

**Structural Integrity** OLTP systems must adhere to the **ACID** properties:

- **Atomicity:** All-or-nothing completion.
- **Consistency:** The database follows all defined rules and constraints.
- **Isolation:** Transactions do not interfere with each other.
- **Durability:** Once a transaction is committed, it is permanent, even in the case of a system failure. These properties are the ultimate guarantee of "data accuracy" and provide the "Single Source of Truth" for the organization's transactional records.

**Operational Forecast** Reinforcing OLTP systems leads to "high operational stability" within 12 months. The risk of transactional data loss or corruption is virtually eliminated. Organizations that fail to maintain the ACID integrity of their OLTP systems face a constant threat of "data corruption," leading to financial discrepancies and a complete loss of trust in the system.

**Executive Directive** The Database Administration (DBA) team is to perform a "Stress Test" of all primary OLTP systems to ensure they can handle peak transactional loads without violating ACID properties.

**Transition** OLTP manages the data transactions; Inventory and Operational Flow Management Systems manage the physical assets those transactions represent.