SUMMARY

[0024] According to example embodiments described herein, system and methods are provided for providing market data in an electronic trading environment. To illustrate the present invention and aspects thereof, the following description, including the figures and detailed description, provides examples that can be used or readily modified by one of ordinary skill to generate a system or method that benefits from the teachings described and claimed herein.

[0025] ~~According to one example method, market information comprising a plurality of price levels and a plurality of order quantities are received for a tradeable object. Upon receiving market information, a determination is made if the plurality of price levels are linear. If the plurality of price levels are linear, a reference price level is selected, and a price feed message is generated to include the reference price level along with the plurality of order quantities. The price feed message is then sent to client terminals. If the plurality of price levels include non-linear price levels, a price feed message further includes non-linear price levels. Additionally, the price feed message may include a plurality of mapping indicators to indicate market depth levels for which price levels are included in the price feed message.~~According to a first aspect of the present invention, there is provided a method for providing market data in an electronic trading environment, comprising: receiving by a computer device a price feed message including a plurality of order quantities, a non-linear price level and an indicator sequence comprising a plurality of fields representing a plurality of price levels, wherein a linear price level is not provided in the price feed message, wherein each of the plurality of fields provides an indicator of whether the corresponding price level is linear or non-linear, wherein the non-linear price level is separated by more than one default tick increment from a preceding price level of the plurality of price levels, wherein each price level of the plurality of price levels is associated with at least one trade order pending at the electronic exchange; and determining by the computer device a mapping between the plurality of order quantities and the plurality of price levels using the indicator sequence and the non-linear price level in the price feed message.

[0025a] According to a second aspect of the present invention, there is provided a computer readable medium having stored therein instructions executable by a processor, wherein the instructions are executable to: receive by a computer device a price feed message including a plurality of order quantities, a non-linear price level and an indicator sequence comprising a plurality of fields representing a plurality of price levels, wherein a linear price level is not provided in the price feed message, wherein each of the plurality of fields provides an indicator of whether the corresponding price level is linear or non-linear, wherein the non-linear price level is separated by more than one default tick increment from a preceding price level of the plurality of price levels, wherein each price level of the plurality of price levels is associated with at least one trade order pending at the electronic exchange; and determine by the computer device a mapping between the plurality of order quantities and the plurality of price levels using the indicator sequence and the non-linear price level in the price feed message.

[0026] Other features of the present invention will become more apparent to persons having ordinary skill in the art to which the present invention pertains from the following description and claims.