WinLink™ 1000 - Release 1.625
Release Notes

Note that these Release Notes are relative to the release notes of Release 1.620. Please read the Release Notes of release 1.620 for more details on issues that changed up to release 1.620.

1 Release Components

	Component Name	Description
1.	Firmware	• IDU: build 1025 for IDU-EO (Ethernet Only) products. Both builds 1020 and 1025 can be used. • ODU: build 630 is replacing build 615.
2.	WinLink 1000 Manager	Build 7125
3.	Upgrade Kit	Enables upgrade from any previous release
4.	SNMPc Integration Kit	No change, integrates the WinLink 1000 Manager into the SNMPc framework (supports SNMPc 5.x, 6.x and 7.x)
5.	MIB Files	No change, refer to the MIB manual
6.	Link Budget Calculator	Build 3230. Supports the new features: Expected fade margin, new products, updated product names.

2 New Products

	Product Name	Catalog Numbers	Description
1.	WL1000-ODU-HE/F49/HP/EXT	AT0062390	Supports the 4.940 - 4.990GHz band with Tx power up to 23dBm. Supports direct PoE feeding and IDU feeding.
2.	WL1000-ODU-ET/F58/FCC/EXT/PoE	AT0062400	Outdoor unit with PoE device for external antenna, Ethernet only for 5.8GHz according to FCC regulation. An Extended Temperature product version of the WL1000-ODU/F58/FCC/EXT/PoE supporting low temperatures of -50°c.
3.	WL1000-ODU/F58/UK/EXT/PoE	AT0057580	Name correction only, to WL1000-ODU-HE/F58/UK/EXT

3 Compatibility

<table>
<tr><th></th><th>Component Name</th><th>Description</th></tr>
<tr><td>1.</td><td>Link firmware</td><td>IMPORTANT NOTICE:
• Release 1.625 is compatible with release 1.620 only.
• To establish a link, the following combinations can be used:

<table>
<tr><th>Site 1 / Site2</th><th>Release 1.625</th><th>Release 1.620</th><th>Release prior to 1.625</th></tr>
<tr><td>Release 1.625</td><td>√</td><td>√</td><td>X</td></tr>
<tr><td>Release 1.620</td><td>√</td><td>√</td><td>X</td></tr>
<tr><td>Release prior to 1.625</td><td>X</td><td>X</td><td>(*)</td></tr>
</table>
(*) prior to release 1.620 each release was compatible to itself only.

• A link cannot be established with WinLink 1000 with release 1.625 on one side and WinLink 1000 with non-compatible release on the other side.</td></tr>
<tr><td>2.</td><td>WinLink 1000 Manager</td><td>WinLink 1000 Manager release 1.620 (Build 7125) can manage WinLink 1000 products with releases 1.625 or earlier.</td></tr>
<tr><td>3.</td><td>Software Upgrade</td><td>The recommended procedure for software upgrade of WinLink 1000 to release 1.625 is as follows:
1. Upgrade the WinLink 1000 Manager application
2. Load the new release to the WinLink 1000 on both sides of the link
3. Reset the remote ODU unit
4. Reset the local ODU unit

Notes:
• If the software upgrade was performed on releases 1.0.X, 1.1.X or 1.3XX, the link will be configured to installation mode, and the link installation wizard should be used to restore the service.
• It is not possible to use any previous upgrade kit after upgrading to 1.625. Downgrade operation CANNOT be performed.</td></tr>
<tr><td>4.</td><td>WL1000-IDU-2E1-AL compatibility</td><td>The WL1000-IDU-2E1-AL indoor product cannot be used with ODU product that is running release earlier than 1.620.</td></tr>
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4 Resolved Issues

Resolved issues from release 1.620 to release 1.625 are described in the following table. The Reference numbers relate to RADWIN's database reference numbers for tracking purposes.

	Issue Name	Description	Resolution	Reference
1.	PoE Switch malfunction	When using the product in a LAN with over 512 concurrent workstations connected directly to the WinLink 1000, not via an external switch while using packet size of 128 bytes, in some occasions some Ethernet frames will not be transmitted correctly.	Problem fixed	7307, 7678
2.	Wrong Tx power configuration for AIND products	At rate of 24Mbps the factory setting was 2dB higher than optimal for system performance.	Problem fixed	8007

	Issue Name	Description	Resolution	Reference
3.	Wrong number of TDM services	In low received signal power conditions a wrong number of TDM services were opened, different than configured.	Problem fixed	7661
4.	False Built In Test (BIT) failure	During the first system start-up after a software upgrade a false BIT alarm was displayed	Problem fixed	7663
5.	Ethernet service interruptions	In rare cases special traffic patterns caused interruptions in the Ethernet service	Problem fixed	7677, 7678
6.	Time required for link synchronization	In some scenarios, link synchronization duration is long or the link does not recover after sync loss.	Problem fixed	6463, 6526

5 Known Issues

	Issue Name	Description	Workaround	Reference
1.	WinLink 1000 Manager GUI	Titles and Status fields may be displayed incorrectly in various screen resolutions and font sizes	Restarting the WinLink 1000 Manager application solves most of these problems	5628
2.	Excessive Ethernet data rates	• In a burst traffic test, the system provides 40K bytes buffer size for frames larger than 500 bytes. For smaller frame sizes (64, 128 and 256 bytes), a lower buffer size is supported. • When loading the system using small frame sizes, management disconnection for several seconds may occur. • In rare cases when using full duplex single TCP session with maximum window size (65K) some packet drops may occur.	This case can be reproduced only in a lab using a traffic generator configured with specific traffic patterns	6698, 7419
3.	TDM loopback	If an external loopback (wired) is used for E1/T1 with AIS (all 1's), the timing of the looped port is switched to "Internal".	Use software loopback from the WinLink 1000 Manager maintenance window	6635
4.	WinLink 1000 Manager Usability	The following usability issues were observed in some rare scenarios: • The WinLink 1000 Manager does not operate after link resynchronization • Link information collection fails • Local mode does not function when the WinLink 1000 Manager PC has multiple NICs	Restart the WinLink 1000 Manager application	7661, 7169, 7167
5.	Independent TDM Input Clocks	All TDM service ports must have the same TDM clock source.	Use a single clock source for all TDM service ports	7238

	Issue Name	Description	Workaround	Reference
6.	TDM service limitation in 2.XGHz bands with 5MHz channel bandwidth	TDM service can not be used in 2.XGHz bands with 5MHz channel bandwidth.	Configure the system to 20MHz channel bandwidth	9001
7.	TDM service degradation in 2.XGHz bands with 10MHz channel bandwidth	In some cases, TDM service quality degradation has been observed in 2.XGHz bands with 10MHz channel bandwidth.	Configure the system to 20MHz channel bandwidth	7380
8.	Delay between the WinLink 1000 Manager and the WinLink 1000 equipment	In cases of high communication delay between the WinLink 1000 Manager and the WinLink 1000 equipment, the WinLink 1000 Manager functionality may be degraded.	Use low delay connectivity between the WinLink 1000 Manager and the WinLink 1000 equipment	8005
7.	Time required for link synchronization	In rare cases, the following problems were observed (in 5 and 10MHz channel bandwidth): • Synchronization time is more than 2 minutes • Link is dropped and re-synced after a few seconds	Reset the WinLink 1000 units	7095, 6984
8.	Minor BER degradation in TDM service in high modulation	Minor BER degradation (<10E-7) may occur in TDM services while using the highest modulations (48Mbps @ 20MHz channel bandwidth, 27Mbps @ 10MHz channel bandwidth, 13.5Mbps @ 5MHz channel bandwidth)	Use lower modulations	9002
9.	Link does not sync when changing channel bandwidth to 5MHz	In some cases when changing the channel bandwidth to 5MHz the link does not sync.	Reset the WinLink 1000 units	7417