PARASOFT
Automated Software Testing

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."

COMCAST

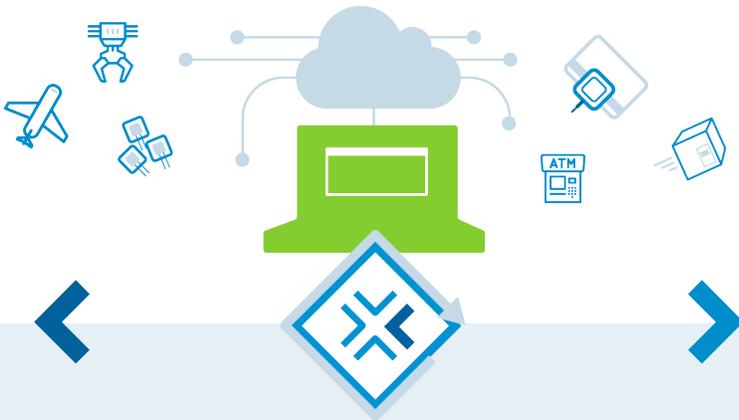## SERVICE VIRTUALIZATION WITH PARASOFT

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 backend 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

But 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, which enables you to configure multiple virtual services into an environment bundle, along with test cases and test data. 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.

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

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

AUTOMOTIVE
Accelerate parallel development of highly interconnected components.

FINANCIAL
Virtualize systems with industry-specific protocol such as FIX and Swift.

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
SAP (RFC, IDOC)
FTP, TCP/IP
.NET WCF
+ more

MESSAGE FORMATS
REST (Swagger, RAML)
WebServices (WSDL)
SOAP/ XML
JSON
EDI
FIX
SWIFT
SAP (RFC, IDOC)
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 through-put support

EXTENSION FRAMEWORK
Java
JavaScript
Jython
Groovy

PARASOFT
Automated Software Testing