



INTERVIEW THE EXPERTS



## Q&A

By Gerald Chuah

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**T**WELVE years ago, Extro Code Sdn. Bhd., a Malaysian company based in Kota Damansara developed the Smart Weapon Storage (SWS) system, and further enhanced it last year, to offer improved access efficiency, safer weapon storage, and better monitoring compared to the old model.

The pressing need for a better weapons control system led to the design and construction of the state-of-the-art SWS system as the answer to mass weapon storage.

Extro Code Technical director Mohamed Zaki Sulaiman said the main purpose of using SWS is to have an effective, smooth operation and reliable system which can improve weapon's storage security.

He said: "Extro Code is proud to say that the SWS system is 100% Malaysian made technology, created and manufactured in Malaysia,

"We have exported SWS to the army and police worldwide including Thailand and UAE. Other countries currently doing valuation and testing of the product are Brunei and South Africa."

"Our potential client includes the military, police, prison, custom, immigration and security guard providers, etc."

Zaki added the company is looking forward to introduce the system to the Malaysian Police, Army, Navy and all other government departments in need of a real time weapons storage facility.

Recently, Extro Code set up a booth to showcase the Smart Weapon Storage system at Defense Services Asia (DSA) 2014 exhibition, held at PWTC, Kuala Lumpur from April 14-17.

During the exhibition, a total of 1000 companies from 60 countries displayed some of the world's most sophisticated hardware and electronic warfare equipment for land, air and sea defence, besides battlefield training and simulation systems.

Among the international exhibitors were from Australia, Austria, Brazil, Bulgaria, China, Czech Republic, France, Germany, Indonesia, Italy, Russia, Slovakia, South Korea, South Africa, Sweden, Turkey, United Kingdom and United States.

**SAFETY FEATURES**

Zaki said the uniqueness of SWS is that, it is the first mechanical electronic weapon control system in the world, created to address missing firearm issues and security of firearm storage.

"Conventionally, weapons are stored



During the DSA 2014, Inspector General of Police Tan Sri Khalid Abu Bakar visited the SWS booth

Technical director Zaki Sulaiman

# SMART WEAPON STORAGE

Time and again, history has proven the need for a better system to control the access and storage of mass weapons. The pilferage of weapons at armories across the world, the terrorist attack at the Army Depot in Southern Thailand, which led to a tragic loss of many lives, as well as the hijack of assorted weaponry from 304 Territorial Camp in Hulu Perak in July 2000 are grim reminders of the inadequacies of the existing systems of mass weapons storage.

using chains, padlock and cabinets. This traditional weapon control method is vulnerable to various elements which significantly reduce the effectiveness and integrity of such systems,

"The innovative SWS system combines fingerprint identification with real time transaction record through software for monitoring purposes, to help eliminate manual recording errors of the locking procedures."

Zaki added with SWS, all weapons will be tagged using latest RFID technology and locked. Users with valid fingerprint will be able to gain access to their weapons and all operation will be recorded for reporting.

The SWS also has multiple built-in sensors to protect against unauthorised vandalism. For example, the use of alarm spray to delay the intruder while waiting for support to arrive.

Other safety elements include unauthorised duplication of keys and internal manipulation of data by personnels, which compromises its security and utility.

**The list of SWS security features include:**

- Securing multiple weapons at one time
- Fingerprint reader identification with

LCD and keypad

- Time zone control – users can have different level of time access
- Integration with surveillance system (CCTV) and alarm system
- Emergency release/override with special key
- Minimises human error on reporting, securing weapon and weapon misuse
- Multiple reports – late return, missing weapon, alarm etc.
- Fingerprint with pin mode option to release weapons

**USAGE**

In order to access the weapons, users have to first register his/her fingerprints to the SWS and configure the access level. In order to access the weapons, the user has to place his/her fingerprint to the fingerprint reader for verification; and if the fingerprint is valid, the configured access weapon slot will be opened to allow the user to take weapon.

All transactions will be recorded in the software - time of weapon taken, time of weapon return, alarm detection, slot open, slot close, duress alarm,

emergency door open, emergency door close, valid access and weapons missing.

This transaction can be viewed on the software report for tracking/audit purposes. If there is any alarm detected on the system, SWS will activate the CCTV, siren, strobe light or alarm system (if connected) for extra alert.

In any case of system malfunction, there will be an emergency override to release all weapons.

**SUMMARY**

The Smart Weapon Storage (SWS) is one of its kind firearm weapon securing system, available in the market today which brings a higher level of security and maintenance of firearm weapons.

It is designed as a security system to be used mainly by the Police force, Ministry of Defence – Armed forces, Navy, Army Base, and security firms.

By using SWS, firearm weapons can be safely secured, controlled, monitored and tracked, to provide better efficiency and effectiveness.

For details, email: Extro Code Sdn. Bhd. at [enquiry@extrocode.com](mailto:enquiry@extrocode.com), or visit their website at [www.extrocode.com](http://www.extrocode.com).

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