

Introduction to e-speak Documentation

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Contents

Documentation Overview	1
E-speak Programmers Guide	1
E-speak System Administration Guide	2
E-speak Tutorial	3
E-speak Contributed Software	4
E-speak Architectural Specification	4
E-speak Core Architecture Design	4

Welcome to e-speak!

Welcome to e-speak Release A.0!

You have acquired a premier software product used by developers to enable dynamic, Internet-based business relationships through discovery and interaction of e-services.

To learn more about e-speak and its components, please look at the white papers and other technical documents published on

<http://www.e-speak.hp.com>

or

<http://www.e-speak.net>.

Documentation Overview

The following documents are supplied for the e-speak Release A.0:

E-speak Programmers Guide

This document has the information needed to write e-business applications using e-speak. It contains e-speak programming terms, programming interfaces, programming models, and instructions defining when to use them. It shows all the e-speak Application Programming Interfaces (API's) and XML schema and code samples needed to create e-speak applications.

Sections of the Programmers Guide are:

- Introduction:
 - e-speak Service Ecosystem
 - e-Speak Programming Interfaces
- Gateway Usage Programming
- Programming With Java
- Java e-speak Interface (J-ESI)
- Service Development Kit (SDK), contains the section Reliable Messaging in this release
- Management Utilities
- Appendices
 - Thread-Safe Programming
 - XML Schema, Messaging Classes
 - IDL Compiler
 - Interceptors
 - Firewall Traversal
 - Account Manager
 - Management
 - Exceptions

E-speak System Administration Guide

The System Administration Guide covers the following:

- Installation/de-installation of e-speak on three platforms: Windows NT, HP-UX, and Linux
- Configuration of e-speak: configuration files; tracing; security; configuring Web Proxy & Socksv4 Proxy; configuring Advertising Service; Core to Gateway connection; etc.
- Configuring security: basic security model; configuration files; examples

- Management of e-speak components with the e-speak Desktop
- Running standard services: Advertising Service; Process Manager
- Expanding functionality: Web Access; Security; Firewall Gateway
- PSE (Private Secure Environment) Manager
- Troubleshooting

E-speak Tutorial

The e-speak Tutorial allows Java developers to learn and practice some of the basic and extended functions of e-speak in a controlled environment using specific examples. The accompanying manual introduces these functions in a modular format and includes function descriptions, code samples, and walkthroughs to facilitate the learning process.

The Tutorial consists of 11 modules that allow new users to gradually familiarize themselves with basic e-speak administration and programming.

- 1** Getting Started
- 2** Basic Service
- 3** Basic Client
- 4** Managed Services
- 5** Events
- 6** Folders
- 7** Threads
- 8** Security
- 9** Vocabularies
- 10** Contracts
- 11** Multiple Cores

E-speak Contributed Software

VFS is a virtual file system that is built upon the e-speak infrastructure. VFS provides the ability to create and manage file objects that are maintained somewhere in the e-speak environment.

E-speak Architectural Specification

This document specifies the e-speak architecture. It defines the abstractions presented by the system and the components that implement those abstractions, and it shows how the components interact to create useful services.

The Architectural Specification manual covers the following content:

- Introduction
- Architecture Overview
- Resource Data, Searches & Vocabularies
- Core-Managed Resources
- Access Control
- Communication
- Exceptions
- Core Generated Events & Event Distributor Vocabularies
- Management
- Repository

E-speak Core Architecture Design

The e-speak core is the central module that provides the infrastructure support for the e-speak technology. It implements the e-speak logical machine described in the *E-speak Architectural Specification*.

The *e-speak Core Architecture Design* manual describes the mechanisms, resources, services and operations of the e-speak core and is covered by the following sections:

- Overview (design philosophy of the e-speak core and the switching functions that are contained there)

- Core Message Polling (core requirements and messaging mechanisms)
- Core Management Services (the account manager and other services that allow usage of the e-speak core)
- In Memory Persistent Repository (repository architecture which is the data store for the e-speak core)
- Core Startup (the process invoked on initialization of the e-speak core)
- Core to Core Communications (the Connection Manager and the Remote Resource Manager which allow core to core communications)
- Remote Resource Manager (the facilities available to export, import, unexport and manage exported data from the core)

