

# ActiveBase Tuning Robot™

## Productivity Gains

## INTRODUCTION

In today's world, confronted with ever growing challenges and workloads, **automation** is a proven way for increasing productivity and **saving costs**.

- ◆ By automating the operations needed for improving execution time of Oracle SQL statements, ActiveBase Tuning Robot™ transforms the tasks of improving SQL performance into a continuous process with **minimal manual work** and expertise required.
- ◆ Working directly at the Oracle optimization parameters level, SQL execution time can be improved **by a factor of x5 x10 or more**.
- ◆ Managed by operators **delivering fast results in a short time** (rather than existing solutions used only by DBAs with extensive expertise, who often are unavailable), ActiveBase Tuning Robot™ provides an effective platform for the implementation of reliable and predictable solutions to performance problems in Oracle Data Centers.

Data centers gain **substantial savings** and improved Quality of Service with ActiveBase Tuning Robot™, increasing productivity by implementing a repetitive fully automated performance improvement process.

## PRODUCTIVITY

The productivity increase obtained through the use of ActiveBase solutions is evidenced by the **time gains** experienced in the following two areas:

- **The minimal amount of time** for the daily management of the ActiveBase solution.
- **The time gains** in the ongoing process of improving SQL performance.

## Minimal Amount of Time for the Daily Management of the ActiveBase Solution

Our goal is to provide our customers with a complete and automated solution for the optimization processes.

Implementing the solution can be done in two hours and once the settings are in place, managing it does not usually exceed one hour per week.

Our solution consists of two modules for complete automation: ActiveBase Tuning Robot™ and ActiveBase Performance™.



*"The use of ActiveBase software made the production of our commercial statements and reports ten times faster and more efficient; we have saved substantial resources and have allowed for the extension of our business while maintaining our existing servers"*

**Ms. Limor Malay, DW  
Manager Orange  
Partner**



## ActiveBase Tuning Robot™

Enables the automation of the entire SQL query optimization process. After minimal setup requiring no more than 15 minutes, it will automatically:

- **Identify** performance degrading SQL statements, depending on their execution time and the number of times they have been executed.
- **Find** the right optimization 'Hints' (the ones producing the shortest execution time)
- **Create** fixing Rules to be imported into ActiveBase Performance™

In general, ActiveBase Tuning Robot™ is launched in the evening and/or on weekends, to work continuously when levels of database activity are lower. **Once launched, ActiveBase Tuning Robot™ does not require any human intervention.**

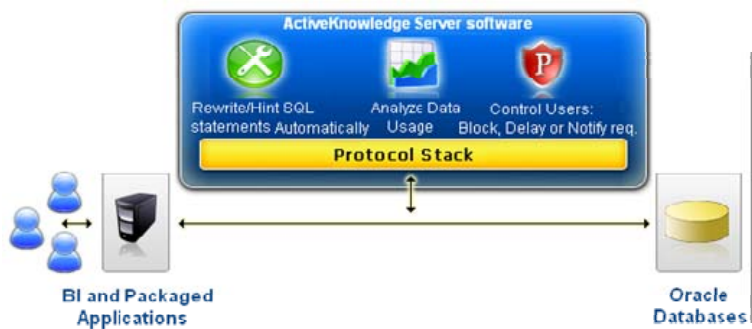
Once completed, a summary report is issued, showing the gains achieved for each query, depending on their frequency and execution time.

## ActiveBase Performance™

The initial setup of ActiveBase Performance™ is also very fast (between 1 and 2 hours): defining which applications and databases will be involved in the testing phase of the Rules generated by the Tuning Robot.

Once this process is completed, the only recurring task requiring intervention on your part is importing the Rules and validating their relevance in your context.

This phase normally **does not take more than an hour.**



Using ActiveBase Performance™ in test and/or production environments

## Time gains in the Ongoing Process of Improving SQL Performance

ActiveBase Tuning Robot™ can be run continuously on pre-production or production database environments in non-peak hours, evenings and weekends; it can find improvements for dozens of requests. These improvements will have been already tested on the database and their impact has therefore already been verified.

The time gains can be measured to be **at least x10** compared with the time required for manual optimization.

[www.active-base.com](http://www.active-base.com)

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## Gains in Production

ActiveBase Performance™ offers a unique solution for implementing in real-time the fixes found by the Tuning Robot.

Placed between the applications and the databases (see diagram), fixes are applied to different applications across your data center **without any changes to source-code or database configurations.**

Data Centers can immediately experience performance improvements while waiting for the source code to be changed.

It is also particularly valuable for business applications and reporting environments where **source-code cannot be improved** because it is not accessible or no longer maintained.

It supports Oracle versions 8 to 11g and is available on Solaris, AIX, HP-UX, Linux and Windows.

## Clients

It is used in industries as varied as:

Telecom, Banking, Finance, Insurance, Industry, Transport etc., and counts among its clients:

Orange, Cellcom, Visa,

National Bank of Hungary, General Electric, Teva

Pharmaceuticals, Coca-Cola, Phoenix Insurance, etc. ...

