



Provato – Enabling mobile messaging in J2EE and .NET

Detailed Technical Specification Sheet

Provato Benefits

- Develop and deploy reliable mobile message applications (MMS, EMS, SMS, Push WAP) quickly from any development language using Provato.
- Manage connections reliably to third party message centres with no downtime to your applications.
- Add new applications and connections to Provato without restarting.
- Achieve application scalability through JMS – a distributable message bus at the core of Provato.

Provato in a nutshell...

- Provato is an Enterprise Mobile Messaging Solution
- Provato can be shared across the local network
- Provato integrates easily with existing systems - develop applications from within Excel, Access, Outlook and other Microsoft applications
- Custom applications and proof of concepts can be developed fast using Provato. This is important for demonstrating to the target users.
- Text messaging (SMS), picture messaging, ring-tones, enhanced messaging (EMS), the latest in multimedia messaging (MMS) and much more are supported by Provato
- Provato has Message persistence – regardless of the type of mobile message.
- Provato supports multiple integration interfaces and languages - .NET, VB. COM, Java, C, C#, C++, Perl
- Mobile networks can be accessed in a multitude of ways for low and high volume messaging applications using Provato.
- Provato can be configured at run time without the need to bring connections down and up, and reliably manages connections to message centres.
- Provato is service provider and protocol independent - you choose which mobile operator, message service provider or message centre you need.

Develop robust applications fast using Provato...

Provato is a robust enterprise development Framework used to develop and deploy reliable mobile messaging applications quickly. Incorporating NCL's range of mobile building blocks, Provato allows the rapid development and deployment of short text and multimedia message applications.

Integrate Provato quickly with existing systems...

Provato uses the latest in integration technology. This enables applications to interoperate easily and quickly with Provato. Common desktop applications such as Access, Excel and Outlook can integrate with Provato with minimum effort.

Provato does this by using a next-generation interface technology called SOAP or Simple Object Access Protocol. This technology is endorsed by a number of computer vendors including Microsoft, Sun, Java and .NET communities.



Provato shared on your local network...

Because Provato uses SOAP, several client applications distributed throughout your network can use Provato. Moreover applications can use Provato concurrently. Only one server installation needs to be performed on the network. This reduces IT configuration overheads and can be centrally managed.

Develop and demo proof of concept quickly...

Provato interfaces with mobile networks in a variety of ways (listed below), one being through the use of cellular devices and mobile phones connected using a serial port. A proof of concept can be developed and deployed very quickly. This is important for demonstrations and time to market.

Provato supports a suite of mobile message types...

- Multimedia Message Service (MMS – Enterprise Edition only)
- Short Message Service (SMS)
- Enhanced Message Service (EMS)
- Nokia Smart Messages (Logo, picture and ring-tone messages)
- Push Messages (WAP 1.2.1 Push)
- Long Text Messages (SMS with text longer than 160 characters)
- Delivery confirmation reports and receipts.

Provato has much more...

Provato is built on Java Message Service (JMS) technology. This is a distributable architecture. Large corporate applications can be configured to run across a number of Operating Systems and use different vendor JMS products (e.g. IBM, BEA, HP, Oracle).

Provato uses JMX management framework to manage queues and connections. This means that Provato components, queues and connections can be stopped, started and added at run time without the need to restart Provato.

Provato design is kept simple with a message router at it's core. This makes configuration of the Provato easy to understand and set-up. Provato runs on UNIX or Windows (NT/2000). On a windows environment Provato runs as an NT Service and can be monitored by standard network applications. Provato runs as a background process on UNIX.

Provato is Java based and can be migrated to any Operating System that supports Java.

Provato supports multiple interfaces and APIs...

- .NET, VB, COM
- Java
- C#, C, C++
- Perl



Provato supports multiple mobile network interfaces...

Provato supports a number of mobile network interfaces into both SMS and MMS networks. These include:-

- Connecting directly to a mobile network operators Short Message Service Centre (SMSCs). The SMSC protocols supported are (i) Logica's SMPP 3.4 (ii) Nokia's CIMD 2.0 (iii) CMG's UCP (iv) Sema's SMS 2000 (04/2003)
- Connecting directly to a mobile network operators Multimedia Message Service Centre (MMSCs). MMSC protocols supported are HTTP/MM7/MM8.
- Cellular devices - Siemens M20/TC35/MC35, Sony Ericsson M2M GM47/GM48, Nokia Card Phone, Nokia 6210/6310

Provato Design Overview

Internally each configured application has its own queue(s) for sending and/or receiving messages, as does each mobile network connection. Simple routing mechanisms are configured to route messages from one queue to another i.e. from application to connection and vice versa.

