

“Quotes on the go”

J2ME MIDP Streaming Quotes for Mobile Devices

Java Technology is starting to play a pivotal role in the ongoing wireless revolution gripping today's business world. The Java 2 Micro Edition (J2ME) of SUN Microsystems offers a unique development and deployment platform for mobile devices, such as Mobile Handsets or PDA's. Many of the new challenges posed by the mobile environment can be solved by the code portability and the secure execution environment offered by current Java Technology and the J2ME.

Ergon has developed a unique architecture for tracking and delivering rapidly changing data in real time. The Streaming Quotes application shows how the Java environment on mobile devices can be successfully used to implement end to end customer services for the wireless world.

The Streaming Quotes application offers customers real time financial quote information on their mobile phone. Every single change of price, volume, bid, ask or any other parameter is instantly forwarded to all subscribed customers. The delivered data may be viewed on the handset in different formats: overview, detail or chart. All views are instantly updated if new data becomes available through the streaming service. Implementing the application user interface would not have been possible with WAP/WML, as WML offers only very restricted local computation.

Connectivity: The application connects to the back end messaging servers over standard TCP/IP. Special care has been taken to optimize the available bandwidth between the client and the server. This has been achieved by only transmitting relative changes of the data. The application is fully based on the JMS Messaging API defined by SUN Microsystems. Wireless connectivity is based on a packet oriented wireless network such as GPRS or iDEN. Using a packet network allows the application to stay 'always on' without constantly binding radio channel resources.

MIDP: The application conforms to the J2ME and MIDP standard. This guarantees full portability between all Java enabled handsets supporting the MIDP standard. First MIDP compliant handsets will become available from Motorola and Siemens by mid 2001.

The Streaming Quotes application is a fully functional Java Technology preview developed by Ergon Informatik AG. We are currently extending the application towards news streaming and messaging services.

Company Information: Ergon Informatik AG, (<http://www.ergon.ch>), is a leading software development company with headquarters in Zurich, Switzerland, and a subsidiary in Sausalito, CA. Its staff is dedicated to the development of mission critical solutions for the financial and telecommunications markets. Ergon is mostly engaged in the development of applications using advanced Java technology. Ergon has developed a range of Internet projects for the finance industry, such as the Internet Banking Solution DIRECT NET and the Discount Broker Youtrade. Ergon has recently extended Youtrade with a J2ME based Mobile Client for the Palm Organizer.

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