

INTRODUCING DARKMATTER: A UAE BASED CYBER SECURITY COMPANY

MAY 2016



GUARDED BY GENIUS

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**UAE ORGANIZATIONS DESIRED A
TRUSTED LOCAL PARTNER WITH GLOBAL
EXPERTISE CAPABLE TO PROVIDE THE
ENTIRE SPECTRUM OF CYBER SECURITY
SOLUTIONS**



01

**DARKMATTER:
GUARDED BY GENIUS**

WHO WE ARE

**UAE
Headquartered**

**The world's
elite cyber
security talent**

**Trusted to
protect the
nation**

**Offering the
complete
portfolio of
cyber security
solutions**

**Driving &
developing
the next
generation
cyber solutions**

WE HAVE GATHERED SOME OF THE WORLD'S BEST TALENT...



Harshul Joshi
Senior Vice President
Cyber Governance, Risk &
Compliance



Stephen Brennan
Senior Vice President
Cyber Network Defence



Eric Eifert
Senior Vice President
Managed Security Services



Michael Pak
Senior Vice President
Secure Communications
Engineering



Scott Rea
Senior Vice President
Public Key Infrastructure



Dr. Robert Statica
Senior Vice President
Technology and Research



Dr. Najwa Aaraj
Senior Vice President
Special Projects



Chris Bender
Vice President
Engineering & Product
Management



Paul Lawson
Vice President
Infrastructure &
System Integration



Suresh Bollapragada
Vice President
System & Architecture

...TO ADDRESS THE MOST ADVANCED CYBER THREATS



CYBER NETWORK
DEFENCE



GOVERNANCE, RISK
& COMPLIANCE



MANAGED SECURITY
SERVICES



NATIONAL PUBLIC KEY
INFRASTRUCTURE



SECURE
COMMUNICATIONS



INFRASTRUCTURE
& SYSTEM
INTEGRATION



SMART
SOLUTIONS

DARKMATTER CAN SUPPORT THE UAE IN COMPLEX NATIONAL CYBER INITIATIVES

Government
Secure
Communications

Superior Cyber
Security
Centre

Smart City
Cyber Security

Elite Cyber
Academy

National Root
Certificates

National Crypto
Suite



02

OUR CAPABILITIES



GOVERNANCE, RISK & COMPLIANCE

GOVERNANCE & STANDARDS

As strategic partner to the UAE government and with senior members of our leadership team developing globally recognised national and international standards, DarkMatter is uniquely positioned to help customers address all aspects of governance, risk and compliance.



Risk Assessment

Audit Readiness
Assessments



Compliance

NESA UAE IA controls
assessments
Vertical based compliance
and risk assessments

- Oil and Gas
- Government
- Finance



Cyber Regulations

Smart City Cyber security
regulations
Standards development



GRC Platform implementation

Implementation of Industry
leading GRC platform
Business process redesign



CYBER NETWORK DEFENCE

ADVANCED THREAT DETECTION & REMEDIATION

Our multi disciplinary team provides a suite of security assessments, forensic and incident response services designed to help our clients to understand the threats and vulnerabilities they face and determine how best to manage them.



Security assessment
Technology compliance
Vulnerability assessment
Penetration testing
Application security



Incident response
Cyber Incident Readiness
Emergency / Critical Response
Incident Management
Digital Forensics



Active defence & advanced research
Social Engineering Assessment
Malware and Reverse Engineering
Advanced Threat Intelligence
Limited Stealth Operations
Expert Services



Digital investigative services
Digital / Mobile Forensics
E-Discovery
Data Recovery
Password Recovery



MANAGED SECURITY SOLUTIONS

NETWORK MONITORING & INCIDENT RESPONSE

Round the clock, security monitoring, remediation and resolution service providing peace of mind to organisations regarding their operations and networks.



On Premise Security Operations Centre

Manage On-Premises Security Operations Centres
World class on-site Intrusion Monitoring, Incident Analysis, Investigation and Response
Continuous Monitoring as a service



Managed Remote SOC

Remote monitoring, remediation and resolution
Advanced Correlation Analysis
We work with you to plan and define a scalable cyber security solution



Advisory and Design of SOC

Conduct gap assessments and provide recommendations
Develop use cases to determine capabilities
Review current infrastructure, workflows, SLA/SOPs



SECURE COMMUNICATIONS

DELIVERING PRIVACY & CONFIDENTIALITY

We provide services and products targeted at protecting the confidentiality and integrity of voice; chat, email and overall data communication over the mobile network and landline.



Secure communication products

- Hardened Android OS
- Hardened IP Phone
- Voice, Chat and email
- File sharing
- News
- Calendar
- Emergency alerting
- News application
- File sharing



Advisory & Assessment of Products

- Cryptographic algorithms
- Cryptographic implementation
- Secure requirements and architecture
- Design and implementation reviews
- Security response



Managed Service

Products hosted, managed and secured within our infrastructure.

On-premise deployment within the client's infrastructure.



INFRASTRUCTURE & SYSTEM INTEGRATION

TRUSTED INFRASTRUCTURE

Managing projects from initiation and planning through to execution and completion.
Designing the tools, services, software and hardware to deliver bespoke infrastructural and technical solutions, guaranteed inherent security tailored to every organisations needs.



Technical architect

- Virtual assessment
- IT security assessment
- Infrastructure assessment
- Critical facilities assessment
- Identify sophisticated and customised solutions



Implementation

- Implementing the solution infrastructure
- Configuring and integrating the solution components
- Working closely with technology partners to deliver world-class deployments
- Greenfield, brownfield, service transition deployments and migrations



Project management

- Evaluate needs
- Planning & execution
- Project delivery



SMART SOLUTIONS

INNOVATIVE PHYSICAL SECURITY

Smart Solutions offers a comprehensive security suite of services comprising four elements of protection for both home and businesses.



Secure Home & Office

- Access Control
- Wifi
- CCTV
- Parental Monitoring



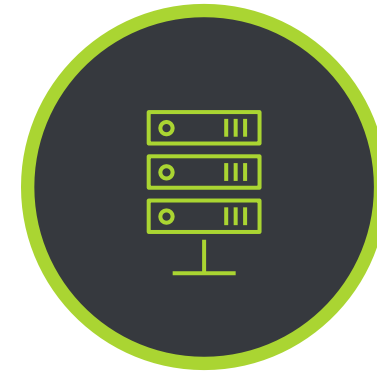
Technical Surveillance Countermeasures

- Assessment
- Procurement
- Sweeps
- Monitoring
- Training



Mobile Peace of Mind

- Express Mobile Device Repair
- Mobile Monitoring Services
- Secure Data Transfer



Trusted Hardware Supply



NATIONAL PUBLIC KEY INFRASTRUCTURE

PROMOTING NATIONAL TRUST

National PKI program aims to provide interdisciplinary national trust establishment, achieve full international interoperability, and enable the foundational services required for a digital economy

National PKI Strategic Objectives

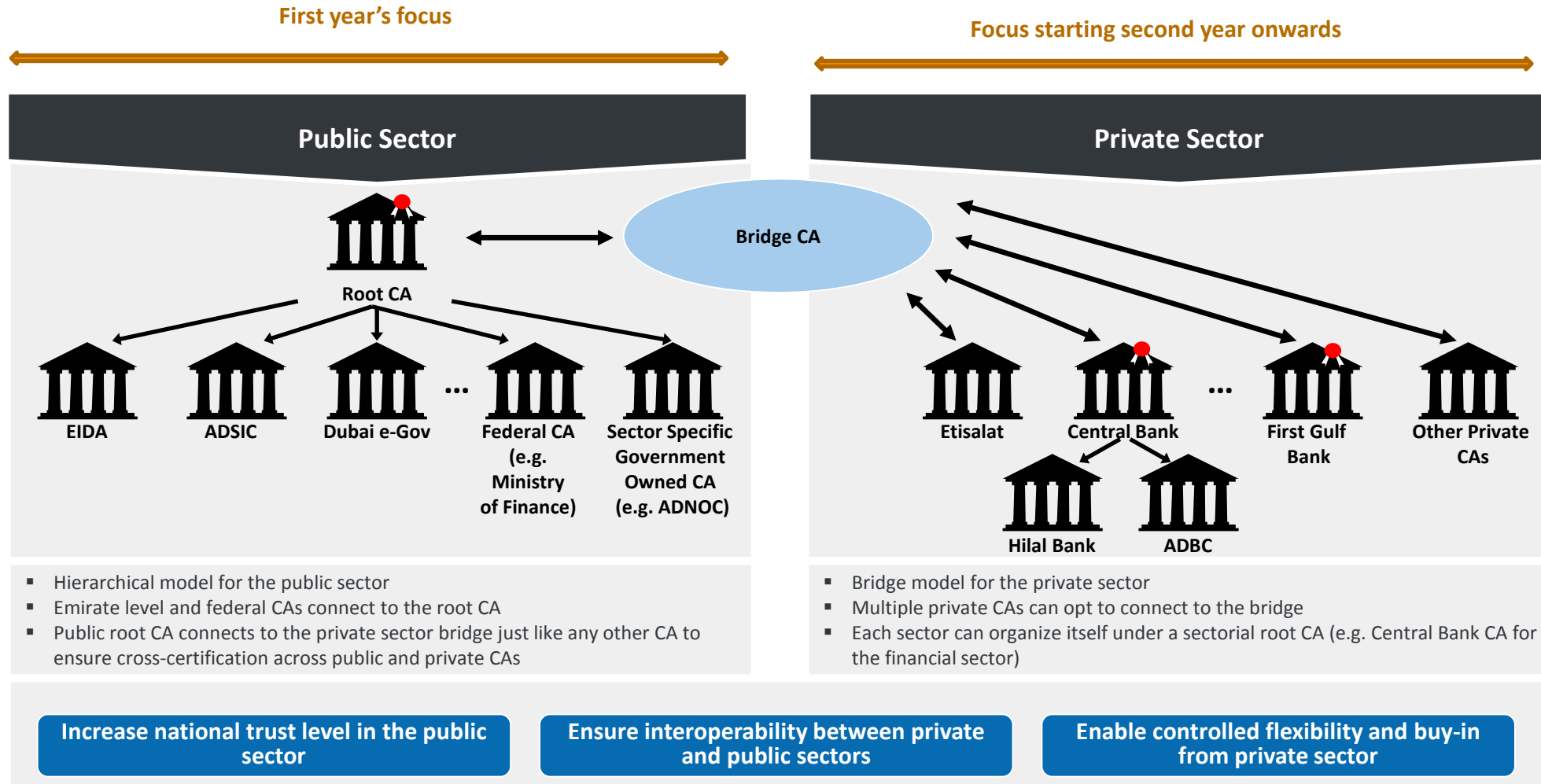
- Establish and operate national trust anchors
- Increase the uptake of digital certificates as enablers of electronic transactions
- Provide digital certificate provisioning services to public and private entities
- Obtain international recognition for the national root CAs
- Provide national and international trust interoperability through cross-certification
- Improve the UAE legal environment to enable the national CA services
- Influence the adoption of strong security standards on the international stage that are set nationally and promote UAE as a leading security community
- Establish a governance model that enables control while promoting innovation
- Encourage collaboration of all stakeholders to improve the national CA ecosystem



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THE PUBLIC KEY INFRASTRUCTURE

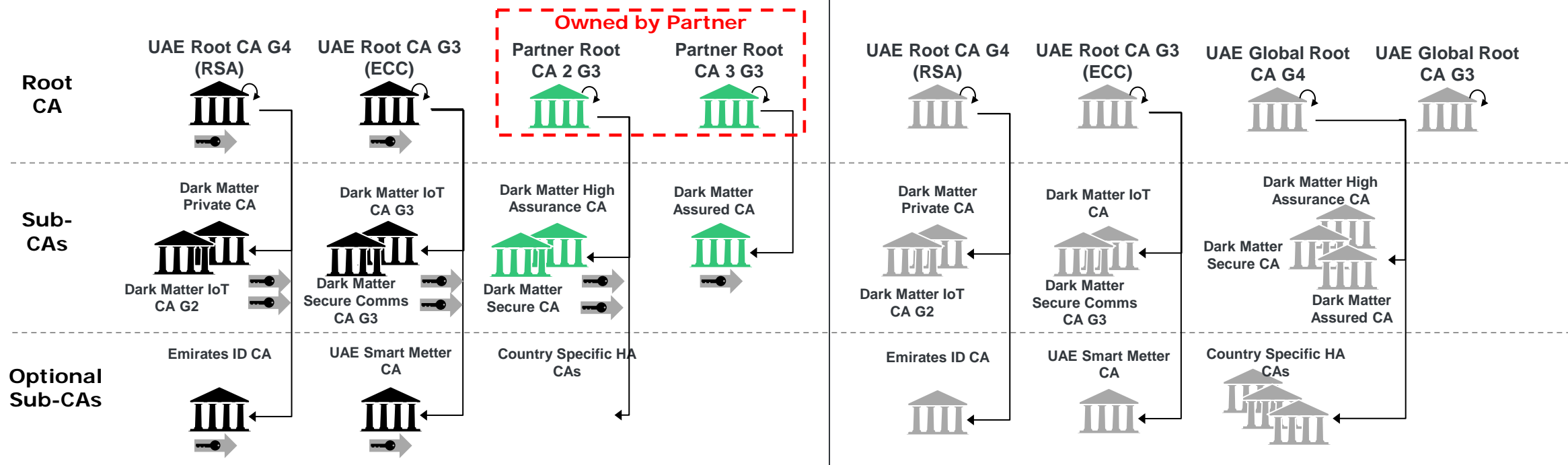
NATIONAL CA STRUCTURE



UAE NATIONAL CA ARCHITECTURE

Interim Solution – Foreign Infrastructure

On-Prem Solution – UAE Infrastructure



DARKMATTER PKI STATUS

- UAE Infrastructure being built out
 - Production and DR sites being configured
 - EJBCA platform with FIPS140 Level 3 HSMs
 - Modular architecture with separation of CA, RA, VA modules where needed
 - Significant expansion of RA module to facilitate Managed PKI use cases
 - Expected to be operational and WebTrust audited December 2016
- Engagement of International Trust Partner
 - Using established CA to bootstrap trust for a few years while UAE Roots are embedded and deployed in parallel
 - Gradual cut over to UAE Roots
 - 2 Roots & 7 subCAs already created
- Transition from Partner infrastructure to DarkMatter
 - Transition will be completed prior to end of 2016
 - Once DM is WebTrust audited and capable of receiving transfer of publicly trusted CAs.

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DARKMATTER + IGTF

DARKMATTER + IGTF

- DarkMatter is seeking IGTF accreditation of 2 Classic CAs
 - Will be ready to submit CP/CPS within a week
 - (NOTE: CPS updates required to accommodate partner)
 - Will be operational in that time frame also
- Ankabut in the UAE
 - The Ankabut Project is the UAE Advance Network for Research and Education
 - Founded in August 2006 by Khalifa University, Institute of Applied Technology, United Arab Emirates University, Zayed University and Higher Colleges of Technology
 - Currently has 26 Universities as participating members
 - Wish to provide members access to National Grid Initiatives and also EGI participation
- DarkMatter is seeking IGTF Accreditation so it is in a position to provide Ankabut services needed to participate in target initiatives
 - Potentially not required for national grid initiatives but why not kill two birds with one stone?

Questions?

Scott.Rea@DarkMatter.ae

THANK YOU



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