1116-58-1882 **Phillip Andreae\*** (pandreae@math.duke.edu). Analytic torsion: generalized metric invariance. We study the Ray-Singer analytic torsion T associated to a flat vector bundle with hermitian metric h over an odddimensional compact manifold with Riemannian metric g. In the acyclic case (and, with the appropriate interpretation, more generally), T is known to be independent of the metrics h and g, i.e., T is a topological invariant. We frame the metric independence of T in terms of a certain closed one-form on the space of metrics, and we prove that furthermore Tis independent of the metric on the exterior bundle, which may be chosen independently of g. (Received September 21, 2015)