

ABSTRACT**Dynamically Delayed Acknowledgement Transmission System**

Conventional approaches or communications systems for data communications in an asymmetric network connection are disclosed. These approaches or systems relate to the problems posed by the difference in bandwidth between the downstream and upstream channels in the asymmetric network connection. In accordance with the invention, a method, a computer product and a communications system in relation to data communications in an asymmetric network connection are disclosed. The data communications is in accordance with a communications protocol wherein a receiver transmits acknowledgement packets for acknowledging data packets transmitted by a sender. The invention includes the step of measuring the interval between the transmission of data from one of the receiver and sender and the reception of a response thereto by the one of the receiver and sender. Additionally, the invention includes the step determining a window size indicative of the maximum number of the data packets transmittable by the sender for a duration absent any reception of the acknowledgement packets by the sender for the duration in accordance with the communications protocol, wherein the window size is determined using the measured interval. Further, the invention includes the step of regulating the frequency of transmission of the acknowledgement packets from the receiver, the regulation dependent on the determined window size.

Figure 2