



**CCII Systems (Pty) Ltd**  
**Suritec Geospatial (Pty) Ltd**

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**2018-05-29**

***Qinisa***

**Vehicular  
Command and Control System**

**[www.cci.co.za](http://www.cci.co.za)**

**[www.suritecgeospatial.co.za](http://www.suritecgeospatial.co.za)**

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# Company Overview



- **Real-time systems development and reliable data communications**
- **Systems architecture and implementation of complex, distributed, real-time control and management systems**
- **Specific capabilities in :**
  - ▶ **Systems Engineering**
  - ▶ **Software Engineering**
  - ▶ **Networking Solutions**
  - ▶ **Data Communications**
  - ▶ **Remote Monitoring and Control Systems**
  - ▶ **Renewable Energy Monitoring Systems**
  - ▶ **Project Management**
  - ▶ **Logistic Support**
  - ▶ **Obsolescence Re-Engineering**

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# Company Mission



**C<sup>2</sup>I<sup>2</sup> Systems's mission is to provide ...**

- Value-Added
- Cost-Effective
- Multi-Disciplinary

**... system solutions in the segments of :**

- Defence Electronics
- Renewable Energy Systems
- Remote Monitoring Systems

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# *Qinisa*



## **Vehicular Command and Control System**

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An *applied information technology* system for :

- Armed Vehicular Mobility
- Command and Control
- Force Integration
- Blue Force Tracking
- Fratricide Prevention



# System Solution



- **Control Computer**
  - ▶ Hardware, Software
- **Positioning**
  - ▶ GPS
  - ▶ Other
- **Radios**
  - ▶ HF, VHF, UHF
- **Satellite Communications**
  - ▶ BGAN
  - ▶ Iridium
- **Satellite Communications**
  - ▶ GPRS, LTE
- **Intra-Vehicular Communications**
  - ▶ Local Area Networks (LANs)
- **Human-Machine Interfaces**
  - ▶ Ruggedised Notebook Computers, Ruggedised Tablets, Dedicated Consoles

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# Environmental Grade Options



## ■ Conduction-Cooled

- ▶ Ruggedised (-40 C to +85 C) **(preferred for military land mobile)**

## ■ Air-Cooled

- ▶ Ruggedised (-40 C to +85 C) **(acceptable for military land mobile)**
- ▶ Industrial (-15 C to +75 C)
- ▶ Commercial ( 0 C to +55 C)

# Company Accreditations

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## ISO 9001:2008

Certificate Number : 110102044/5

**ISO 9001:2015 fully prepared for external quality audit Q3 2018**

## Company CAGE Codes

US DoD CAGE Code : SL140

NATO CAGE Code : VC096

## Other Vendor Numbers

DUNS No. : 635 708 142

DUNS+4 No. : SM 21034

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# Company Facilities



## Real-Time House

- 850 m<sup>2</sup> purpose built offices, laboratories and specialist facilities
- system integration area
- own board low-rate facilities
- own board and system
- assembly facilities
- Environmental Test Chamber
- own Conformal Coating Room

### Address

Greenford Office Estate  
Punter's Way  
Kenilworth  
Cape Town



## Real-Time House

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# Development Facilities



## Electronic Development Laboratory



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# System Integration Facilities



## System Integration Laboratory



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# Manufacturing Facilities



## Low-Rate Production, Assembly, Test and Repair



**Final Assembly**



**Inspection and Repair**

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# Environmental Test Facilities



## Environmental Test Chamber



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# Logistic Support

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**C<sup>2</sup>I<sup>2</sup> Systems can offer a programme supply contract to provide :**

- **Logistic Support Analysis (LSA)**
- **Prime Mission Equipment**
- **Peculiar Support Equipment**
- **1st, 2nd, 3rd and 4th Line Spares (onboard, onshore, depot, factory)**
- **User Training**
- **Maintainer Training**
- **Documentation**

# Obsolescence Management

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Use of COTS sub-systems and components has associated :  
**obsolescence implications**

- Product-specific configuration control
- End-of-Life monitoring
- Last Time Buy notification
- Long-term chipset stockpiling
- Emulation of IC Chipsets in FPGA
- **Obsolescence Re-Engineering**
- etc.

# Customer Base

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- Indian Defence Force
- Italian Army
- Italian Navy
- Kuwaiti Naval Forces (KNF)
- French Navy
- Japanese Self-Defence Force
- NATO Air Force
- Royal Navy (RN)
- SA Navy (SAN)
- South Korean Navy
- Swedish Navy
- US Department of Defence
  - ▶ US Air Force (USAF)
  - ▶ US Army
  - ▶ US Marine Corps (USMC)
  - ▶ US Navy (USN)



# Contact Details



## Who to Contact

**Richard Young** - **Managing Director**

**Wouter de Waal** - **Development Manager**

## CCI Systems (Pty) Ltd

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# Contact Details

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## Who to Contact

**Ryno Goosen** - **Managing Director**

**Hallam Ford** - **Director**

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# The End

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This concludes the presentation for the :

*Qinisa Vehicular Command and Control System*

For more information on our products, services, press releases, etc., please visit our website at :

[www.cci.co.za](http://www.cci.co.za)  
[www.suritecgeospatial.co.za](http://www.suritecgeospatial.co.za)

*Thank  
You*