Schedule clearing.
- Inclusion of Activity Code for .csv special Work Schedule Import.
- Fix when .csv clipboard import Work Schedule for Sleep Schedule creation.
- KSS width option in Settings (Outputs).
- Default values for Work Schedule columns where data is missing from import file. Sleep Buffers (Normal) and Post Shift Rest Quality (Full).
- Work Schedule Output Extra Detail choice Activity and Location in 'Other' category.
- Fixed the Output Individual result plot pixel view.
- Fixed the Export Summary to Clipboard (KSS Only).
- Fixed the Output Activity Details colouring for Gantt Chart.
- Fixed the Output Work Schedule 2 Plot gap from the Start Date.
- Fixed the Time Zone In-Flight Rest applied and plotting body clock.
- Fixed the Shift Colour set to White for Output Utilities Individual Shift Display.
- Fixed the Shift Display for multiple shifts on one day in Output Utilities for Individual display.
- Individual Plot no sleep display for FAID Score.
- Roster - Check for Template Import for Day 1 (zero or one) set.
- Roster - Work Schedule import file fix.
- Enterprise - Perform KSS Option drop down menu fix.

v1.1.1.646 (Aug 2021)

- Annual Support Expiry Date check.
- Analysis Wizard - Closest Day.
- Setting Output WS - Condition Colour cells for Peak Score (setting option), with No Green Condition option.
- KSS 9.0 Red Condition Hours.
- Work Schedule Activity column display.
- Shift Gantt Display Popup horizontal slide.
- Score Plot - Scroll Bar Full at start.
- Sleep Tolerance Level (past 24 / 48 hours) default 5 hours (24) and 12 hours (48).
- Score Plot - Compare View Layout.
- Enterprise - Export .fqw file ID / Name details.
- Roster - Ability to import a .fqw Work Schedule file to populate the roster and individuals.

v1.1.1.641 (Apr 2021)

Inputs

- Fixed when loading a Shift Type in Inputs.
- Fixed when searching for users MyDocuments folder.
- Fixed using the importing a FAID special .csv via clipboard and individual identifier is name.
- Fixed the text for Research License.
- When importing into Work Schedule if data is present will always ask to Append.
- Fixed if importing a special .fd1 file into Work Schedule 2.
- Fixed the Sleep Schedule period if user is on a trial version.
- Roster - Assistance is the user changes own Super User details to Read Only.
- Roster - Check for incorrect file imported into Shift Details.
- Roster - ability to import a .fqw Work Schedule file to populate the roster and individuals.
- Added tip text for Settings Input Read File.
- Added option to Remove work period(s) if an individual does not have at least one non-work period.
- Settings - help round any half time zones in the work schedule (time zone mode).
- Settings - Shift Types delete has a 'Delete All' or specific 'Shift Type' option.

Outputs

- Fixed when using the Export Summary when there is no analysis.
- Fixed the exporting the Output Summary and cancel is selected.
- Fixed the KSS Plot when a work period is over midnight for last date of analysis.
- Fixed the gantt plot to eliminate the extra grey shadow on work periods.
- Fixed the legend display for KSS Score Plot View.
- Updated old Help links.
- Printing Selections show for when performing FAID and/or KSS Scores.
- Fixed option for users with HAZAID to export Summary file.
- Roster - Rule for x max hours in past y days (with rest z hrs reset). Y option only 1 to 7 days.
- Roster - Show staff level 1 and staff level 2 options to display and change title.
- Enterprise – External Results for Individual Load.
- Printing for Research / Educational License.

v1.1.0.615 (Nov 2020)

- Fixed Summary Capture.
- Added an Exposure Log Export Work Schedule option.

v1.1.0.614 (Nov 2020)

- Fixed the Work Schedule Duplicate Check.
- Fixed the Sleep Schedule Types.
- Fix for External Results.
- Fixed the MyDocuments not being able to be writeable with the popup.
- Add in an Identification column Width.
- Add Clear All Shift Types option.
- Add Summary Capture.

v1.1.0.613 (Sep 2020)

- Fixed for the version which have restrictions due to their licence settings (ie Small Business, Personal).

v1.1.0.612 (Sep 2020)

- Fix the loading license over network with early versions of Windows 10.

v1.1.0.611 (Sep 2020)

- Fixed where the External Result for Work Schedule 2 was showing the Activity and Task.
- Fixed the editable result input when text format.

- Added some Enterprise customisation displays.
- Adjusted the Output KRI Total Hours Combo column titles.
- Changed the KRI Condition Work Schedule 2 definition.
- Adjusted the column title for KRI Hour of Day Hour.

v1.1.0.610 (Aug 2020)

- Fixed for Settings when no KSS Performed.
- Fixed the navigation to Score Plots display
- Update the customised versions.

v1.1.609 (Aug 20220)

- Fix for KRI two schedules table expansion view. Update Roster version.

v1.1.0.608 (Aug 20220)

- Check via License Key File if an Educational or Research Use Only Licence.

v1.1.0.607 (Aug 20220)

- Fix for check for License KeyFile program folder path location first time installed. Enhancement for check for minimum Microsoft Visual C++ and redistributable package install.

v1.1.0.606 (Jul 20220)

- Fix for User guide link from menu.

v1.1.0.605 (Jul 2020)

- Fix for email support link.

v1.1.0.604 (Jul 2020)

- Fix for writing LicenseKey to AppData for new users. Update new codesigning certificate.

v1.1.0.603 (Jun 2020)

- Fix for Get New License Key and Saving current Settings. Fix for update About popup when Get New License Key.

InterDynamics has a range of FRMS products which can assist your organisation in its journey towards a robust Fatigue Risk Management System.

Please contact us to find out more:

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