In this paper, a new framework for sharing Combat Damage Assessment (CDA) is proposed to argue the difference of each CDA system between military combat units belonging to their own federate in a HLA/RTI federation. When there are engagements in a battle among combat units belonging to their own federate in the HLA/RTI federation, each result of damage assessments is very different. This is related to the HLA/RTI federation's confidence and needed to be overcome because it is also one of the major issues to generate reliable engagement data. Also, only qualitative data about combat damage can be generated through a RTI.

Therefore, the new framework for sharing CDA and generating quantitative CDA data is proposed to solve the problems with a CDA Module of one federate which is considered to have a standard engagement logic. The new framework is also exercised through two case studies by using two federates of a HLA 1516 / MÄK RTI federation. This new framework can be helpful to increase the interoperability in a HLA/RTI federation, provide an environment in which all developers can reuse the proposed new framework, and generate quantitative engagement data through this new framework.