



Fatigue Safe Systems

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InterDynamics FAID™ Fatigue Risk Management product was awarded the WorkCover SAFeWork Award 2001 in the Information Technology Solution category.



FAID® Version 1.5 Enhancements

InterDynamics has an ongoing commitment to improving the capabilities and features of its products for experienced and 'first time' users. It is pleased to announce the release of FAID® Version 1.5. This version incorporates many of the suggestions received from users of FAID® since our last release.

Our emphasis has been to provide more assistance to the user of FAID® to understand it's role as an integral part of a Fatigue Risk Management System. For example, the Strategic Context Map provides a reference to the risk management process the user is focused on.

Consistent with the increased risk management focus, and global use of FAID®, the following changes of terms have been made:

<i>Fatigue Tolerance Level</i>	replaces 'Risk Target Fatigue Score'
<i>Work Schedule</i>	replaces 'Roster'
<i>Work Period</i>	replaces 'Shift'
<i>Indicative Fatigue</i>	replaces 'Fatigue Score'
<i>Sleep Estimate</i>	replaces 'Sleep Propensity'

FAID® Version 1.5 has been rationalised into two sections: Inputs & Outputs.

INPUTS

Information is provided about the Fatigue Hazard Analysis processes, which should be followed to establish one, or many, Fatigue Tolerance Levels (FTL), which are the basis of the FAID® risk assessment.

Hours of work of individuals are entered to create work schedules.

A key new feature is the ability to readily test the impact of adding a new work period in a work schedule.

OUTPUTS

Fatigue Risk Assessment results are presented, which include: Group Work Schedule / Work Schedule / Individual Work Periods.

Key Risk Indicators are presented, which include: Peak Fatigue Risk Levels by Category / FTL Compliance / Hours Worked Above the Tolerance Level Profiles / Frequency Plots.

Indicative Fatigue and Prior Sleep Estimate for each individual's work periods are displayed in tabular, plot, and gantt views, with the option for a comparison view with other individuals.

To assist in reviewing staffing requirements, Availability displays of work patterns, historical profiles and concurrent work periods are provided.

All Outputs: tables, plots and images, can be exported to the clipboard, or saved as a file.

Screen size has been expanded to suit most current users.

We look forward to continuing to support individuals and organisations in their endeavour to create fatigue safe workplaces.

Further suggestions on how FAID® can be improved are welcomed.

WHAT'S NEW ?

NEW TERMS

Consistent with the increased risk management focus, and global use of FAID[®], the following changes of terms have been made:

<i>Fatigue Tolerance Level</i>	replaces 'Risk Target Fatigue Score'
<i>Work Schedule</i>	replaces 'Roster'
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<i>Sleep Estimate</i>	replaces 'Sleep Propensity'

INFORMATION

The user has the option to have displayed on each screen an information area about the screen they are viewing, and it's purpose.

STRATEGIC CONTEXT MAP

The Strategic Context Map provides a reference to the risk management process the user is focused on.



SCREEN SIZE

There are two sizes of screen sizes available for viewing:

- Maximised (1016 x 660)
- Compact (784 x 488) previous FAID[®] screen size

ANALYSIS

An Analysis run is available throughout the Inputs sections.

INPUTS

Fatigue Hazard Analysis

In the Tolerance Level section, information is provided about the Fatigue Hazard Analysis processes, which should be followed to establish one, or many, Fatigue Tolerance Levels (FTL), which are the basis of the FAID® risk assessment.

Fatigue Tolerance Level(s)

Via our feedback, most FAID® users initially evaluate all work periods in a work schedule against a single fatigue tolerance level. To accommodate this, the user has the option to set four different Fatigue Tolerance Levels (Multiple Tasks) or One Fatigue Tolerance Level.

Task Risk Fatigue Tolerance Level (Fatigue Score)

Tolerance Level

OR

Task Risk Fatigue Tolerance Level (Fatigue Score)

Low	<input style="width: 100%;" type="text"/>
Moderate	<input style="width: 100%;" type="text"/>
High	<input style="width: 100%;" type="text"/>
Extreme	<input style="width: 100%;" type="text"/>

Fatigue Risk Level Assessment

For Reporting purposes, two bands (%) of Non-Compliance can be set to review major and minor breaches.

Extra Work Period

The Extra Work Period function enables the user readily test the impact of adding a new work period in a work schedule, without having to run a full analysis and produce all Outputs.

Extra Work Period Schedule							
ID #	Start	End	Shift FTS	Fh	FR Level	Non-Work	Work
1:	11 Jan 05 1600	12 Jan 05 0000	48.0	298.5	-32.0	16.0	8.0
2:	14 Jan 05 0000	14 Jan 05 0800	60.3	376.5	-19.7	48.0	8.0
3:	15 Jan 05 0000	15 Jan 05 0800	71.7	459.1	-8.3	16.0	8.0
4:	16 Jan 05 0000	16 Jan 05 0800	81.9	532.4	1.9	16.0	8.0
5:	17 Jan 05 0000	17 Jan 05 0800	90.2	596.2	10.7	16.0	8.0
6:	18 Jan 05 0000	18 Jan 05 0800	96.2	650.0	18.5	16.0	8.0
7:	19 Jan 05 0400	19 Jan 05 1600	91.8	569.6	11.8	20.0	14.0
8:	20 Jan 05 0000	20 Jan 05 0800	96.2	650.0	18.5	16.0	8.0
9:	21 Jan 05 0800	21 Jan 05 1600	67.3	467.7	-12.7	16.0	8.0
10:	22 Jan 05 0800	22 Jan 05 1600	62.5	436.1	-17.5	16.0	8.0
11:	23 Jan 05 0800	23 Jan 05 1600	58.6	410.5	-21.4	16.0	8.0
12:	24 Jan 05 0800	24 Jan 05 1600	55.6	390.8	-24.4	16.0	8.0
13:	26 Jan 05 1600	27 Jan 05 0000	38.8	236.1	-41.2	48.0	8.0
14:	27 Jan 05 1600	28 Jan 05 0000	40.9	250.7	-39.1	16.0	8.0

OUTPUTS

Export Data / Images

All of the outputs now have the option of exporting the data or image via:



Saving data to file



Copying to the Clipboard, or



Saving image to file

Fatigue Risk Assessment Results

A new summary of the Key Risk Indicators provides; a Work Schedule Fatigue Risk Profile, and a FTL Compliance summary.

Key Risk Indicators

This section provides a breakdown of the summary from the Fatigue Risk Assessment Results.

Peak Fatigue Risk Level by Category

This output now includes an individual breakdown, with the ability to sort the table by the selected category.

FTL Compliance

The FTL Compliance display now also provides information on two bands of Non-Compliance (nominated in the Inputs). This allows the user to view the percentage (of hours worked) of major and minor breaches.

Hours of Work

A new tabular output provides the amount of hours worked in each of the 24 hours of the day, and a view of the percentage of hours worked above the set Tolerance Level.

Indicative Fatigue and Sleep Estimate

A singular tabular or graphical view of an individuals Indicative Fatigue or Sleep Estimate, with the option to move to a compare mode to view two individuals at one time.

Availability

To assist in reviewing staffing requirements profiles of the number of Work Period Starts Daily, Monthly, Hour of Day, and number of Work Lengths, and Non-Work Lengths are provided.

Also, the user can view the concurrent amount of individuals working during the analysis period.

Version 1.5 is now available at <http://faid.interdynamics.com>



Faid® Safe

Faid® Safe is a fatigue safety system that is built on three levels of protection and designed so that all industrial organisations can establish adequacy of current and future controls that protect against inherent fatigue hazards.

Faid® Safe is based on a holistic diagnosis of operational, capacity and cultural exposures, coupled with the development of primary, secondary and tertiary safeguards.

Faid® Safe is offered as the global benchmark for services assisting the fatigue safe systems market and recognises that irrespective of the support tools that are adopted, a comprehensive Risk Engineering based fatigue safe system is required in order to adequately manage fatigue risks.

**For further details on these products and services contact
InterDynamics on +61 8 8233 5911 or
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