

# ELEVATE 2018 RECAP SEMINAR

PowerBuilder User Regional Seminar – Barcelona, Spain

Hotel NH Sants Barcelona

## PowerServer 2018 Sneak Peek



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## Presentation Agenda

- PowerServer 2018
  - JSONGenerator
  - JSONParser
  - HTTPClient
  - RESTClient
- Demo
- Outlook

## Author Profile



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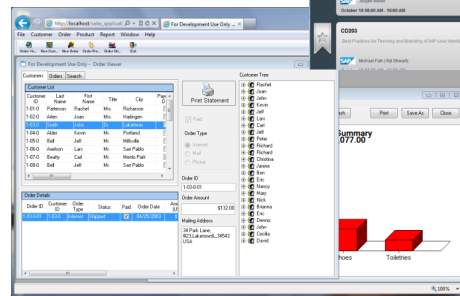
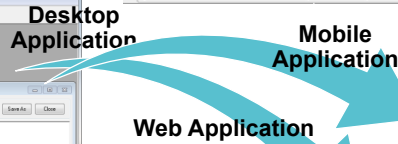
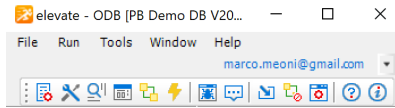
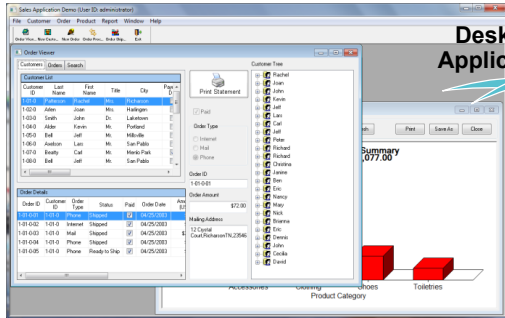
### Key Skills

- Appeon MVP
- PowerServer
- Big Data
- PowerBuilder
- Machine Learning

### Recent Projects

- **2013** - Dutch Ministry of Tax: migration to Web of 3GB of PB code
- **2016** - Cloud-based Appeon Web portal for Healthcare systems
- **2017** - Predictive Models for dataset caching on CERN Big Data

# PowerServer What it is



- Toolkit included into PB
- Deploy .Net & Java Applications
- Development remains in PB

# PB R3 Features

- ✓NativePDF Enhancements
- ✓REST/JSON Enhancements
- ✓OAuth (New Feature)
- ✓Encryption (New Feature)
- ✓PostgreSQL Enhancements

- ✓REST DataWindowChild
- ✓SQL Server 2017

Available in PS 2018

## JSON Manipulation

- `JSONParser.LoadString( ls_json )`
- `JSONParser.GetRootItem( )`
- `JSONParser.GetChildCount( ll_root )`
- `JSONParser.GetChildItem( ll_root, ll_index )`
- `JSONParser.GetItemXXX( )`
  
- `JSONGenerator.CreateJsonObject( )`
- `JSONGenerator.AddItemArray( ll_root, "items" )`
- `JSONGenerator.AddItemObject( ll_childArray )`
- `JSONGenerator.AddItemXXX( )`

## HTTPClient API

- `httpClient.SendRequest ( methodName, urlName, data, encodingType )`
  - GET, POST, PUT, DELETE, OPTIONS, TRACE, HEAD, CONNECT
- `httpClient.GetResponseHeader ( headerName ); httpClient.GetResponseHeaders ( )`
  - "Content-Type", "Content-Length", "Charset", ...
- `httpClient.GetResponseStatusCode ( )`
- `httpClient.GetResponseBody ( data )`
- `httpClient.GetResponseBody ( data, encodingType )`
- `httpClient.SetRequestHeader ( headerName, headerValue )`
- `httpClient.GetRequestHeader ( headerName ); httpClient.GetRequestHeaders( )`
  - "Accept-Encoding", "Connection", "User-Agent", "Cache-Control", ...
- `httpClient.PostData ( data, bufferSize )`
- `httpClient.SecureProtocol`
  - 1:SSL 2, 2:SSL 3, 3:TLS 1.0, 4:TLS 1.1, 5:TLS 1.2

## RESTClient API

- `restClient.GetRequestHeader ( headerName )`
- `restClient.GetRequestHeaders()`
- `restClient.GetResponseHeader ( headerName )`
- `restClient.GetResponseHeaders ( )`
- `restClient.GetResponseStatusCode ( )`
- `restClient.SetRequestHeader ( headerName, headerValue )`
  
- `restClient.SecureProtocol`
  
- `restClient.Retrieve(dwControl, urlName {, data} {, tokenrequest} )`

Demo

## What's Next

### PB R3 Features

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- ✓SQL Server 2017

**Thank you!**

**Questions?**



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