



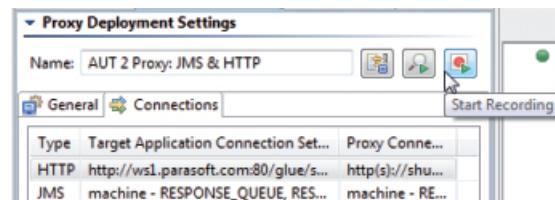
# Virtualize

## DATA SHEET

**Parasoft Virtualize helps development and QA create and access any environment needed to develop or test an application. It delivers the exact test environment you need—any time and anywhere.**

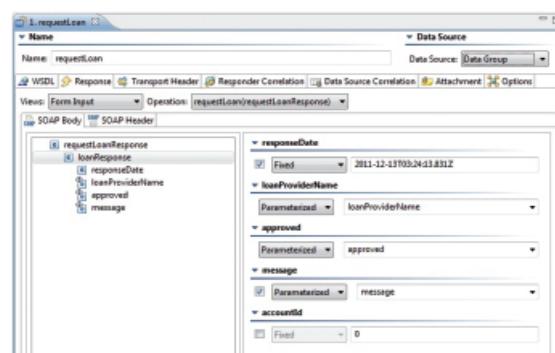
### Capture Real System Behavior for Anytime Access

For easy recording and virtualization of dependent applications' behavior, Parasoft Virtualize captures live dependent application traffic connected to the application under test. After a simple one-time set up, Parasoft Virtualize monitors behavior at any number of endpoints on demand, then represents this behavior in "virtual assets" that can stand in for the actual constrained components. Beyond web services, Virtualize captures the behavior of databases, messaging systems, middleware, mainframes, ESBs, legacy systems, and more.



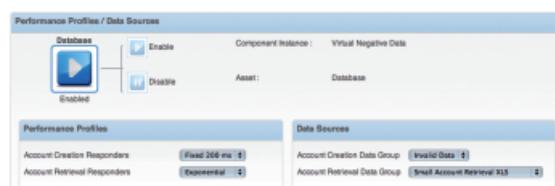
### Rapidly Model the Behavior of Incomplete or Unavailable Components

If dependent application components are not available for live recording, Parasoft Virtualize enables you to rapidly model virtual assets that represent the anticipated behavior. You can automatically generate a virtual asset from a definition file or from transaction logs—or you can model the expected behavior through an intuitive graphical interface. Leveraging the broad scope of protocol support available to facilitate modeling, you can rapidly build a virtual asset that emulates practically any behavior.



### Simplify Complete Test Environment Provisioning

Enabling dev/test teams to instantly provision virtual assets, Parasoft helps them rapidly stand up the specific environment instances they need to access. From an intuitive user interface, you can direct which asset version (real or virtual), performance profiles, and data sources to apply in any instance.



### Access Constrained Components on Your Own Schedule

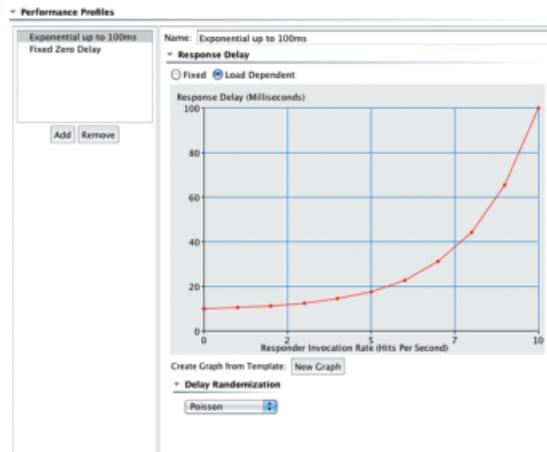
Working in an environment where constrained components are replaced with virtual assets, developers and testers gain the freedom to perform their expected tasks whenever they want, as extensively as they want. Virtual assets are available 24/7 for unit, functional and performance testing—automated or manual. They can be leveraged by any test environment, including Parasoft Test, HP Quality Center suite, IBM Rational Quality Management suite, Oracle ATS, and more.



## Easily Set Test Conditions that are Difficult to Achieve

Enabling teams to significantly extend the breadth of their testing, Parasoft Virtualize makes it simple to configure "virtual assets" to mimic specific conditions that would be difficult to achieve in an actual staging environment. This is especially challenging if you have limited access to (or control over) the component. For instance, you can easily set the component's performance (timing, latency, and delay) to emulate peak, expected, and slow performance.

You can also apply and modify test data for each particular asset to reproduce specific conditions critical for completing dev/test tasks. For example, you can configure various error and failure conditions that are difficult to reproduce or replicate with real systems.



## Technologies & Protocols

- HTTP/HTTPS
- JMS (e.g., WebSphere, webMethods, Sonic, TIBCO)
- MQ
- Equifax
- FTP
- ISO 8583
- JDBC
- JSON
- MTOM(XOP) / MIME / DIME attachments
- .NET
- PoX
- REST
- SAML
- SOAP
- TCP/IP
- WSDL
- WS-\*
- WS-Security
- XML
- XML Schema
- XPath
- More/custom

## Key Features

- Rapidly create virtual assets by recording existing application behavior then playing it back with dynamic values and context awareness
- Easily update virtualized application behavior models through an intuitive graphical interface
- Easily manage virtualized asset behavior with zero learning curve
- Perform load and other tests without impacting existing systems or operations
- Scale virtualized assets to support large-scale, high-throughput load and performance tests
- Model real, complex interdependent environment scenarios
- Rapidly model application behavior, even for dependencies that do not yet exist
- Visually model various message formats such as XML, JSON, and various legacy, financial, healthcare, and other domain-specific formats
- Easily configure various error and failure conditions that are difficult to reproduce or replicate with real systems
- Host virtual assets in a cloud or virtualize applications hosted in a cloud
- Easily manage interdependent system connections
- Automate activities that would otherwise require significant time and resources from operations and infrastructure specialists
- Automate workflows that involve multiple stakeholders, facilitating collaboration between various system owners, administrators, developers, and testers
- Complement existing hardware virtualization infrastructure

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