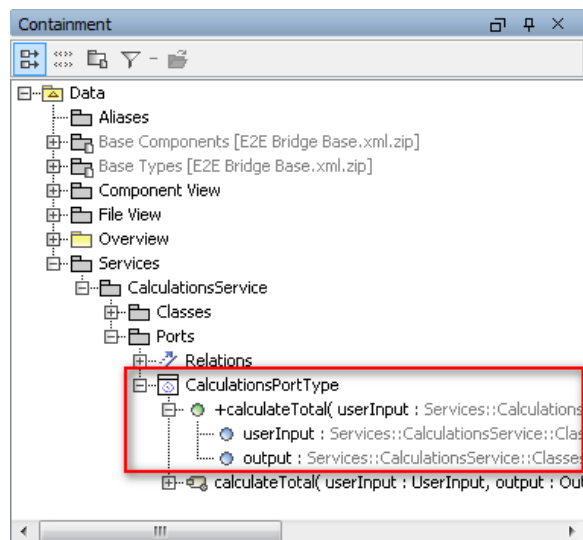


# Testing Services

## Testing of SOAP Services

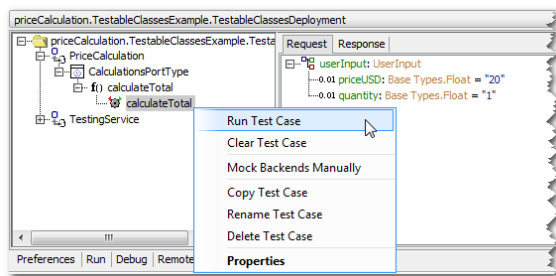
SOAP Services can easily be tested via their SOAP interfaces.

Figure: A SOAP Interface



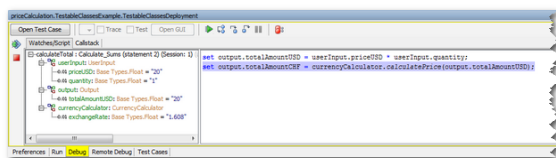
The **E2E SOAP Test Tool** as part of the **E2E Builder** allows testing of SOAP services running on the **E2 Embedded xUML Runtime** at development time.

Figure: E2E SOAP Test Tool



In combination with the **E2E Interactive Debugger** all activities and action scripts of the service can be stepped through watching the parameters and variables.

Figure E2E Interactive Debugger



Refer to the [Builder User's guide](#) for more information on the usage of the **E2E SOAP Test Tool** and the **The Interactive xUML Debugger**.

Services having been deployed to an **E2E Bridge** can be inspected with the **E2E Analyzer**. After importing the WSDL of the affected service, the deployed service can be tested similar to testing with the **SOAP Test Tool** of the **E2E Builder**.

Figure: E2E Analyzer

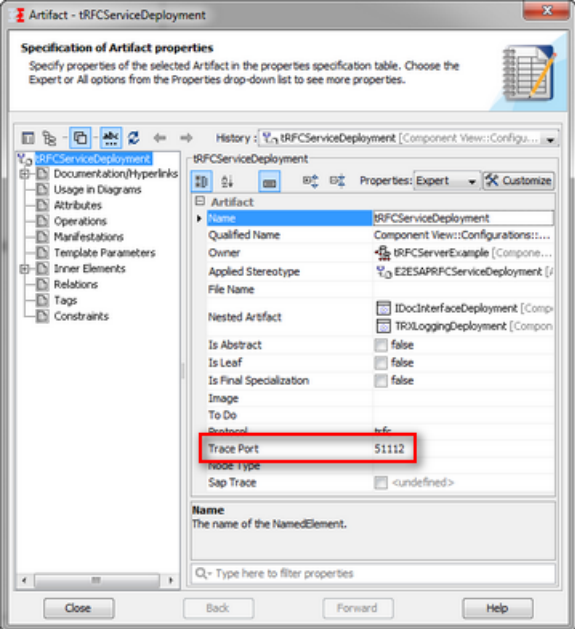
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### Related Pages:

- [E2E SOAP Test Tool](#)
- [The Interactive xUML Debugger](#)
- [Testable Classes](#)
- [Testing REST Services](#)





The generated shadow port will automatically get the same port number as the xUML service port but with a 5 as the first digit. Alternatively, to avoid port conflicts, the trace port can be set via the specification of the service deployment.

Find below a list of all **E2E Bridge** service types with their corresponding generated SOAP operations.

Service Type	Generated Operation
Timer	EXECUTE_TIMER_DIAGRAM
Scheduler	EXECUTE_SCHEDULER_DIAGRAM
Event Observer	<name of the Event Observer operation>, <event name>
HTTP	<name of the HTTP operation>
SAP RFC	<name of the SAP function>
Java	<name of the Java callback operation>
JMS Listener	<name of the JMS listener operation>
Startup / Shutdown	EXECUTE_STARTUP_ACTIVITY  EXECUTE_SHUTDOWN_ACTIVITY  The Startup/Shutdown service gets the name  StartupShutdownService4<name of the composite>

All classes can be made testable (see also [Testable Classes](#)) and subsequently be tested independently from the main service.