PROGRESS® ORBIX®

Installation Guide

Version 6.3.6, December 2012

PROGRESS software

BUSINESS MAKING PROGRESS™

© 2012 Progress Software Corporation and/or its subsidiaries or affiliates. All rights reserved.

Actional, Apama, Artix, Business Empowerment, Business Making Progress, Corticon, Corticon (and design), DataDirect (and design), DataDirect Connect, DataDirect Connect64, DataDirect Technologies, DataDirect XML Converters, DataDirect XQuery, DataXtend, Dynamic Routing Architecture, Empowerment Center, Fathom, IONA, Making Software Work Together, Mindreef, ObjectStore, OpenEdge, Orbix, PeerDirect, Powered by Progress, PowerTier, Progress, Progress DataXtend, Progress Dynamics, Progress Business Empowerment, Progress Empowerment Center, Progress Empowerment Program, Progress OpenEdge, Progress Profiles, Progress Results, Progress Software Business Making Progress, Progress Software Developers Network, Progress Sonic, ProVision, PS Select, RulesCloud, RulesWorld, Savvion, SequeLink, SOAPscope, SOAPStation, Sonic, Sonic ESB, SonicMQ, Sonic Orchestration Server, SpeedScript, Stylus Studio, Technical Empowerment, WebSpeed, Xcalia (and design), and Your Software, Our Technology-Experience the Connection are registered trademarks of Progress Software Corporation or one of its affiliates or subsidiaries in the U.S. and/or other countries. AccelEvent, Apama Dashboard Studio, Apama Event Manager, Apama Event Modeler, Apama Event Store, Apama Risk Firewall, AppsAlive, AppServer, ASPen, ASP-in-a-Box, BusinessEdge, Cache-Forward, CloudEdge, DataDirect Spy, DataDirect SupportLink, Future Proof, GVAC, High Performance Integration, ObjectStore Inspector, ObjectStore Performance Expert, OpenAccess, Orbacus, Pantero, POSSE, ProDataSet, Progress Arcade, Progress CloudEdge, Progress Cloudware, Progress Control Tower, Progress ESP Event Manager, Progress ESP Event Modeler, Progress Event Engine, Progress RFID, Progress RPM, Progress Responsive Cloud, Progress Responsive Process Management, Progress Software, PSE Pro, SectorAlliance, SeeThinkAct, SmartBrowser, SmartComponent, SmartDataBrowser, SmartDataObjects, SmartDataView, SmartDialog, SmartFolder, SmartFrame, SmartObjects, SmartPanel, SmartQuery, SmartViewer, SmartWindow, Sonic Business Integration Suite, Sonic Process Manager, Sonic Collaboration Server, Sonic Continuous Availability Architecture, Sonic Database Service, Sonic Workbench, Sonic XML Server, The Brains Behind BAM, WebClient, and Who Makes Progress are trademarks or service marks of Progress Software Corporation and/or its subsidiaries or affiliates in the U.S. and other countries. Java is a registered trademark of Oracle and/or its affiliates. Any other marks contained herein may be trademarks of their respective owners.

Third Party Acknowledgments

One or more products in the Progress Orbix v6.3.6 release includes third party components covered by licenses that require that the following documentation notices be provided:

Progress Orbix v6.3.6 incorporates Jakarata-struts 1.0.2 from the Apache Software Foundation (http://www.apache.org). Such Apache Technology is subject to the following terms and conditions: The Apache Software License, Version 1.1 Copyright (c) 1999-2001 The Apache Software Foundation. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form

must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes software developed by the Apache Software Foundation (http://www.apache.org/)." Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear. 4. The names "The Jakarta Project", "Struts", and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org. 5. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation. THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>.

Progress Orbix v6.3.6 incorporates Jakarta-bcel 5.0 from the Apache Software Foundation (http://www.apache.org). Such Apache Technology is subject to the following terms and conditions: The Apache Software License, Version 1.1 Copyright (c) 2001 The Apache Software Foundation. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes software developed by the Apache Software Foundation (http://www.apache.org/)." Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear. 4. The names "Apache" and "Apache Software Foundation" and "Apache BCEL" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org. 5. Products derived from this software may not be called "Apache", "Apache BCEL", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation. THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>.

Progress Orbix v6.3.6 incorporates Jakarat-regexp 1.2 from the Apache Software Foundation (http://www.apache.org). Such Apache Technology is subject to the following terms and conditions: The Apache Software License, Version 1.1 Copyright (c) 1999 The Apache Software Foundation. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes software developed by the Apache Software Foundation (http://www.apache.org/)." Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear. 4. The names "The Jakarta Project", "Jakarta-Regexp", and "Apache Software Foundation" and "Apache BCEL" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org. 5. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation. THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>.

Progress Orbix v6.3.6 incorporates the Jakarta-log4j 1.2.6 from the Apache Software Foundation (http://www.apache.org). Such Apache Technology is subject to the following terms and conditions: The Apache Software License, Version 1.1 Copyright (c) 1999 The Apache Software Foundation. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes software developed by the Apache Software Foundation (http://www.apache.org/)." Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear. 4. The names "log4j" and "Apache Software Foundation" and "Apache BCEL" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org. 5. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation. THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR

IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see http://www.apache.org.

Progress Orbix v6.3.6 incorporates Ant 1.5 from the Apache Software Foundation (http://www.apache.org). Such technology is subject to the following terms and conditions: The Apache Software License, Version 1.1 Copyright (c) 2000-2002 The Apache Software Foundation. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes software developed by the Apache Software Foundation (http://www.apache.org/)." Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear. 4. The names "Ant" and "Apache Software Foundation" and "Apache BCEL" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org. 5. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation. THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see http://www.apache.org.

Progress Orbix v6.3.6 incorporates Xalan-j 2.3.1 from the Apache Software Foundation (http://www.apache.org). Such Apache Technology is subject to the following terms and conditions: The Apache Software License, Version 1.1. Copyright (c) 1999 The Apache Software Foundation. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the

above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes software developed by the Apache Software Foundation (http://www.apache.org/)." Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear. 4. The names "Xalan" and "Apache Software Foundation" and "Apache BCEL" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org. 5. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation. THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/ >.

Progress Orbix v6.3.6 incorporates xerces-j 2.5 from the Apache Software Foundation (http://www.apache.org). Such Apache Technology is subject to the following terms and conditions: The Apache Software License, Version 1.1. Copyright (c) 1999-2002 The Apache Software Foundation. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes software developed by the Apache Software Foundation (http://www.apache.org/)." Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear. 4. The names "Xerces" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org. 5. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation. THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see http://www.apache.org.

Progress Orbix v6.3.6 incorporates the Tomcat 4.0.4 from the Apache Software Foundation (http://www.apache.org). Such Apache Technology is subject to the following terms and conditions: The Apache Software License, Version 1.1. Copyright (c) 1999, 2000 The Apache Software Foundation. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes software developed by the Apache Software Foundation (http://www.apache.org/)." Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear. 4. The names "The Jakarta Project", "Tomcat" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org. 5. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation. THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see http://www.apache.org.

Progress Orbix v6.3.6 incorporates MCPP 2.6.4 from the MCPP Project. Such technology is subject to the following terms and conditions: Copyright (c) 1998, 2002-2007 Kiyoshi Matsui kmatsui@t3.rim.or.jp All rights reserved. This software including the files in this directory is provided under the following license. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;

LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Progress Orbix v6.3.6 incorporates Tcl 8.4.15 from Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, and other parties. Such technology is subject to the following terms and conditions: This software is copyrighted by the Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files. The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply. IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS. GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.

Progress Orbix v6.3.6 incorporates bzip2 1.0.2 from Julian Seward. Such Technology is subject to the following terms and conditions: This program, "bzip2" and associated library "libbzip2", are copyright (C) 1996-2002 Julian R Seward. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required. 3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software. 4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND

FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Julian Seward, Cambridge, UK.jseward@acm.org bzip2/libbzip2 version 1.0.2 of 30 December 2001.

Progress Orbix v6.3.6 incorporates zlib 1.2.3 from Jean-loup Gailly and Mark Adler. Such Technology is subject to the following terms and conditions: License /* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.3, July 18th, 2005 Copyright (C) 1995-2000 Jean-loup Gailly and Mark Adler. This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software. Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions: 1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required. 2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software. 3. This notice may not be removed or altered from any source distribution. Jean-loup Gailly jloup@gzip.org Mark Adler madler@alumni.caltech.edu */

Progress Orbix v6.3.6 incorporates the MinML 1.7 from John Wilson. Such Technology is subject to the following terms and conditions: Copyright (c) 1999, John Wilson (tug@wilson.co.uk). All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice,, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. All advertising materials mentioning features or use of this software must display the following acknowledgement: This product includes software developed by John Wilson. The name of John Wilson may not be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY JOHN WILSON "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JOHN WILSON BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Progress Orbix v6.3.6 incorporates JDOM vbeta9 from JDOM. Such Technology is subject to the following terms and conditions: LICENSE.txt, v 1.10 2003/04/10 08:36:05 jhunter Exp $ Copyright (C) 2000-2003

Jason Hunter & Brett McLaughlin. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions, and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions, and the disclaimer that follows these conditions in the documentation and/or other materials provided with the distribution. 3. The name "JDOM" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact <license AT jdom DOT org>. 4. Products derived from this software may not be called "JDOM", nor may "JDOM" appear in their name, without prior written permission from the JDOM Project Management <pm AT jdom DOT org>. In addition, we request (but do not require) that you include in the end-user documentation provided with the redistribution and/or in the software itself an acknowledgement equivalent to the following: "This product includes software developed by the JDOM Project (http://www.jdom.org/)." Alternatively, the acknowledgment may be graphical using the logos available at http://www.jdom.org/images/logos. THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE JDOM AUTHORS OR THE PROJECT CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This software consists of voluntary contributions made by many individuals on behalf of the JDOM Project and was originally created by Jason Hunter <jhunter AT jdom DOT org> and Brett McLaughlin <brett AT jdom DOT org>. For more information on the JDOM Project, please see <http://www.jdom.org/>.

Progress Orbix v6.3.6 incorporates OpenSSL v1.0.1.c. Such Technology is subject to the following terms and conditions: LICENSE ISSUES ========== The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org. OpenSSL License Copyright (c) 1998-2011 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgment:

"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)"

4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org.

5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.

6. Redistributions of any form whatsoever must retain the following acknowledgment:

"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

Original SSLeay License ---------- Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com) All rights reserved.

This package is an SSL implementation written by Eric Young (eay@cryptsoft.com).

The implementation was written so as to conform with Netscapes SSL.

This library is free for commercial and non-commercial use as long as the following conditions are aheared to. The following conditions apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson (tjh@cryptsoft.com).

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed.

If this package is used in a product, Eric Young should be given attribution as the author of the parts of the library used.

This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

"This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)"

The word 'cryptographic' can be left out if the rouines from the library being used are not cryptographic related :-).

4. If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an acknowledgement:

"This product includes software written by Tim Hudson (tjh@cryptsoft.com)" THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The licence and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution licence [including the GNU Public Licence.]

Progress Orbix v6.3.6 incorporates PCRE v7.8 from the PCRE Project. Such Technology is subject to the following terms and conditions:

PCRE LICENCE ------------ PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. Release 7 of PCRE is distributed under the terms of the "BSD"licence, as specified below. The documentation for PCRE, supplied in the "doc" directory, is distributed under the same terms as the software itself. The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS --------------------------- Written by: Philip Hazel

Email local part: ph10 Email domain: cam.ac.uk University of Cambridge Computing Service,

Cambridge, England. Copyright (c) 1997-2008 University of Cambridge All rights reserved.

THE C++ WRAPPER FUNCTIONS ------------------------- Contributed by: Google Inc. Copyright (c) 2007-2008, Google Inc. All rights reserved.

THE "BSD" LICENCE ----------------- Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of the University of Cambridge nor the name of Google Inc. nor the names of their contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Progress Orbix v6.3.6 incorporates IDL Compiler Front End 1 from Sun Microsystems, Inc. Copyright 1992, 1993, 1994 Sun Microsystems, Inc. Printed in the United States of America. All Rights Reserved. Such technology is subject to the following terms and conditions: This product is protected by copyright and distributed under the following license restricting its use. The Interface Definition Language Compiler Front End (CFE) is made available for your use provided that you include this license and copyright notice on all media and documentation and the software program in which this product is incorporated in whole or part. You may copy and extend functionality (but may not remove functionality) of the Interface Definition Language CFE without charge, but you are not authorized to license or distribute it to anyone else except as part of a product or program developed by you or with the express written consent of Sun Microsystems, Inc. ("Sun"). The names of Sun Microsystems, Inc. and any of its subsidiaries or affiliates may not be used in advertising or publicity pertaining to distribution of Interface Definition Language CFE as permitted herein. This license is effective until terminated by Sun for failure to comply with this license. Upon termination, you shall destroy or return all code and documentation for the Interface Definition Language CFE. INTERFACE DEFINITION LANGUAGE CFE IS PROVIDED AS IS WITH NO WARRANTIES OF ANY KIND INCLUDING THE WARRANTIES OF DESIGN, MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR ARISING FROM A COURSE OF DEALING, USAGE OR TRADE PRACTICE. INTERFACE DEFINITION LANGUAGE CFE IS PROVIDED WITH NO SUPPORT AND WITHOUT ANY OBLIGATION ON THE PART OF Sun OR ANY OF ITS SUBSIDIARIES OR AFFILIATES TO ASSIST IN ITS USE, CORRECTION, MODIFICATION OR ENHANCEMENT. SUN OR ANY OF ITS SUBSIDIARIES OR AFFILIATES SHALL HAVE NO LIABILITY WITH RESPECT TO THE INFRINGEMENT OF COPYRIGHTS, TRADE SECRETS OR ANY PATENTS BY INTERFACE DEFINITION LANGUAGE CFE OR ANY PART THEREOF. IN NO EVENT WILL SUN OR ANY OF ITS SUBSIDIARIES OR AFFILIATES BE LIABLE FOR ANY LOST REVENUE OR PROFITS OR OTHER SPECIAL, INDIRECT AND CONSEQUENTIAL DAMAGES, EVEN IF SUN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Use, duplication, or disclosure by the government 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 and FAR 52.227-19. Sun, Sun Microsystems and the Sun logo are trademarks or registered trademarks of Sun Microsystems, Inc. SunSoft, Inc. 2550 Garcia Avenue, Mountain View, California 94043 NOTE: SunOS, SunSoft, Sun, Solaris, Sun Microsystems or the Sun logo are trademarks or registered trademarks of Sun Microsystems, Inc.

Progress Orbix v6.3.6 incorporates LibXML2 2.4.24 from Daniel Veillard. Such Technology is subject to the following terms and conditions: Except where otherwise noted in the source code (trio files, hash.c and list.c) covered by a similar license but with different Copyright notices: Copyright (C) 1998-2002 Daniel Veillard. All Rights Reserved. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE DANIEL VEILLARD BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. Except as contained in this notice, the name of Daniel Veillard shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from him.

=== trio.c, trio.h: Copyright (C) 1998 Bjorn Reese and Daniel Stenberg. Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER. ==== triop.h: Copyright (C) 2000 Bjorn Reese and Daniel Stenberg. Permission to use, copy, modify, and distribute this software for any purpose with or without

fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies. THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER.

==== hash.c: Copyright (C) 2000 Bjorn Reese and Daniel Veillard. Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies. THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER.

===== list.c: Copyright (C) 2000 Gary Pennington and Daniel Veillard. Permission

to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies. THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER. ===

triodef.h, trionan.c, trionan.h: Copyright (C) 2001 Bjorn Reese Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies. THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER.

==== triostr.c, triostr.h: Copyright (C) 2001 Bjorn Reese and Daniel Stenberg.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies. THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER.

Progress Orbix v6.3.6 incorporates ICU library v4.8.1.1 from IBM. Such Technology is subject to the following terms and conditions: ICU License - ICU 1.8.1 and later COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2011 International Business Machines Corporation and others All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder. All trademarks and registered trademarks mentioned herein are the property of their respective owners.

Contents

Chapter 1 Installation Prerequisites **1**
- **Before You Begin** **2**
- **Operating Requirements** **3**
- **Disk Space Requirements** **4**

Chapter 2 Installing Orbix **7**
- **Launching the Installer** **8**
- **Installing with the GUI** **11**
- **Installing Silently** **15**
- **Installing Service Packs** **18**
- **Configuring your Environment** **21**
- **Verifying the Installation** **24**
- **Troubleshooting** **27**
- **Further Information** **28**

Chapter 3 Uninstalling Orbix **29**
- **Uninstalling on Windows** **30**
- **Uninstalling on UNIX** **31**

CHAPTER 1

Installation Prerequisites

Before you install Orbix, check the system requirements, and familiarize yourself with the steps involved in installing the product.

In this chapter

This chapter contains the following sections:

Before You Begin	page 2
Operating Requirements	page 3
Disk Space Requirements	page 4

Before You Begin

See the Release Notes

Before installing, visit the documentation web page at: http://communities.progress.com/pcom/docs/DOC-105215, and read the *Release Notes* to check for updates to this *Installation Guide*.

OS/compiler patch levels

Customers can use the stated minimum base levels for OS/compiler vendor patches that work with Orbix. It is the usual practice of the OS/compiler vendors that later patches are binary compatible with earlier patches.

If for any reason you need to use higher patch levels, please confirm with the OS/compiler vendor that the patches are fully backward compatible with the set required by the Orbix product.

Migration

For detailed information on migrating from Orbix Application Server Platform 6.0, 5.1, 5.0, Orbix 2000, and Orbix 3.3 to Orbix 6.3, please refer to the migration guides on the documentation web page at: http://communities.progress.com/pcom/docs/DOC-105215

For details on migrating from previous versions of Orbix 6.3, see the *Release Notes*.

Windows compiler names

Table 1 shows the translation between Microsoft Windows VC and Visual Studio compiler names used in this guide. It also shows the version output by Microsoft C/C++ Compiler Driver (`cl.exe`).

Table 1: *Microsoft VC and Visual Studio Names*

VC Name	Visual Studio Edition	Version Output by cl.exe
VC9	Visual Studio 2008	15.x.x
VC10	Visual Studio 2010	16.x.x

Operating Requirements

Prerequisites

For the latest information on supported platforms and compilers, see the Orbix Supported Platforms page.

Java

The following issues apply to Java:

- If you want to use the IONA Administrator Web Console, you must have a JDK installed—a JRE is not sufficient.

Windows

The following Windows System32 Visual C++ Runtime DLLs are required by the Orbix runtime:

- `msvcr90.dll`
- `msvcp90.dll`
- `msvcr100.dll`
- `msvcp100.dll`

These DLLs are available for download from Microsoft.

Disk Space Requirements

Disk space

Table 2 lists the approximate amount of disk space (in MB) required to install Orbix 6.3.

Table 2: *Disk Space Requirements*

Orbix Installer	Orbix Standard Runtime (32-bit)	Orbix Standard Runtime (64-bit)	Orbix Standard Development & Runtime	Orbix Enterprise Runtime (32-bit)	Orbix Enterprise Runtime (64-bit)	Orbix Enterprise Development & Runtime
AIX (32-bit)	251	-	323	251	-	323
AIX (64-bit)	-	322	391	-	322	391
HP-UX (Itanium)	410	658	851	410	658	851
HP-UX (PA-RISC)	485	-	852	485	-	852
Linux AS 4 (gcc 34)	152	270	318	152	270	318
Solaris (SPARC)	174	302	374	174	302	374
Solaris 10 (x86, x64)	178	340	414	178	340	414
Windows 32-bit (VC9)	112	-	174	112	-	174
Windows 64-bit (VC8)	-	133	194	-	133	194
Windows 64-bit (VC9)	-	117	177	-	117	177

Table 2: *Disk Space Requirements*

Orbix Installer	Orbix Standard Runtime (32-bit)	Orbix Standard Runtime (64-bit)	Orbix Standard Development & Runtime	Orbix Enterprise Runtime (32-bit)	Orbix Enterprise Runtime (64-bit)	Orbix Enterprise Development & Runtime
Windows 32-bit (VC10)	112	-	170	113	-	170
Windows 64-bit (VC10)	-	110	169	-	110	169

Note: You also need an extra 10 MB for temporary work space in `%TEMP%` on Windows, and an extra 5 MB in `/tmp` on UNIX.

If the required space is not available on `/tmp`, you can set a different partition for use by InstallAnywhere by setting the environment variable `IATEMPDIR` to point to this partition, for example: `IATEMPDIR=/local2;export IATEMPDIR`.

CHAPTER 2

Installing Orbix

Before you install Orbix 6.3, check the system requirements and familiarize yourself with the steps involved in installing the product.

In this chapter

This chapter contains the following sections:

Launching the Installer	page 8
Installing with the GUI	page 11
Installing Silently	page 15
Installing Service Packs	page 18
Configuring your Environment	page 21
Verifying the Installation	page 24
Troubleshooting	page 27
Further Information	page 28

Launching the Installer

Overview

This section explains how to launch the Orbix installer. It includes the following sections:

- Obtain the installer for your platform
- Before running the installer
- Running the installer
- Installing on UNIX
- Installation directory
- Screen resolution

Obtain the installer for your platform

Ensure that you have the appropriate Orbix installer for your platform. Table 3 shows the installer file names for each supported platform.

Table 3: *Orbix 6.3.6 Installer Files*

Platform	Orbix installer
Orbix 6.3.6 for AIX (32-bit)	`PROGRESS_ORBIX_6.3.6_AIX_32.tar.gz`
Orbix 6.3.6 for AIX (64-bit)	`PROGRESS_ORBIX_6.3.6_AIX_64.tar.gz`
Orbix 6.3.6 for HP-UX PA-RISC	`PROGRESS_ORBIX_6.3.6_HPUX.tar.gz`
Orbix 6.3.6 for HP-UX Itanium	`PROGRESS_ORBIX_6.3.6_HPUX_64_IA.tar.gz`
Orbix 6.3.6 for Red Hat Enterprise Linux	`PROGRESS_ORBIX_6.3.6_LNX.tar.gz`
Orbix 6.3.6 for Windows (VC9 32-bit)	`PROGRESS_ORBIX_6.3.6_WIN_32_VC9.exe`
Orbix 6.3.6 for Windows (VC10 32-bit)	`PROGRESS_ORBIX_6.3.6_WIN_32_VC10.exe`
Orbix 6.3.6 for Windows (VC9 64-bit)	`PROGRESS_ORBIX_6.3.6_WIN_64_VC9.exe`
Orbix 6.3.6 for Windows (VC10 64-bit)	`PROGRESS_ORBIX_6.3.6_WIN_64_VC10.exe`
Orbix 6.3.6 for Solaris SPARC	`PROGRESS_ORBIX_6.3.6_SOL.tar.gz`
Orbix 6.3.6 for Solaris x86	`PROGRESS_ORBIX_6.3.6_SOL_X86.tar.gz`

You can either download the Orbix installer, or install from a DVD. Contact technical support for details.

For full details of supported platforms and compilers, see "Operating Requirements" on page 3.

Before running the installer

For existing Orbix installations, please note the following:

- Existing installations should be backed up prior to upgrading in case of catastrophic failure (power, disk, and so on) during Orbix 6.3.6 installation.
- The Orbix 6.3.6 installer should be pointed at your existing Orbix 6.3.x directory and will automatically overwrite the existing version.

For more details on upgrading from a previous Orbix 6.3 version, see "Installing Service Packs" on page 18.

Running the installer

To run the Orbix installer file, complete the following steps:

1. Extract the installer file into a temporary directory (for example, \temp on Windows, or /tmp on UNIX).
   i. On Windows, double-click the self-extracting executable installer file, select the temporary directory in which you want to extract the files, and then click Unzip.
   ii. On UNIX, gunzip and untar the installer tarball file.
2. Run `asp.exe` or `asp` to launch InstallAnywhere.
3. Follow the instructions in "Installing with the GUI" on page 11.

Installing on UNIX

The following apply to UNIX operating systems:

- The installer is a Java application that can be run in GUI or console mode. By default, the installer runs in console mode. To run the installer in GUI mode, run the `asp` script as follows:

  ```
  ./asp -i gui
  ```

- If you are installing the product from a location other than the install DVD, copy the following items from the DVD to the same directory level:
  - The installer binary (`asp`) for your operating system, which is located in `/dvd`.
  - The channels directory for your operating system, which is located in `/dvd/channels`.
  - The following files: `channels.list`, `install.xml`, `installer-options.xml`, `installer-platforms.xml`, `install.properties`, `ASP-6.3.xpd`, and the `/images` directory for your operating system, which is located in `/dvd`.

  Note: The directory structure of the DVD must be preserved when copying the files. If it is not, then the installer fails.

Installation directory

When entering the pathname for your Orbix 6.3 installation, be sure to enter an absolute pathname, without wildcards. Do not use the ~ character in a UNIX pathname.

Note: Spaces in directory paths are supported on Windows only. Spaces are not supported on UNIX platforms.

WARNING: No part of Orbix should be installed on an NFS-mounted file system. All Orbix services should be run with local persistent stores.

Screen resolution

To use the Orbix 6.3 GUI, you should set your screen color depth to at least 256 colors.

Installing with the GUI

Overview

To install Orbix 6.3 on your system, run through the following screens.

Introduction

When the installer starts, an introduction screen displays information about the product.

Click **Next** to proceed.

License Agreement

When you have read through the License Agreement, select the **I accept the terms of the License Agreement** radio button, and click **Next** to proceed.

Choose Install Folder

Choose an install folder for Orbix 6.3 as follows:

Windows

The default install path is:

```
C:\Program Files\Progress
```

Note: If you are installing a 32-bit version of Orbix on Windows 64-bit, you must change the install path to `C:\Program Files (x86)\...`. On Windows 64-bit, all 32-bit applications must use this path. 64-bit versions of Orbix can use `C:\Program Files\...`.

The following table shows the recommended install paths:

	Orbix 32-bit	Orbix 64-bit
Install Path on Win64	`C:\Program Files (x86)\...`	`C:\Program Files\...`
Install Path on Win32	`C:\Program Files\...`	Not supported

UNIX

The default install path is:

```
/opt/progress/
```

Note: You must have root privileges to install to the default location on UNIX.

Click **Next** to proceed.

Choose Shortcut Location (Windows Only)

Choose a location where you want to create the Orbix 6.3 product icons.

Click **Next** to proceed.

Choose Product Edition

Choose the product edition for which you have a license. The options are:

- Standard
- Enterprise

Click **Next** to proceed.

Development and Runtime Environment

With both Standard and Enterprise, you are given the following installation options:

- **Development and Runtime** installs all Orbix 6.3 development and runtime components.
- **Runtime Only** installs Orbix 6.3 runtime components only.
- **Customize Runtime** installs Orbix 6.3 runtime components that you select.

Choose one and click **Next** to proceed.

Custom Runtime Environment Options

If you select the Customize Runtime option:

- For Standard choose the runtime environment you want to install along with the standard services you want to run.
- For Enterprise choose the runtime environment you want to install along with the standard and enterprise services you want to run.

Click **Next** to proceed.

Note: This option is deprecated and will be removed in the next release.

Choose Java virtual machine

Under Environment Settings, you are also asked to choose a Java virtual machine for use by Orbix.

Choose one and click **Next** to proceed.

Set JAVA_HOME

In addition, if `JAVA_HOME` is not set, you are asked if you want to set it. `JAVA_HOME` is required for the **Orbix Configuration** tool, `itconfigure`, to run.

If you choose not to set `JAVA_HOME`, you must set it manually later.

Click **Next** to proceed.

Environment Settings

The following option only applies to Standard and Enterprise on Windows.

You are prompted to set environment variables and must choose one of the following options:

- Set the variables for all users.
- Set the variables only for the current user.
- I will set them manually later.

Note: You must have administrator privileges to set variables for all users on Windows.

Click **Next** to proceed.

Pre-Installation Summary

Review the Pre-Installation Summary

- If you are satisfied with the details, click **Install**.
- If you want to change any of the details, click **Previous**.

After installing

A browser is required when the installation completes. If the installer cannot find one it times out eventually with an error. However, the installation has completed. When the installation completes and a browser is available, a Welcome Page is automatically launched. This page contains links to the Release Notes, Tutorials and Demos, and Documentation to help you get up and running quickly. To view the Welcome Page in the future, open the `index.html` file located in the *`OrbixInstallDir`*`\asp\6.3\doc` directory in a browser.

Documentation

Orbix 6.3 documentation is available on the Orbix documentation web page at: http://communities.progress.com/pcom/docs/DOC-105215

The online documentation is frequently updated, so check here for the latest version of the documentation.

Installing Silently

Overview

Silent installations are installations that run without user interaction. The main advantage of this type of installation is that it allows you to automate the process of installing on more than one machine. In a normal (non-silent) installation, the installer receives necessary user input in the form of responses to questions posed in a GUI or on a console. In the case of a silent installation, you must provide this information in an `installer.properties` file. This section outlines how to install Orbix 6.3 silently and provides you with a sample `installer.properties` file. It is divided into the following subsections:

- Sample installer.properties file
- Installing silently on UNIX
- Installing silently on Windows

Sample installer.properties file

To install silently on either UNIX or Windows, you must create an `installer.properties` file as follows:

```
USER_INSTALL_DIR=$/$opt$/$progress
SHORTCUT_NAME=Progress Orbix
CHOSEN_INSTALL_SET=Enterprise Edition
CHOSEN_ENV=Development and Runtime
JDK_HOME=$/$usr$/$bin$/$jdk1.5
SET_ENV_VARS=I will set them manually later
INSTALLER_UI=silent
```

The contents of the `installer.properties` file can be explained as follows:

`USER_INSTALL_DIR`	Specifies the directory into which you want to install Orbix. The directory separator must be escaped and should be specified by using `$` and `/`. This is a prerequisite of InstallAnywhere.
`SHORTCUT_NAME`	Specifies the shortcut name that will be used for Orbix. This must be set to: `Progress Orbix`.
`CHOSEN_INSTALL_SET`	Specifies either: • `Standard Edition`; or • `Enterprise Edition`.

CHOSEN_ENV	Specifies either: • Development and Runtime; or • Runtime Only.
JDK_HOME	Specifies the JDK that you want to use with Orbix.
SET_ENV_VARS	Specifies that environment variables will be set later. This must be set to: I will set them manually later
INSTALLER_UI	Specifies a silent installation. This must be set to: silent

Note: The values shown for SHORTCUT_NAME, SET_ENV_VARS, and INSTALLER_UI must appear exactly as shown. You set the values of USER_INSTALL_DIR, CHOSEN_INSTALL_SET, CHOSEN_ENV and JDK_HOME.

Installing silently on UNIX

To install Orbix 6.3 silently on UNIX, complete the following steps:

1. Obtain the Orbix installer file (see "Obtain the installer for your platform" on page 8).
2. Extract the tar file into a temporary directory; for example, /tmp.
3. Create an installer.properties file as described in "Sample installer.properties file" on page 15.
4. If you save the installer.properties file in the same directory as the asp shell script, run the following command from that directory:

   ```
   asp -i silent
   ```
5. If you save the installer.properties file in a different location to the asp shell script, run the following command from that directory:

   ```
   asp -i silent -f "LocationOfFile"installer.properties
   ```

If you experience any problems during the installation you can view the log files located in the *OrbixInstallDir*/registory/logs directory of your installation or see "Troubleshooting" on page 27.

Installing silently on Windows

To install Orbix 6.3 silently on Windows, complete the following steps:

1. Obtain the Orbix installer file (see "Obtain the installer for your platform" on page 8).
2. Extract the zip file to a temporary directory; for example, `\temp`.
3. Create an `installer.properties` file as described in "Sample installer.properties file" on page 15.
4. If you save the `installer.properties` file in the same directory as the `asp.exe` file, run the following command from that directory:

   ```
   asp.exe -i silent
   ```
5. If you save the `installer.properties` file in a different location to the `asp.exe` file.

   ```
   asp.exe -i silent –f "locationOfFile"installer.properties
   ```

If you experience any problems during the installation you can view the log files located in the *`OrbixInstallDir`*`\registry\logs` directory of your installation or see "Troubleshooting" on page 27.

Installing Service Packs

Overview

Orbix 6.3 service packs are released periodically. These service packs provide bug fixes and enhancements for existing installations. This section includes the following topics:

- Installation instructions with an existing Orbix 6.3 installation
- Installation instructions without an existing Orbix 6.3 installation
- Rolling back a service pack installation

Installation instructions with an existing Orbix 6.3 installation

To install an Orbix service pack with an existing Orbix 6.3 installation, complete the following steps:

Step	Action
1	Download the service pack .tar.gz file or .exe file that corresponds to your operating system from the Progress ESD site.
2	Extract the installer file into a temporary directory (for example, \temp on Windows, or /tmp on UNIX). • On Windows, double click the self-extracting executable installer file, select the temporary directory to extract to, and then click Unzip. • On UNIX, gunzip and untar the installer tarball file. **Note:** This `temp` directory should not be part of the existing Orbix 6.3 installation directory structure.
3	When updating an existing installation, the installer first backs up your existing Orbix installation into a rollback directory before installing Orbix 6.3.6. The rollback directory is placed within the registry subdirectory: *`OrbixInstallDir\registry\rollback<NUMERIC_ID>`* To update an existing installation, `run asp.exe` or `asp` to launch the Orbix installer and follow the instructions in "Installing with the GUI" on page 11 or "Installing Silently" on page 15.

Installation instructions without an existing Orbix 6.3 installation

If you do not already have Orbix 6.3 installed on your machine, the service pack installer will install it for you. You do not have to download and install Orbix 6.3 before installing the service pack.

To install Orbix 6.3 and the service pack you require, complete the following steps:

Step	Action
1	Download the service pack .tar.gz file or .exe file that corresponds to your operating system from the Progress ESD site.
2	Extract the installer file into a temporary directory (for example, \temp on Windows, or /tmp on UNIX). • On Windows, double click the self-extracting executable installer file, select the temporary directory to extract to, and then click Unzip. • On UNIX, gunzip and untar the installer tarball file.
3	Run `asp.exe` or `asp` to launch InstallAnywhere. Follow the instructions in "Installing with the GUI" on page 11.

Note: If, however, you are installing Orbix 6.3 and Orbix 6.3 Service Pack 1 in the same directory as Artix, you must install Orbix 6.3 first, followed by the service pack.

Rolling back a service pack installation

To roll back your installation to the Orbix installation that existed on your machine prior to installing this service pack, do the following steps:

Step	Action
1	Remove the following directories from the *OrbixInstallDir* directory: • On Windows, remove the asp, bin, lib, and registry directories. • On UNIX, remove the asp, shlib, lib, and registry directories.

Step	Action
2	Move the contents of the *OrbixInstallDir*`\registry\rollback<`*NUMERIC_ID*`>` to the *OrbixInstallDir*`\` directory.

Configuring your Environment

Overview

To start using Orbix 6.3, you need to configure a domain and set up the environment for Orbix 6.3. This section provides a brief overview of how to use the **Orbix Configuration** tool, `itconfigure`, to do this. It includes the following:

- Orbix 6.3 license
- Using the Orbix Configuration tool

For more detail on configuring your Orbix 6.3 environment, see the Orbix Deployment Guide.

Orbix 6.3 license

You need a valid license file to start using Orbix 6.3. An e-mail with a `licenses.txt` file attached is sent to you when you receive the product. You should copy this `licenses.txt` file to a desired location, and set the environment variable `IT_LICENSE_FILE` to point to the location of your `licenses.txt` file.

Alternatively, launch the **Orbix Configuration** tool and you will be prompted for the location of your license file. For more detail on licensing your Orbix 6.3 environment, see the Orbix Deployment Guide.

Using the Orbix Configuration tool

To configure Orbix 6.3 using the **Orbix Configuration** tool, complete the following steps:

1. Set the environment variable `IT_PRODUCT_DIR` to point to the location where you installed the product.
2. Change directory to the following location:

   Windows

   `OrbixInstallDir``\asp\6.3\bin`

   UNIX

   `OrbixInstallDir``/asp/6.3/bin`
3. Run `itconfigure`. This launches the **Orbix Configuration** tool.

4. If you have not set the environment variable `IT_LICENSE_FILE` before running `itconfigure`, the **Orbix Configuration** tool prompts you for the location where you saved your `licenses.txt` file. Click the **Browse** button and enter the location where you saved your `licenses.txt` file. Then click **OK**. The **Orbix Configuration** tool will install your `license.txt` file into the default license location; that is:

   `OrbixInstallDir``/etc/licenses.txt`.

   If you do not want to install the license file into the default license location, click **Cancel**, and set the environment variable `IT_LICENSE_FILE` to point to the location where your `licenses.txt` file is saved. Then run `itconfigure` again.

5. The **Orbix Configuration** tool prompts you for a unique domain name, a base port number to allocate the TCP/IP ports required by the services, the services you want to run, the communication protocol, as well as the number of replica servers (if any) you want to run.

   Note: When creating a new configuration domain, ensure that your base port number selection does not conflict with other users on your system.

6. When you have worked through all the screens, the **Orbix Configuration** tool creates a domain configuration file and domain environment scripts. Change directory to the location in which these scripts are created; that is:

   Windows

   `OrbixInstallDir``\etc\bin`

   UNIX

   Your domain configuration scripts are created in one of the following locations, in this order:

   i. `etc/opt/progress/bin` if it is writable.

   ii. *`OrbixInstallDir`*`/etc/bin` if it is writable.

   iii. `$HOME/etc/bin`

7. Set the environment variables necessary for Orbix 6.3 as follows:

   Windows

   Run the following environment script:

   *domain-name*_env.bat

   UNIX

   Source the following environment script:

   *domain-name*_env

8. Start the Orbix services by running the start_*domain-name*_services command, which is located in *OrbixInstallDir*/etc/bin/.

Verifying the Installation

Code examples

Orbix 6.3 is installed with a number of code examples that demonstrate the use of specific features of the product. Each code example comes with documentation that explains what the code example does and how to run it. This documentation can be accessed in the `index.html` file in the `demos` directory of your installation.

Testing a CORBA development installation

To ensure that your Orbix 6.3 development installation is fully operational, run the simple demo located in the *`OrbixInstallDir`*`/asp/6.3/demos/corba/orb` directory. Further details on running the simple demo can be found in the `README_CXX.txt` and `README_JAVA.txt` files in the *`OrbixInstallDir`*`/asp/6.3/demos/corba/orb` directory.

Running the CORBA C++ Simple demo

To run the CORBA C++ simple demo, complete the following steps:

1. In a command prompt (with the Orbix 6.3 environment set), change directory to the `demos/corba/orb/simple` directory as follows:

OS	Type this:
UNIX	`cd` *`OrbixInstallDir`*`/asp/6.3/demos/corba/orb/simple`
Windows	`cd` *`OrbixInstallDir`*`\asp\6.3\demos\corba\orb\simple`

2. Build the C++ programs:

OS	Type this:
UNIX	`make -e`
Windows	`nmake -e`

Note: The makefile assumes the default installation path. If you install the product elsewhere, you need to set the `IT_PRODUCT_DIR` environment variable to point to your installation, then use `make -e` (or its equivalent) to override make variables with the corresponding environment variables.

3. Start the server:

```
cd cxx_server
server
```

4. Open another command prompt and start the client:

```
cd cxx_client
client
```

5. The client should return `Done` and then stop. The server must be stopped manually.

Running the CORBA Java Simple demo

To run the CORBA Java simple demo, complete the following steps:

1. Set `JAVA_HOME` to point to your JDK and set `JAVA_HOME/bin` in your `PATH`.
2. In a command prompt (with the Orbix 6.3 environment set), change directory to the `demos\corba\orb\simple` directory as follows:

OS	Type this:
UNIX	`cd` *`OrbixInstallDir`*`/asp/6.3/demos/corba/orb/simple`
Windows	`cd` *`OrbixInstallDir`*`\asp\6.3\demos\corba\orb\simple`

3. Build the Java programs as follows:

```
itant
```

> **Note:** Add the following to your Java command line:
> `-Djava.endorsed.dirs="<IT_PRODUCT_DIR>\lib\art\omg\1.3"`

4. Start the server as follows:

Windows

```
java -classpath .\java\classes;"%CLASSPATH%" simple.Server
```

UNIX

```
java -classpath ./java/classes:"$CLASSPATH" simple.Server
```

5. Open another command prompt and start the client as follows:

   Windows

   ```
   java -classpath .\java\classes;"%CLASSPATH%" simple.Client
   ```

   UNIX

   ```
   java -classpath ./java/classes:"$CLASSPATH" simple.Client
   ```

6. The client should return `Done` and then stop. The server must be stopped manually.

The Orbix 6.3 ORB classes are used instead of the Sun classes, by setting the following properties in the demo code:

```
org.omg.CORBA.ORBClass=com.iona.corba.art.artimpl.ORBImpl
org.omg.CORBA.ORBSingletonClass=com.iona.corba.art.artimpl.ORBSi
   ngleton
```

Troubleshooting

Debug window

To view debug output from an installer:

Windows

Hold down the CTRL key immediately after launching the installer until a console window appears.

UNIX

1. Change directory to the directory where you copied the `asp` installer.
2. Run the following command:

   ```
   touch ia_debug
   ```

Further Information

Documentation web site	Orbix 6.3 documentation is available to browse and to download on the documentation web page at: http://communities.progress.com/pcom/docs/DOC-105215 This documentation is frequently updated, so check here for the latest version of the documentation.
Release Notes	See the Release Notes at: http://communities.progress.com/pcom/docs/DOC-105215
Internationalization	If you plan to deploy a CORBA ORB in C or C++ to handle characters other than Latin-1 (English, French, German, and other Western European languages), then some further configuration is required. Please refer to the Orbix Internationalization Guide for more information.
Support	Contact Orbix technical support at: http://web.progress.com/orbix/orbix-support.html

CHAPTER 3

Uninstalling Orbix

Orbix comes with an automatic uninstaller tool. Before uninstalling Orbix 6.3, you should remove any domains created.

In this chapter

This chapter contains the following sections:

Uninstalling on Windows	page 30
Uninstalling on UNIX	page 31

Uninstalling on Windows

Overview

To uninstall Orbix 6.3 on Windows:

1. Go to Select **Start | Settings | Control Panel | Add/Remove Programs**
2. Select Orbix 6.3.

   Alternatively, from a command prompt, run the following:

   ```
   OrbixInstallDir\asp\6.3\etc\installer\uninstaller\Orbix
   6.3.exe
   ```

   This may leave some files behind, which must be removed manually.
3. Remove any environment variables that might still be set, such as `IT_LICENSE_FILE`, `IT_PRODUCT_DIR`, `IT_CONFIG_DIR`, and any CORBA entries in your `PATH`.

   For details of all CORBA environment variables, see the Orbix Administrator's Guide

Uninstalling on UNIX

Overview

To uninstall Orbix 6.3 on UNIX:

1. Run the uninstall script:

   ```
   OrbixInstallDir/asp/6.3/etc/installer/uninstaller/uninstall
   ```

2. Remove the directory manually:

   `OrbixInstallDir/asp/6.3/etc/installer/uninstaller/`

   The uninstaller may leave some files behind, which must be removed manually.

3. Remove:

   - Any environment variables that you set, such as `IT_LICENSE_FILE`, `IT_PRODUCT_DIR`, `IT_CONFIG_DIR`,
   - Any CORBA entries in your `PATH` and `CLASSPATH` and associated library variables (`SHLIB_PATH`, `LD_LIBRARY_PATH`, and so on).
   - Any configuration domains, especially those with “start on boot” services.

   For details of all CORBA environment variables, see the Orbix Administrator’s Guide.