

Software Release Notes

IF61 v2.20.47

Overview

This is a release of platform firmware for the IF61A and IF61B RFID Fixed Readers.

Supported Hardware

All IF61A and IF61B configurations.

Version numbers

Component	Current Version	Previous Version
IF61 System	2.20.47-2009-06-19	2.16.11-2009-02-20

Edgeware Application	Current Version	Previous Version
SAP AII-DC	4.02.00	4.02.00
ALE Engine	1.19	1.12
ALE Store and Forward	1.00.05	1.00

New Functionality

- Added support for IM5R3 radio module (certified for FCC configurations only), designated by IF61B configuration. All IF61A configurations continue to be fully-supported.
- Added support for Antenna Fault Events (BRI and LLRP, IF61B only)
- Added support for NXP tag extended commands (BRI and LLRP)
- Added support for CAEN BAP tags (BRI and LLRP)
- Updated BRI to version 3.12
- Updated LLRP, including vendor extensions
- Updated Java Runtime Environment (version 6u13)

Defects Fixed In This Build

ID	Description Summary	Systems
00029623	Edgware application: Edgware applications cannot be uninstalled.	Platform
00029637	The "Auto Start" option under "Developer Tools" menu is missing in the Web Interface	Platform
00030034	Memory Leak in OS abstraction layer	Platform
00030268	Unable to modify Ethernet settings via serial port when booted without Ethernet connected	Platform
00030270	Ethernet non-function if powered-up with no link	Platform
00030411	No way to set JAVA_HOME environment	Platform
00029645	Web interface firmware upgrades fail on slow connections	Platform
00029868	Unable to log into FTP, with username starting with !	Platform
00029869	Unable to log into the web server with password starting with !	Platform
00031022	Syslog: Queue full messages logged when reading on 865 reader with interference	Platform
00030495	Time: Some timezones out of order in dropdown	Platform
00030530	When LLRP secure/unsecure server is disabled, Bonjour stops broadcasting LLRP secure/unsecure tag	Platform
00030278	Blue light does not remain solid for a open BRI session after using "Find This Device"	Platform
00031019	IM5 Doesn't always get reset on soft reboot	Platform
00028844	Reader displays empty "password" in web configuration page when serial configuration is disabled	Platform
00029132	Digitally signed jars through Java runtime exceptions	Java
00029277	Empty CTI Group In Intermecc Settings	SmartSystems
00029577	Event ordering is not spec compliant	LLRP
00030856	State-Unaware Filters Not Working	LLRP
00030504	GET_READER_CONFIG does not report default C1G2InventoryCommand settings	LLRP
00030644	C1G2 StateAware and StateUnaware Filter Actions not optional, but should be	LLRP
00029331	Does not report model and firmware version in capabilities	LLRP
00029243	When two sessions are opened, one of the BRI sessions occasionally gets hung on execution of R STOP	BRI

00030418	No error displayed when BRI connection is closed due to too many simultaneous BRI connections	BRI
00030499	Level trigger usage may cause deadlock	BRI
00028784	Performing RESET twice when reader is in continuous mode, does not return EVT:RESET message and returns ERR for READ	BRI
00028807	Reader returns WRERR when tagtype=g2,epcc1g2 specified within a READ, WRITE, etc. command	BRI
00029341	ERR returned for all command after "RD;RESET" is issued.	BRI
00029496	TRIGGER returns ERR when deleting non-existent trigger	BRI
00029635	READ performed on wrong tagtype after interrupting continuous read	BRI
00030160	Inaccurate MEMOVRN reported during continuous reading	BRI
00029887	BizTalk RFID Test Case "BRIAttributeProperties" Fails	BRI
00030945	Attribute LBTSCANENABLE does not return ERR for 4 channel reader	BRI
00031020	Lockup on 865MHz when LBTSCANENABLE disabled and a great deal of co-channel interference	BRI
00029921	REPEAT does not work when CHKSUM is on.	BRI
00030384	RF stuck on when connection is lost	BRI
00030329	Long-Term Test breaks device login	DCWS
00030691	Too many connections http error is incorrect	DCWS

Additional Information

Please reference the IF61 User's Manual for additional information.
www.intermec.com | Service & Support | Manuals

Installation Instructions

Please refer to the IF61 User's Manual for information about the various supported installation methods.

Compatibility

This software release was tested against:
SmartSystems Console: 3.41.03.0659
Avalanche Console: 3.6.3

Errata

ID	Description Summary	Systems
00028963	Files can be overwritten on upgrade of IF61's running firmware prior to 2.14 with devices containing a hard drive. If a file is created in /home/developer and an identically-named file exists in /home/developer/internalHD on a device running 2.10.27, and the device is then upgraded, the file in the internalHD folder will be replaced with the one in /home/developer.	Platform
00029765	Web Interface: IP Router field does not change when switching to 802.11 radio interface. This issue only affects status field in web interface, and does not impact operation of routed connections.	Platform
00029058	Misleading webpage error when importing server certificates. The certificate is properly installed, but a browser error page is displayed.	Platform
00030650	Edgware webpage doesn't finish loading when starting Edgware Application. This does not affect the functionality of Edgware Applications; the process of starting the Edgware Application succeeds.	Platform
00030513	EPCC1G2Parms attribute not in Intermecc Settings BRI group. This parameter is still available for user configuration; however, it doesn't exist in the same Intermecc Settings group as all other BRI settings.	SmartSystems
00028595	SmartSystems assumes all devices running the same firmware version provide the same schema. If a mixture of IF61 hardware configurations exist on a SmartSystems managed network, the first IF61 to be discovered by the SmartSystems Console will determine the IF61 device schema.	SmartSystems

Version History

Release	Firmware Version	Date Available
Initial	1.00-2007-03-15	03/06/2007
1 st Follow-on	2.00.24-2007-10-26	10/26/2007
2 nd Follow-on	2.10.27-2008-04-17	04/28/2008
3 rd Follow-on	2.15.28-2008-11-10	11/19/2008
4 th Follow-on	2.16.11-2009-02-20	02/20/2009
5 th Follow-on	2.20.47-2009-06-19	06/25/2009

New Functionality History

Firmware Version 2.16.11

- Resolved a manufacturing issue related to IF61 hardware configurations with a 1 GB internal flash drive and 802.11 radio.
- Updated ALE engine

Firmware Version 2.15.28

- Support for 256 MB RAM hardware configuration option
- Updated BRI (3.11)
- Updated Java and Mono (.NET) environments
- Added support for 240bit EPCID's

Firmware Version 2.10.27

- EPC LLRP Protocol Support
- Updated BRI (3.10)
- Web Services Device Configuration
- Updated Java and Mono (.NET) environments
- Updated ALE v1.11
- New Edgeware Application ALE Store and Forward

Firmware Version 2.00.24

- Support for 802.11 radio
- Support for 40 GB hard drive option
- Support for 1GB RAM option
- Support for 1GB flash option
- Updated SmartSystems client
- Updated BRI (3.00)

Fixed Defect History

Firmware Version 2.16.11

ID	Description Summary	Systems
00029800	WEB: Unable to login into web server after excessive logging in and out	Platform
00029294	Mfg: IF61A1110180414 device fails mfg board test	Platform
00029695	Response is not well formed xml error received from DCWS	DCWS
00029766	LLRP: Lockup when client disconnects while ROSpec is running	LLRP
00029884	BizTalk RFID LLRP Interop Test "LLRP Duration" Fails	LLRP
00029188	WPA v2 Enterprise 802.1x PEAP/LEAP intermittent drop-outs	802.11

Firmware Version 2.15.28

ID	Description Summary	Systems
0025285	No event message with EPCID is displayed after 10 seconds on moving the tag in and out of the field antenna	BRI
0026892	PROTECT command returns LCKERR instead of PVERR.	BRI
0026362	ERR reported after an "r stop" is performed	BRI
0027306	BRI session terminates on reading memory location from a tag in continuous mode with zero RPTTIMEOUT	BRI
0027238	cap lbt channel max returns 0	BRI
0028613	Phantom trigger remains between sessions even though it was deleted.	BRI
0028731	PVERR is returned for a write command with valid password	BRI
0025285	No event message with EPCID is displayed after 10 seconds on moving the tag in and out of the field antenna	BRI
0026892	PROTECT command returns LCKERR instead of PVERR.	BRI
0027628	not reporting tags with TAGID in EVENTALL continuous read mode	BRI
0028043	reader does not stop reading when connection is lost	BRI
0028103	UCODE119 Tagtype not honored in combination with other tagtypes	BRI
0028238	EVENTALL reading wont report same tag on multiple antennas	BRI
0028218	PRINT command not working	BRI
0028894	Non-volatile support for SCHEDOPT not working	BRI
0028223	RESET does not return event message and gives ERR when READ is given	BRI
0027274	Tagtype changes from EPCC1G2 to ISO6BG2	BRI
0027219	AccessSpec filters not working correctly	LLRP
0027186	Reports do not contain PC or CRC bits	LLRP
0028423	session becomes unresponsive after using GPI to trigger several ROSpec starts and stops	LLRP
0028589	Reader stops responding if a GPO Write is sent during an ROSpec	LLRP
0027232	RFSurveyStopTrigger of 'N iterations..' not working	LLRP
0027283	Unable to add complicated AccessSpec	LLRP
0028120	GET_CAPABILITIES_RESPONSE contains an M_value of 4	LLRP
0028153	Unable to add an ROSPEC when TransmitPower > 15	LLRP
0028156	Setting AntennaConfigurations with AntennaID 0 will remove previous AntennaID's	LLRP
0028300	GPI Event out of order	LLRP
0029211	Incorrect creation of LLRPStatus Parameter	LLRP
0028165	Timestamps are not accurate	LLRP
0027260	Delay in receiving START_ROSPEC_RESPONSE for RFSurvey	LLRP
0028200	Auto-Start cannot be disabled for edgware applications	Platform
0027328	Reader reboots without throwing an error message upon installing an invalid file	Platform
0027705	SMB: Client unable to mount share	Platform
0028175	Telnet: service not restarted on a reboot	Platform
0028248	Changes made to FIELDSTRENGTH in web interface does not reflect in BRI	Platform

0027104	Bogus files greater than a certain size will cause the web page to time out	Platform
0025973	IDL RFID RK reports error MEMOVRN as field value in IF61	IDL
0025045	IDL doesn't properly identify TRIGGERACTION event messages	IDL
0025365	IDL does not have an event handler for the RESET event	IDL
0028327	New Ethernet IP is updated to the device through avalanche but reader still works with old IP	Avalanche

Firmware Version 2.10.27

ID	Description Summary	Systems
0025391	setting seltries attribute is not honored if tagtype is set first	BRI
0025309	RDERR seen during Transaction Test	BRI
0025425	READ POLL crash	BRI
0025362	Writing problems seen using Antennas 3 and 4	BRI
0025375	Tagtype getting set on an ERR response	BRI
0025378	NOTAGRPT=ON in continuous read mode does not work	BRI
0025414	BRI: TAGTYPE is not persistent through a READ TAGTYPE=??? command	BRI
0025427	BRI: r poll will cause events to be reported twice	BRI
0025351	LOCK command not working.	BRI
0025093	Unable to log into the reader when the hostname contains characters like “_” or “*”.	Platform
0025151	DNS Information is cached.	Network
0025119	SSClient crashes when sending backup settings	SmartSystems
0025098	Validate CA Certificate CN doesn't match exact string	802.11

Firmware Version 2.00.24

ID	Description Summary	Systems
0022565	Avalanche: Unable to delete orphaned packages	Avalanche
0022645	Toggling enable/disable Avalanche Access feature will cause a new entry to appear in the Ava Management Console for that device.	Avalanche
0022582	GPIO in developer tools does not work properly.	Edgware
0022589	Enabling or Disabling SmartSystems through the web causes the blue light to blink. Rebooting fixes this issue.	SmartSystems
0022593	Read only password does not support 32 characters. Only 31 are allowed.	System