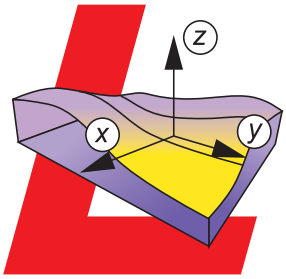
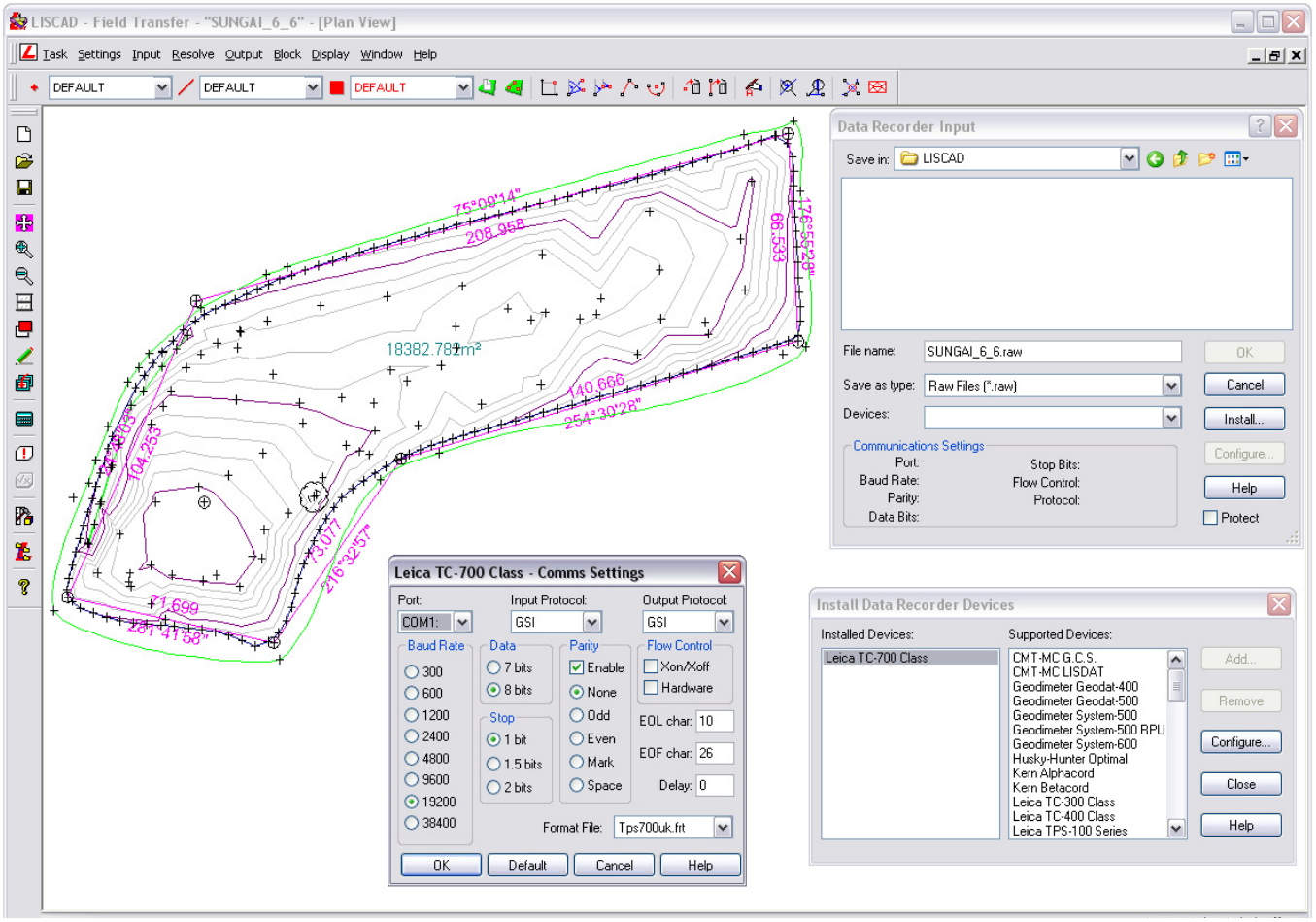


LISCAD Input/Output

Lost in the Translation?

... when trying to make systems talk to one another. LISCAD incorporates many translators ensuring that data collected in the field is conveyed to and from other systems.

"Input/Output" for transferring data to and from other systems and surveying equipment.



The benefits....

Powerful Two-way Data Transfer...

for nearly 60 different Data Recorders, including all well known brands.

LISCAD Data Conversions Supports...

AutoCAD DWG & DXF, including AutoCAD 2004/2005, MicroStation DGN, Arc/Info, MX Moss, SKI GPS and many more import/export formats.

Powerful User Definable translator...

for transferring ASCII data to and from LISCAD.

Traverse Adjustments...

by Bowditch, Transit or Crandall's methods.

Write Your Own Conversion Programs...

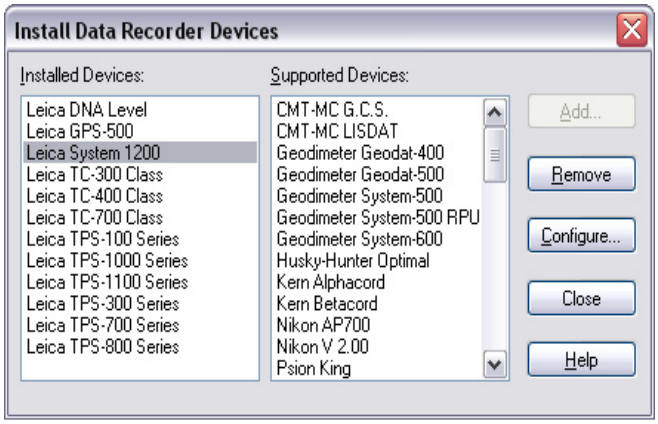
and execute them seamlessly inside LISCAD.

LISCAD is also XML empowered...

allowing the import of any XML, LandXML format and export of XML, LandXML, HTML and ASCII text formats. XML support allows for customised reports and data exchange formats to be added by yourself or third parties at any time. LISCAD's powerful XML implementation truly opens the data exchange horizons.

Data Recorder Input / Output

With a wide range of supported Data Recorders, users of LISCAD have an extensive choice of field equipment, plus you can write your own specific data collector input / output reformat program that can run seamlessly within LISCAD.

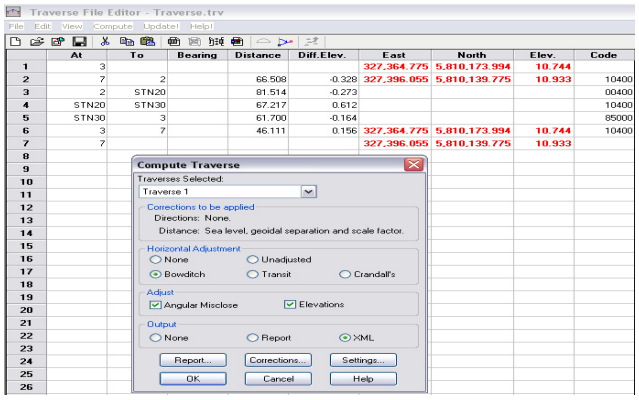


LISCAD's XML functionality means you can readily exchange data with the new generations of field sensors utilising XML exchange fomats.

While comprehensive coding facilities are available for all recorders, an enhanced range of Leica Operation Codes allows greater flexibility and speed in the field. A sets summary will compute a mean pointing from angle rounds, while an orientation can be computed from multiple reference stations.

To further automate the reduction process, support is available for the electronic digital level.

Design information can be automatically loaded into the data recorder for set out in the field, or a print out of radiations from nominated stations can be produced for manual set out.



Traverse Adjustment

Traverse information can be automatically extracted from the data recorder and easily processed using one of the standard adjustment techniques, Bowditch, Transit or Crandall's.

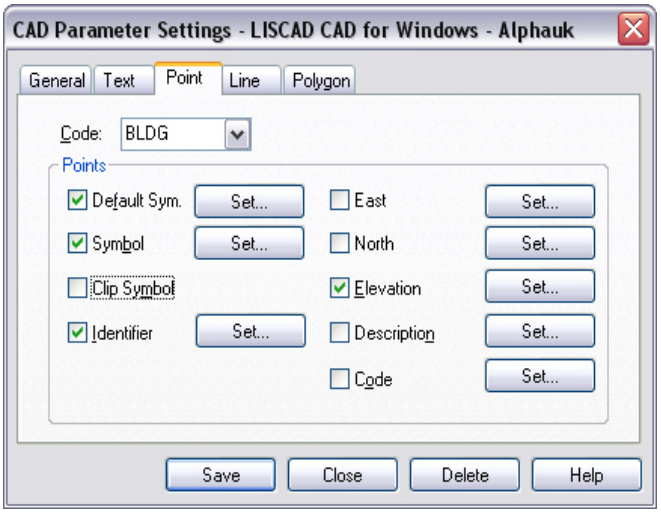
The traverse adjustment supports a traverse network and after adjustment, the resulting coordinates and elevations can be uploaded into the project data base and used to control the reduction of additional survey data. You can directly output your adjustment to XML, enabling you to tailor you own reports and export the traverse to other systems.

Manual Data Entry

For those who do not use total stations for all survey requirements, LISCAD provides an easy to use entry format for all standard manual entry methods.

CAD Output

Once the processing is complete, it is important that a CAD file, containing all of the attributes specific to the project, can be easily generated. Comprehensive CAD output libraries cater for all work requirements, including tables, legends, grids, model and alignments, whether it is for AutoCAD, MicroStation or LISCAD CAD for Windows.



Data Conversions

LISCAD contains extensive reformatting capabilities, providing Import / Export options for SKI GPS, plus a wide range of systems, including AutoCAD, Microstation, MX and a host of other surveying / engineering applications. Also, import into your LISCAD project sectional data based on chainage, offset and elevation. For those specific packages that are not directly supported, LISCAD provides a powerful User Definable ASCII option, which can handle almost any format. LISCAD's powerful XML functionality provides support for LandXML, the land industry's standard exchange format. This means you can easily exchange data with any other system that supports a LandXML format. LISCAD truly opens the horizon to exchange data at even the detailed design level.