Let $f: Y \to X$ be a flat morphism of algebraic varieties. A theorem of Michel André implies that $f$ is smooth if and only if the fibers of $f$ over closed points are smooth. We prove that the same statement holds for other local properties of morphisms satisfying a list of axioms. This gives a uniform treatment of what is known as Grothendieck’s localization problem, which has previously been shown for specific local properties of morphisms using a variety of methods. (Received August 06, 2020)