

PayEx Connect

Implementation manual – Sample service

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1 Versions

Version	Date	Description	Created by	Approved by
1.0	2006-03-20	Document created	Reine Olofsson	
1.0.1	2006-05-12	Name change to FaktabConnect	Reine Olofsson	
1.1	2006-08-22	Name change to PayEx Connect	Reine Olofsson	
1.2	2006-10-04	Updated exception handling with detailed faultCodes	Reine Olofsson	
1.3	2007-08-30	Added sample methods demonstrating session state and optimistic versioning concurrency control	Reine Olofsson	
1.4	2008-03-25	Changed the WSDL Specification URL	Ragnar Pettersson	

2 References

Document	Description
Implementation manual - Common	PayExConnect_Manual_Common.doc . Document describing general concepts such as architecture, security, error handling etc.

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3 Implementing PayEx Connect

3.1 Prerequisites

Common documentation covering architecture, security, error handling etc may be found in a separate document. See chapter 2 for details.

Implementing PayEx Connect requires basic knowledge about Web Services including WSDL, SOAP and WS-Security.

PayEx Connect is designed to simplify integration for clients using Microsoft .NET, Java Axis or other frameworks with built-in support for WS-Security and other W3C standards.

4 Service overview – SampleService

The sample service exposes web methods used for sample scenarios. Access to this service requires explicit permissions on company number level.

The complete WSDL specification for this service can be found at:

<https://connect.payex.com/SampleService.asmx?wsdl>.

4.1 Data types sample

The web method SampleMethod demonstrates the different string formats supported by PayEx Connect.

4.2 Session state sample

The web methods InitializeSessionState and UpdateSessionState demonstrate the per-user session state management used in some parts of PayEx Connect. Methods requiring per-user session management have the following text in the Remarks section:

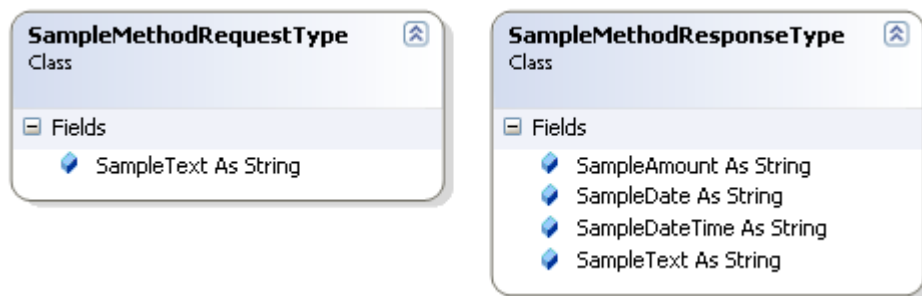
This method utilizes optimistic versioning concurrency control to ensure object consistency. This requires per-user session management by the service consumer. Details about versioning and session support can be found in the common documentation.

5 Web methods

5.1 SampleMethod

Sample method that returns a string containing the input string, an amount, a date and a datetime. Demonstrates the basic concepts of PayEx Connect and the ideal method to use when beginning a PayEx Connect integration.

Class diagram



Request parameters

SampleMethodRequestType				
Field	Datatype	Required	Max length	Description
SampleText	String	Yes	16	The input text to be returned as a part of the return value. Throws soap fault with error code 3010 if max text length of 16 is exceeded.

Response parameters

SampleMethodResponseType		
Field	Datatype	Description
SampleText	String	The input text as a value
SampleAmount	String	A string representing a sample amount
SampleDate	String	A string representing a sample date
SampleDateTime	String	A string representing a sample date and time

Exceptions

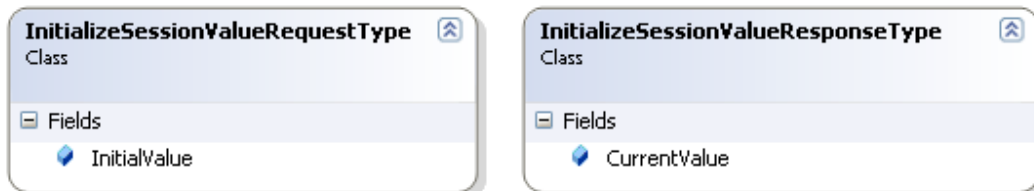
Specific exceptions for this method.

detail.ErrorCode	Soap faultCode	Description
3010	Client.3010	Request invalid. Invalid or missing sample text

5.2 InitializeSessionValue

This method is part of the sample demonstrating session state across multiple requests. Use this method to initialize the numeric value managed through server state. Use the UpdateSessionState method to update the value.

Class diagram



Request parameters

InitializeSessionValueRequestType			
Field	Datatype	Required	Description
InitialValue	Integer	Yes	Initial numeric value. Possible values are 0 to 1000.

Response parameters

InitializeSessionValueResponseType		
Field	Datatype	Description
CurrentValue	Integer	Current numeric value managed through server state.

Remarks

This method utilizes optimistic versioning concurrency control to ensure object consistency. This requires per-user session management by the service consumer.

5.3 UpdateSessionValue

This method is part of the sample demonstrating session state across multiple requests. Use this method to add a value to the numeric value managed through server state. Use the InitializeSessionState method to initiate the value before calling UpdateSessionState.

Class diagram



Request parameters

InitializeSessionValueRequestType			
Field	Datatype	Required	Description
AddedValue	Integer	Yes	Value to add. Possible values are 0 to 1000.

Response parameters

InitializeSessionValueResponseType		
Field	Datatype	Description
CurrentValue	Integer	Current numeric value managed through server state.

Exceptions

Specific exceptions for this method.

detail.ErrorCode	Soap faultCode	Description
4001	Client.4001	Concurrency control failure. Item not loaded into session state. InitializeSessionValue must be invoked before UpdateSessionValue

Remarks

This method utilizes optimistic versioning concurrency control to ensure object consistency. This requires per-user session management by the service consumer.