

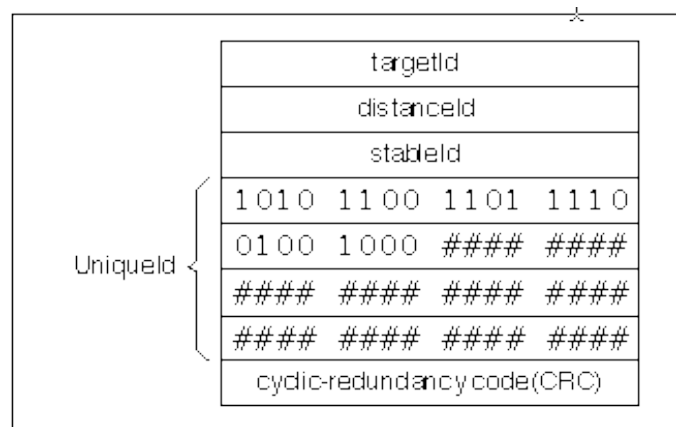
## Use of the IEEE Registration Authority assigned 'company\_id' with the IEEE Std 1596-1992 Scalable Coherent Interface

The IEEE Registration Authority assigned 'company\_id' is the company\_id value defined in IEEE Std 1212-1991 Control and Status Register Architecture (CSR Architecture) and the company Id value used within the 1596-1992\* Scalable Coherent Interface.

Within the context of the IEEE 1596-1992\* Scalable Coherent Interface, each node is assumed to have a unique identity, called *uniqueId*. During ringlet initialization, the *uniqueId* identifies the packets that each node generates. The *uniqueId* value may be randomly generated at startup (using an uncorrelated thermal noise source) or may be manufactured uniquely (a 24 bit companyId followed by a 40 bit company Unique identifier).

For uniquely-manufactured *uniqueId* values, the 24 bit company Id value is the most-significant portion of the 64-bit *uniqueId* value. The 40 least-significant bits of the *uniqueId* value are company Unique bits which are assigned by the owner of the company Id value.

For example, a company Id value of  $ACDE48_{16}$  (which has a binary representation of  $101011001101111001001000_2$ ) is placed in an initialization packet as illustrated below. In the context of this figure, the 40 company Unique bits are labeled as # characters.



\* IEEE Std 1596-1992 Scalable Coherent Interface Tutorial Rev. 27 Jul92