

Wind River® Intelligent Device Platform XT

RELEASE NOTES

2.0

EDITION 8

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Corporate Headquarters

Wind River
500 Wind River Way
Alameda, CA 94501-1153
U.S.A.
Toll free (U.S.A.): 800-545-WIND
Telephone: 510-748-4100
Facsimile: 510-749-2010

For additional contact information, see the Wind River Web site:

www.windriver.com

For information on how to contact Customer Support, see:

www.windriver.com/support

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1

Overview

Wind River Intelligent Device Platform XT 2.0 (IDP XT) is a product that installs on top of Wind River Linux 5.0.1 RCPL 13 or later. See your Wind River representative for information on Wind River Intelligent Device Platform.

IDP XT supports Intel Architecture boards.

Product Introduction

IDP XT is a complete software development environment for jump-starting machine-to-machine (M2M) development that addresses concerns of connectivity, management, and security.

Security

Provides powerful and customizable security capabilities for protecting devices and their data.

- McAfee embedded products (McAfee Embedded Control)
- Secure key management (OpenSSL, grsecurity)
- Secure boot for Cross Hill, Clanton Hill, and Advantech UTX-3115
- Verified boot
- Encrypted application storage
- Secure software repository

Connectivity

Simplifies device connectivity for wireless and wired networks, speeding time-to-market and reducing expense for device manufacturers.

- 3G

Supported modems:

Manufacturer	Production	ManufacturerID	ProductID	ConnectionType	pppdDevice	stateDevice
Telit	HE910	1bc7	0021	WWAN	ttyACM0	ttyACM3



NOTE: A SIM card slot is required.

- Supported Wi-fi

Wi-fi Module	Capability	Tested Boards
Intel Dual Band Wireless-AC 7260 (Bluetooth capability: 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE))	AP	Advantech UTX 3115 Clanton Hill Cross Hill Galileo
	Client	Advantech UTX 3115 Clanton Hill Cross Hill Galileo
	Bluetooth: GAP/SDAP/ GOEP/HID/A2DP/AVRCP	Advantech UTX 3115 Clanton Hill Cross Hill Galileo
AzureWave AW-NE238H 802.11b/g/n RTL8188EE	AP	Clanton Hill Cross Hill
	Client	Clanton Hill Cross Hill
	Ad-Hoc	Clanton Hill Cross Hill
AzureWave AW-NB159H 802.11b/g/n RTL8723BE	AP	Clanton Hill Cross Hill
	Client	Clanton Hill Cross Hill
	Ad-Hoc	Clanton Hill Cross Hill
	Bluetooth: GAP/SDAP/ GOEP/HID/A2DP/AVRCP	Clanton Hill Cross Hill

- BlueZ Bluetooth stack
- Exigen Zigbee stack
- L2TP VPN
- MQTT Client
- Multiwan
- strongSwan VPN
- Wind River OPC for IDP

Management

Delivers pre-integrated and supported management software from best-in-class independent software vendors (ISVs), making it much easier to manage remote connected devices.

- Webif
- LuCI
- TR-069
- OMA-DM

Application Development

Provides key tools required by application software developers.

- Exegin Zigbee Stack
- Wind River OpenJDK
- OSGi development with mBS Smart Home SDK
- Sqlite3 Database
- MQTT message server
- Lua scripting language
- OMA-DM

BSP Support

Supports the following Intel Architecture BSPs:

- intel-quark
- intel-atom-baytrail

For more information on the Wind River Intelligent Device Platform, see the *Wind River Intelligent Device Platform XT Programmer's Guide*.

Installation and Licensing

For information on installing this product, see the Wind River installation guides.



NOTE: When installing IDP XT, accept all updates through either the Installer or Maintenance Tool during the installation process.

For information on configuring product licenses for IDP XT, see the Wind River product installation and licensing guides. There are accessible from the following URL:

<http://www.windriver.com/licensing/documents>

Configuration

Configuration information for all products included in this release is available in the *Wind River Intelligent Device Platform XT Programmer's Guide, 2.0* installed with your product.

Documentation

The following documents are available in HTML and PDF in your product installation:

- *Wind River Intelligent Device Platform XT Programmer's Guide*
- *Wind River Intelligent Device Platform XT Release Notes* (this document)
- *Wind River Intelligent Device Platform XT Security Guide*

The following documents are available in PDF in your product installation:

- *Wind River OPC for IDP Programmer's Guide*
- *McAfee Embedded Control User Guide*
- *McAfee Application Control Product Guide*
- *McAfee Application Control Command Line Interface Guide*
- *McAfee Change Control Product Guide*
- *McAfee Change Control Command Line Interface Guide*

All documents are also available in HTML and PDF on the Wind River Knowledge Library at:

<http://knowledge.windriver.com>

Log in and select **Products > Internet of Things > Intelligent Device Platform XT > Intelligent Device Platform XT 2.0**.

For additional customer support-related information, see [Customer Services](#).

 **NOTE:** This documentation will be updated as necessary after release. Confirm that you are using the latest version of the documents.

Migration and Backward Compatibility

Platform projects created in the previous version are not compatible with IDP XT 2.0 because different BSPs are supported. You must recreate your platform projects with the 2.0 release.

Latest Release Information

The latest information on this release can be found in the Wind River Intelligent Device Platform area of the Wind River Online Support Web site:

<http://www.windriver.com/support>

The following site includes links to topics such as known problems, fixed problems, and patches, as well as most Wind River documentation:

<http://knowledge.windriver.com>

 **NOTE:** Wind River strongly recommends that you visit the Knowledge Library before installing or using this product. It may include important software patches or other critical information regarding this release.

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Changes in This Release

Wind River Intelligent Device Platform XT 2.0 contains support for Wind River Linux 5.0.1 and later releases, new BSPs, support for additional boards, and enhancements to secure boot and remote package management.

Enhancements

- The following new BSPs are supported:
 - intel-quark**
 - intel-atom-baytrail**
- The following new boards are supported:
 - Cross Hill
 - Clanton Hill
 - Galileo
 - Advantech UTX-3115
- McAfee Embedded Control is supported.
- Wind River OPC for IDP replaces Wind River OPC and Wind River DCOM (Wind River Linux versions).
- Verified boot is available for Advantech UTX-3115 boards.
- Secure boot is available for Cross Hill, Clanton Hill, and Advantech UTX-3115 boards with hardware support.
- TPM is supported on Cross Hill and Advantech UTX-3115 boards.

Custom Boards

Wind River Intelligent Device Platform XT 2.0 includes unofficial support for the following custom boards (official support will be added later):

- Aaeon aiot-x1000
- BCM BI255-1900J – for more information, see below.
- BCM NET-E3825
- Dell Egeus Gateway BYT N2807
- ECS Tatung GWS-QX – for more information, see below.
- Eurotech ReliaGATE 15-10
- Eurotech ReliaGATE 20-11
- Galileo GEN2

- Gigabyte GB-BXBT-3825 – for more information, see below.
- Gigabyte Scorpion Ridge
- Intel NUC "Forest Canyon"
- Intel NUC "Thin Canyon"
- Nexcom esi-100
- Supermicro cse-e100
- Vantron VT-M2M-BTA-DE

BCM BI255-1900J and Gigabyte GB-BXBT-3825

The BCM BI255-1900J and Gigabyte GB-BXBT-3825 custom boards use the Intel Atom Bay Trail BSP and, except for the following exceptions, share the same feature set as the Advantech UTX-3115 reference board:

- No TPM support

EFI boot is not supported by the custom boards that use the Bay Trail BSP. Use the **deploy.sh** script to deploy the kernel image and root file system, and specify the **-g** option. For example:

```
./deploy.sh -f rootfs.tar.bz2 -g ./grub-0.97 -y -d /dev/sdc
```

For detailed information about using the **deploy.sh** script, see the README file located at:

projDir/layers/wr-idp/wr-idp-devkit/recipes-devtools/deploy-tool/files

To view help at the command line for the **deploy.sh** script, type:

```
deploy.sh --help
```

The BCM BI255-1900J does not support the following:

- UEFI secure boot
- EFI boot (BIOS firmware is shipped with these boards)

ECS Tatung GWS-QX

The ECS Tatung GWS-QX board uses the Intel Quark BSP and shares the same feature set as the Clanton Hill reference board, but it does not support secure boot.

When you build an image for this custom board, add the following option to your configure command:

```
--with-template= feature/odm/gws-qx
```

For more information about Intel Quark-based custom boards, see the following:

projDir/layers/wr-bsps/intel-quark/templates/feature/odm

Secure Shell Daemon (sshd) Not Started by Default

The **ssh** daemon (**sshd**) is no longer started by default in this release of IDP XT—you must now start it on demand. To start, stop, and restart **sshd**, use the following commands:

- **/etc/init.d/sshd start**
- **/etc/init.d/sshd stop**
- **/etc/init.d/sshd restart**

To start **sshd** automatically during system boot, remove the **sshd.override** file and then reboot.

```
# rm -f /etc/init.d/sshd.override
```

Changes to the Open Source Toolkit for SSL/TLS (OpenSSL)

OpenSSL is a cryptography toolkit implementing the Secure Sockets Layer (SSL v2/v3) and Transport Layer Security (TLS v1) network protocols and related cryptography standards required by them. As of this release it is configured with the following security enhancements:

- Support for 40/56 bit keys is deprecated; minimum key length is now 128 bits.
- DES support is disabled.
- Elliptic Curve Diffie-Hellman (ECDH) support is disabled.
- Elliptic Curve Digital Signature Algorithm GF support is disabled.
- MD2 support is disabled.
- TLS v1.1 support is enabled.
- TLS v1.2 support is added.

Demo Certificates and Keys

As the old certificates have expired, this release of IDP XT includes new keys and demo certificates in the **wr-srm** layer. Use these new keys and certificates when you create kernel images to ensure that authentication succeeds during verified boot.

LuCI Support

LuCI is a free, clean, extensible and easily maintainable web user interface for embedded devices. LuCI-0.12 is included in IDP XT 2.0.4 as an optional web configuration interface. Webif is still the default web configuration interface for IDP. To include LuCI and exclude Webif from your project, add the **--with-template=feature/luci** option to your **configure** command.

Internet Explorer 9 and Firefox 35 have been formally validated and are recommended for use with LuCI.



NOTE: Ensure that you allow cookies in your browser. For example, in Internet Explorer, do the following:

- Select **Tools > Internet options**.
- Click **Privacy** and then click **Advanced**.
- Select **Override automatic cookie handling**.
- Under First-party Cookies and Third-party Cookies, choose **Accept**.
- Click **OK** and then click **OK**.

Table 1 **LuCI Page Support**

Menu	Pages
Status	Overview
	Firewall
	Routes
	System Log
	Processes
	Realtime Graphs
System	System

Menu	Pages
	Administration
	Software
	Startup
	Scheduled Tasks
	Time Synchronisation
	Backup/Restore
	Custom Commands
	Reboot
Network	Interfaces
	Wifi
	DHCP and DNS
	Hostnames
	Static Routes
	Firewall
	Diagnostics
	Multi-WAN
Logout	

For more information about LuCI, see the following:

- <http://luci.subsignal.org/trac/wiki/Documentation/CBI>
- <http://luci.subsignal.org/trac/wiki/Documentation/Datatypes>
- <http://luci.subsignal.org/trac/wiki/Documentation/Templates>
- <http://luci.subsignal.org/trac/wiki/Documentation/ModulesHowTo>

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Determining IDP Version Information

Access the installed version information for Wind River Intelligent Device Platform XT. You can determine the version of IDP XT installed on your host machine and target board.

Reading Version Information on Your Host Machine

After you have installed IDP XT on your host machine, version information is stored in `${install_path}/wrlinux-addons/wr-idp/config/VERSION`. To read version information on a host machine, run the following command:

```
$ cat {install_path}/wrlinux-addons/wr-idp/config/VERSION
```

This shows a version string similar to **ID01_15SP_XT_2.0.4**.

Reading Version Information on Your Target Board

To read version information for IDP XT running on your target board, boot the board, log in, and then run the following command:

```
# uname -a
```

This shows a version string similar to **WR-IntelligentDevice 3.4.91-grsec-WR5.0.1.24_standard_IDP-XT_2.0.4**.

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Requirements

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Host Requirements

This section lists the minimum requirements for running Wind River Intelligent Device Platform XT2.0 (IDP XT) where the host and target are separate computers.

The host is the computer on which you do your development work. This section lists the minimum requirements for running IDP XT in the standard configuration.

These system requirements are for IDP XT only; they do not take into consideration any other software you are running on the host computer.

Linux Host Requirements

IDP XT installs with Wind River Linux, 5.0.1.

For detailed information on supported Linux development hosts, see the *WRL5 System requirements - Recommended hosts list, 5.0.1* available from Wind River Online Support.



NOTE: For additional Linux host requirements, see the *Wind River Linux Release Notes, 5.0.1*.

Recommended Linux Hosts for IDP XT

The following recommended development hosts have been tested by Wind River to run Wind River Linux 5.

Distribution	Architecture
Red Hat Enterprise Linux Workstation 5.9	x86 32-bit, x86 64-bit
Red Hat Enterprise Linux Workstation 6.5	x86 32-bit, x86 64-bit
Red Hat Enterprise Linux Workstation 7.0	x86 64-bit
OpenSUSE 12.2	x86 32-bit, x86 64-bit
Novell SUSE Linux Enterprise Desktop 11 SP2	x86 32-bit, x86 64-bit
Fedora 18	x86 32-bit, x86 64-bit
Ubuntu Desktop 12.04	x86 32-bit, x86 64-bit
Ubuntu Desktop 14.04	x86 32-bit, x86 64-bit

Required Development Host Packages

Run the following script to install recommended host libraries and executables:

```
$ installDir/wrlinux-5/scripts/host_package_install.sh --install
```

For additional information about running this script, see the *Wind River Linux Release Notes, 5.0.1*.

Target Requirements

Wind River Intelligent Device Platform XT 2.0 (IDP XT) includes Wind River Linux 5.0.1 and supports several boards.

Supported BSPs

- intel-quark
- intel-atom-baytrail

Supported Boards

- Cross Hill
- Clanton Hill
- Galileo
- Advantech UTX-3115

Available rootfs Choices

- glibc-idp
- glibc-idp-small
- glibc-std

Layers and Features

For a complete list of IDP XT layers and features with the boards that support them, see the *Wind River Intelligent Device Platform XT Programmer's Guide: Configuring IDP Features*.

The following third-party products are included as layers with IDP XT:

wr-mcafee
wr-digi-idigiconnector
wr-exegin-zigbee-ia
wr-prosyst-mbs-smarhome-sdk-ia
wr-wks-oneagent-oma-dm-ia
wr-wks-oneagent-tr069

Additional Information

For a complete list of Linux packages supported by IDP XT, see:

- [Target Packages](#) on page 27
- [Host Packages](#) on page 33

For more information on the Wind River Linux 5.0.1 platform, see the *Wind River Linux Release Notes, 5.0.1*.

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Usage Caveats

This topic describes usage issues that you should be aware of when working with the Wind River Intelligent Device Platform XT.

Quark BSP Supports kgdboc Only

The intel-quark BSP supports **kgdboc** for kernel debugging in Workbench. However, **kdgboe** is not supported.

Using the Recovery Image

The IDP XT installation provides facilities to build and install a recovery image for the following boards:

- Cross Hill
- Clanton Hill
- Galileo
- Advantech UTX-3115

Using the recovery image requires:

1. Obtaining the following minimum-size media:
 - A USB Flash drive of at least 1GB
 - An SSD card or SSD of at least 2GB
2. Configuring a project with **--with-template=feature/recovery**.
3. Building the rootfs and the image and placing them on a USB stick.

4. Booting the target from the recovery image.

For complete instructions, see the *Wind River Intelligent Device Platform XT Programmer's Guide, Building and Booting*.



NOTE: Updating IDP XT 2.0 by installing a new RCPL does not update the recovery image. To include particular fixes in your recovery image, you must create a new recovery image.

1. Edit the **config.log** file to use the new RCPL.
2. Rebuild the project.

```
$ make reconfig
```

3. Build the rootfs and the image and place them on a USB stick.
 4. Boot the target from the recovery image.
-

Including WiFi Cards

To support the Intel Dual Band Wireless-AC 7260 WiFi card, configure a project with the following option:

--with-template=feature/backports

To support the AzureWave AW-NE238H and AzureWave AW-NB159H WiFi cards, configure a project with the following option:

--with-template=feature/realtek

Updating Flash Firmware for Quark Boards

If your Flash firmware version is less than 1.0.0, or if Ethernet does not work with IDP XT 2.0.x software, update the Flash firmware on your board to match the Linux kernel.

To check the version of your Flash firmware, run the following command:

```
cat /sys/firmware/board_data/flash_version
```

For more information, see *Wind River Intelligent Device Platform XT Programmer's Guide, Updating Flash Firmware for Quark Boards*.

Known Problems

This section highlights known problems with Wind River Intelligent Device Platform XT that may have a significant impact on installation and your experience with this product.

Defect numbers, where applicable, are given in parentheses after the description of the issue.

The most current information for this release is available from the Wind River Online Support Web site (see [Latest Release Information](#) on page 8).

Firefox Cannot Open PDFs

Some versions of Firefox cannot open PDFs created by the newest Technical Publications tools. This is a known bug in Firefox; this bug is fixed in Firefox 28.0.

These PDF files also open correctly in Adobe Reader and in Adobe Acrobat.

(IDPCORE-2790)

McAfee Embedded Control Causes Kernel Panic with Baytrail BSP

When you build a rootfs image for the **intel-atom-baytrail** BSP that includes **--with-layer=wr-mcafee** and **CONFIG_PAX_KERNELEXEC** enabled, a kernel panic occurs when you boot the target.

To work around this problem, IDP XT is configured with **CONFIG_PAX_KERNELEXEC** disabled by default.

(IDPCORE-2637)

IDP Build Fails on qemu-native Package on Ubuntu 14.04 32-bit

When building IDP on Ubuntu 14.04 32-bit, the build fails when compiling the **qemu-native** package. To work around this problem, downgrade gcc to version 4.7.

(LIN5-19481)

Workbench Requires Additional Packages on Red Hat Enterprise Linux

For Red Hat Enterprise Linux 6.x 64-bit, install the following packages before running Workbench:

```
xulrunner
xulrunner.i686
webkitgtk.i686
```

For Red Hat Enterprise Linux 7.0 64-bit, install the following packages before running Workbench:

```
xulrunner
xulrunner.i686
webkitgtk.i686
pango-devel
pangox-compat.i686
```

(IDPCORE-3357)

Workbench User-Mode Target Connection Not Available with wr-srm Layer

The Workbench user-mode target connection dynamically creates a shell script at run time. This shell is not signed, so it cannot be executed on an SRM-enabled system.

To use the Workbench user-mode target connection, build your platform project using **--without-layer=wr-srm**, which excludes the SRM layer from the rootfs.

(IDPCORE-2489)

The Wind River Linux Installer Does Not Recognize Ethernet Names Other Than eth0

The installer expects **eth0** to be the device name of the first, real network card on Linux. If you do not have a device named **eth0**, you may encounter the following:

- Evaluating Workbench through the installer does not work.
- Node-locked license files do not work.

- Running a license server on this host type does not work.
- Borrowing a license on this host type does not work.
- To work around this problem, disable **udev** at boot up.

(INSTLAT-318)

The Intel 7260 WiFi Module Stops Working After Sustained Heavy Network Traffic

When the Intel 7260 WiFi module is in AP mode on the gateway and the WiFi or LAN clients generate heavy network traffic, the access point stops functioning after about 15 minutes. To work around this problem, avoid sustained heavy network traffic from WiFi or LAN clients.

(IDPCORE-3430)

The IP Address of the WiFi Interface is not Properly Assigned When Using the Azurewave AW-NB159H WiFi Module in AP Mode

When using the Azurewave AW-NB159H WiFi module in AP mode without bridging enabled, the static IP address of the wlan0 interface is not assigned automatically by the network manager. To work around this issue, configure the interface to use bridging or set the IP address manually.

(IDPCORE-3730)

The Azurewave AW-NB159H WiFi Module Stops Working After Sustained Heavy Network Traffic

When the Azurewave AW-NB159H WiFi module is in client mode on the gateway and it generates heavy network traffic, the system stops functioning after 48 hours. To work around this problem, avoid sustained heavy WiFi traffic on the device.

(IDPCORE-3740)

UEFI Secure Boot Does Not Work on the Advantech UTX3115 Board

After you configure the board to use the UEFI secure boot setup mode and run the boot loader (**grub.efi**), it reports **Failed to enroll KEY**. To work around this issue, manually change the system date of the host machine to the year 2014 and rebuild the target image.

(IDPCORE-3518)

Known Issues for McAfee Embedded Control 6.5.0

Reference	Description
949005	Issue: MEC Agent is not supported on kernel with configuration CONFIG_PAX_KERNEXEC enabled.
601728	Issue: As per NFS protocol, if a file present on the NFS share is opened once on the NFS client, it cannot be reopened until the file attributes are changed. As a result, if a read-protected file located on an NFS share is opened on the client side in update mode, the user would be able to read it on client even in enable mode (after coming out of the update mode) until the file attributes are changed on the server.
601734	Issue: Modifying a hard link may cause the name of the link or program to display in events.

Reference	Description
601914	Issue: For daemon processes, reported user name and original user name are same.
602653	Issue: A write-protected file can be modified through its hard link if the hard link has already been created.
602772	Issue: Scripts without #! tag cannot act as updaters.
602977	Issue: For loopback file systems, some features such as updater and monitoring do not work correctly when the loopback path is used instead of physical path in the sadmin commands. For instance, if /opt is mounted as loopback file system at /mnt , to add /mnt/abc as an updater you must add the path /opt/abc as an updater.
602990	Issue: Some features like updaters and mon-proc-exec do not work properly for unsupported file formats. Only executable binaries and #! scripts are supported file formats.
603490	Issue: The following issues are observed when an updater calls another updater: <ul style="list-style-type: none"> • If the child process is added as an updater, the non-inheritable option (-d) of the parent process is overridden. • If the parent process is added as an updater, the non-inheritable option (-d) of the child is overridden.
604780	Issue: For processes that are not directly associated with a terminal, the original_user field is a replica of the user field. For example, when you run a script through Runlevel/init scripts , original_user is same as the user.
605062	Issue: The mmap system call at the nfs client will not work if the file is read-protected.
606674	Issue: A write-protected file can be modified or deleted if the file system is mounted to a different directory.
607014	Issue: Adding a script as an updater twice (once on its own and again with its parent) may lead to ambiguous behavior.
607024	Issue: By default, the deny-read feature is disabled. A read-protect rule is immediately applied but is effective only after the deny-read feature is enabled.
607245	Issue: No events are generated for changes to a file containing the string " solidcore.log " in its name. For example, mysolidcore.log .

Reference	Description
601763	<p>Issue: Process information cannot be determined for those processes that are invoked before the MEC driver is loaded. This has the following implications:</p> <ul style="list-style-type: none">• If such a process makes file changes then these changes may not be reported.• For processes that started before the driver was loaded, only the partial program names are reported.• In case of NFS, for the changes done by the client, the change events displaying on the server have only the relative name for the NFS daemon (for example, nfsd or nfsctpd).• No Process Start and Process Stop events are generated for already running processes.
604604	<p>Issue: Write/read protection does not work on files added via cachefs/lofs.</p>
613214	<p>Issue: If the install path is a mount point, forcibly unmounting may lead to non-deterministic behavior. (Example: Using the umount -f command.)</p>
762449	<p>Issue: Events are generated if special device file(s) is renamed.</p>
774493	<p>Issue: Modification of binary in Update mode does not change/update the corresponding hard-link in whitelist.</p>
797363	<p>Issue: The sadmin xray command does not list the attr specific configurations for the running process.</p>
798843	<p>Issue: Unexpected behavior may be observed if a process exits without closing the modified file(s).</p>
602174	<p>Issue: When you login to a system using telnet as a non-root user, the original_user name displays as root.</p>

Documentation Errata

For a detailed list of documentation errata for Wind River Intelligent Device Platform XT, visit the Online Support Web site.

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Customer Services

Wind River is committed to meeting the needs of its customers. As part of that commitment, Wind River provides a variety of services, including training courses and contact with customer support engineers, along with a Web site containing the latest advisories, FAQ lists, known problem lists, and other information resources.

Customer Support

For customers holding a maintenance contract, Wind River offers direct contact with support engineers experienced in Wind River products. The Customer Support program is described in the *Standard Support User's Guide* available at:

<http://www.windriver.com/support>

The guide describes the services available, including assistance with installation problems, product software, documentation, and service errors. You can reach Customer Support by e-mail or telephone:

Location	Phone	Email
North and South America, Asia/ Pacific (outside Japan)	800-872-4977 (toll-free)	support@windriver.com
Europe, Africa, Middle East	+(00) 800-4977-4977 (toll-free)	support-EC@windriver.com
Japan	81-3-5778-6001	support-jp@windriver.com

For detailed contact information, including contact information specific to your products, see the Support Web site shown above.

Wind River Online Support

Wind River Customer Services also provides Wind River Online Support, an online service available under the Support Web site. This is a basic service to all Wind River customers and includes advisories, online manuals, and a list of training courses and schedules. For maintenance contract holders, Online Support also provides access to additional services, including known problems lists, patches, answers to frequently asked questions, and demo code.

7

References

[Target Packages](#) 27

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Target Packages

Target packages supported for Wind River Intelligent Device Platform XT include the standard Wind River Linux 5.0.1 packages plus some additional IDP XT 2.0 packages.

Table 2 IDP XT 2.0 Packages

Package	Version
antlr	2.7.7
appweb	3.3.4
avalon-framework-api	4.3
bcel	5.2
bsf	2.4.0
classpath	0.99
classpath-initial	0.93
comgt	0.32
commons-beanutils	1.8.0
commons-cli	1.1
commons-codec	1.3

Package	Version
commons-collections	2.1.1
commons-collections3	3.2.1
commons-configuration	1.5
commons-digester	1.8
commons-discovery	0.4
commons-el	1.0
commons-fileupload	1.2.1
commons-httpclient	3.1
commons-io	1.4
commons-jxpath	1.3
commons-lang	2.4
commons-logging	1.1.1
commons-net	1.4.1
commons-pool	1.4
cryptsetup	1.6.1
cst-tool-helper	1.0
cup	0.10k
dbus-java	2.7
deltarpm	3.5
dnsmasq	2.7.1
dom4j	1.6.1
dracut	029
ecmh	2005.02.09
extra-files-aaeon	2.0
extra-files-atom	2.0
extra-files-kontron	2.0
extra-files-xeon	2.0
fastjar	0.98
firewall	2.56
freeradius	2.1.12
fuse	2.9.2

Package	Version
gnujaf	1.1.1
gnumail	1.1.2
gnu-efi	5775f32a6268dead6939d01cbe72f23972f6d3c0
gradm	2.9.1
grub-efi	0.8.0
grub-ima	0.97
haserl	0.9.29
hostapd	2.3
hotplug2	1.0-beta
hsqldb	1.8.0.10
icu	50.1.2
ieee11073	1.0
igmpproxy	0.1
ima-evm-utils	git
imtools	0.0.1
inetlib	1.1.1
iperf	3.0.1
ipset	6.20.1
isakmpd	20041012
iwinfo	1.0
jacl	1.4.1
jamvm	git
jamvm-initial	1.4.5
jasqlite	20120209
jaxen	1.1.1
jaxme	0.5.2
jaxp1.3	1.4.01
jdepend	2.9.1
jdom	1.1
jikes	1.22
jlex	1.2.6

Package	Version
jsch	0.1.40
jsp2.0	5.5.26
junit	3.8.2
junit4	4.3.1
jzlib	1.0.7
keynote	2.3
keyutils	1.5.5
lame	3.98.2
libcli	1.9.6
libdlna	0.2.4
libecj-bootstrap	3.6.2
libexosip2	3.6.0
libgsm	1.0.13
libmatthew	0.8
libnl-tiny	svn
libosip2	3.6.0
libpam-krb5	4.7
libpam-ldap	186
libpam-tacplus	1.3.9
libtpm-utils	1.0
libubox	2012-12-18
libupnp	1.6.17
log4j1.2	1.2.17
logkit	1.2.2
lua	5.1.5
lua	5.2.2
luasocket	2.0.2
luci	0.12
miniupnpd	1.7.20121005
mipv6-daemon-umip	git
mldproxy	20041012

Package	Version
mosquitto	1.1.3
mowrappers	1.0
multiwan	1.0.22
mx-c-v4l-overlay	1.0
netifd	2012-12-17.1
net-snmp	5.7.2
ntfs-3g-ntfsprogs	2012.1.15
ntpclient_2010	365
oneagent-oma-dmc	3.1
oneagent-tr	5.5.17a1
openjdk-6	6b27-1.12.5
openjdk-7	u65b32-2.5.2
openjdk-bin	1.0
openl2tp	1.8
openldap	2.4.31
openpts	0.2.6
openssl-tpm-engine	0.4.2
orc	0.4.16
oro	2.0.8
paho-mqtt-lua	git
pam-radius-auth	1.4.0
paxctl	0.7
penlight	git
poi	3.0
prosystOSGi	7.5
regexp	1.5
rhino	1.7r4
rpmtree	1.0
rp-pppoe	3.11
rxtx	2.2.0
schroedinger	1.0.11

Package	Version
servlet2.3	4.1.37
servlet2.4	5.5.26
sierra-modem	1.2.3
sierra-modem	1.8.0
solidcore3	6.5
solidcore3-ksrc	6.5
spm-repo	0.0.2
srm-deploy	0.1
sshfs-fuse	2.4
strongswan	4.6.3
tcgbox	1.0
testsuite	0.3
tpm-emulator	0.7.4
tpm-tools	1.3.8
trousers	0.3.10
u-boot-imx	2009.08
ubus	2012-12-15
uci	2012-03-28.1
ushare	1.1a
vlan	1.9
webif	svn
wpan-firmware	3.10
xalan-j	2.7.1
xerces-j	2.11.0
xml-commons-resolver1.1	1.2
xmllpull	1.1.3.4c
xom	1.1
xpp2	2.1.10
xpp3	1.1.3.4.O
zbstack-exegin	1.6.51

Host Packages

Host packages supported for Wind River Intelligent Device Platform XT 2.0 (IDP XT) include the standard Wind River Linux 5.0.1 packages plus some additional IDP XT packages.

Package	Version
ant	1.8.1
antlr	2.7.7
avalon-framework-api	4.3
bcel	5.2
bsf	2.4.0
classpath	0.99
commons-logging	1.1.1
commons-net	1.4.1
cup	0.10k
docbook-xsl	1.77.1
gnujaf	1.1.1
gnumail	1.1.2
inetlib	1.1.1
jacl	1.4.1
jaxp1.3	1.4.01
jdepend	2.9.1
jikes	1.22
jlex	1.2.6
jsch	0.1.40
junit	3.8.2
junit4	4.3.1
jzlib	1.0.7
log4j1.2	1.2.17
logkit	1.2.2
lua	5.1.5

Package	Version
oro	2.0.8
paxctl	0.7
regexp	1.5
rhino	1.7r4
servlet2.3	4.1.37
spi-layout-tools	0.9.0
xalan-j	2.7.1
xerces-j	2.11.0
xml-commons-resolver1.1	1.2