Hermes Messaging Gateway 2.0
Open Source Version (H2O)

Renowned, Open-source, Secure Business Information Exchange Solution

Each day, millions of documents and information, such as purchase orders and invoices are exchanged between business partners. When it comes to machine-to-machine document exchange, the existence of boundary between organizations is a hurdle that needs to be overcome.

**EDI over Internet**

Electronic Data Interchange (EDI) was developed as the defacto standard for organizations to exchange information electronically. However, it involves significant investment for deployment, which limits the usage to large organizations only. With the aim to broaden the user base and allow every one to enjoy the benefits of e-commerce in a lower cost and simpler manner, various public standards have emerged. Individual organizations may use different standards from that of their business partners. This generates a need to deploy several applications to support different standards being used by their business partners.

**Hermes Messaging Gateway** is developed as a platform for execution of common public standards, like ebMS and AS2, to deliver a secure and reliable information transfer. Its awards-winning technologies make deployment quick and easy. What’s more, this latest open source version of Hermes Messaging Gateway 2.0 (H2O) and its source code can be downloaded at [http://community.cecid.hku.hk/index.php/product/download/download_h2o/](http://community.cecid.hku.hk/index.php/product/download/download_h2o/). That means users can use it for free and customize it to cater for their specific needs.

**Product Highlights**

- Executes ebMS and AS2 message formats
- Supports electronic business document exchange using transport protocols HTTP, and SMTP with SOAP
- Provides security services through SSL, XML Signature, and S/MIME for encryption, digital signature, authentication and authorization
- Ensures message reliability by once-and-only-once and best effort delivery, together with error reporting and persistent storage functions
- Single interface for message delivery of different message formats
- Obtained eBusinessReady® certification for interoperability by Drummond Group Inc (DGI)
- Awards-winning technology
- Professional technical support services available

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1. Best Infrastructure Building and Communication Application of Linux Business Award 2005; Certificates of Merit at the 6th HKCS IT Excellence Award and Asia Pacific ICT Awards 2004
2. Technical support is provided by CECID’s VAR. Enquiries can be sent to enquiry@cecid.hku.hk. Users and developers can also get community support through the mailing list community@cecid.hku.hk.
Features of Hermes Messaging Gateway 2.0
Open Source Version (H2O)

Multiple Messaging Formats
H2O provides individual modules to handle different message protocols (e.g. AS/2, ebXML MS, etc.). Regardless of the difference of the message formats, they can all be operated simultaneously in the common H2O platform, managed by a unified environment.

Reliable and Secure Transmission
H2O executes public standards, like ebMS and AS2, that enable reliable and secure information transmissions with multiple levels of delivery reliability including once-and-only-once and best effort.

Non-Repudiation
H2O supports non-repudiation through the use of digital signature. Business partners are assured of the contractual standing of the messages.

Interoperability Certified
H2O is certified by Drummond Group Inc (DGI) for its AS2 interoperability. It has also demonstrated ebXML interoperability through tests conducted with products developed by vendors and members in the ebXML Asia Committee.

Standardized Programming Interface
One standardized programming interface simplifies the setup for message delivery of different messaging formats.

Extensible for New Requirements
H2O provides a Simple Plug-in Architecture (SPA) specification to reduce implementation efforts for business requirements change. Quickly, the message gateway can bridge to the backend applications of an enterprise and make them converse with the world.

Installation Wizard
An intuitive installer saves installation time and effort.

Web-based GUI Administrative Tool
H2O provides value-added administrative tools to facilitate the management on message delivery.

Technical Specifications
- ebXML Message Service Specification 2.0
- Electronic Data Interchange – Internet Integration, Applicability Statement (EDIINT-AS2)
- HTTP, HTTPS, SMTP
- PKI, XML-Security

Minimum System Requirements
- Java 2, version 1.5
- MS-Windows XP, Linux or Solaris
- 256 MB memory assigned to JVM
- Tomcat 5.5
- PostgreSQL 8.0
- 500 MB free storage space

In a Nutshell
H2O operates as a Java web application. The ebMS and AS2 messaging capabilities are operated by the corresponding plug-in, written according to the H2O SPA specification. The messaging operation requires a database with JDBC connectivity in keeping track of the messaging status. H2O has open endpoints, and the enterprise backend applications can invoke H2O’s Web Services for message delivery. The message delivery can be secured by using SSL or e-certificates, which conforms the public standards.

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