In accordance with a first aspect of the exemplary embodiments of this invention ~~a method comprises receiving from a location server at a mobile user node a request to perform inter-frequency reference signal time difference measurements; receiving from a serving access node a measurement gap configuration; performing the requested inter-frequency reference signal time difference measurements during the assigned measurement gaps; and reporting the results of the inter-frequency reference signal time difference measurements to the location server.~~ there is provided a method, comprising: receiving from a location server at a mobile user node a request to perform inter-frequency reference signal time difference measurements; receiving from a serving access node a measurement gap configuration; performing the requested inter-frequency reference signal time difference measurements during the assigned measurement gaps; reporting the results of the inter-frequency reference signal time difference measurements to the location server; and wherein receiving from the serving access node the measurement gap configuration comprises a preliminary step of the mobile user node requesting the serving access node to assign the measurement gap configuration.

In accordance with another aspect of the present disclosure, there is provided a non-transitory computer-readable medium that contains software program instructions, where execution of the software program instructions by at least one data processor results in performance of operations that comprise execution of the method of the above aspect.

In accordance with another aspect of the exemplary embodiments of this invention, there is provided ~~an apparatus comprises at least one data processor and at least one memory including computer program code. The memory and computer program code are configured to, with the at least one data processor, cause the apparatus to perform operations to receive from a location server at a mobile user node a request to perform inter-frequency reference signal time difference measurements, to receive from a serving access node a measurement gap configuration, to perform the requested inter-frequency reference signal time difference measurements during the assigned measurement gaps, and to report the results of the inter-frequency reference signal time difference measurements to the location server.~~ an apparatus, comprising: at least one data processor and at least one memory including computer program code, where the memory and computer program code are configured to, with the at least one data processor, cause the apparatus to perform operations to receive from a location server at a mobile user node a request to perform inter-frequency reference signal time difference measurements, to receive from a serving access node a measurement gap configuration, to perform the requested inter-frequency reference signal time difference measurements during the assigned measurement gaps, to report the results of the inter-frequency reference signal time difference measurements to the location server;
and wherein an operation that receives the measurement gap configuration is preceded by an operation where the data processor requests, using radio resource control signaling, the serving access node to assign the measurement gap configuration.

In accordance with another aspect of the exemplary embodiments of this invention, there is provided ~~an apparatus comprises means for receiving from a location server at a mobile user node a request to perform inter-frequency reference signal time difference measurements; means for receiving from a serving access node a measurement gap configuration; means for performing the requested inter-frequency reference signal time difference measurements during the assigned measurement gaps; and means for reporting the results of the inter-frequency reference signal time difference measurements to the location server.~~ an apparatus, comprising: means for receiving from a location server at a mobile user node a request to perform inter-frequency reference signal time difference measurements; means for receiving from a serving access node a measurement gap configuration; means for performing the requested inter-frequency reference signal time difference measurements during the assigned measurement gaps; means for reporting the results of the inter-frequency reference signal time difference measurements to the location server; and wherein said means for receiving from the serving access node the measurement gap configuration operates in cooperation for means for requesting the serving access node to assign the measurement gap configuration using radio resource control signaling.

In accordance with another aspect of the exemplary embodiments of this invention, there is provided a method comprise~~s~~ing receiving signaling that comprises a request to provide a measurement gap configuration for a mobile user node in order for the mobile user node to perform inter-frequency reference signal time difference measurements;

providing the measurement gap configuration to the mobile user node in downlink signaling; while the mobile user node performs the requested inter-frequency reference signal time difference measurements, generating the measurement gaps according to the measurement gap configuration; and removing the measurement gap configuration after the mobile user node completes making the inter-frequency reference signal time difference measurements.

In accordance with yet another aspect of the exemplary embodiments of this invention, there is provided an ~~an apparatus comprises at least one data processor and at least one memory including computer program code. The memory and computer program code are configured to, with the at least one data processor, cause the apparatus to perform operations to receive signaling that comprises a request to provide a measurement gap configuration for a mobile user node in order for the mobile user node to perform inter-frequency reference signal time difference measurements; to provide the measurement gap configuration to the mobile user node in downlink signaling; while the mobile user node performs the requested inter-frequency reference signal time difference measurements, to generate the measurement gaps according to the measurement gap configuration; and to remove the measurement gap configuration after the mobile user node completes making the inter-frequency reference signal time difference measurements.~~ apparatus, comprising: at least one data processor and at least one memory including computer program code, where the memory and computer program code are configured to, with the at least one data processor, cause the apparatus to perform operations to receive signaling that comprises a request to provide a measurement gap configuration for a mobile user node in order for the mobile user node to perform inter-frequency reference signal time difference measurements; to provide the measurement gap configuration to the mobile user node in downlink signaling; while the mobile user node performs the requested inter-frequency reference signal time difference measurements, to generate the measurement gaps according to the measurement gap configuration; and to remove the measurement gap configuration after the mobile user node completes making the inter-frequency reference signal time difference measurements.

In accordance with a still further aspect of the exemplary embodiments of this invention, there is provided an apparatus comprise~~s~~sing means for receiving signaling that comprises a request to provide a measurement gap configuration for a mobile user node in order for the mobile user node to perform inter-frequency reference signal time difference measurements; means for providing the measurement gap configuration to the mobile user node in downlink signaling; means for generating, while the mobile user node performs the requested inter-frequency reference signal time difference measurements, the measurement gaps according to the measurement gap configuration; and means for removing the measurement gap configuration after the mobile user node completes making the inter-frequency reference signal time difference measurements.