

Transform Distributed Hardware Resources into a Secure and Centrally Managed Engineering Environment

Connect engineers, hardware assets and validation workflows within a controlled environment designed around your existing laboratory infrastructure.

Modern embedded development depends on physical targets, debug interfaces and specialised laboratory equipment. As teams expand across projects and locations, access to scarce hardware becomes increasingly difficult to coordinate.

Bytecraft Connected Lab Infrastructure enables authorised teams to access, reserve and operate laboratory resources without continuous physical presence at the test bench.

KEY BENEFITS

Secure Remote Access

Controlled access to approved laboratory resources from authorised locations.

Centralised Resource Management

Organise target boards, instruments and interfaces as managed resource pools.

Improved Hardware Utilisation

Share scarce and expensive assets across authorised teams and projects.

Reduced Physical Intervention

Move repetitive bench operations into software-controlled workflows.

MAKE PHYSICAL HARDWARE ACCESSIBLE, SHAREABLE AND READY FOR AUTOMATION.

FROM INDIVIDUAL TEST BENCHES TO A CONNECTED ENGINEERING ENVIRONMENT

Connected Lab Infrastructure transforms isolated hardware assets into a shared operational foundation for distributed development, automated validation and advanced engineering workflows.



CORE CAPABILITIES

Laboratory Connectivity

Secure remote access
Multi-location integration
Controlled user access
Centralised monitoring

Target Hardware Access

Development boards
Embedded targets
FPGA platforms
Prototype systems

Operational Control

Resource reservation
Usage coordination
Access control
Audit support

DESIGNED FOR

- Aerospace & Defence
- Railway Systems
- Automotive
- Semiconductor & FPGA Development
- Research & Advanced Engineering Labs

BUSINESS OUTCOMES

- Better utilisation of hardware investments
- Reduced dependency on physical presence
- Greater visibility of resource usage
- Fewer hardware resource conflicts
- Foundation for automation and advanced validation

TOOLCHAIN-INDEPENDENT BY DESIGN

Configured around existing hardware portfolios, validation workflows, security policies and operational requirements.