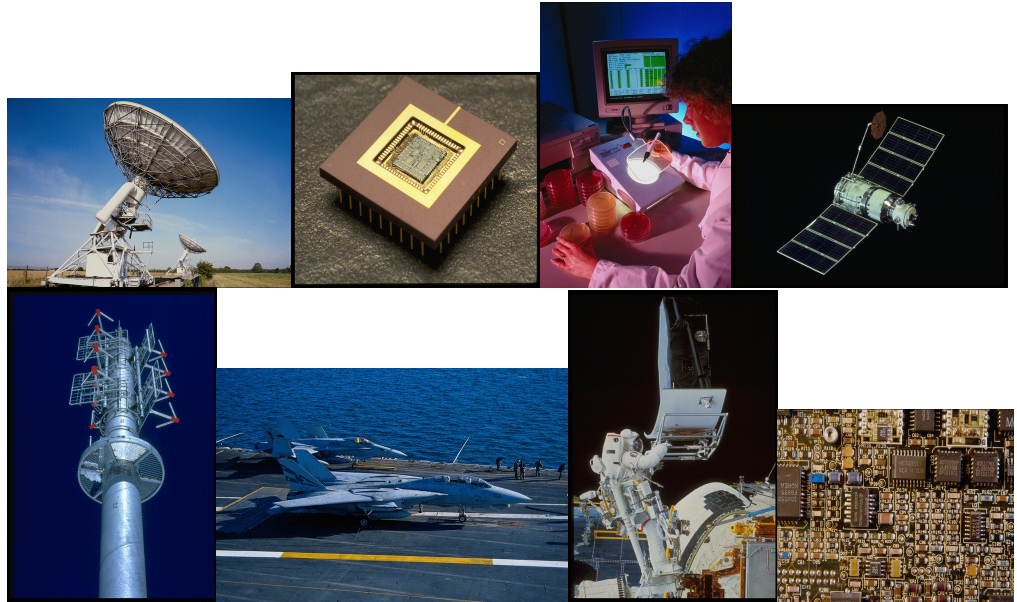


*Features*

Event Logging

Interprocessor  
MessagingExtensible Command  
Line InterfaceOperating System  
Abstraction LayerHardware Abstraction  
LayerChassis Abstraction  
Layer*Benefits*Enhance End User  
Experience and Regard for  
Your ProductImprove Customer  
Support and Minimize  
System Downtime

Reduce Time to Market

Reduce Software  
Development and  
Maintenance ExpenseIncrease End Product  
ReliabilityFully Featured and  
Continuously Supported  
Software Components

Lextel's ISys Embedded Middleware is an integrated set of software components that perform commonly required system infrastructure functions.

ISys enhances the end user experience of your product, ultimately leading to favorable customer opinion and increased sales. At the same time, incorporating Lextel's off the shelf solutions will reduce your engineering and on-going maintenance expenses.

Components in Version 2.0 of ISys include Event Logging, Interprocessor Messaging, Extensible Command Line Interface, Operating System Abstraction Layer, Hardware Abstraction Layer, and Chassis Abstraction Layer.

ISys provides compatibility with various embedded real time operating systems, processor cards, and system chassis' through 'Abstraction Layers' that provide standardized interfaces for use by other ISys components and user applications.

ISys has a C/C++ object oriented API for ease of use and reliability.

ISys is provided as a set of object module libraries, header files, and sample source code files. Object modules are included in a user application image on an as needed basis. Example application programs are provided for the user to build upon.

ISys is the result of experience gained during many man-years of software development performed for firms in the telecommunications, networking, military, aerospace, and national laboratory markets. ISys incorporates the features and specific functions found to be useful in a large number of embedded systems projects. Lextel engineers are available for support and custom development.



# ISys Revision 2.0 Components

## Command Line Interface

The ISys Command Line Interface is a feature rich, extensible CLI. User Commands are implemented using a simple Object Oriented API. Examples are provided from which the developer can 'cut and paste'.

Features of the ISys CLI include:

- User extensible command specification
- Tab command completion
- Context sensitive help
- Position independent parameter specification
- Username / Password protection
- Command history recall
- Command line editing
- User extensible parameter types
- Parameter type checking
- User specified sub 'modes'
- Verification prompting
- CLI Sessions

## Interprocessor Messaging

The ISys Interprocessor Messaging component enables user application tasks to communicate with one another when running on separate processors. An object oriented API provides mechanisms for serializing and deserializing message object data, and provides for encapsulating the actions to be taken on message receipt within the message itself.

Features of the ISys Interprocessor Messaging Component include:

- Object oriented API
- Send messages to named tasks on remote processors
- Uses udp or tcp via socket interface
- Details of underlying communication system hidden from application programmer
- No copying when sending to same processor
- Message object data and actions on receipt encapsulated within the message object

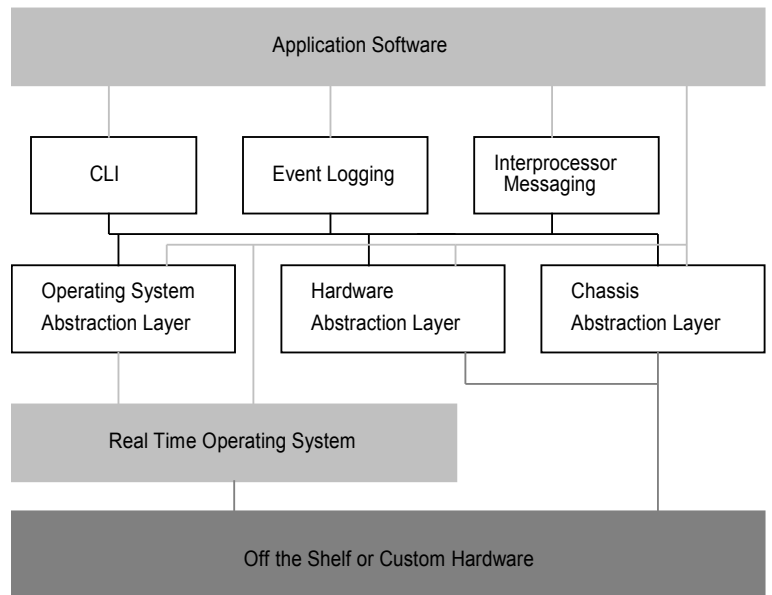
## Event Logging

The ISys Event Logging system provides a consistent mechanism for user application programs to generate event log information as a system is running. Log messages consist of text strings and parameter values specified at the time of generation. Log messages incorporate information regarding the severity, source of the message, and time of generation.

Filtering of messages based on various criteria is supported. Event Log messages are automatically distributed from the generating application tasks to Log Server tasks running on one or more processors. Each Log server task performs a specific function such as outputting the event log message on a console, storing it in a disc file, or generating audible or visible alarms.

Features include:

- Object oriented API
- Simple specification of event log messages and their format
- Prioritization and filtering of messages
- User application tasks can generate event log messages to one or more centralized Log Servers
- Log Servers are extensible for customized event log handling
- Log Servers may be running on one or more processors; potentially separated by large distances from the event-generating task.



■ Hardware    ■ RTOS    □ ISys    ■ Application Software

## Ordering Information

**Please use the ordering code shown below. Contact a sales rep for additional options not shown below or your specific requirements.**

**Ordering Code:** `ISys-os-trg-hst-ver-fc-hdw-itm`

<b>os</b>	target rtos:	TS VX	TimeSys Linux vxWorks
<b>trg</b>	target processor:	PPC X86 ARM	power pc x86 arm
<b>hst</b>	host dev. system:	W2K RHL	Windows 2000 Red Hat Linux
<b>ver</b>	ISys version:	x.y.z L	specific version: major (x) / minor (y) / patch (z) Latest released version
<b>fc</b>	feature code:	DEM R0F R03 R07 R08	demonstration distribution Cli, Messaging, Event Logging Cli Cli, Messaging Event Logging
<b>hdw</b>	hardware code:	00 01 Embedded	abstraction layers for running on development system, including source code. Suitable for adaptation to custom hardware. planet 860hep862. Also includes items in option 00
<b>itm</b>	item code:	DEV DIS SUP	development seat license and software package distribution license annual support via email, web, and voice

LEXTEL, Inc. , PO Box 475, North Andover, MA 01845

Voice: (781) 245-5017 Fax: (781) 245-6369 Web: [www.lextel.com](http://www.lextel.com) Email: [sales@lextel.com](mailto:sales@lextel.com)

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