Lightweight Extensible Information Framework

SPAWAR Systems Center San Diego

DTAI incorporated

LEIF 3.0 In Action

Lightweight Extensible Information Framework

(Previously known as ECOP version 3)

DTAI incorporated

Multiple LEIF Views

Operators access LEIF through multiple "Views"

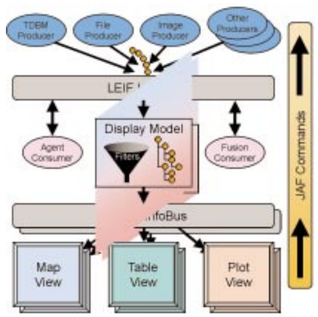
Views can include Maps, Tables, Plots, Explorers, ...

The default LEIF window employs a Multiple Document Interface (MDI)

All Views in the same MDI Window share common display properties

DTAI incorporated

Developer Architecture Overview



LEIF is a Framework

- Independently developed Extensions are "plugged in"
- Producers interface to any data source
- Consumers process produced data

Views display processed data in multiple configurations

Display Model - a Consumer; organizes and filters data for Views

Leveraged JavaBeans technologies: InfoBus and JAF

DTAI incorporated

Producers Produce Any and All Data

Producers can use any service or protocol (CORBA, RMI, JDBC, Sockets, ...)

Producers can produce any data type (Track, File, VectorMap, ...)

Data can have any structure (hierarchy, graph, circular, ...)

All data enters LEIF in its most natural format!

LEIF DataItemTranslators do the rest so that any LEIF Consumer or View can intelligently manipulate the data.

DTAI incorporated

Quality, Accurate Geographic Maps

Quality, accurate, multiple ellipsoid-corrected maps and overlays

Continued integration with JMTK and other legacy maps

Expanded support for mapping formats

DTAI incorporated

High Resolution World-Wide Vector Maps

Support for World Vector Shoreline (WVS) high resolution coastlines

Multiple geographic coordinate systems including LAT/LON/ALT, UTM, MGR, GEOREF

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