

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PAUL N. LOEWENSTEIN	03/14/2013
STEPHEN E. PHILLIPS	03/14/2013
DAVID RICHARD SMEN TEK	03/14/2013
CONNIE WAI MUN CHEUNG	03/22/2013
SERENA WING YEE LEUNG	03/14/2013
DAMIEN WALKER	03/14/2013
RAMASWAMY SIVARAMAKRISHNAN	03/14/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ORACLE INTERNATIONAL CORPORATION
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13830967
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<b>ATTORNEY DOCKET NUMBER:</b>	33227/860001
<b>NAME OF SUBMITTER:</b>	ROBERT P. LORD
<b>SIGNATURE:</b>	/Robert P. Lord/
<b>DATE SIGNED:</b>	09/12/2014

PATENT

**Total Attachments: 4**

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**ASSIGNMENT – WORLDWIDE**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") hereby assign, transfer, and set over to:

Oracle International Corporation

having the following address:

500 Oracle Parkway, Mail Stop 50p7  
Redwood Shores, California 94065

(referred to herein as "COMPANY"), its successors, and assigns, the entire right, title, and interest, worldwide, in and to the invention known by the following title:

**BROADCAST CACHE COHERENCE ON PARTIALLY-ORDERED NETWORK**

for which the undersigned has/have executed an application for patent in the United States of America on or about this same day, together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all Letters Patent (domestic and foreign) which may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

1. To sign and execute any further documents which may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;
2. To execute all papers and documents and to perform all lawful acts which may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
3. To perform all lawful affirmative acts which may be necessary to obtain the grant of a valid and enforceable patent to COMPANY.

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of OSHA LIANG LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

**OSHA LIANG**

Intellectual Property Law



IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

_____	1 <sup>st</sup> Inventor Signature: _____
Date	Print or Type Name: Paul N. Loewenstein
_____	2 <sup>nd</sup> Inventor Signature: _____
Date	Print or Type Name: Stephen E. Phillips
_____	3 <sup>rd</sup> Inventor Signature: _____
Date	Print or Type Name: David Richard Smentek
3/22/2013	4 <sup>th</sup> Inventor Signature: _____
Date	Print or Type Name: Connie Wai Mun Cheung
_____	5 <sup>th</sup> Inventor Signature: _____
Date	Print or Type Name: Serena Wing Yee Leung
_____	6 <sup>th</sup> Inventor Signature: _____
Date	Print or Type Name: Damien Walker
_____	7 <sup>th</sup> Inventor Signature: _____
Date	Print or Type Name: Ramaswamy Sivaramakrishnan

When this Assignment is not filed concurrently with the patent application,  
the following identifying information may be added after execution:

U.S. Application Serial No.: 13/830,967

Filing Date: March 14, 2013

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Intellectual Property Law

PATENT  
REEL: 033734 FRAME: 0721

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

_____	1 <sup>st</sup> Inventor Signature:	_____
Date	Print or Type Name:	Paul N. Loewenstein
_____	2 <sup>nd</sup> Inventor Signature:	_____
Date	Print or Type Name:	Stephen E. Phillips
_____	3 <sup>rd</sup> Inventor Signature:	_____
Date	Print or Type Name:	David Richard Smentek
_____	4 <sup>th</sup> Inventor Signature:	_____
Date	Print or Type Name:	Connie Wai Mun Cheung
3/14/2013	5 <sup>th</sup> Inventor Signature:	<i>Serena Wing Yee Leung</i>
Date	Print or Type Name:	Serena Wing Yee Leung
_____	6 <sup>th</sup> Inventor Signature:	_____
Date	Print or Type Name:	Damien Walker
_____	7 <sup>th</sup> Inventor Signature:	_____
Date	Print or Type Name:	Ramaswamy Sivaramakrishnan

When this Assignment is not filed concurrently with the patent application,  
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