Piecewise-regular approximation of maps into real algebraic sets

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A real algebraic set $W$ of dimension $m$ is said to be uniformly rational if each of its points has a Zariski open neighborhood which is biregularly isomorphic to a Zariski open subset of $\mathbb{R}^m$. Let $l$ be any nonnegative integer. It turns out that every map of class $C^l$ from a compact subset of a real algebraic set into a uniformly rational real algebraic set can be approximated in the $C^l$ topology by piecewise-regular maps of class $C^k$, where $k$ is an arbitrary integer greater than or equal to $l$. 