



## Jabra Engage

The most powerful professional headset on the market is also **the most secure\***

Taking security in wireless calls to the next level: 256-bit AES encryption. 128-bit authentication.

GN Making Life Sound Better



\* Relates to Jabra Engage 75/65 Stereo and Mono variants. February 19, 2018. See facts on [jabra.com/commercial-claims](https://www.jabra.com/commercial-claims)



# Eavesdropping nullified. Cut their connection.

## Securing business-sensitive conversations

Cybercrime is on the rise, and in a business environment where customer calls are evermore sensitive, making valuable conversations secure is vital.

Jabra meets this challenge head-on, taking communication security to the next level with the Engage Series – the worlds most secure professional wireless headsets – with security features that go above and beyond the leading Jabra Pro 9400 series, and outstripping all other headsets on the market.

Every call counts, but for some businesses and institutions the ability to make secure calls can make or break a company, safeguard the future of others, and even save lives. Whether you're a government, the military, a financial institution, or simply a business where valuable calls are made, you need to be part of a proactive security culture.<sup>4</sup>

The time to Engage is now. Today, customer privacy is rated as the #1 concern (higher than data ownership, and higher than employee privacy).<sup>5</sup>

### The cost of hacked calls – Eavesdropping is a major part of today's crime problem

Cybercrime cost businesses an estimated **\$388 billion** in 2016, making it bigger business than the heroin and cocaine trade (\$288 billion)<sup>1</sup>

Cybercrime is growing. In four years, attacks increased by **44%**, and each company was impacted, on average, by \$7.5 million <sup>2</sup>

**75%** of all companies have experienced cyber attacks that last 12 months <sup>3</sup>

<sup>1</sup> <https://www.helpnetsecurity.com/2011/09/07/global-cost-of-cybercrime-114-billion-annually/>

<sup>2</sup> [https://www.slideshare.net/GGVCapital/securing-the-cloud-58204760/3-Cybercrime\\_is\\_a\\_Growth\\_IndustrySource](https://www.slideshare.net/GGVCapital/securing-the-cloud-58204760/3-Cybercrime_is_a_Growth_IndustrySource)

<sup>3</sup> <https://www.helpnetsecurity.com/2010/02/22/75-of-organizations-suffered-a-cyber-attack/>

<sup>4</sup> Economist Intelligence 2016 <sup>5</sup> Helpnetsecurity.com

# The solution: Jabra Engage headsets

Patented pairing. Absolute authentication. Encryption excellence.

With Jabra Engage, there is increased security of the wireless connection between the wireless headset and its base unit, and rock-solid security is provided in three steps, improving the protection of calls to a category-leading level.

## Pairing

The first step is a physical bonding of the base unit and headset. Jabra has patented 'physical assisted pairing' to increase security. The Jabra assisted pairing method occurs only when the headset is docked in the base unit, and a secret link-key is then formed when the two pair.

## Authentication

At the start of a call, encryption is used to set up secure authentication between the Engage headset and its base. A link is established using a secret key-link formed in the pairing (without this, the headset and base unit will not work together). This means that a "non-paired" headset cannot be used with the base unit. The authentication link is also protected by encryption. The better the encryption level, the more secure the established link.

## Encryption

In calls the audio signal between base unit and headset transports data, which is secured via encryption. The higher encryption level, the better the protection of data. With Jabra Engage, the encryption link is renewed every minute to make decryption more difficult.

## Increased protection with Jabra Engage Series

Security algorithms are listed in **FIPS 140-2** standards required by the US military and government, and recommended by the National Institute of Standards and Technology for financial institutions demanding the highest degree of security.

The wireless connection is secured with patented pairing – authentication between headset and base is established with **128-bit** level technology compared to the category-standard 64-bit.

The wireless connection is secured using **256-bit** AES encryption – giving a line of defense that goes beyond that of DECT Security Level C.

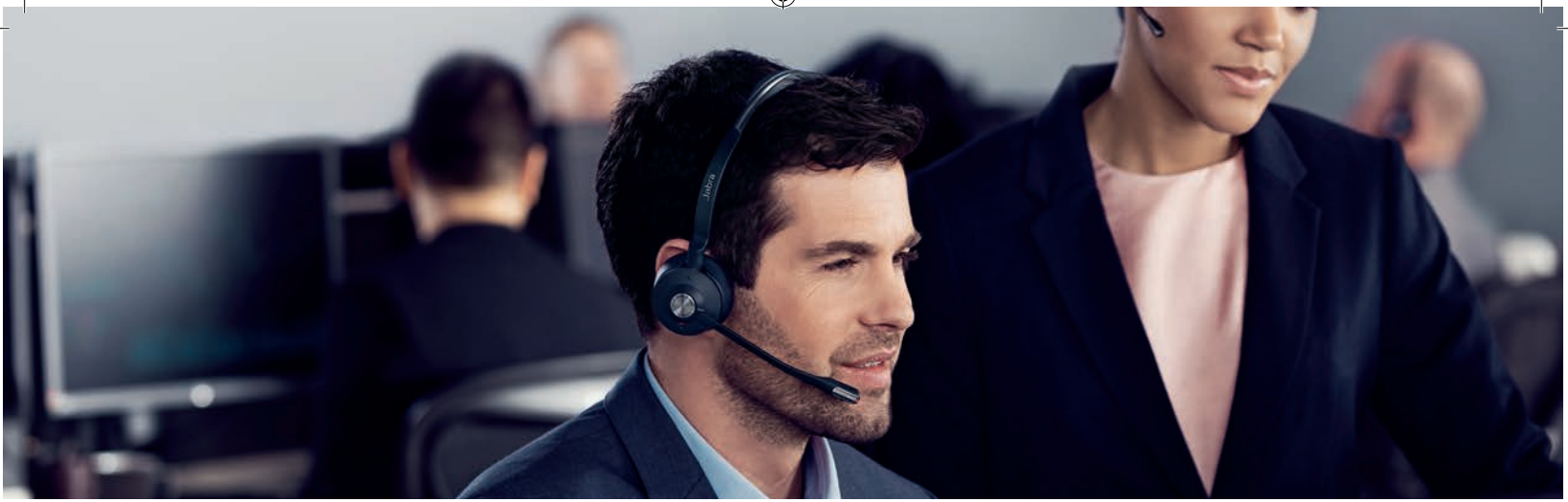


## Security features Jabra Engage Series compared

	 Jabra Engage Series	 Jabra Pro 9400 Series	 Plantronics Savi 700 Series	 Plantronics Savi 500 Series
Pairing	Physical assisted, patented pairing	Physical assisted, patented pairing	-	-
Authentication	128 bit DSAA2 (AES) <sup>2</sup>	64 bit DSAA	64 bit DSAA	64 bit DSAA
Encryption	256 bit AES	64 bit DSC	64 bit DSC	64 bit DSC
DECT security level	beyond C	A	A	A
FIPS 140-2 listed functions	Yes	No	No	No

<sup>1</sup> Engage 75 base only

<sup>2</sup> DSAA and DSC are the authentication and encryption algorithms defined in the DECT security standard ETSI EN 300 175-7 applicable for DECT security and DECT security step A. DSAA2 and DSC2 are the equivalent updated security algorithms for the next steps of DECT security, steps B and C.



# To serve and protect

Patented pairing. Absolute authentication. Encryption excellence.




DECT security has evolved over time from the original security definition, to new enhanced definitions called step A, B, and C; each step offering an increased security over the previous step. Each new security level includes all features from a previous level. This means, for example, that Jabra Engage includes all step A, B and C features. For instance, significant features added in step A (such as early encryption derived cipher key updating at least every minute), and peer-side behavior evaluation.

The Jabra Engage Series of headsets goes one step further, taking advantage of encryption algorithms listed in FIPS 140-2 standards required by the US military and government. This level of security goes beyond DECT Level C.

Jabra Engage utilizes AES 256-bit keys for the very strongest level of encryption in a professional headset.

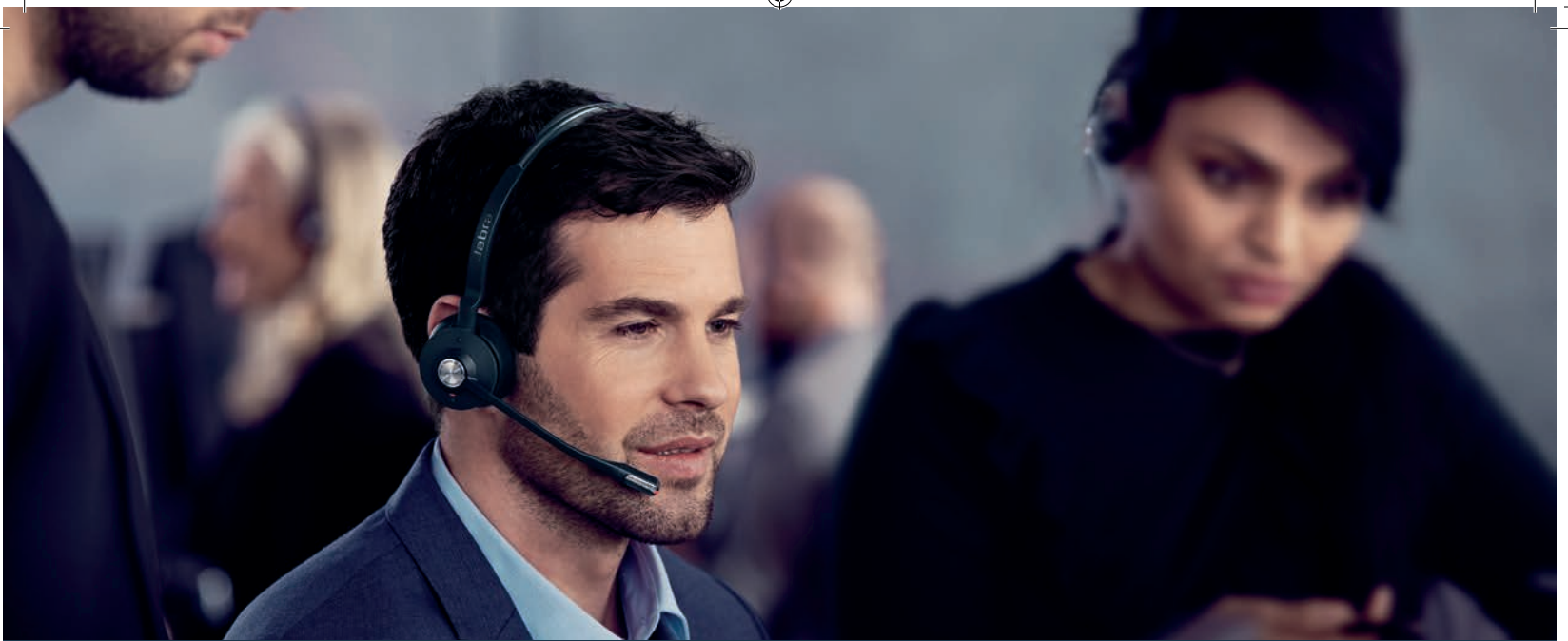
## FIPS 140-2 – What’s good for the military, is now good for you

- **Mandatory for US government**, and recommended for financial institutions in US. Adopted by the UK and Canada, and is recommended for use by other private companies
- FIPS 140-2 lists **approved security functions** for encryption, message integrity, and authentication
- Those functions provide **military grade security** (e.g. AES encryption) approved for use by the US government
- FIPS 140-2 is a standard **backed by National Institute of Standards and Technology**

 **Encryption excellence**  
 Jabra Engage utilizes the very strongest  
 level in a professional headset

Jabra Engage Series			
Jabra Pro 9400 Series			<b>Military Standards</b> Engage FIPS algorithms  Even stronger encryption of audio stream using AES 256 bit keys
Plantronics Savi 500/700 Series			
		DECT security step B	
	DECT security step A	New authentication using strong AES 128 bit encryption (DSAA2) <sup>1</sup>	Strong encryption of audio stream using AES 128 bit keys (DSC2) <sup>1</sup>
DECT security	New features which correct certain vulnerabilities		
Authentication (DSAA) <sup>1</sup>	Secure DECT certification		
Encryption (DSC, 64 bit keys)			

<sup>1</sup> DSAA and DSC are the authentication and encryption algorithms defined in the DECT security standard ETSI EN 300 175-7 applicable for DECT security and DECT security step A. DSAA2 and DSC2 are the equivalent updated security algorithms for the next steps of DECT security, steps B and C.



# More about Jabra Engage Series

## The world's most powerful professional headset\*

- Provides superior wireless connectivity to a range of up to 150 meters/490 feet, enabling **3x more users** in the same office space – with no loss in connection quality.
- Advanced noise cancelling microphone and enhanced speakers deliver crystal-clear calls **even in noisy offices**. Meets Skype for Business Open Office requirements.\*\*
- **All day battery life** and a **busylight** that acts as a do-not-disturb sign for colleagues.

## Why Jabra

Different working environments, office layouts and interiors present an almost infinite variety of challenges when planning the effective deployment of multiple wireless headsets in a limited space. As a world-leading supplier of wireless headset solutions, Jabra has many years of experience helping customers deploy effective wireless solutions on their premises.

Find out more about your options in your particular location and workplace environment by contacting Jabra customer service, where experts are available to discuss your particular needs and how best to address them.

[jabra.com](http://jabra.com)

\* Relates to Jabra Engage 75/65 Stereo and Mono variants. February 19, 2018. See facts on [jabra.com/commercial-claims](http://jabra.com/commercial-claims) \*\* Variant dependent

Jabra Engage Whitepaper Security – 09/02/2018  
© 2018 GN Audio A/S. All rights reserved. ® Jabra is a registered trademark of GN Audio A/S.  
The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by GN Audio A/S is under license.