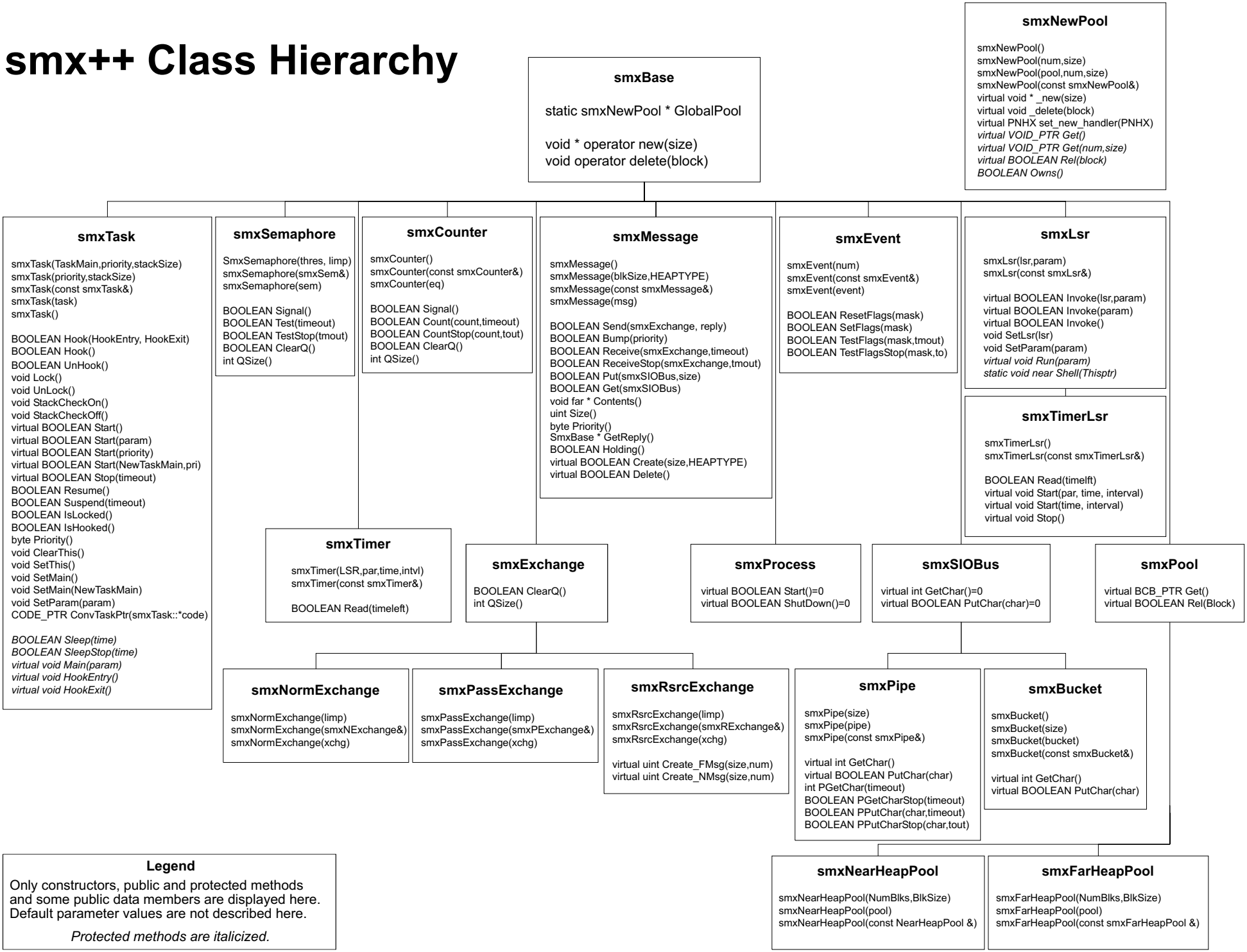smx++ Class Hierarchy