



Data Resilience redefined with certifiable File Systems

Tuxera's certifiable solutions for PikeOS provide robust, certifiable data storage and transmission, built to endure the toughest environments and meet the most demanding Safety standards. Tuxera's patented file systems are engineered for resilience, reliability, and rapid recovery — even in the event of power loss or system interruptions. Designed to support Safety-critical applications, they offer the following key features:

- **Power-fail Safety** for unmatched system uptime and data integrity, ensuring no critical data is lost or corrupted during unexpected shutdowns or reboots
- **Cryptographic protection** to reinforce Cybersecurity and meet compliance standards globally
- **Optimized reboot performance** that minimizes downtime, ideal for mission-critical systems requiring immediate operational readiness
- **Long-term durability**, with simulations showing 28–32 years of file system lifespan in real-world applications
- **Certifiable software foundation**, with support for DO-178C (Avionics) and ISO 26262 (Automotive) Safety standards through comprehensive certification evidence packs

Tuxera's transactional file systems go beyond traditional journaling methods to ensure that data integrity and operational continuity are never compromised, whether in Aerospace, Automotive, or Industrial control systems.

SEAMLESS INTEGRATION WITH PIKEOS

Tuxera's partnership with SYSGO enables seamless integration of its certifiable software with the PikeOS real-time operating system and hypervisor. This collaboration empowers developers and system integrators to:

- Accelerate the path to certification across multiple domains
- Simplify deployment of Safety-critical applications
- Leverage deep in-house expertise for integration and configuration

PROVEN IN THE FIELD

OEMs and tier-one suppliers turn to Tuxera to meet performance and compliance goals under tight deadlines. From smart meters to Aerospace systems, Tuxera file systems have consistently outperformed legacy alternatives, both in speed and endurance — helping customers avoid costly in-house development cycles.

CUSTOMER ADDED VALUE

- In-house expertise to ease the integration of Tuxera's certifiable file systems with SYSGO's PikeOS
- Comprehensive certification support for Safety standards
- Power-fail safe file systems prevent data loss and ensure the fastest recovery after unexpected shutdowns
- Built-in cryptographic protection for enhanced Cybersecurity compliance
- Proven long-term durability minimizing maintenance cycles and life cycle cost
- Optimized performance and low CPU footprint

About Tuxera - Tuxera is the leading provider of quality-assured file systems, software flash controllers, and networking and connectivity solutions. Our software is in mission-critical systems around the world. We make sure data is secure, accessible, and intact precisely when you need it. Tuxera's customers include car makers, device manufacturers, industrial equipment manufacturers, data-driven enterprises, cloud storage vendors, and many more. We help them solve complex challenges involving data in all its states – at rest, in use, and in motion. Contact us at sales@tuxera.com

About SYSGO - Founded in 1991, SYSGO became a trusted advisor for Embedded Operating Systems and is the European leader in hypervisor-based OS technology offering worldwide product life cycle support. We are well positioned to meet customer needs in all industries and offer tailor-made solutions with highest expectations in Safety & Security. Contact us at sales@sysgo.com