GISize!
The Standard Infrastructure Management Interface for Wonderware

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GISize!

Introduction
GISize!
The Standard Infrastructure Management Interface

A framework designed to:

▲ Helping the System Integrators developing infrastructure projects
▲ Reducing the time required to finish a project
▲ Meeting all the requirements of an infrastructure customer
Wonderware Spain Experience
Industry, Infrastructure and Know-how

15 years of Integration in 40 Airports in Spain

7 years Creating Smart Cities

Providing knowledge through standardization

* In the last 15 years in Spain we have had 50% of the WW solutions related to infrastructure projects
Wonderware!!!
But the best technology is not enough …

Infrastructure projects have no:
- Development rules
- Best practices
- Experience or lack of knowledge in Wonderware Features.

An unsuitable design may cause a “nightmare” in maintenance.
New challenges in the market

▲ Scada “for infrastructures”
▲ System of systems
▲ IoT
▲ Specific and different interface
▲ Reducing the risk in projects
▲ Reducing project cost
▲ Defining the customer needs
▲ Blank Page Syndrome
Key Benefits

▲ 1. Higher Quality
  ▲ Adopt standards and good development practices

▲ 2. Lower TCO
  ▲ Extend Wonderware System Platform capabilities

▲ 3. Better ROI
  ▲ Faster project development
Integrate BIM models in Wonderware, creating and updating Wonderware and GISize objects automatically. Deploy new objects without engineering tools as well.
What is the need?
A human oriented approximation

▲ The spatial data is key information to understand infrastructure.
▲ The perception of elements with respect to time and spatial data let you understand relationships, patterns and trends.
▲ Process & Position oriented HMI.
GeoSpatial Solution

The spatial data is key information to understand infrastructure

- Interactive add-on for Wonderware to enhance the visualization and navigation of spatial or geographical data in a Geographic Information System (GIS)
Demo GISize!
GeoSpatial
Demo GISize!
GeoSpatial with ArchestrA Graphics
Demo GISize!

3D In Action
GISize!

GeoSpatial - Overview
Main Features

A set of wizards and visual controls to use with Wonderware that allows the user to represent all the elements in a huge installation as spatial or geographical data in a Geographic Information System (GIS).

- Interactive navigation with GIS features (zoom, layers, etc).
- Compatible with standard map/GIS providers
- Allows to create a custom map provider based on images or vector files.
- Capable of rendering graphic elements (markers, polygons, tooltips, etc.) with animations.
- Capable of rendering ArchestrA Graphics (New in Q2 2018)
- Integrated with Wonderware strategy
Integrated with Wonderware Strategy

▲ Supported in:

▲ System Platform
  ▲ InTouch OMI (2017 Update 1)
  ▲ InTouch for System Platform (2012 R2 and later)
  ▲ InTouch Standalone (2014 R2 and later)

▲ Real time data integration
  ▲ ArchestrA Runtime Data (InTouch OMI)
  ▲ MXAccess (InTouch for System Platform)
  ▲ OPC + OIGateway (InTouch Standalone)

▲ Development through IDE
▲ Using Wonderware Logger

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Integrated with Wonderware Strategy

▲ Productivity Tools
  ▲ Export & Import
  ▲ Automatic object creation
  ▲ SDK

▲ Templates & Instances
▲ Runtime independent from development database
▲ Online / Offline mode

▲ Demos
  ▲ .Net Controls & ArchestrA Graphic & Demos
  ▲ ArchestrA App & Wrapper & Demos
Core Components

GISize provides a software architecture with the following core components:

- **GISize Repository:**
  - The GISize Repository is the complete GISize system consisting of a single logical name (defined by the GISize database) and a collection of map providers, layers, markers, shapes and other components.

- **Map Provider**
  - A Geospatial database with Geo-registered map images

- **Markers**
  - A pointer to a specific coordinate in a map that is represented as an image or ArchestrA Graphic.

- **Shapes**
  - A collection of specific coordinates in a map that are represented as a polyline if they are opened or a polygon if they are closed

- **Layer**
  - Can be conceptually interpreted as a transparent level where markers and shapes are attached. All markers and shapes instances belong to a layer.
Core Components

Layers

Markers

Shapes

Map Providers
Expo

▲ Come to our booth and you will have the chance to find out about the brand new features of GISize!:

▲ Geospatial Solutions: Improve your infrastructures solutions and enhance the visualization and navigation of spatial geographical data in Wonderware.

▲ 3D: Experience the future of infrastructure projects in 3D.