



Pre-ported OS Interfaces

Source Code

Pre-ported OS Interfaces

TeleSoft International partners with many vendors to increase the level of integration available to licensees of TeleSoft's source code stacks. Increasing the level of integration allows customers to proceed to market on a shorter development schedule with decreased technical risk and development costs.

TeleSoft partners include the vendors of Nucleus, MQX, OSE, pSOS, QNX, and VxWorks operating systems, and chipmakers AMD, Cologne Chip, Freescale, Lantiq (Infineon), PMC-Sierra and Zarlink.

Pre-ported interfaces to non-preemptive and preemptive industry-standard operating systems accelerate portation to each customer's target platform. Portability is supported by generic OS function calls whose contents are modified according to the requirements of the specific OS.

VoIP pre-ported interfaces work with [TsSmartPhone](#) and [CompactSIP](#) source code stacks to further accelerate portation and decrease development costs.

TsLink3 pre-ported interfaces work with TsLink3 stacks to further accelerate portation and decrease development costs. TsLink3 pre-ported interfaces are optimized for [TsLink3](#) stacks including: Basic Rate ISDN, Primary Rate ISDN, Q.931, Q.921, QSIG, ML-PPP, PPP, Multi-Link Frame Relay, T1 CAS RBS, E1 CAS R2 and X.25.

All CompactSIP and TsLink3 stacks are carefully architected and implemented for embedded and host-based applications in order to provide optimum performance with small code size.

Pre-ported OS Interfaces for VoIP Modules

[TsSmartPhone](#) and [CompactSIP](#) pre-ported interfaces are available for the following operating systems:

- ◆ Android
- ◆ iPhone
- ◆ Linux
- ◆ MQX
- ◆ Nucleus
- ◆ Symbian
- ◆ ThreadX
- ◆ uClinux
- ◆ uC/OS-II
- ◆ VxWorks
- ◆ Windows
- ◆ Windows Mobile

CompactSIP is tight and fast

- ◆ Support for methods, headers, and message processing is configurable to optimize memory usage
- ◆ Typical configuration fits in 128KB
- ◆ Just-in-time parser avoids parsing headers not used by SIP stack or application
- ◆ Optimized handling of timers avoids high start/stop overhead
- ◆ Crafted parser eliminates typical parser-generator bloat

CompactSIP is easily ported to any environment

- ◆ Portable to any memory model, including flat, heap, pool-based, and mbuf or zbuf
- ◆ Object-oriented API supports direct function-call interface, inter-task and inter-cpu messaging
- ◆ Highly scalable – no built-in limits

Pre-ported OS Interfaces for [TsLink3](#) Modules

Pre-ported interfaces accelerate portation to each customer's hardware platform -- for both non-preemptive and preemptive industry-standard operating systems. Portability is supported by generic OS function calls whose contents are modified according to the requirements of the specific OS. TsLink3 pre-ported interfaces are available for the following operating systems:

- ◆ ATMOS
- ◆ Linux
- ◆ MQX
- ◆ Nucleus Plus
- ◆ OSE
- ◆ POSIX
- ◆ pSOS
- ◆ TsRITE *
- ◆ VRTX
- ◆ VxWorks

Pre-ported OS interfaces can be used as templates to rapidly develop new OS interfaces for other operating systems. TsLink3 customers have leveraged the pre-ported OS interfaces and OS-independent architecture to port to other operating systems including:

- ◆ Macintosh OS X
- ◆ Solaris
- ◆ Windows
- ◆ Proprietary operating systems

* TsRITE is a low-overhead RTOS customized for protocol and B-channel data requirements. TsRITE is a small-footprint, royalty-free, TsLink3 source code product.

TeleSoft Advantages

TsLink3 software stacks are specifically architected for all types of embedded and host-based applications and are optimized for excellent performance and small code size.

Written in ANSI C and delivered as source code SDKs with a pre-ported interface to a defined RTOS of your choice, TsLink3 stacks give you an advanced starting point to shorten your development schedule, minimize technical risk and maintain the flexibility to exercise full control over your end product.

All TsLink3 protocol software stacks are based on a Standard Core Architecture (SCA) with a Universal API (UAPI) that enables easy migration between different stacks and portability to different software/hardware platforms.

Well-Structured, Maintainable Code

Maintainability and scalability are designed into each TsLink3 stack. Comprehensive comments and documentation support you as your product goes forward. The value of TsLink3 stacks will be evident in each phase of your engineering schedule and the product life span.

About TeleSoft International

TeleSoft International, Inc., is an industry-leading, US-based provider of field-proven, scalable, standards-based protocol stacks for developers. We specialize in telecom applications, licensing source code stacks to OEMs and ODMs worldwide for VoIP, ISDN, Q.931, Q.921, QSIG, Supplementary Services, ML-PPP, PPP, Frame Relay, T1 RBS, E1 CAS R2, and X.25.

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