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Tibero:

The simple alternative to Oracle





Choose Tibero, instead of being forced to move to SE2 from SE or SE1

If you are currently relying on Oracle Standard Edition (SE) or Standard Edition One (SE1) to underpin your applications, then the announcement that Oracle is forcing its customers to migrate to SE2 will mean that the cost and complexity of maintaining those applications is likely to increase significantly.



As an enterprise user of Oracle, this means another complexity to understanding your Oracle license estate and potentially more confusion in trying to keep within the legal requirements of your agreement. If you are a user of Oracle RAC with Standard Edition you will now be limited to 2 single socket servers with a maximum of 8 threads (throttled by resource manager). This means either not being able to fully utilize the full power of your commodity hardware or even having a significant reduction in application performance and resultant user-experience. If running your applications is no longer viable on the new reduced SE2 specification, then you may have to invest in the significantly more expensive Enterprise Edition and pay for all the options you had previously enjoyed within SE.

Tibero is an Oracle-compatible database which allows existing Oracle database applications to be ported with less effort and risk than carrying out an Oracle major version upgrade. Unlike Oracle, TmaxSoft believes in treating its customers with respect; providing the commercial and technical flexibility to listen to, and respond to the specific needs of you and your applications. What's more, we offer a zero-cost, no obligation proof of concept approach where we will show you how our drop-in, Oracle-compatible replacement database can deliver enormous savings as well as substantial technical benefits.

TmaxSoft

So, what has happened?



Frustrated Oracle users have been moving to Tibero for years benefiting from our commitment to being flexible, providing customers' specific needs, reducing operating costs and Enterprise Edition features free-of-charge.

Oracle SE1 users will be expected to pay nearly three times the current SE1 cost per-socket On September 1st 2015, in a blog post by a product manager, Oracle announced that from version 12.1.0.2, Standard Edition and Standard Edition One will no longer be available. The company communicated its intention to force users to adopt a new product—Standard Edition Two (SE2). Many Oracle users were surprised by the fact that they found out this significant change of policy via a blog posting. Many, however, weren't surprised that they were treated in this way by Oracle.

Since that initial announcement, Oracle has tried to clarify and re-clarify the complex set of changes in the terms and conditions and technical limitations that come with Standard Edition SE2. What has become clear is that these changes will impact most users—either technically, commercially or both.

Oracle has also announced per-socket pricing that sees SE2 priced at the same level as SE, but SE1 users will be expected to pay nearly three times the current SE1 cost per-socket. In August 2016, version 12.1.0.2—the last version of SE and SE1 will reach end-of-life; meaning that from that point forward Oracle database users have to choose between SE2 or the far more costly Enterprise Edition (EE).

It is clear that by forcing this change on its users, Oracle somewhat arrogantly believes that the technical challenges involved in migrating away from Oracle make it economically impossible for users to move to a different database. They seem to feel that they can do what they want because SE and SE1 users have no real alternative choice.

Users that are frustrated with Oracle's commercial practices have been moving to Tibero worldwide. And once they've become a customer of TmaxSoft, they not only benefit from our commitment to being flexible to customers' specific needs, but also enjoy vastly reduced operating costs and enjoy many equivalent Enterprise Edition features free-of-charge.



2 How will SE2 impact you?

It would be wrong to paint these changes as Oracle being completely unreasonable because there are some benefits to some users. For example, upgrading to SE2 is free to existing SE customers, it does provide some new technical functionality and the named user amount has increased from 5 per customer to 10 per server. But for the vast majority of users, the license changes will mean that they will pay more and will enjoy less and less of the potential power of their database servers.

Change	Technical Impact
4 socket configurations have been reduced to 2	You will need to run on old hardware or purchase and configure addition Oracle virtualization software in order to ensure compliance.
RAC configuration restrictions	There is no longer a 4 x 1 socket option for clustering. So configurations will be significantly limited with SE2 which could dramatically increase your costs.
A hard restriction to 16 threads or 8 x hyper-threaded configuration	Modern multi-core server CPUs can have upwards of 64 threads per socket. You will be limited to using 16 threads of processing power on your new server, which by modern standards can be very limiting.
The true power of database server hardware will need to be throttled using virtualization hard partitioning	Any new hardware that you commission will likely need to be restricted with 'excess' capacity being unavailable to other applications.
SE2 implementations will be artificially limited to a maximum of 16 threads	If you have an install that is currently using all the resources of your 2 or 4 socket configuration, this will now be restricted to a maximum of 16 threads. This could mean that resources that you have previously relied upon in your SE configuration are no longer available to you under SE2; reducing overall processing power.
12.1.0.1 reaches end of life in August 2016	If you elect to stay on SE or SE1, while you will still have to pay for support, you will not receive fixes to any database related bugs or vulnerability threats.
Change	Commercial Impact
The SE2 license is three times the cost of SE1	SE1 user can expect significant change in their deployment costs.
Increased support costs	For some, this may make certain application deployments no longer economically viable.
No entry-level option for Standard Edition	Without an SE1 option, developing apps that don't need the power of SE2/ EE will be increasingly difficult to justify.
It will become increasingly difficult to source hardware with limited cores / threads to maintain compliance	Today's modern server CPUs contain upwards of 6, 8, 10 or 32 cores. Each can be hyper threaded meaning each x86 core has 2 threads for operation. So, if you are artificially limited to using only 16 threads, your server may have lots of CPU processing power going to waste. Perhaps your existing server that was great for the previous configurations will now no longer be fully utilized due to this change of policy resulting in a drop-in database performance.
Staying on SE or SE1 version 12.1.0.1 after August 2016 will mean paying support renewal fees, but not receiving any bug fixes or other support services	Organizations will be obliged to continue paying for support, without actually being protected against vulnerabilities, and without a guarantee of having critical errors fixed.
Named user minimum limit has increased to 10 per server	Prior to SE2 you were able to license a minimum of 5 named user licenses for use across your entire SE configuration which may have had up to 4 x 1 socket servers. Now you are forced to have at least 10 named users per server of your configuration. This will increase the cost to you even if you only wanted 5.

What are your choices?

N O T S O ...

Tibero isn't just another SQL Database. It's been designed from first principles to be 100% drop-in Oracle compatible.



Tibero Proof program–find out more for free?

Tibero Proof program is free-of-charge and afterwards, you have absolutely no obligation to proceed As version 12.1.0.1 will reach end-of-life in August 2016, you need to plan your next steps quickly, and despite what Oracle would have you believe, you do have choices. Obviously, the default position is that you stay with Oracle and 'upgrade' to SE2. As long as you understand the additional cost and technical limitations of staying with Oracle, then Oracle's policy of a providing an SE2 upgrade for 'free' could be an option. However, when you start to look at the 'free' upgrade, it appears to be far from zero cost. First there is the exercise of managing the installation of the new software, then consider the minimum user raising from 5 to 10, and from that point forward support costs will rise accordingly. But even so, staying with Oracle has to be more cost-effective because every other option would mean significant re-engineering of your application, right?

Migrating to a NoSQL database like MongoDB, Redis, Cassandra, etc. would likely involve massive engineering and testing effort; staying with a traditional RDBMS might be a more attractive an option. That said, if your application logic is distributed across the application code as well as using PL/SQL, then migrating would be an enormous undertaking.

However, Tibero isn't just another SQL Database. It has been designed from first principles to be drop-in Oracle compatible. This means that all SQL and PL/SQL are 100% compatible with Oracle which in turn makes app migration far simpler. Our performance is on par with Oracle on similar hardware, and as we allow our users to harness all the available cores and threads of their database server as well as providing many Enterprise Edition features as standard, we often outperform Oracle's Standard Edition product line.

Our customers describe a 'migration' to Tibero as being no more risky and requiring no more development and testing effort than would be required for a major Oracle version update

If our claim of massively reduced ownership costs and drop-in compatibility with SE sounds too good to be true, we'd like to invite you to try our Tibero Proof program. To allow you to understand how your application would function when running on top of Tibero instead of Oracle SE or SE1, we will build a proof-of-concept port of a representative portion of your application. This Tibero Proof program is free-of-charge and afterwards, you have absolutely no obligation to proceed.

As a drop-in replacement for Oracle Standard Edition, a typical Tibero Proof project takes between 2 and 5 days depending on the technology and complexity of the application. TmaxSoft will carry out all of the work involved in providing proof of Tibero's abilities but we will need access to your application and database team during that time. At the end of the Tibero Proof exercise, we will demonstrate your application running on top of Tibero and will also supply an estimate of the effort involved for you to 'port' the entire application.

If you are ready to explore the potential for enormous gains by choosing to run your business applications on Tibero instead of Oracle, we're ready to help kick off your Tibero Proof project. Get in touch with us at **+1.312.525.8330** or send us an email at **sales@tmaxsoft.com** and we'll be delighted to demonstrate the possibilities!



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