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We study topological Markov properties for continuous group actions on compact metric spaces (for symbolic systems these were introduced as topological Markov fields). Examples appear in the context of supports of equilibrium measures and expansive algebraic actions. With these properties we can give simple conditions to ensure the existence of off-diagonal asymptotic pairs and positive sofic entropy. We generalize previous results by Chung and Li. (Received September 13, 2019)