

MakaiPlan 5.0

Upgrade



MAKAI OCEAN ENGINEERING
makaiplan@makai.com
Phone 1 808.259.8871
Fax 1 808.259. 8238

MAJOR RELEASE

MakaiPlan 5.0 is a major software release in the life cycle of Makai's submarine cable planning software. In response to customer requests, many new features and added functionality have been introduced into this release.

SHOWING PROJECTION X,Y IN RPL

Users can now show X,Y positions in addition to the geographic/WGS84 positions used natively by MakaiPlan. The user-defined coordinate system file can be attached to the options tab of the RPL window.

Index	Latitude	Longitude	X	Y	Cable (m)
0	N21 14.1512	W157 52.1435	617348.81	2348670.04	0
1	N21 13.2669	W157 50.3107	620539.63	2347061.62	3,717
	N21 12.6649	W157 50.0007	621083.97	2345954.91	5,000
	N21 11.7264	W157 49.5176	621932.62	2344229.69	7,000
2	N21 11.3906	W157 49.3447	622236.28	2343612.43	7,716
3	N21 10.5784	W157 47.4709	625489.95	2342138.38	11,431

ALTERNATIVE DATUMS SUPPORTED

Projections and alternative Datums are now supported for importing position data in the RPL Window. After creating a coordinate system file and defining the Position Data Information using the file, users can use the X and Y fields, rather than the Lon and Lat fields.

Importing RPL

10	11	12	Slack	14	15	Body Type	17	18
AlterCourse deg	Distance (m) Segment	Distance (m) Total	Slack % Surface	Slack % Bottom	Cable (m) Segment	Body Type	Comment	Cable Length By Type
	23,794		4.00	4.00*	24,746		(*Profile Upc	0
94.96		23,794		4.00*	19,743		(*Profile Upc	24,746
84.35	18,984		42,778					44,489
	13,582			4.00	4.00*		(*Profile Upc	
23.74		56,360						58,615
	2,278			4.00*	2,369		(*Profile Upc	

File Name: C:\Makai Projects\Hawaii Coord Test\07MergeUTM4.csv

Num of Header Lines: 4 Num of Lines per Waypoint: 2 Skip Lines Starting With:

Comma Delimited Tab Delimited Other Delimited: Fixed Format

Waypoint to Analyze: 1

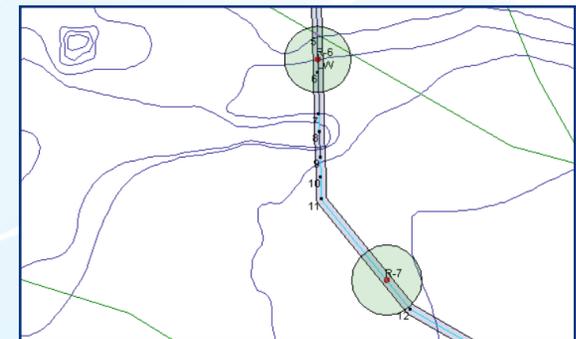
Field Definition | User Data | Coordinate System

Position Data Information:
 Use Latitude/Longitude in WGS84
 Use Coordinate System Definition File:
Browse: C:\Makai Projects\Hawaii Coord Test\UTM4.csv

Makai uses geographic (lat/lon) positions in WGS 84. If your position data is in a projection, a different datum, or a combination of these, create a GeoMedia Coord System file defining these. The data will be converted to geographic WGS84 during the import process.

BUFFER ZONES

Buffer zones are now supported around path lines, path points, and bodies. These can be defined as fixed width or width as a function of depth (for points and bodies). The buffer zones move as the path is edited and are persistent within the project.



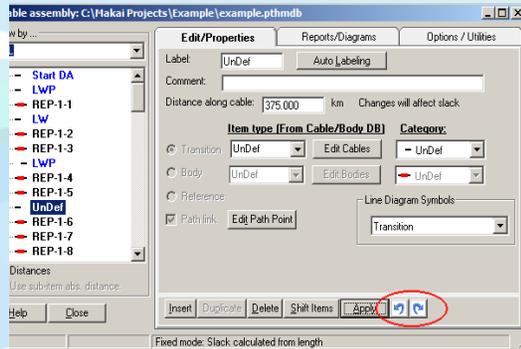
UNDO - REDO

Undo and redo functionality have been added to path edits. There is a new Advanced tab in the project options to define the maximum number of undo's and the location to store the undo data.



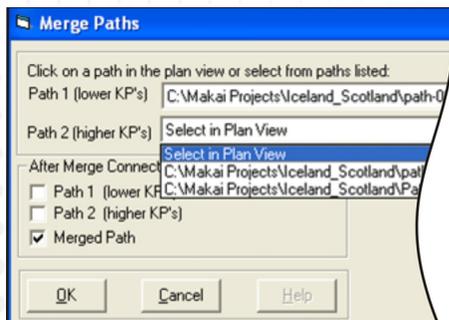
UNDO - REDO

The undo and redo buttons will appear in two places: on the plan view top tool bar in the path section, and in the Cable Assembly form. These two locations have the exact same functionality, it does not matter where the edits were made.



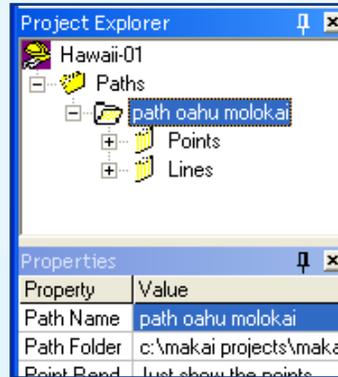
MERGE PATHS TOOL

A new Merge Paths tool allows users to easily merge two paths into a single path either by selecting the paths from the plan view or selecting them from the dropdown list in the tool. After the merge, the user has the option to load and edit either of the original paths, or the merged path.

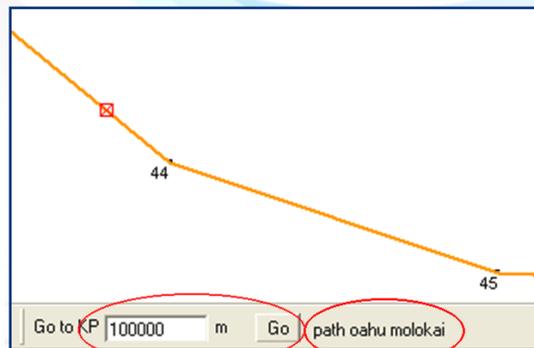


EXPLORER SHORT PATH NAME

The explorer window now displays the short name of the path, not the full file name. A field in the properties window was added to show the folder in which the path file resides.

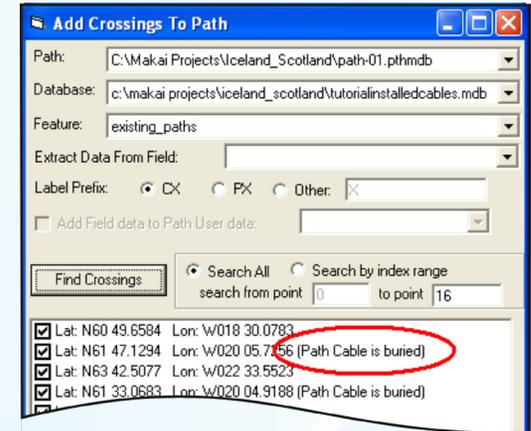


A user interface has been added to the Plan view to place a marker on a specific KP. This interface was added to the lower plan view toolbar. If multiple paths are in the project, you must first select the path you wish to mark by either selecting the path in the explorer window, selecting the path in the plan view, or editing the path in the plan view. The short name of the selected path will appear on the right of the KP marker section.



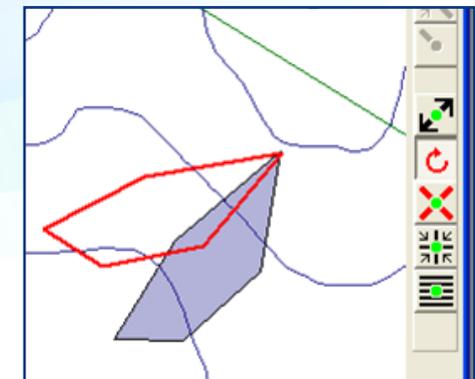
CROSSING TOOL

The "Add Crossings To Path" tool now includes the ability to indicate if the cable is buried at the crossing point.



ROTATION OF ANNOTATIONS

Notes, lines and areas can now be rotated in the plan view by selecting the rotation button and clicking on a geometry object at the rotation center.



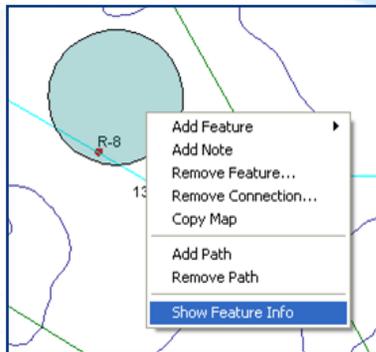
DELETE SELECTABLE POINTS

Users now have the option to delete objects from the selectable point list. A warning will be displayed if any of the objects to be deleted contain altercourses, transitions, or slack change points.



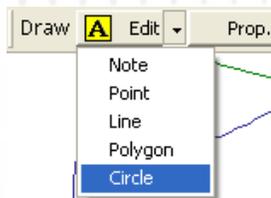
RIGHT-CLICK FEATURE INFO

A "Show Feature Info" option has been added to the right-click menu in the plan view allowing for easy access to feature information.



DRAW CIRCLES

Circles can now be drawn, added and edited to the annotations database.

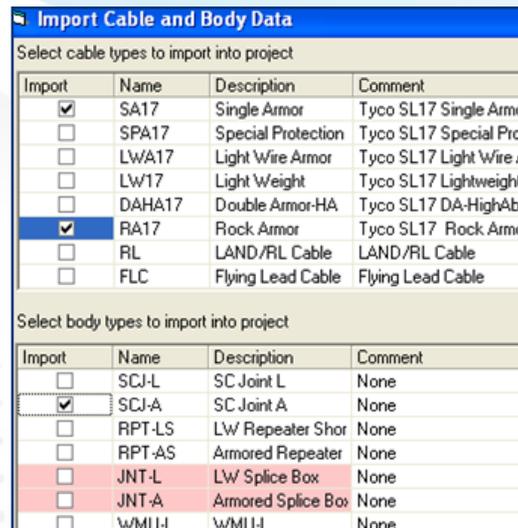


IMPORT CABLE & BODY PROPERTIES

Cable and body property definitions can now be imported. From either the Cable List or Cable body List, press the Import button. Browse for the cable and body database which has the cable and body definitions which you would like to import.

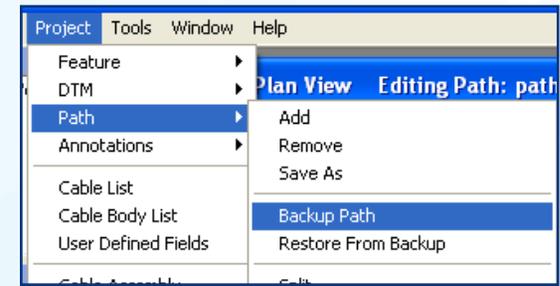
The Import Cable and Body Data window will open. Any cables or bodies in the selected database which already have definitions in the project database will be disabled (pink background). Check the cables and bodies which you wish to use in your project. Copies of the properties will be added to your cable and body database.

If you wish to replace the properties of an existing type of cable or body, you must first delete it from your database and then import it.



MOD TO AUTO PATH BACKUP

In past releases, when opening a project or adding a path, a backup file was created for use in the Project - Path - Restore from Backup feature. This caused a slowdown when opening a project with many paths. This functionality has been modified such that the automatic backup is now made when the path is first edited, not when first loaded. If a path is loaded and never edited, no backup will be created.



UPPER CASE NOW SUPPORTED

The User Interface (Explorer Window, etc.) now supports upper case characters.

For more information and pricing contact:

Makai Ocean Engineering:
 PO Box 1206, Kailua, Hawaii 96734-1206 USA
 Phone: 1 808 259-8871 Fax: 1 808 259-8238
 makaiplan@makai.com www.makai.com

