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1 License

TERM SOFTWARE LICENSE AGREEMENT

This agreement is between the individual or entity agreeing to this agreement and Univa Corporation, a Delaware corporation (Univa) with its registered office at 2300 N Barrington Road, Suite 400, Hoffman Estates, IL 60195.

1. SCOPE

This agreement governs the licensing of the Univa Software and Support provided to Customer.

- Univa Software means the Univa software described in the order, all updates and enhancements provided under Support, its software documentation, and license keys (Univa Software), which are licensed under this agreement. This Univa Software is only licensed and is not sold to Company.
- Third-Party Software/Open Source Software licensing terms are addressed on the bottom of this agreement.

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Subject to the other terms of this agreement, Univa grants Customer, under an order, a non-exclusive, non-transferable, renewable term license up to the license capacity purchased to: (a) Operate the Univa Software in Customer’s business operations; and (b) Make a reasonable number of copies of the Univa Software for archival and backup purposes. Customer’s contractors and majority owned affiliates are allowed to use and access the Univa Software under the terms of this agreement. Customer is responsible for their compliance with the terms of this agreement. The initial contracted term of this license will be automatically renewed on its expiry for a one year period unless a written notification of termination has been received 60 days prior to term expiry.

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(b) Confidentiality. Recipient may not disclose Confidential Information of Discloser to any third party or use the Confidential Information in violation of this agreement.

(c) Confidential Information means all proprietary or confidential information that is disclosed to the recipient (Recipient) by the discloser (Discloser), and includes, among other things:

• any and all information relating to Univa Software or Support provided by a Discloser, its financial information, software code, flow charts, techniques, specifications, development and marketing plans, strategies, and forecasts;

• as to Univa the Univa Software and the terms of this agreement (including without limitation, pricing information).

(ii) Confidential Information excludes information that:

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• is or becomes a matter of public knowledge through no fault of Recipient;

• is rightfully received by Recipient from a third party without violation of a duty of confidentiality;

• is independently developed by or for Recipient without use or access to the Confidential Information; or is licensed under an open source license.

Customer acknowledges that any misuse or threatened misuse of the Univa Software may cause immediately irreparable harm to Univa for which there is no adequate remedy at law. Univa may seek immediate injunctive relief in such event.

5. PAYMENT

Customer will pay all fees due under an order within 30 days of the invoice date, plus applicable sales, use and other similar taxes.

6. WARRANTY DISCLAIMER. UNIVA DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF TITLE, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE UNIVA SOFTWARE MAY NOT BE ERROR FREE, AND USE MAY BE INTERRUPTED.

7. TERMINATION

Either party may terminate this agreement upon a material breach of the other party after a 30 days notice/cure period, if the breach is not cured during such time period. Upon termination of this agreement or expiration of an order, Customer must discontinue using the Univa Software, de-install it and destroy or return the Univa Software and all copies, within 5 days. Upon Univa’ request, Customer will provide written certification of such compliance.
8. SUPPORT INCLUDED

Univa's technical support and maintenance services (Support) is included with the fees paid under an order. Univa may change its Support terms, but Support will not materially degrade during any paid term. More details on Support are located at www.univa.com/support

9. LIMITATION OF LIABILITY AND DISCLAIMER OF DAMAGES

There may be situations in which, as a result of material breach or other liability, Customer is entitled to make a claim for damages against Univa. In each situation (regardless of the form of the legal action (e.g. contract or tort claims)), Univa is not responsible beyond: (a) the amount of any direct damages up to the amount paid by Customer to Univa in the prior 12 months under this agreement; and (b) damages for bodily injury (including death), and physical damage to tangible property, to the extent caused by the gross negligence or willful misconduct of Univa employees while at Customer's facility. Other than for breach of the Confidentiality section by a party, the infringement indemnity, violation of Univa's intellectual property rights by Customer, or for breach of Section 2 by Customer, in no circumstances is either party responsible for any (even if it knows of the possibility of such damage or loss): (a) loss of (including any loss of use), or damage to: data, information or hardware; (b) lost profits, business, or goodwill; or (c) other special, consequential, or indirect damages

10. INTELLECTUAL PROPERTY INDEMNITY

If a third-party claims that Customer's use of the Univa Software under the terms of this agreement infringes that party's patent, copyright or other proprietary right, Univa will defend Customer against that claim at Univa' expense and pay all costs, damages, and attorney's fees, that a court finally awards or that are included in a settlement approved by Univa, provided that Customer: (a) promptly notifies Univa in writing of the claim; and (b) allows Univa to control, and cooperates with Univa in, the defense and any related settlement. If such a claim is made, Univa could continue to enable Customer to use the Univa Software or to modify it. If Univa determines that these alternatives are not reasonably available, Univa may terminate the license to the Univa Software and refund any unused fees. Univa' obligations above do not apply if the infringement claim is based on the use of the Univa Software in combination with products not supplied or approved by Univa in writing or in the Univa Software, or Customer's failure to use any updates within a reasonable time after such updates are made available. This section contains Customer's exclusive remedies and Univa' sole liability for infringement claims.

11. GOVERNING LAW AND EXCLUSIVE FORUM

This agreement is governed by the laws of the State of Illinois, without regard to conflict of law principles. Any dispute arising out of or related to this agreement may only be brought in the state of Illinois. Customer consents to the personal jurisdiction of such courts and waives any claim that it is an inconvenient forum. The prevailing party in litigation is entitled to recover its attorneys' fees and costs from the other party.
12. MISCELLANEOUS

(a) Inspection. Upon request by Univa, Customer must provide a usage report at least 60 days before the renewal anniversary. Univa, or its representative, may audit Customer’s usage of the Univa Software at any Customer facility. Customer will cooperate with such audit. Customer agrees to pay within 30 days of written notification any fees applicable to Customer’s use of the Univa Software in excess of the license.

(b) Entire Agreement. This agreement, and all orders, constitute the entire agreement between the parties, and supersedes all prior or contemporaneous negotiations, representations or agreements, whether oral or written, related to this subject matter.

(c) Modification Only in Writing. No modification or waiver of any term of this agreement is effective unless signed by both parties.

(d) Non-Assignment. Neither party may assign or transfer this agreement to a third party, except that the agreement and all orders may be assigned upon notice as part of a merger, or sale of all or substantially all of the business or assets, of a party.

(e) Export Compliance. Customer must comply with all applicable export control laws of the United States, foreign jurisdictions and other applicable laws and regulations.

(f) US Government Restricted Rights. The Univa Software is provided with RESTRICTED RIGHTS. Use, duplication, or disclosure by the U.S. government or any agency thereof is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 or subparagraphs (c)(1) and (2) of the Commercial Computer Software Restricted Rights at 48 C.F.R. 52.227-19, as applicable.

(g) Independent Contractors. The parties are independent contractors with respect to each other.

(h) Enforceability. If any term of this agreement is invalid or unenforceable, the other terms remain in effect.

(i) No PO Terms. Univa rejects additional or conflicting terms of a Customer’s form-purchasing document.


(k) Survival. All terms that by their nature survive termination or expiration of this agreement, will survive.

Additional software specific licensing terms: Grid Engine and Univa Software incorporate certain third-party software listed at the URL below. These licenses are accepted by use of the software and may represent license grants with restrictions which Univa is bound to provide. We are hereby notifying you of these licenses. * Third Party Software means certain third-party software which is provided along with the Univa Software, and such software is licensed under the license terms located at: http://www.univa.com/resources/licenses/

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License Orchestration Release Notes v 1.4.1
2 Supported Operating Systems, Versions and Architectures

Univa License Orchestration 1.4.0 supports the following hardware architectures and versions of operating systems:

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Version</th>
<th>Architecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>CentOS</td>
<td>6 and 7</td>
<td>x86-64</td>
</tr>
<tr>
<td>RHEL</td>
<td>6 and 7</td>
<td>x86-64</td>
</tr>
</tbody>
</table>

Table 1: Supported Operating Systems, Versions and Architectures

3 Fixes and Enhancements

3.1 Summary

Univa License Orchestration is a central policy and control system for multiple Flexera(TM) FlexLM license installations. Univa License Orchestration is designed to solve the issue of matching software licenses to jobs and applications submitted to one or more Univa Grid Engine clusters. Multiple Flexera FlexLM License installations and Univa Grid Engine clusters can be connected to a single Univa License Orchestration system. By configuring policies, quotas, and limits, an IT organization can decide on prioritized access to the software licenses by user, group, project, or department. Univa License Orchestration does not directly manage the software licenses, that process is still managed by Flexera FlexLM, but it is an additional policy and control mechanism that works side-by-side with Flexera to ensure visibility, control, and accounting into software license usage in an organization. Instructions for installing Univa License Orchestration are included with the software. Please read the installation section in the Univa License Orchestration Guide before proceeding with installation. If you experience difficulty installing or configuring Univa License Orchestration please contact our support team at http://support.univa.com or email us at: support@univa.com.

3.1.1 Compatibility and Upgrade Information

- Univa License Orchestration 1.4.0 is compatible with Univa Grid Engine 8.5.6 (and higher) and 8.6.0 (and higher). In order to upgrade older Univa License Orchestration installations to version 1.4.0 it is recommended to upgrade all Univa Grid Engine Systems to the latest 8.5 or 8.6 patch release and then upgrade Univa License Orchestration to version 1.4.0.

- Univa License Orchestration 1.4.1 is compatible with Univa Grid Engine 8.6.11 (and higher). In order to upgrade older Univa License Orchestration installations to version 1.4.1 it is recommended to upgrade all Univa Grid Engine Systems to the latest 8.6
patch release (8.6.11 or higher) and then upgrade Univa License Orchestrator to version 1.4.1.

Following Univa License Orchestrator 1.4.1 fixes have dependencies to the connected UGE system:

- LO-469 and LO-483 are only fixed for UGE 8.6.11 (or higher).
- LO-480 is only fixed for UGE 8.6.6 (or higher).
- LO-474 and LO-475 are only fixed for UGE 8.6.3 (or higher).

Information about installing or upgrade Univa License Orchestrator can be found in the Quick Start Guide. Installation or upgrade information concerning Univa Grid Engine can be found in the corresponding Installation Guide.

Make sure to read the release notes of versions intended to be installed. They might provide important notes for incompatibilities in the product releases or additional installation/upgrade information not mentioned in the quick start guide or installation guide.

### 3.1.2 Changes for loconf exit states

The loconf will no longer report an error for showing the content of empty configuration objects. If an configuration object contains no elements the exit status of loconf will be 0 and there will be also no error message anymore. The change affects following loconf command line options:

- loconf -sconfl show a list of all local configurations
- loconf -sh show a list of all administrative hosts
- loconf -shgrpl show host group list
- loconf -sjcl show job class list
- loconf -slml show license server list
- loconf -sm show a list of all managers
- loconf -sprjl show a list of all projects
- loconf -sql show a list of all queues
- loconf -ss show a list of all submit hosts
- loconf -sugel show UGE cluster list
- loconf -sul show a list of all userset lists

### 3.2 Full List of Fixes and Enhancements

#### 3.2.1 Univa License Orchestrator 1.4.0

- Various performance enhancements and fixes that where also applied to UGE 8.6.0
- L0-414 ship python license sensor as script
- L0-461 sync problems between lothread and lodial
- L0-472 loconf -slml has exist state of -1 if no lic manager objects exists
4 Known Issues and Limitations

3.2.2 Univa License Orchestrator 1.4.1

- Various performance enhancements and fixes that were also applied to UGE 8.6.11
  LO-469 jobs get stuck in "l" state when too many short running jobs are submitted.
  LO-474 lodial sync problem at startup
  LO-475 job in "l" state may be started without license under certain conditions
  LO-478 lodail sends invalid job request to LO master
  LO-479 losub -sync r -l <lic> reports lo job running but print out "Granted licenses: (null)"
  LO-480 "lothread" thread and "lothread_json thread" don't synchronize access calls to
    configuration data
  LO-483 LO thread event client execd filtering not working

4 Known Issues and Limitations