0.1 It takes Two to Tango, and Three to Party

Because a single link between Alice and Bob can be causally disconnected by real-world, permanent or intermittent failures, an alternative: statistically–independent–failure–path is necessary, to recover from `LINK` Failures. This is the heart of the Æ `ATOMICITY` claim: A local (one hop `LINK`) `TRIANGLE` is the minimum necessary. See TRIANGLE Clocks later in this specification.

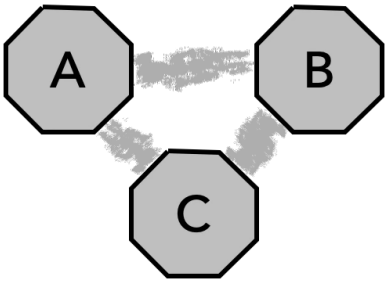

Figure 1: It takes three to party. Links need an alternate path. This won't work over a Switched (Clos) Network.

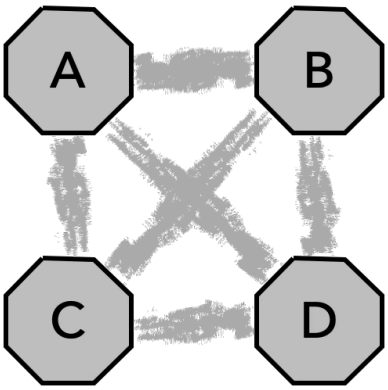

Figure 2: 2 x 2 =4 connected nodes with 6 flakey LINKs. Any one of which may be working in both directions: $\{11\}$, only one direction: $\{01\}$ or $\{10\}$, or *not*-working in *both* directions: $\{11\}$. For 4 nodes, there are $\frac{(n(n-1)}{2} = 6$. With 4 *reliability configurations* on each `LINK` $\{00, 01, 10, 11\}$ This gives us ONE correct (all links working correctly) and $4^6 - 1 = 4095$ possible failure modes.