



# Open XML for Word Developers Seminar

## Overview:

The new Microsoft Office formats are more than just another upgrade. They represent a whole new generation of possibilities for personal productivity applications.

While recent attention has focused on web-based applications that mimic desktop tools, opening up Office files to standard programming tools creates a whole new class of architectural possibilities.

## Course Objectives:

The workshop will give a good overview about open XML and its Word Processing vocabulary. Attendees will also gain practical experience to build end-to-end open XML Word based application. After completing this workshop, attendees are expected to have developed:

- Knowledge about the features and benefits of Open XML and WordprocessingML
- The ability to use various developer tools (in .NET and Java) to build solutions.
- Understanding on how to integrate Open XML format with existing solutions.

## Prerequisites:

Designed for IT Professionals and Architect audiences, attendees should have a good level of technical knowledge (preferably an understanding of the concepts and syntax of XML, XPath and XSLT).

## Length of seminar:

Half-day

## Cost:

Individuals \$270 +GST

Group Fee \$250 + GST)

## Topics include:

### 1. Introduction

- a. Office Open XML (OOXML)
  - What is OOXML?
  - File Format and Container structure
  - Markup Languages
- b. WordprocessingML
  - What is WordprocessingML?
  - A look at the schema and examples
  - Document Structure
- c. Key Development Concepts
  - What are XML, XSLT, and XPATH?
  - XML Namespaces
  - Encoding (UTF8)
  - XSLT and XPATH examples

### 2. OOXML Developers Overview

- a. Visual Basic and C# (.NET)
  - XSLT Processing in .NET
  - Microsoft SDK for Open XML
- b. Java
  - XSLT processors
  - OpenXML4J
  - DocxCreator Ant Task

- c. Architecture: REST

### 3. Query and Retrieval

- a. Structure-based
- b. Pattern-based
- c. Object-based

### 4. Adding Value to WordprocessingML

- a. Smart tags
- b. CustomXML markup
- c. External XML file

### 5. Integration with existing solutions