



ProtectLink Dual-Band 700/800 DAS Applies to all ProtectLink BDA's

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CS40-734834-2524
CS40-000834-CAN
CS40-734000-00D-A0
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Version: 2.00.45

Software Release Notes

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Revision History

Revision	Author	Date	Description
1.00	C. Winckler	Oct 12, 2021	Release notes CS40-DB734834-BDA
2.00	C. Winckler	Dec 8, 2021	Modified for version 2.00.05
3.00	G. Pitsoulakis	April 4, 2022	Updated 2.00.21
4.00	G. Pitsoulakis	May 3, 2022	Updated 2.00.22
5.00	G. Pitsoulakis	September 27 th 2022	Updated 2.00.41
6.00	G. Pitsoulakis	October 12 th , 2022	Updated with comments, renamed doc
7.00	G. Pitsoulakis	June 14 th , 2023	Updated 2.00.45

Table of Contents

1. Introduction	4
Migration Instructions.....	4
2. Release Details	4
<i>a. Changes made from 02.00.41 to 02.00.45</i>	<i>5</i>
<i>b. Changes made from 02.00.22 to 02.00.41</i>	<i>5</i>
<i>c. Changes made from 02.00.22 to 02.00.41</i>	<i>5</i>
<i>d. Changes made from 02.00.21 to 02.00.22</i>	<i>6</i>
<i>e. Changes made from 02.00.05 to 02.00.21</i>	<i>6</i>
<i>f. Changes made from 02.00.04 to 02.00.05</i>	<i>8</i>
<i>g. Changes made from 1.00.03 to 02.00.04</i>	<i>8</i>

1. Introduction

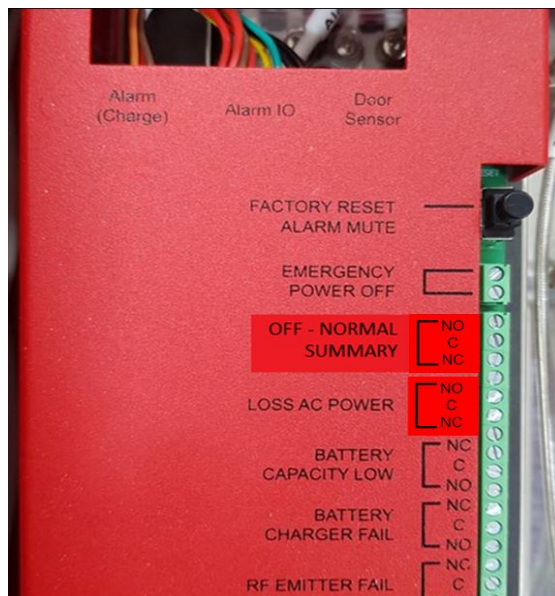
The purpose for this release is to provide DAS feature enhancements and address critical issues found impacting the functionality of the ProtectLink Dual-Band 700/800 DAS Ready BDA either through internal system integration and verification testing or as reported by Westell's support organization.

Migration Instructions

Currently all releases are allowed to upgrade directly to 2.00.45.

1. Sign into the GUI and mask all alarms on all devices from the Alarm GUI screens.
2. If the current version is pre 2.00.21, the following output relays must be re-wired according to the diagram below:

OFF - NORMAL SUMMARY
LOSS AC POWER



- 3 Perform the firmware upgrade from the System Settings GUI screen.
- 4 Unmask all alarms on all devices from the Alarm GUI screens.

2. Release Details

a. Changes made from 02.00.41 to 02.00.45

DAS Feature enhancements for ProtectLink Dual Band BDA include:

- Resolved major memory utilization issue where BDA and ORU's could lose communication
- Improved BDA to ORU syncing
- Add's FPGA image compatibility check for correct image and model validation
- Added new ORU alarm "BIDIRECTIONAL AMPLIFIER LOSS OF COMMUNICATION" flagging system component fail if communication is lost with BDA.
- Adds Software version info to Print Config Device Report.
- General improvements to ProtectLink software upgrade process
- Added AGC mode selection (standard or Dynamic) in Print Config Device Report

b. Changes made from 02.00.22 to 02.00.41

User interface Improvements

- Addresses GUI issue with single band 800 MHz operation

Feature Enhancements

- Added audible config to backup, restore and export features

c. Changes made from 02.00.22 to 02.00.41

CS40-734834-00D-A0

User interface Improvements

- 800 MHz BDA only downlink Alarm flag is now present, was erroneously reporting 700 MHz flag
- Addressed display issue without the need for scrolling
- Removed ORU gain control from GUI and updated ORU configuration DL gain to max 90 and DL AGC to 14.
- Re-labeled EPO button to "Emergency Transmit Disable", Silkscreen is still labeled EMERGENCY POWER OFF, EPO command is also properly processed in all ORU's.
- Change DL UL to "Link" instead of "sync" used to display

- Rendering of RF Screen CF link corrected when no internet access is available.
- Set UL CF configuration to zero so there is no UL isolation test for dual band BDA's
- Modified RF CF range to validate only enabled channels on all BDA's.
- When upgrading software clarified file should not be unzipped.
- Map BDA donor alarm malfunction and disconnect to all ORU donor relays
- Display incoming composite power
- Added alarm search feature

Feature Enhancements

- EPO contact relay is triggered correctly with contact relay state change
- Update dual band isolation test to 768.5 MHz.
- Minimum filter separation now for dual band BDA class A $BW \leq BW1/2 + BW2/2$
- Added health monitor feature

d. Changes made from 02.00.21 to 02.00.22

CS40-734834-00D-A0

User interface Improvements

- Addresses GUI issue with single band 800 MHz operation

Feature Enhancements

- Added audible config to backup, restore and export features

e. Changes made from 02.00.05 to 02.00.21

CS40-734834-00D-A0

User interface Improvements

- Addressed display issue in ORU with 800 only RF Screen
- RF Screen DL CF sync button display enhancement
- Maintain RF screen instead of reverting to main screen
- Change DL UL to "Link" instead of "sync" used to display
- Loss of AC Power alarm addressed (See Method of Procedure MOP)
- (See user Guide) New button added Dynamic AGC- Output power is shared equally by number of channels activated. (Default) and standard, standard used in single channel test mode will reduce power with number of carriers increased if carriers are idle. During software upgrade Dynamic AGC

is (Default).

- GUI appearances Updated
- Validation check added to apply buttons in GUI

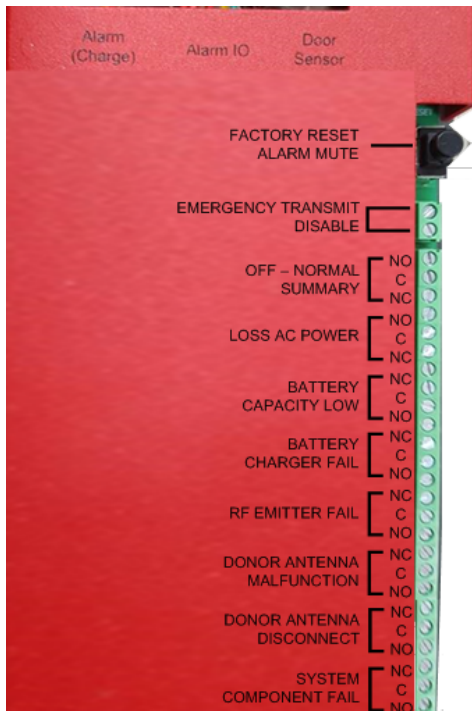
Feature Enhancements

- Updated Reduced Gain (RG) and Shut Down (SD) retry to return gain setting
- Improved oscillation detection algorithm
- Improved isolation test tone performance
- Date persistence retained after fast reboot
- Improved Backup and Restore operation
- Improved diagnostic performance
- User override to offset Center Frequency DL/UL
- Enhanced logging for all devices
- Improvements made to license upgrade process and alarming

700/800 ORU Loss of AC Power Relay (Alarm modification needed) MOP

- Background: Defaulted the AC Power Fail and OFF-Normal Summary output relays to 1 which is the charged state. On alarm those relays are now set to 0 or the uncharged state. This allows the relays to indicate failure on complete loss of power by switching the NO and NC contacts.
- **MOP for Alarm Relay migration**
 1. Note the current version
 2. Sign into GUI and mask all alarms on all devices from the Alarm GUI screens
 3. If current version is pre 2.00.21 , the following output relays MUST be RE-WIRED according to the diagram below:

**OFF - NORMAL SUMMARY
LOSS AC POWER**



4. Perform the firmware upgrade from the System Settings GUI screen.
5. Unmask all alarms on all devices from the Alarm GUI screens.

f. Changes made from 02.00.04 to 02.00.05

Alarm/Relay Contacts

- Changed oscillation detection algorithm to eliminate false alarming
- Corrected annunciator testing feature so that testing would time out when test runs longer than 2 minutes

g. Changes made from 1.00.03 to 02.00.04

Alarm/Relay Contacts

- Change the function and relabel alarm relay “AC Normal” to operate as a “Off Normal Summary”. This relay would activate when any alarm is activated
- Battery Charger Fail alarm is more consistent with batteries being disconnected
- Added horn activation and sending SNMP trap to Alarm Test Functions

User Interface Improvements

- Added Emergency Power Off (EPO) button in GUI to disable RF via the GUI
- Added error message when setting UL squelch on 700 and 800 MHz to an incorrect value

Feature Enhancements

- Updated 1 watt gain algorithm
- Improvements made to license upgrade process