SIGOS

BlackBerry your network's sweetest fruit?

BlackBerry is today's leading wireless connectivity solution for a large number of mobile professionals like enterprise and governmental organizations worldwide.

It allows users to stay connected with secure and wireless access to E-mail, corporate data, calendar and web, to easily manage all their communication and information from a single BlackBerry device whenever and wherever required.

BlackBerry eliminates the hassles of dial-up by moving mobile data to a "push" architecture.

Especially for mobile professionals a maximum of quality and reliability is most essential.
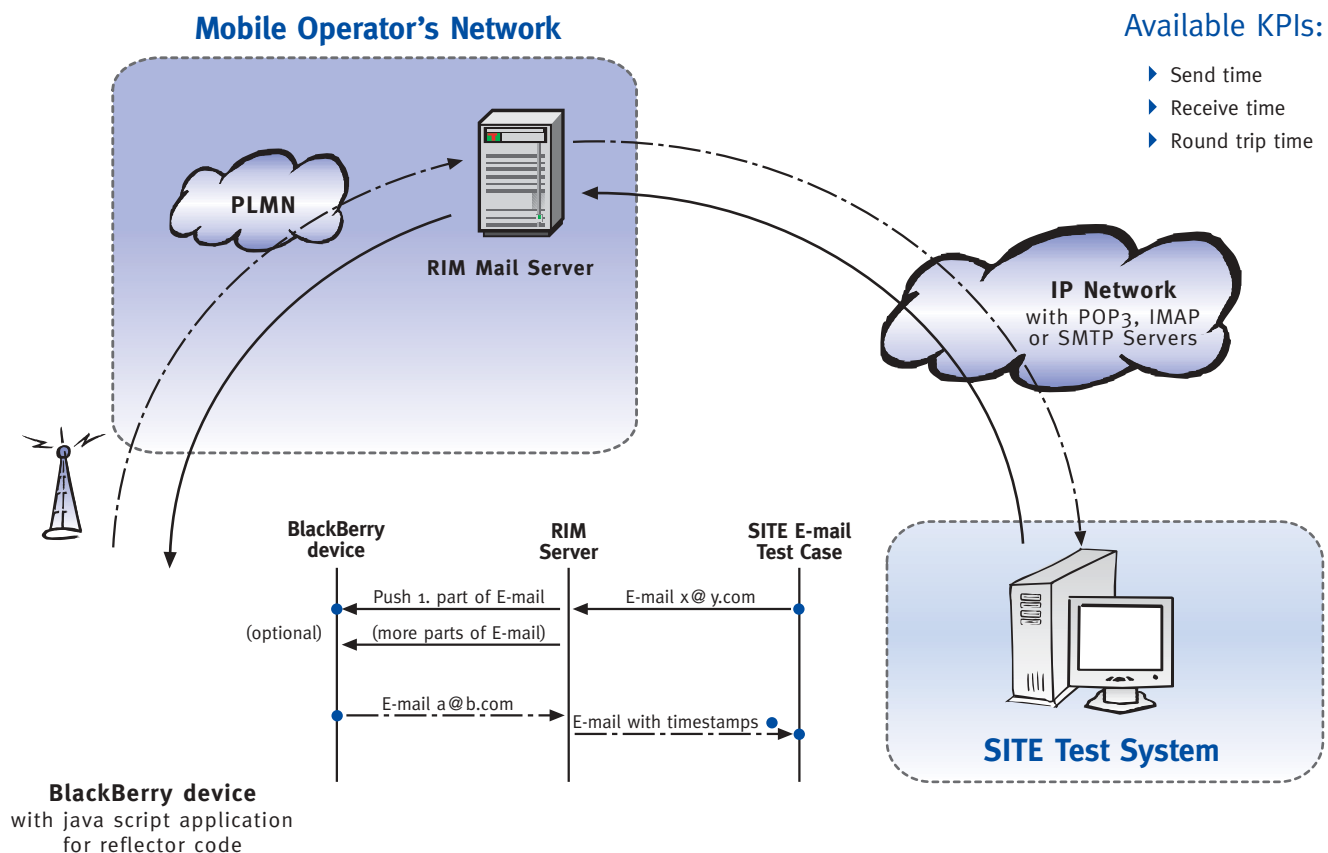
SIGOS offers you a fully automated BlackBerry Test System!

Features

- ▶ Simulation of real subscriber behaviour
- ▶ Over the air testing and ethernet testing
- ▶ Interfaces: GSM/GPRS U_m
- ▶ Real End2End testing of BlackBerry 'push' service
- ▶ Using commercial BlackBerry device
- ▶ Check sending and receiving E-mails wirelessly
- ▶ Check the BlackBerry device integrated email features
- ▶ Using BlackBerry devices with a java script application for reflector code – for sending emails
- ▶ Management notification and reporting

QoS testing solution for BlackBerry:

▶ Sending a message from SITE test system to a BlackBerry device via mobile operator's network

▶ Important: time synchronisation for time KPIs

▶ BlackBerry device receives E-mails of the SITE test system per "push" from the RIM Server and it immediately responds to the sender with a receive timestamp

▶ SITE extracts e.g. timestamp details from the E-mail and processes them to measurements which can give delivery delay or success rates in both directions

Mobile Operator's Network

PLMN

RIM Mail Server

IP Network
with POP3, IMAP or SMTP Servers

Available KPIs:

▶ Send time
▶ Receive time
▶ Round trip time

BlackBerry device / RIM Server / SITE E-mail Test Case

Push 1. part of E-mail — E-mail x@y.com

(optional) (more parts of E-mail)

E-mail a@b.com — E-mail with timestamps

SITE Test System

BlackBerry device
with java script application
for reflector code

Your benefits

▶ Automated testing: avoid time and money consuming manual tests

▶ Increase reliability of the GSM and UMTS networks → ARPU

▶ Increase customer satisfaction

▶ SQM: monitoring and measuring of service availability and quality → Ensuring SLAs with precise KPIs

▶ Scalable architecture: from stand alone to widely distributed systems

▶ Central SIM Multiplexing → No "SIM card traveling"

▶ Quick detection of problems due to parallel testing at any time

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