

CLAVIGER

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AAMIG

Australia-Africa Mining Industry Group



Intelligent Security: Managing Risk in Deployed Environments

Troy Park Managing Director and Chief Operating Officer

Shane Britten Senior Intelligence and Security Specialist

INTELLIGENCE AND SECURITY

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TECHNICAL ANALYTICS

Software Solutions
Training and Support
Social Media Analysis



INTELLIGENCE AND SECURITY

Security Risk Assessments
Investigations Training and Support
Security Awareness Training
Personal Information Security



SPECIAL PROGRAMS

Specialist Training and Support
Identity Operations
Forensics and Exploitation



CLAVIGER

Clav 'i 'ger, n. [L., fr. clavis key + gerere to carry.]

One who carries the keys of any place.

Webster's Revised Unabridged Dictionary.

Topics for Discussion

1. The current threat environment
 - i. Politically motivated violence, including terrorism
 - ii. Espionage
 - iii. Insider threats
2. Technology and security
3. People and security
4. What can be done?
 - i. Eyes wide open
 - ii. Intelligent security and risk management

Politically Motivated Violence

The Current Threat Environment

- First time in history – Australia's terror threat level raised from Medium to High
 - i. Terrorist attack is likely
- Australians more geographically disperse than ever before
- More than 100 Australians killed, 1500 injured or involved in terrorist attacks worldwide

The Current Threat Environment

- Islamic State – growing threat
 - *'It is very important that attacks take place in every country that has entered into the alliance against the Islamic State, especially the US, UK, France, Australia and Germany'*
- Evolving *modus operandi* and technical proficiency
- Intelligence tradecraft and penetration
- Kidnap and ransom

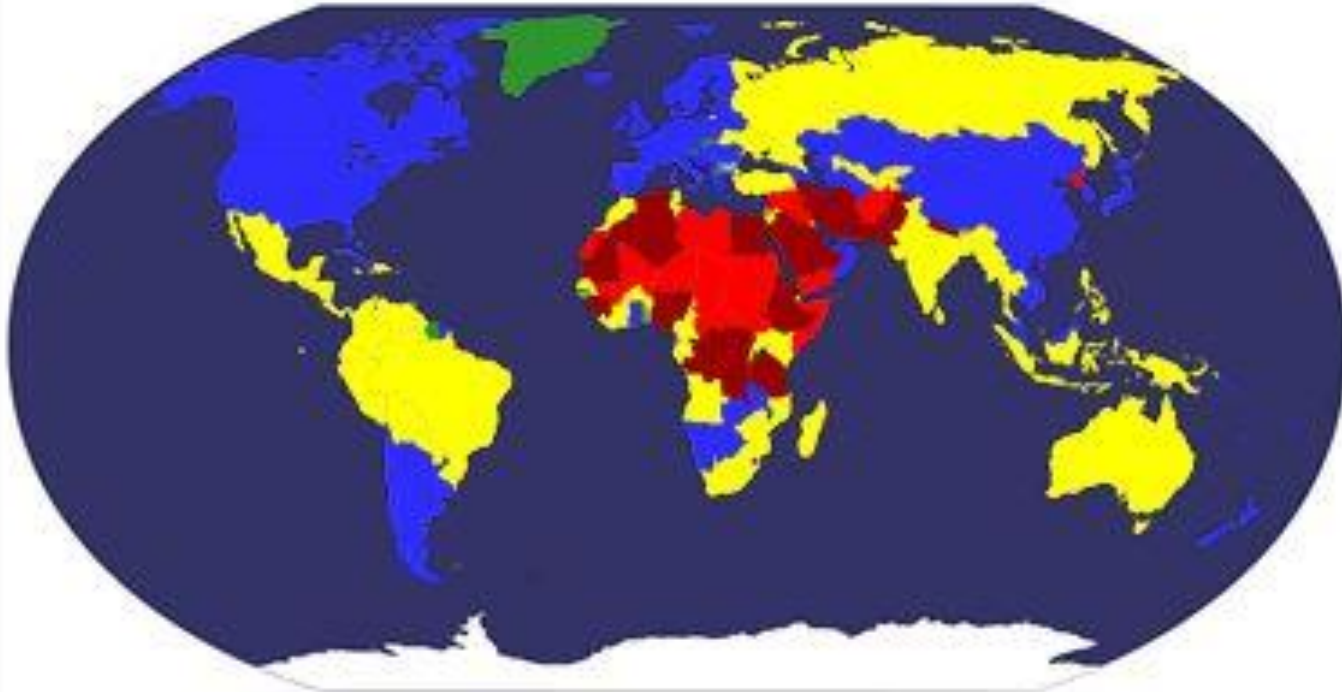


The Current Threat Environment

- Kidnap and ransom tactics significantly increasing
 - Significant money making potential
 - Asymmetrical results
- 2014 – IS earn \$45m ransom
- Since 2008 – al-Qa'ida earn \$125m
 - September 11: \$400,000
 - Bali 2002: \$25,000



Country Travel Advice



- Do not travel
- Exercise a high degree of caution
- Do not travel
- Exercise normal safety precautions
- Reconsider need to travel

The African Threat Environment

- Local groups increasingly connected to global motivations
 - i. Al-Shabaab allegiance to al-Qa'ida
 - ii. Boko Haram
 - iii. North African groups into AQIM
- Spiritual leadership from IS
- Domestic and criminal groups:
 - i. United by social disenfranchisement, poverty
 - ii. Connected by concept of revolution

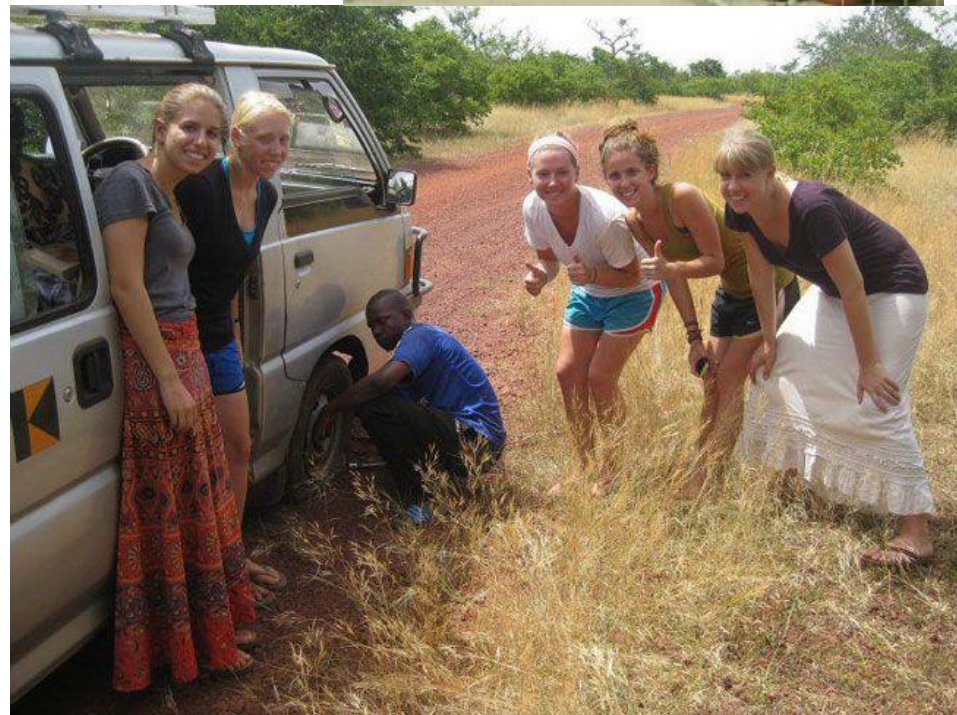


The African Threat Environment

- Endemic corruption and criminality driven by poverty, famine:
 - i. 75% of world's poorest countries
 - ii. 10 countries with high proportion of extreme poverty
 - iii. 589 million people live without electricity
 - iv. 38% of the world's refugees
 - v. Over 230 times more likely to die during childbirth
 - vi. The 28 countries with lowest life expectancy are African

The African Threat Environment

- The result is spontaneous, short-burst, unpredictable crime or violence
- Opportunistic – intent driven by need
- Access to weaponry and people resources
- Colonial animosity, cultural divide, perceived wealth and affluence



Espionage

The Current Espionage Threat



The Current Espionage Threat

- State intelligence services:
 - i. Sophisticated
 - ii. Capable
 - iii. Resourced
 - iv. Aggressive
 - v. Access
 - vi. Scope – commercial not just government
 - vii. Tactical targeting (technology vs tradecraft)

The Current Espionage Threat

- Corporate intelligence gathering:
 - i. Range of sophistication levels
 - ii. Former government officers
 - iii. Often high priority for companies
 - iv. Aggressive, limited ethical or legislative restraints
 - v. Specific targeting
 - vi. Multi-vector approaches



Travel and Espionage

- You are the target
- Travel exponentially increases risk
- Threat is not limited to certain countries
- Home countries – high dividends, low risks
- Compromise for future gain
- You are the target!



Visitors and Espionage

- Significant, regular, repeated espionage activity
- Competitor opportunity to collect and elicit information
- Exploit natural courtesy
- Last minute visitor changes
- Unauthorised recording devices, inappropriate questions
- Offended or belligerent if confronted



Visitors and Espionage

- Examples:
 - i. Joint venture contract allowed 3 employees from one company to work at the other. The three employees attempted to take proprietary information out of the host's facility in boxes labelled as personal belongings.
 - ii. Foreign visitors put double-sided tape on the soles of their shoes to collect slivers of metal alloys from a production plant for US military planes, later analysed the slivers to determine the exact metallic components used.
 - iii. Under the pretext of reading a text message, visitor used phone camera to photograph a trade secret device. Photos emailed to engineers who produced a similar product.

Insider Threat

Insider Threat



- Unauthorised access, use or disclosure of privileged information, techniques, technology, assets or premises by individual with legitimate or indirect access
- One person can cause disproportionate damage
- Increased threat from Gen Y
 - i. Self-entitled, cause-champion, limited loyalty and patience, demanding, arrogant
- Every company is vulnerable to the insider threat
 - i. That means you – don't avoid this fact

Four Types of Insider Threat

- Deliberate Insider
 - i. Obtain employment with deliberate intention of abusing access for financial gain or to cause harm
- Self-initiated (volunteer)
 - i. Actions undertaken of own volition (ideology) and not directed by third party
- Exploited or Recruited Insider
 - i. Co-opted by third party to exploit access
- Unintentional insider
 - i. Does not intend or unaware of breach



Overcoming The Insider Threat

- Development of a strong security culture
 - i. Awareness
 - ii. Ownership
 - iii. Reporting
 - iv. Compliance
 - v. Discipline
 - vi. Challenge
- Senior sponsorship and example setting



IS THIS YOUR CSO'S DEFENSE AGAINST MOBILE THREATS?

Insiders are a greater threat to security than cyber attacks, says former WikiLeaks investigator

More Info: Insider Threat

- Complicated, multi-faceted issue
- No simple answer
- Escalating issue
- Requires specific focus
- *Everyone* can be a potential insider
- Adaptive, robust, intelligent security



Technology and Security

Technology and Security: Some Truths

- Technology enables business
- Business relies on technology
- Technology is vulnerable to exploitation
- Technology can make business insecure
- Even strict rules cannot prevent compromise
 - i. Example
- There is no easy answer

Technology and Security: Some Truths



- Motion Calibration
- Setting Time Zone
- Share My Location
- Spotlight Suggestion
- Wi-Fi Networking
- Frequent Locations** On >



Settings

- Users
- Personal
 - Location** (High accuracy)
 - Security
 - Accounts
 - Language & input
 - Backup & reset

Location

- High accuracy
- Recent location requests
 - Fit (Low battery use)
 - Google App (Low battery use)
 - Google Play services (Low battery use)
 - Maps (Low battery use)

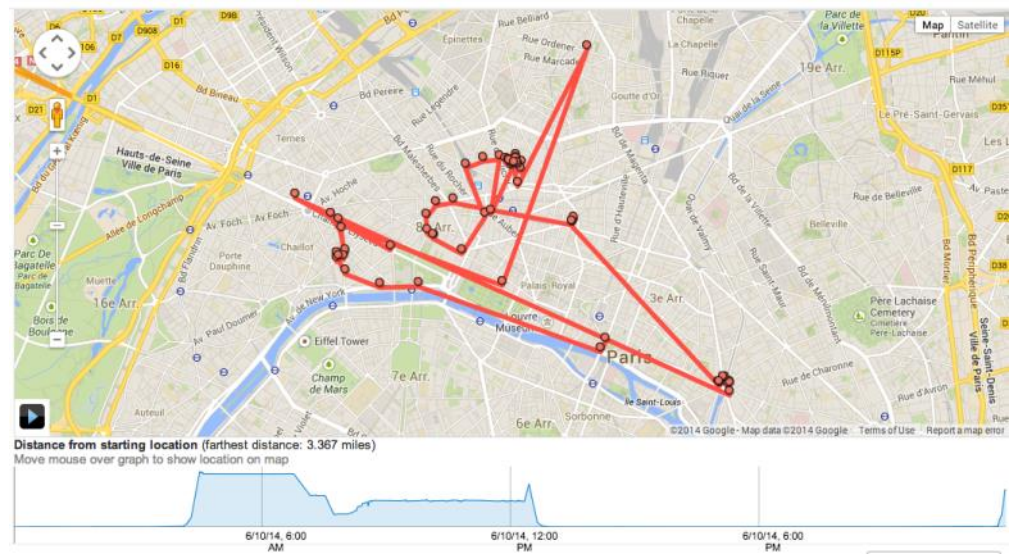
Location History

- On
- This device
 - XT1032 (Location last reported: May 6, 2015)
- Other devices on this account
 - OPCV1 (Location last reported: May 6, 2015)
 - Nexus 9 (Location last reported: May 6, 2015)
 - iOS device (Location last reported: unknown)

Location History allows Google to regularly obtain location data from the devices selected above, even when you aren't using a Google product. [Learn more.](#)

Duluth Visits

Address	Time
343-399 E Palm St	6:05 AM - 2:39 PM
42-56 Railroad St	8:59 AM - 1:31 PM
Miller Hill Mall	9:08 AM - 2:51 PM
Access Rd	6:33 AM - 3:32 PM
2300-2498 Morris Thomas Rd	12:53 PM - 2:06 PM



Problem Solving

What Can Be Done?

- Eyes wide open
 - Situational awareness training
 - Pre-deployment briefing
 - Up-to-date location knowledge and contextualised briefings
 - Security policies, procedures, guides for staff
 - Regular reviews/audits
 - *'Put the antenna up'*



What Can Be Done?

- Smart and selective use of technology
 - Technology 'bubbles'
 - Disposable deployment technology
 - Offer convenient alternatives
 - Raise risk awareness
 - Regular review and audits
 - Red Cell exercises



What Can Be Done?

- Intelligent Risks
- Provide a framework, guidance, policies
- Security factored into decision-making
- Regularly reviewed and audited
- Contract expertise and up-to-date briefings
- Challenge systems, procedures, staff



What Can Be Done?

- Pre-travel security briefings
- Limit sensitive discussions in hotel rooms or public
- Laptop or documents as carry-on
- Report incidents to security
- Post-travel de-briefing
- Security structure for visitors/guests



What Can Be Done?

- IT Security is not the complete answer
- The most secure system is controlled by a person
- Travelling and security are not friends
- Foreign environments degrade security
- Awareness is the most vital element of security
 - Build it, maintain it, challenge it



Claviger: Lessons Learned

- Regular security awareness sessions are key
 - Establish the importance of security and the credibility of your security officers
 - Push out information on security incidents/threats
- Ownership of security and vulnerabilities
- Robust security policies, procedures, a manual for staff and security agreements
- Security reviews, including independent
- Quick response and quarantine capability

Claviger: Lessons Learned

- Situational awareness training is vital to manage personal security and legal liability in foreign countries
- This should cover personal safety and security
 - The lessons required are not complex or time consuming
 - There is no better time to start than now
 - A tailored solution is vital for success
- You are the target even if you don't know it
- *YOU ARE BEING TARGETED!*

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Contact Us

Claviger Pty Ltd
ABN 17 151 281 042

218 Northbourne Ave
Braddon ACT 2612 Australia
PO Box 504
Mitchell ACT 2911 Australia

Tel: +61 2 6156 0536
www.clavigergroup.com.au

CLAVIGER

Shane Britten
Senior Consultant, Intelligence Solutions

Head Office: 218 Northbourne Ave, Braddon ACT Australia 2612
m: +61 (0)400 977 096 t: +61 (0)2 6156 0536 f: +61 (0)2 6156 0647
e: shane.britten@clavigergroup.com.au

www.clavigergroup.com.au

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