



EMSD-P&FS-Device:Source

Efficient Mail Submission and Delivery Protocol and Format Standard

EMSD-P&FS-Device Source from Neda Communications is portable source code for the EMSD client implementation. EMSD-P&FS-Device Source is designed for wireless application developers and device and chip manufacturers for wireless devices. It includes features like Complete and Efficient modes, segmentation and reassembly, and duplicate operation detection.

tion of EMSD has gone through extensive conformance, interoperability and stress testing.

- **EMSD-P&FS-Device Source provides all the necessary building blocks**

EMSD works with any RFC-822 compliant e-mail application that supports shared directories, and a sample e-mail client (EMSD-Pine) is included. It supports the Submission and Delivery Protocol and Format Standard as defined by the EMSD Protocol Specification, and ESROS as defined by the ESRO Protocol Specification. It also supports UDP, IP, Socket, and TLI/WinSock, which are all industry standard, off-the-shelf products.

EMSD-P&FS-Device Source Features

- **Neda Source Code Standards**

Designed from the outset to be as portable as possible, Neda's EMSD-P&FS-Device Source was written entirely in portable C. It was tested and verified using industry standard tools. It has been compiled on a large set of compilers and executed on Unix, DOS and Windows platforms throughout its development.

- **EMSD-P&FS code has been designed for embeded devices**

EMSD devices require a very small code base and close attention to required air-time and battery utilization. Neda's implementation provides the performance, scalability, and efficiency demanded by small, handheld devices.

- **Conformance to Industry Standards**

EMSD-P&FS-Device fully implements the Submission and Delivery and EMSD Format Standards. Neda's implementa-

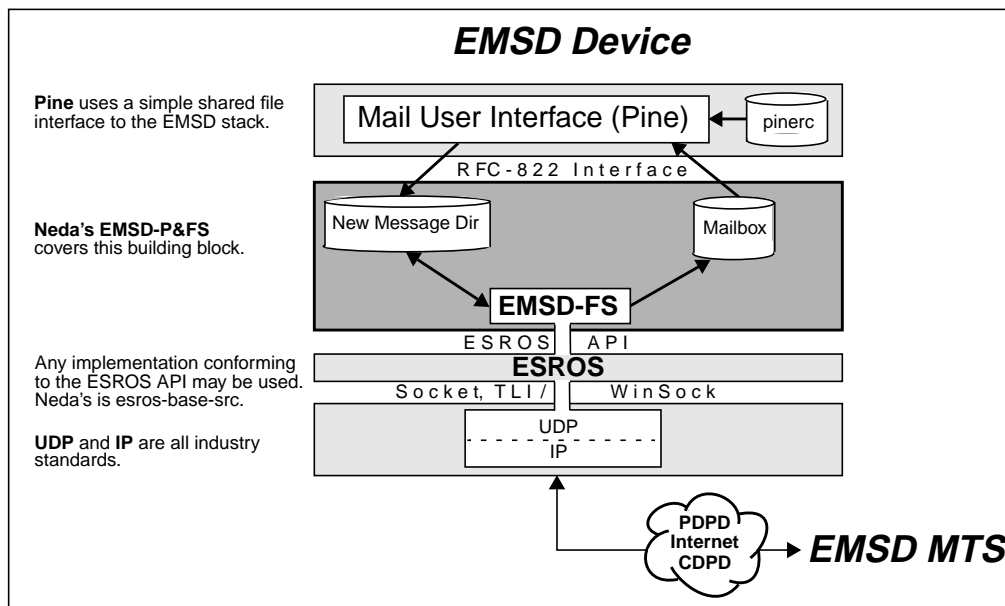
EMSD-P&FS Benefits

- **Powerful**

EMSD-P&FS-Device Source is highly optimized for short messages, using efficient encoding methods. It is also an extension of the existing messaging world, providing content confidentiality, originator and recipient authentication, and message integrity. It does not require a gateway to access Internet e-mail, and it supports resumption of interrupted message transfers.

- **Flexible**

EMSD-P&FS-Device Source accommodates varying sizes of



messages. It is implemented using a highly-extensible architecture, supports both a function call API and call back API, and both blocking and non-blocking function call APIs.

- **Reliable**

EMSD-P&FS-Device Source makes use of existing technologies wherever appropriate, including RFC-822, Abstract Syntax Notation (ASN.1), and Basic Encoding Rules (BER). Extensive use of proven technologies ensure reliable performance under a wide variety of network conditions.

- **Efficient**

EMSD-P&FS-Device Source implements the EMSD protocols to ensure minimal transmission costs. Both the EMSD specifications and the implementation of the Neda Communications ESROS module focus on the use of small, handheld devices. It uses a bandwidth efficient architecture in terms of CPU processing capability, memory capacity, and battery power consumption. EMSD-P&FS-Device Source also uses the Open C Platform for ease of development. Once your development has been set up with the Open C Platform, all Neda Communications MobileMsgWare modules will enjoy easy integration.

- **Compatible**

EMSD-P&FS-Device Source implements the complete set of functions to meet the EMSD Specification, and operates on a variety of platforms, including DOS, MS Windows, and many Unix Operating Systems. It also interoperates with all modules on the Open C Platform.

- **Proven Performance**

The Neda Communications EMSD-FS and ESROS modules have been field tested by device manufacturers and service providers. Neda Communications is the technology leader in the development of the EMSD specifications.

EMSD-P&FS Components

- **Efficient Remote Operation Protocol Engine**

EMSD-P&FS uses and relies on ESRO layer. Neda implementation of ESRO is ESROS Base Source. ESROS Base Source includes a full implementation of the Efficient Remote Operation Protocol (EROP) engine. It provides full access to EROP functionality, including EROP Action Primitives, Event Primitives, SAP Management, the Network Management Interface, and Transport SAP Management.

- **EMSD User Daemon**

The EMSD User Daemon implements the EMSD-User Agent (EMSD-UA) part of the EMSD specification. The EMSD User

Daemon uses timer events to scan for new messages and timer events to process queued messages.

- **Interfaces**

The EMSD-UA communicates with EMSD-FS is through shared directories. ESROS implements a full set of APIs, and the IP stack can be accessed through either the WinSock or Unix Sockets interface.

Neda Communications, Inc.

- **Open C Platform**

The entire sources are built on this extremely flexible framework, which isolates all the communication layers from the underlying system. Once the Open C Platform is customized for a new computer platform, all other Neda protocol layer components are ready for execution on the same platform.

- **Portation Support Service**

Neda's experienced personnel can assist you with problem diagnostic and problem resolution by providing skilled service for this new technology.

- **Software Maintenance Service**

Once up and running, the Neda Communications Software Maintenance service provides the assurance that your development team will stay current with the latest evolution of the EMSD specifications. The Neda staff has been instrumental in the establishment of the EMSD specifications and of the EMSD industry. With the Neda Communications Software Maintenance Service, you have the most knowledgeable EMSD technical expertise on your side!

- **Related Products from Neda**

Other products available from Neda Communications include the following:

- *Reference Message Center*
- *Enhanced Two-Way Paging (ETWP) Products*

Device source code is also available:

- *ESROS Test Tools Source*
- *ESROS Base Source*

- **Ordering Information**

Please refer to the following part number when ordering this product: EMSDFS-DEVICE-BASE-SRC-CUR



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From field tested protocol components, to industry recognized expertise, the Neda Communications EMSD Device Development Toolkit is your complete solution to EMSD product success!

NEDA COMMUNICATIONS, INC.