

# Exploring the enterprise class wireless operating systems: Blackberry operating systems

Sundaram vats

Department of computer science and engineering, Galgotias college of engineering and technology

**Abstract-** The Blackberry operating systems with its limited applications. In its application world are emerging to be the most efficient devices. The android operating systems which involves a variety of applications, Blackberry still continues to be the addiction of most of the peoples as indicated by some of the studies. However some of the studies also present the problems witnessed by its users. Research in motion known for the invention of its blackberry device is facing increasing pressure from the developing nations to grant access to the blackberry hidden data.

The three main features present in the Blackberry devices are Blackberry messenger (BBM), Blackberry Internet BBM is a free messaging services between the various handsets of blackberry, each having a unique PIN. BIS is an fast internet service which makes the use of servers located in Canada. Blackberry Enterprise Service is an enterprise email service. Governments experience an inability to access the Blackberry encrypted data.

**Index Terms:** Blackberry platform FIPS, modems, RIM, wireless technology.

## I. INTRODUCTION

This paper presents the features of blackberry operating systems. Blackberry devices developed by the Research in Motion Ltd. Research in Motion founded by two Canadian engineers mike lazaridis from the university of waterloo and Douglas fregin from the university of Windsor. There main focus was on wireless technology and wireless modems. Later on jim joins the company in 1992. In 1998 the first blackberry device Rim 850 is released with email and paging. In 2002 an enhanced version of Rim 850 is developed known as blackberry 5810 which supports both email and voice technology. Blackberry platform is FIPS 140-2 security certified, making the operating systems ideal for the government applications and boosting corporate adaptation. This paper also highlights the various advantages and demerits that peoples have after adopting this addictive devices by RIM. It also describes some differences as compared to other types of mobile communications.

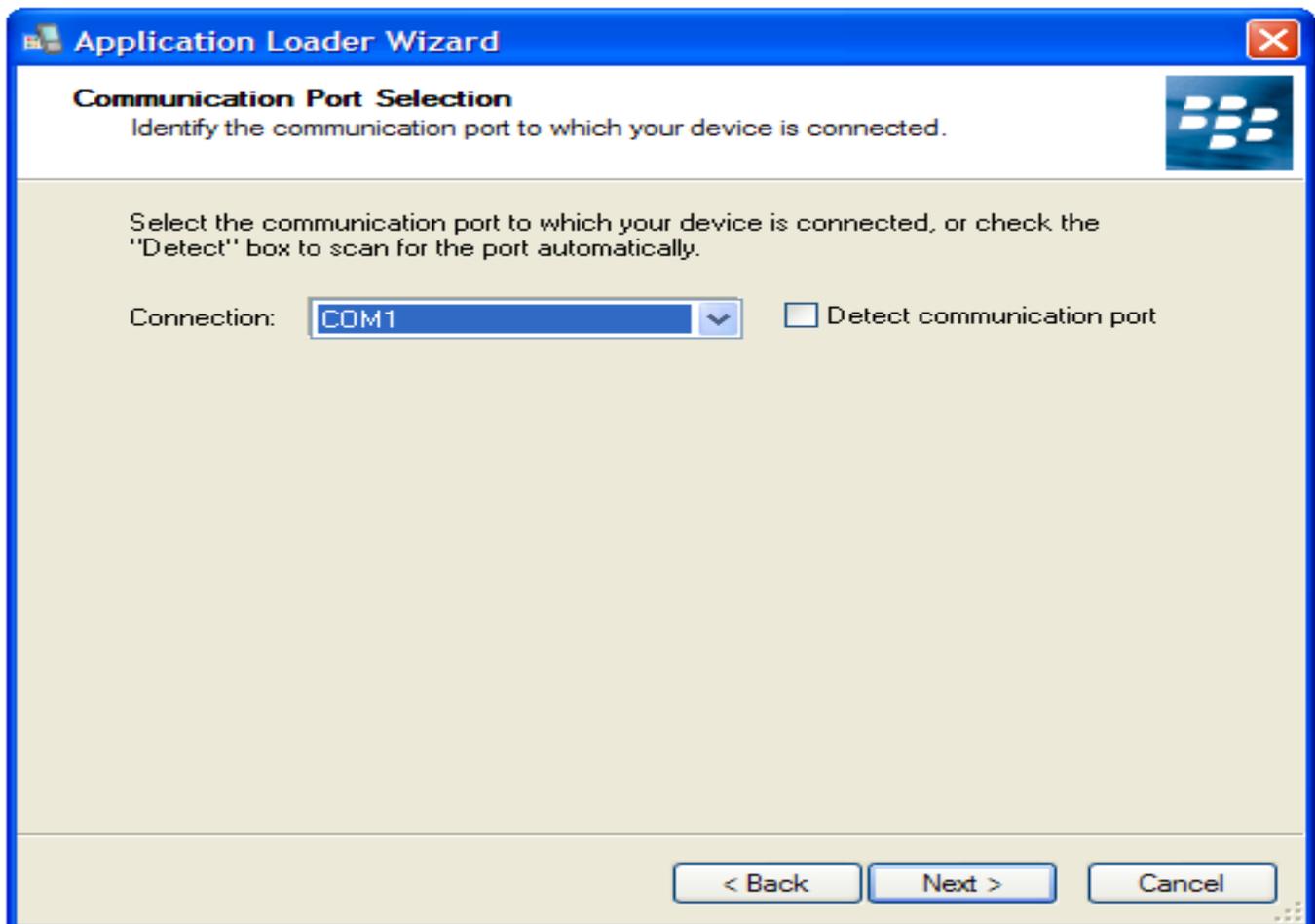
## II. RESEARCH FINDINGS

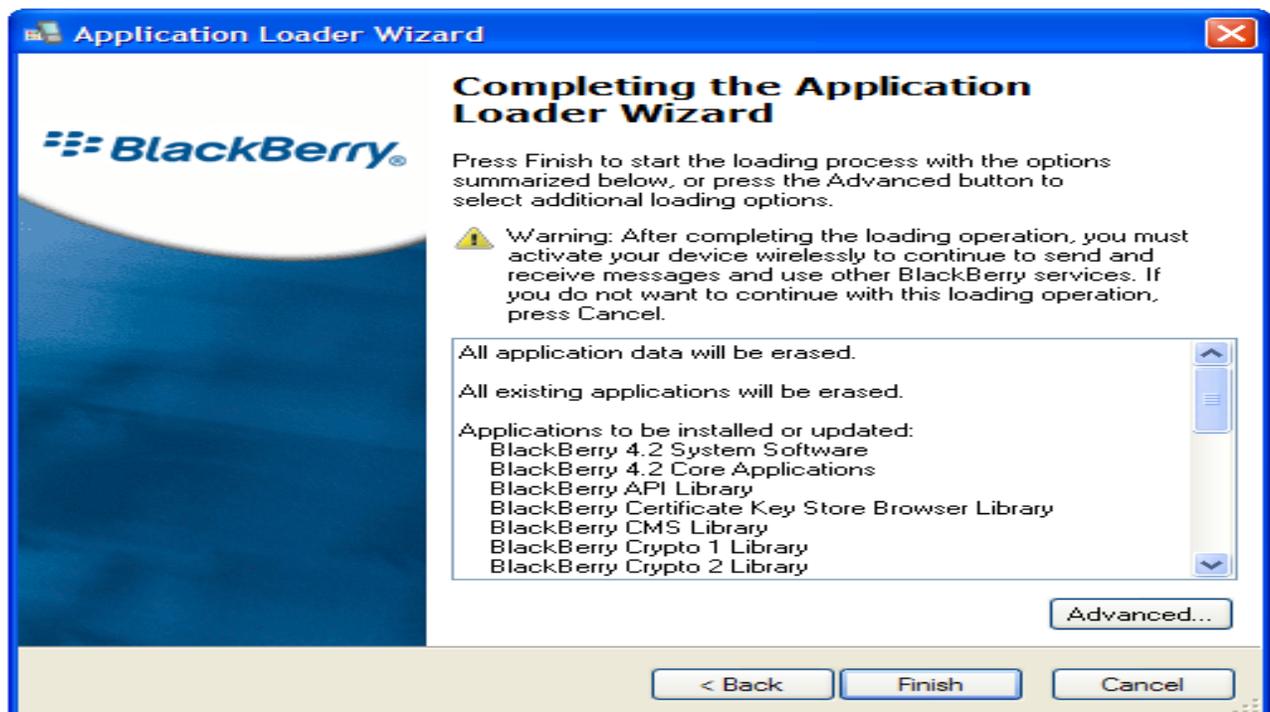
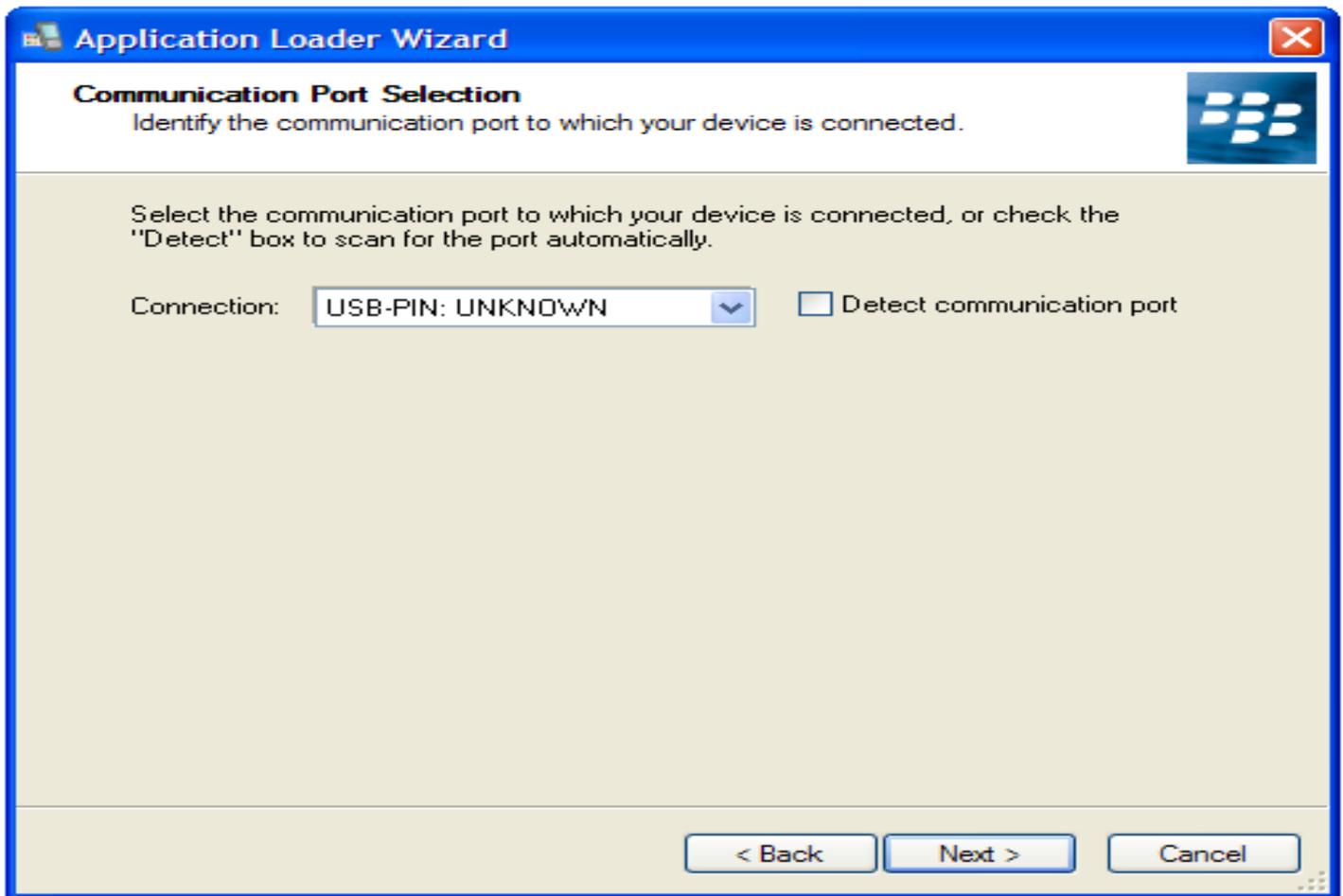
RIM built the various Blackberry devices to meet the increasing demand of the market, which resulted in a device with unprecedented levels of security. The main reason for the growth of the various Blackberry devices was that the information transferred on various channels of Blackberry (BES, BIS, BBM) has a tendency of not being accessed by anyone, which forced the various developing nations to impose a ban on the blackberry devices. The various Blackberry devices are identified by a PIN number which is used to communicate with the server room located in Canada. Therefore the various governments of developing nations were unable to access the data stored in the foreign soil.

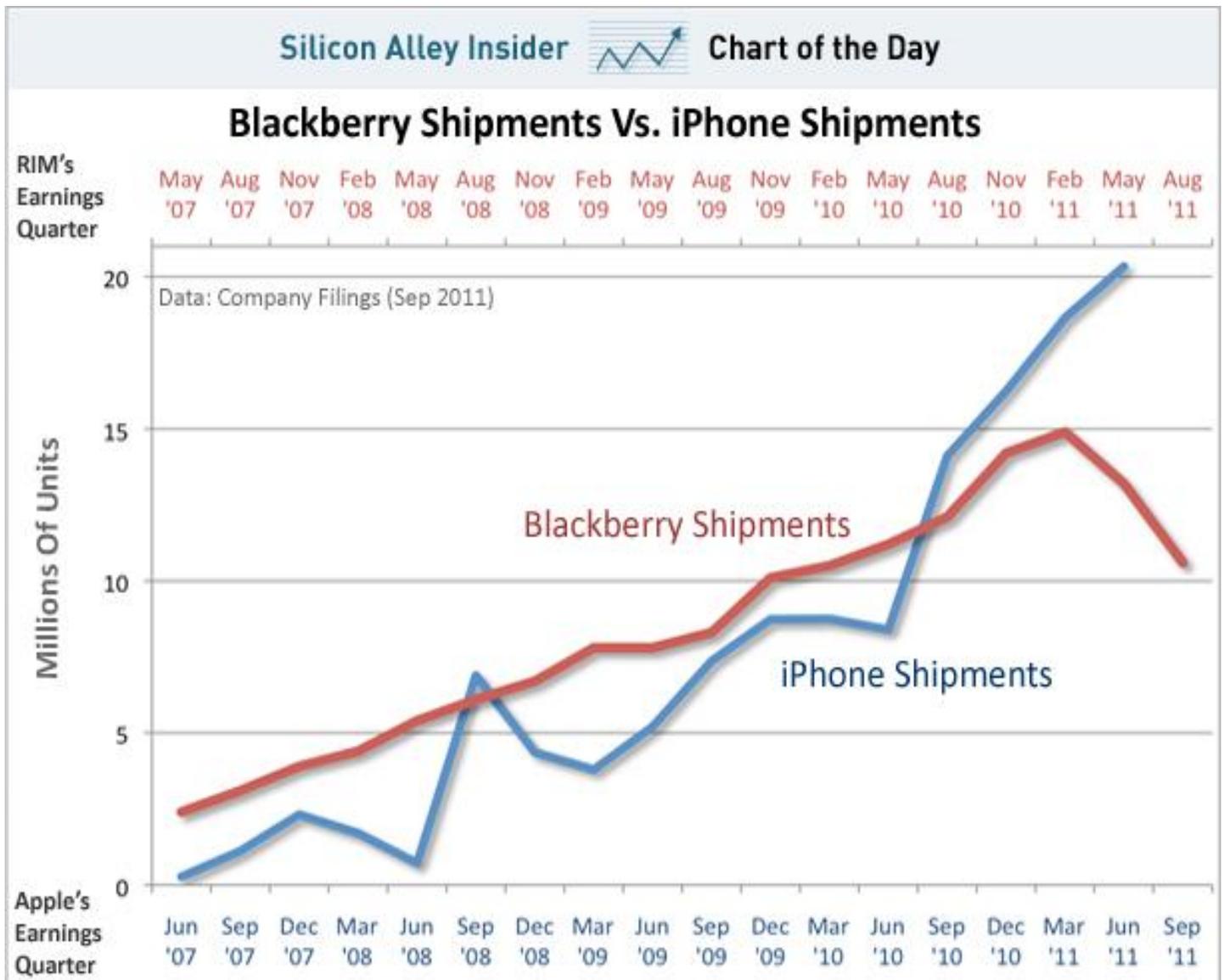
Various nations of the world including India and Russia have asked the owners of Research in motion limited to supply them with the information transferred on their particular servers. The demands presented before RIM cannot be discarded as the countries have a huge amount of blackberry customers with India ranked as the second So the RIM agreed to install a relay server in the countries demanding the access of the data. Now as a huge amount of information is being transferred around the world on on blackberry devices so it became an issue of concern for the RIM as how the peoples will react to this particular agreement. The main reason for the development of BB devices is the security of the data transfer which is now exposed to the government agencies.

## III. INFINITE LOOP

One of the major problems associated with Blackberry operating systems is, it just reboots like an ordinary computer. The major advantages associated booting process is , the cache memory gets cleared, but there arises a case when the blackberry operating system constantly reboots after and after. It's like an infinite loop going on in the mobile and it has no stopping, if u leave it, the rebooting continues until the battery gets drained. The Blackberry in this particular state is termed as NUKED BLACKBERRY (keeps rebooting non stop).







The fundamental problem associated with a NUKED BB is that the devices is in a infinite loop so it does not gets connected to the computer, or we can say that the computer does not recognizes the particular device, so it becomes impossible to load a new operating system. The problem can be solved by loading an new operating system into your BB device. The main problem arises as the device is not accepted by the computer so how will load the new operating system from your computer onto the device. The first step to solve this particular query is to download the latest Blackberry desktop manager from the official blackberry websites. Now plug out the battery from your particular BB device.

Research in motion has expanded in excess of 50% every year for the last decade. To maintain the growth rate the company will have to attract more customers from the developing nation and in some or the other way, has to compromise with its security features, as most of the governments in the developing nation are against it. RIM has already compromised with some of

this security features by the installations of various servers in the various developing nations but has nothing to say over the BES data.

Search for the application loader in the program files which is downloaded with the Blackberry Desktop manager. Open the application loader, double click on the loader icon. Make sure that the device is not connected at this moment.

We directly proceed to step 2 and skip the desktop manager altogether. Welcome to application loader wizard screen appears, click next to continue. Now the communication port screen appears, it's where the tricky part comes on. We need to connect the Blackberry via USB cable and when the status of the connection port switches from COM 1 to USB-PIN UNKNOWN then click next. Now select the various devices that you want install on your device, and select the option of update your device. The installation period might take a few minutes, but now device will run with an updated operating system. The loader application is

not only used to stop the infinite loop but also used for cleaning of various memory applications

RIM is facing a lot of competition from the new developers of apple and android. The company of apple and android are forcing users to migrate to a more reliable smartphone than the Blackberry. RIM may see its overall market share at decline but it's the business of device's that's growing, which means it may actually be able to grow the sales. The problem of RIM is how to address the customers who are already buying new smartphones. Most of the people see apple as the biggest threat to the blackberry devices developed by the RIM. The Blackberry quarterly sales were increases by \$2 million dollars when the iphone were introduced in 2007.

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#### Author

Sundaram Vats, Student, Galgotias college of engineering and technology, saandyenator@gmail.com