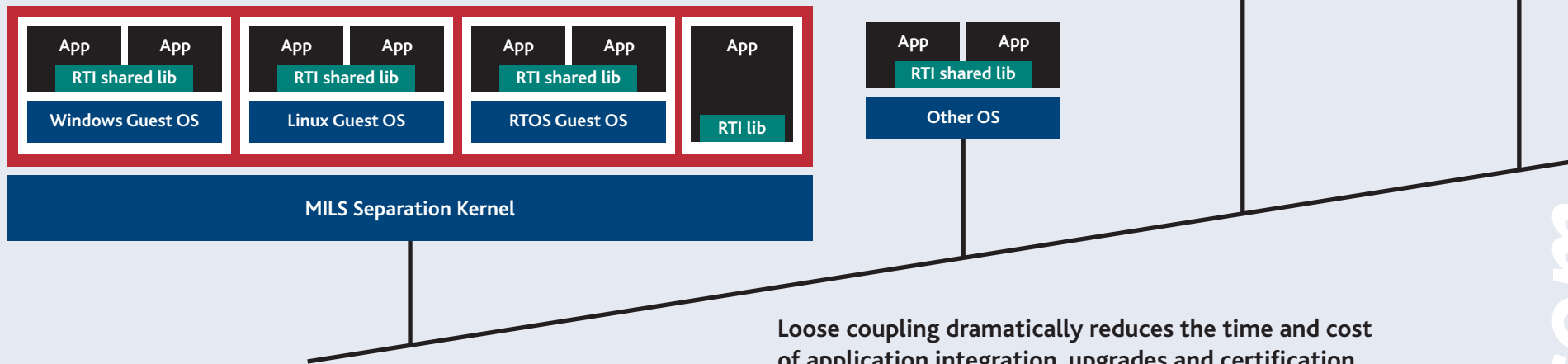


RTI Data Distribution Service: A Standards-Compliant Infrastructure for Integrating Distributed Applications in a MILS Environment

Fully compliant with Data Distribution Service (DDS) API and wire interoperability protocol



Inherently safe and secure

- Infrastructure wholly contained within embedded library
- Communication is peer-to-peer
- No shared broker, server or daemon processes
 - MILS kernel explicitly controls data flows from end-to-end
 - No central vulnerabilities
 - Eases assurance
- Integrated authentication and encryption
- Small footprint for high assurance

Loose coupling dramatically reduces the time and cost of application integration, upgrades and certification

- Applications are independent of the underlying transport and location of their peers
 - Within a partition using shared memory
 - Between partitions using sockets or IPC
 - Between systems across LAN, WAN, wireless and satellite links
- Publish/subscribe with automatic discovery supports dynamic and ad hoc systems—no directory service required
- Individual applications can be added, upgraded or relocated without requiring that others be changed or recertified
- Communication is seamless across programming languages, operating systems and processor architectures