



Parasoft Virtualize



TEST EARLIER, FASTER, AND MORE COMPLETELY

TRY IT FOR FREE

Download the community edition of Virtualize.

www.parasoft.com/ce

INCREASE EFFICIENCY AND REALIZE THE BENEFITS OF SERVICE VIRTUALIZATION

- Remove test constraints
- Improve product quality
- Decrease time-to-market
- Reduce testing costs

Create, deploy, and manage virtual test environments – anytime, anywhere.

Testing is already hard, and it's even harder when you can't access components that are out of your control because systems are still evolving, difficult to access, difficult to scale, or difficult to configure. With Virtualize, you can create, deploy, and manage simulated services for dev/test environments while reducing the constraints that arise from inadequate test data.

Virtualize goes beyond other service virtualization solutions with its integration with the Parasoft Continuous Testing Platform, which provides an intuitive browser-based interface for collaboration and coordination of your virtual services. You can bundle virtual assets and test cases into a virtual test environment, giving you full control over your test environment and the ability to test earlier and more completely.

Service virtualization solutions are commonly applied in the following contexts:

SERVICE VIRTUALIZATION

Perform complete and comprehensive testing of your application early and often, by simulating back-end systems that are unavailable, expensive to access, or out of your control.

PERFORMANCE TESTING

Shift-left performance testing by simulating the SLAs of your dependent systems, unblocking yourself from the limited availability of your physical performance test environment.

CONTINUOUS TESTING

Get ahead of the competition by accelerating the testing phase of your Continuous Delivery pipeline and automate the feedback loop with Continuous Testing, to assess your release readiness.

ENVIRONMENT MANAGEMENT

Instead of scaling additional hardware for hundreds of new test silos, leverage service virtualization to dynamically deploy-and-destroy virtual test environments.

“Service virtualization has allowed us to get great utilization from our testing staff, complete more projects on time, and also save money by lowering the overall total cost of performing the testing required for a given release... We used to need 2 weeks to performance test the code once we got it in our staging environments. Now, we've shrunk that to just 2 or 3 days. ”



SERVICE VIRTUALIZATION WITH PARASOFT

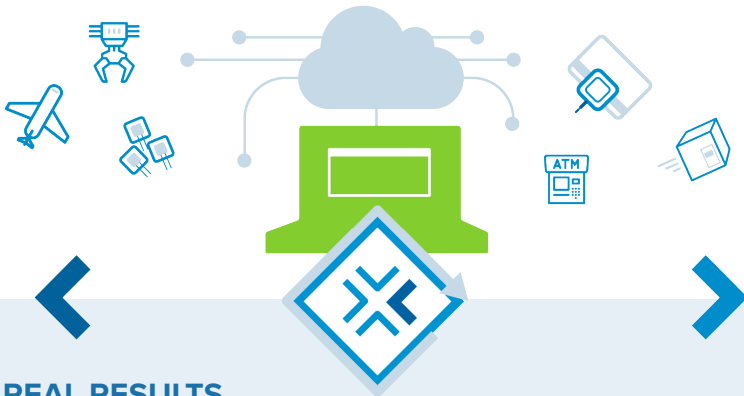
In order to test your complete application, you can use service virtualization to simulate services that are out of your control (APIs, systems owned by other teams, systems that are under development, etc.), which must be available for testing. Parasoft Virtualize uniquely simplifies the process of creating the virtual assets that power service virtualization, by creating proxies.

Proxies are listeners that stand between the application and the back-end systems. They monitor communication between the application and its dependencies (which you often wouldn't have any visibility into), so Virtualize can automatically analyze the traffic files to understand patterns, link requests to responses, interpret schemas, abstract data, and so on.

With this automation, the process of building a virtual service is easy, and you can be confident that it will carry with it all the logic required to support your test case. You can then deploy these virtual services to a virtual server, and consume them just like you would regular services.

LEVERAGING THE PARASOFT CONTINUOUS TESTING PLATFORM

Usually an application doesn't require just one virtual service – it requires many virtual services, and coordinating the configuration of those virtual services would be complex without the Parasoft Continuous Testing Platform. CTP enables you to configure multiple virtual services into an environment bundle, along with test cases and test data. With the integrated dashboard for managing and maintaining those virtual services, you can understand your asset inventory and control which services are deployed. Through its browser interface or through your Continuous Integration systems, the Parasoft Continuous Testing Platform makes it easy to access the right environment at the right time.



GET REAL RESULTS

Parasoft's customers in every industry use Parasoft Virtualize to benefit their businesses:



TELECOMMUNICATIONS

Run earlier, more-comprehensive performance testing by eliminating database dependencies.



AUTOMOTIVE

Accelerate parallel development of highly interconnected components.



HEALTHCARE

Reduce the time spent waiting for data, using industry-specific protocols such as EDI.



FINANCIAL

Simulate systems with industry-specific protocols such as FIX and Swift.



AEROSPACE & DEFENSE

Rapidly prototype functionality to accelerate feedback cycles and reduce time-to-market.



INSURANCE

Increase the scope and frequency of testing, without third-party access fees.

CAPABILITIES

- Service Virtualization
- Database Virtualization
- API, Web, and Load Testing
- Test Environment Management
- Test Data Management

PROTOCOLS

- HTTP, HTTPS, HTTP/2
- JMS, JDBC
- MQ, MQTT
- AMQP, Kafka
- RabbitMQ
- TCP/IP
- ISO 8583
- FIX
- FTP, TCP/IP
- .NET WCF
- [+ more](#)

MESSAGE FORMATS

- REST (Swagger, RAML)
- WebServices (WSDL)
- SOAP/XML
- JSON
- EDI
- FIX
- SWIFT
- Protobuf
- [+ more](#)

TOOLS

- Responders
- Data Generator
- Databanks
- Provisioning Actions
- Message Clients
- XML Tools
- Validation Tools
- Attachment Handler
- DB Tool
- Write File
- [+ more](#)

PERFORMANCE MODELING

Performance profiles for advanced performance modeling + High throughput support

EXTENSION FRAMEWORK

- Java
- JavaScript
- Jython
- Groovy

