

WLAN Security in Datalogic Mobile CE Terminals

This document explains, which WLAN security options are available for which kind of Datalogic terminal and reports known problems as well as solutions.

The kind of available security features depends on the used radio card and version of CE OS:

- Symbol CF-radio LA41 with CE 4.2: SilverJET, BLKJET, Kyman-NET
- Symbol CF-radio LA41 with CE 5.0 : Skorpio, BLKJET V5
- Cisco 350 Series with CE 4.2 : Rhino-NET, Viper-NET

Symbol CF-radio LA41xx (Driver 3.93-80) with CE 4.2

SECURITY OPTION	SUPPORTED	REMARKS
WEP static (40/128bit)	YES	
WPA-PSK	YES	A patch is needed to enable WPA-PSK (1)
PEAP (WEP)	(YES)	Only by using Odyssee client (2)
PEAP (WPA)	(YES)	Only by using Odyssee client
EAP-TLS (WEP)	(YES)	Only by using Odyssee client
EAP-TLS (WPA)	(YES)	Only by using Odyssee client
LEAP (WEP)	YES	Use EAPpwd to set user/password (3)
LEAP (WPA)	(YES)	Only by using Odyssee client
EAP-FAST (WEP)	(YES)	Only by using Odyssee client
EAP-FAST (WPA)	(YES)	Only by using Odyssee client
WPA2 options	NO	This HW does not support AES encryption

Symbol CF-radio LA41xx (Driver 3.93-80) with CE 5.0

SECURITY OPTION	SUPPORTED	REMARKS
WEP static (40/128bit)	YES	
WPA-PSK	YES	A patch is needed to enable WPA-PSK (1)
PEAP (WEP)	(YES)	An external WZC tool is needed (4)
PEAP (WPA)	(YES)	An external WZC tool is needed (4)
EAP-TLS (WEP)	(YES)	An external WZC tool is needed (4)
EAP-TLS (WPA)	(YES)	An external WZC tool is needed (4)
LEAP (WEP)	YES	Use EAPpwd to set user/password (3)
LEAP (WPA)	(YES)	Only by using Odyssee client
EAP-FAST (WEP)	(YES)	Only by using Odyssee client
EAP-FAST (WPA)	(YES)	Only by using Odyssee client
WPA2 options	NO	This HW does not support AES encryption

Cisco 350 Series (Firmware 5.60.17, ACU 2.70)

SECURITY OPTION	SUPPORTED	REMARKS
WEP static (40/128bit)	YES	
WPA-PSK	YES	Use "External Settings"
PEAP (WEP)	(YES)	Only by using Odyssey client
PEAP (WPA)	(YES)	Only by using Odyssey client
EAP-TLS (WEP)	(YES)	Only by using Odyssey client
EAP-TLS (WPA)	(YES)	Only by using Odyssey client
LEAP (WEP)	YES	
LEAP (WPA)	YES	
EAP-FAST (WEP)	(YES)	Auto provisioning not working (5)
EAP-FAST (WPA)	(YES)	Auto provisioning not working (5)
WPA2 options	NO	This HW does not support AES encryption

(1)

You may find on www.support-datalogic.de a patch called "WPA-PSK fix". Install and execute this patch to enable the WPA-PSK option for Symbol.

(2)

For Odyssey please visit www.juniper.net - you may download there a trial version.

(3)

EAPpwd could be found in *lwindows*

(4)

The setup of EAP parameters are not persistent after reboot or suspend. To overcome this bug, MS offers an external Wireless Zero Config tool, which has to be configured by a command line batch file. Download at www.support-datalogic.de
But there is still an open problem: after out-of-range the device does not reconnect. You have to switch off and on the device.

(5)

The actual ACU 2.70 does not work in mode "auto provisioning PAC" – you have to install manually a PAC file.