1172-54-106 Qian Hu* (qh1014@wildcats.unh.edu), 33 Academic Way, Math Dept UNH, Durham, NH 03824. Additive Local Multiplications and zero-preserving maps on C(X).

Suppose X is a compact Hausdorff space. In terms of topological properties of X, we try to determine when every additive local multiplication on C(X) is a multiplication. We also try to determine when every additive map T on C(X) that is zero-preserving has the form T(f) = T(1)Ref + T(i)Imf. (Received August 20, 2021)