

Furthermore, even if a first-world country has good bandwidth or good data networking capabilities, a user may be on a limited data plan in which the user can only download a certain amount of digital data during a particular time period, such as a month. It would be desirable to provide a way in which the user could download the digital data and access the applications without always using the allotted data of the limited data plan.

In addition, wireless network operators are continually facing challenges to provide the level and quantity of data access for some first-world countries. In particular, they either cannot build out their network infrastructure quickly enough to keep up with the user demand for data or do not want to expend the resources to build out their network infrastructure. It would be desirable to provide a way in which the network operator can provide the digital data access and access to the applications using other data networking resources.

According to a first aspect of the present invention, there is provided an apparatus, comprising: a receiver component that receives a request for data over a secondary network; the receiver generating a request for digital content from a remote source by translating the request for data received over a secondary network; and the receiver receiving the requested digital content based on the request and converting the requested digital content into a response transmitted over the secondary network so that a device that uses the secondary network is able to access the digital content.

According to a second aspect of the present invention, there is provided a client, comprising: a computing device having a processor that executes a client application; the client application generating a request for data in a message and sending the message over a secondary network to a backend component; and the client application receiving a message over a secondary network with the requested data, the client application converting the message over the secondary network into the requested data.

According to a third aspect of the present invention, there is provided a method for data exchange using a backend system and a computing device capable of communicating over a secondary network, the method comprising: generating, by a computing device, a request for data message; transmitting the request for data message over a secondary network to a backend system; generating, at the backend system, a request for digital content from a remote source by translating the request for data message received over a secondary network; receiving, by the

backend system, the requested digital content from the remote source; converting, by the backend system, the requested digital content into a message sent over the secondary network back to the computing device.

5 Brief Description of the Drawings

Figure 1 illustrates an example of an implementation of a system for asynchronous application data access;

Figure 2 illustrates more details of the system for asynchronous application data access;

10 Figure 3 illustrates more details of each computing device of the system for asynchronous application data access;

Figure 4 illustrates more details of the backend component of the system for asynchronous application data access;

Figure 5 illustrates a method for asynchronous application data access;

Figure 6 illustrates a screen of a typical computing device;

15 Figure 7 illustrates an example of a home screen for a computing device having asynchronous application data access;