

Design and deploy high-quality **equipment control and connectivity solutions** on Windows or Linux

cimetrixTM

EquipmentControlFoundation

Equipment control and connectivity framework

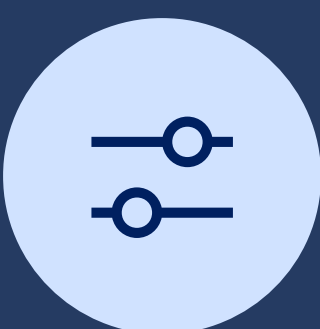
The **Cimetrix® EquipmentControlFoundation** (ECF) software development kit lets **you design and implement a high-quality equipment control and connectivity solution** on either Windows or Linux platforms.

Problem with **Status Quo**

In-house solutions require a high level of expertise in **equipment control** and **connectivity standards**.

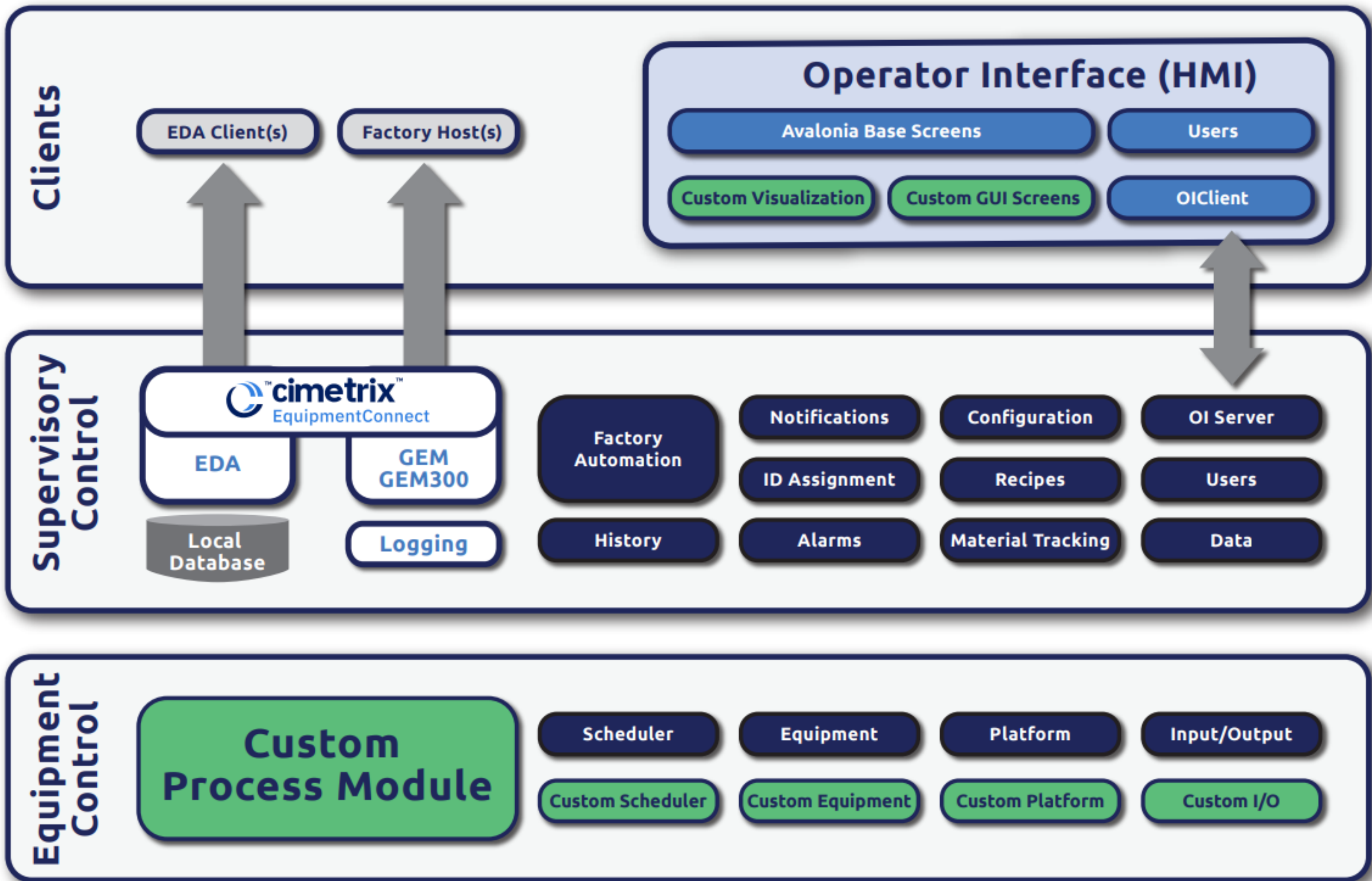
Using ECF allows you to **focus your resources** on your **area of expertise** – your **unique process technology** and **product differentiators**.

Solution Highlights

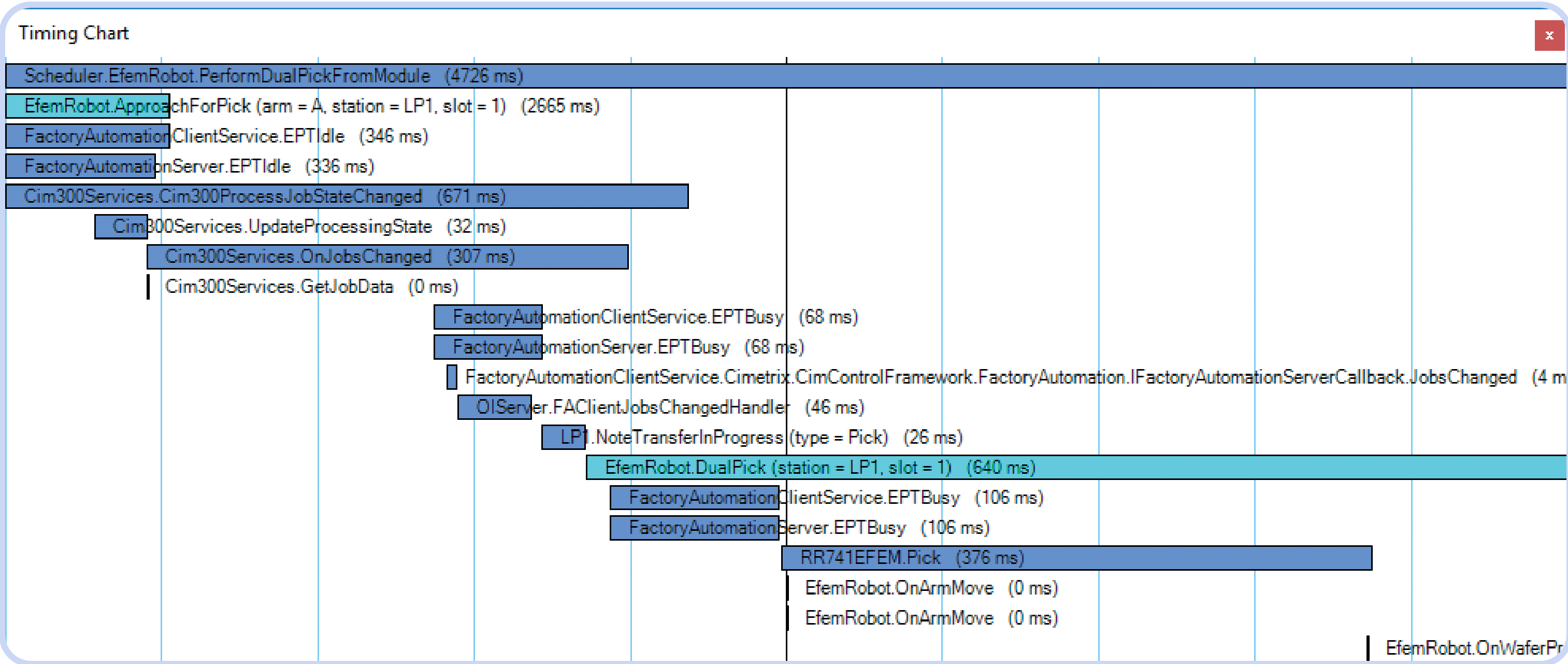
-  SEMI Standards integration
-  Customizable and extensible
-  Factory Automation

Key Capabilities

-  **Supervisory Control**
Alarm, recipe, configuration, and other packages for production-ready applications
-  **Device Interfaces and Simulation**
Simulate and integrate devices to develop your application before hardware arrives
-  **SEMI Standards Integration**
GEM, GEM300, and EDA/Interface A standards compliance without you being standards experts
-  **Rich Operator Interfaces**
Use our screens and/or create your own to make your OI custom to your company's equipment



Use Cases



Flexible Diagnostics

ECF logging is **light-weight** and **efficient** allowing **always-on diagnostics** for infrequent and dangerous issues. Troubleshoot with confidence using the **LogViewer** application’s robust **search, marking tools**, and **plug-ins** to analyze logs and provide rich diagnostic insight.



Challenge

Diagnosing equipment issues is **slow** and often requires costly on-site **expertise**.



Solution

Remote log file analysis **reduces on-site visits**, and rich on-tool diagnostics **accelerate local troubleshooting** and resolution.



Challenge

New projects start from a blank page, and every new engineer adds ramp-up time — both directly **delay time-to-market**.



Solution

Robust **samples, training**, and **ECF services** compress the learning curve and **accelerate time-to-market**.

Sample Implementations

Accelerate deployment with complete, ready-to-run sample applications — including **atmospheric, vacuum cluster tool**, and **continuous flow** examples.

Extensive **training materials** and **ECF Services** streamline design, implementation, and new-engineer onboarding, **saving critical development time**.

Develop and deploy on
Windows or Linux

Reduce time-to-market
by **50%**

Enable **AI/ML**
integration

SEMI Standards



- GEM – E4, E5, E30, E37
- GEM300 – E39, E40, E87, E90, E94, E109, E116 E148, E157
- EDA/Interface A – E120, E125, E132, E134, E164

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