

## Ubisense Smallworld Pedigree

With 40 consultants dedicated to the Smallworld technology suite in North America & Europe, Ubisense has one of the leading Smallworld delivery teams.

Our consultants each have between five and fifteen years of experience with the Smallworld product suite across a broad range of industries and applications, as well as direct involvement on Smallworld product development teams including Core Spatial Technology, PowerOn, Design Manager, PNI and Cornerstone.

## How Performance Tuning Works

Smallworld is one of the world's most powerful GIS and asset management systems. It's also one of the most complex. Depending on how long your system has been in place and how many add-on applications have been implemented, it may or may not be delivering the performance it had when it was first installed.

Our Performance Tuning offering covers a wide range of elements that can improve the performance of your Smallworld system, including:

- **Map redraw** - Improving the redraw function can significantly increase productivity and ease of use.
- **Insert and update of objects** - Inefficient triggers, data model issues and network problems all affect speed and functionality.
- **Database queries** - Slow database queries are often the result of index definitions.
- **Plotting** - We review plotting performance and make recommendations for improvement where appropriate.
- **Merge and post** - Issues with merging and posting of data can affect the system. A common solution is a batch merge and post engine.
- **Administrative operations** - We review the performance of administrative operations and find areas for improvement.
- **Network architecture and performance** - We review your network configuration and also conduct tests on the network to identify any performance bottlenecks.
- **Hardware configuration** - Hardware configurations may be slowing the system, so we'll look at CPU utilization, memory usage, and other factors.
- **Data model** - We analyze index settings on your data model to identify potential problem areas.
- **Styles and visibility settings** - Problems identified by the redraw analyzer can usually be improved by changing styles and visibility settings.
- **Short transaction contention** - Some applications use VMDS in a "short transaction," which can be a source of performance problems.
- **Cache performance** - Performance of in memory and persistent cache will be monitored by our tools, and we will recommend changes if necessary.
- **Client application memory parameters** - We review your client memory parameters and recommend changes if necessary.

## What we do

### Get the Most Out of Smallworld

The Smallworld Performance Tuning Service from Ubisense is focused on analyzing and improving the performance of your Smallworld applications.

The package examines a number of independent components that can be mixed and matched to suit the needs of a specific customer or to target a particular set of symptoms.

The emphasis on each component will vary depending on customer priorities and on the likely scope for improvement in each area.

### Deliverables

To ensure your system is delivering the best performance possible, we examine a wide variety of application and technical areas, beginning with a high level analysis of the system. We'll then quickly drill down to priority areas identified by you or uncovered during the initial review.

The primary deliverables from this offering are:

- A set of reports documenting various aspects of your current system performance and identifying bottlenecks and areas for improvement
- Documented recommendations for how to improve areas with poor performance
- Software tools and documented techniques for monitoring key performance metrics on an ongoing basis

**About Ubisense**

Ubisense is the world leader in Precise Real Time Location Systems, tracking unlimited numbers of people and objects in any space of any size. With unmatched 15cm 3D tracking accuracy and high reliability, its acclaimed open standards technology platform gives enterprises the power to bring visibility and control to previously intractable business processes. Together Ubisense consulting and its partners, such as IBM, Atlas Copco, Lockheed Martin and Raytheon deliver geospatial and RTLS systems, pioneering innovation whilst reducing costs, gaining competitive advantage and improving safety for companies across all vertical markets. With over 400 customers worldwide including BMW, Caterpillar, DHL, Duke Energy, Deutsche Telekom, US Army; Ubisense is revolutionising industries today. Visit [www.ubisense.net](http://www.ubisense.net)

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