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# XML and Web Services Solutions with IBM DataPower Gateway V7 Information

<b>Length:</b>	4.0 Days
<b>Ref:</b>	WE702G-X
<b>Delivery method:</b>	ClassroomInstructor Led Online
<b>Price:</b>	AUD

## Overview

This course teaches you the fundamental skills that are required to configure, implement, and troubleshoot services that are developed on the WebSphere DataPower Gateway Appliances with firmware version 7.0.x. The concepts in this course are also beneficial to system administrators of the DataPower appliance, although there is a separate course for administrators.

For information about other related courses, visit the IBM Training website:  
<http://www.ibm.com/training>

## Public

This basic course is designed for integration developers who configure service policies on WebSphere DataPower Gateway Appliances.

## Prerequisites

You should successfully complete :*Technical Introduction to IBM WebSphere DataPower Gateway Appliances V7* (VW700G).

You should also be familiar with:

- Security-based concepts **and** protocols
- XML-related technologies such as XML schema, XPath, **and** XSLT
- Web service fundamentals **and** the web services security specifications

## Objective

- Describe how WebSphere DataPower Appliances are configured
- Create a web service proxy to virtualize web service applications
- Implement web services security
- Create and configure cryptographic objects
- Configure Secure Sockets Layer (SSL) to and from WebSphere DataPower Appliances

- Configure a multi-protocol gateway (MPGW) to handle multiple protocols from a single service
- Configure a service level monitoring (SLM) policy to control message traffic
- Configure support for IBM WebSphere MQ and WebSphere Java Message Service (JMS)
- Use logs and probes to troubleshoot services
- Use patterns to define and deploy new services
- Handle errors in service policies

## Topics

- Course introduction
- Quick introduction to developing on DataPower
- Exercise: First exposure to the DataPower developer environment
- Services overview
- Structure of a service
- Exercise: Creating a simple service
- Multi-protocol gateway service
- Problem determination tools
- Exercise: Creating an advanced multi-protocol gateway
- Handling errors in a service policy
- Exercise: Adding error handling to a service policy
- DataPower cryptographic tools and SSL setup
- Exercise: Creating cryptographic objects and configuring SSL
- Web service proxy service
- Exercise: Configuring a web service proxy
- Service level monitoring
- Exercise: Implementing a service level monitor in a web service proxy
- XML and web services security overview
- Exercise: Web service encryption and digital signatures
- Authentication, authorization, and auditing (AAA)
- Exercise: Web services authentication and authorization
- Integrating with WebSphere MQ
- DataPower and WebSphere Java Message Service
- Exercise: Configuring a multi-protocol gateway service with WebSphere MQ
- Patterns for service configuration
- Exercise: Using a DataPower pattern with the Blueprint console
- Course summary