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DATE 22 August 2017  
To **The Executive Mayor**  
**P de Lille**

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**ITEM 02/22/08/17**

Dear Madam Mayor,

The **attached** undermentioned Feedback Trip Report is submitted to you for consideration and noting:

**FEEDBACK ON ATTENDANCE OF THE TETRA AND CRITICAL COMMUNICATIONS WORLD CONFERENCE 2017**

  
pp Mrs Rehana Razack  
Manager: Executive Committee Services  
Office of the Executive Director: Corporate Services



REPORT TO THE EXECUTIVE MAYOR

LC 18916

1. ITEM NUMBER

2. SUBJECT

FEEDBACK ON ATTENDANCE OF THE TETRA AND CRITICAL COMMUNICATIONS WORLD CONFERENCE 2017

ONDERWERP

TERUGVOERING OOR BYWONING VAN DIE 'TETRA AND CRITICAL COMMUNICATIONS'-WÊRELDKONFERENSIE 2017

ISIHLOKO

INGXELO EMALUNGA NOKUZINYASWA KWENKOMFA ENGE-TETRA NENGEZONXIBELELWANO OLUPHAMBILI KWIHLABATHI YANGO-2017

3. EVENT SUMMARY

EVENT DETAILS	
CONFERENCE / SEMINAR	Tetra and critical communications world conference 2017
OTHER	Sponsored trip by organizers to deliver a presentation
DATE	16 to 18 May 2017
VENUE	International Conference Centre
CITY	Hong Kong
COUNTRY	Hong Kong

RECEIVED AT THE CITY MANAGER'S OFFICE  
Date: 08/08/17 Time: 13:38  
By: (Print Name) Zizipho  
Signature: [Signature]

Making progress possible. Together.

[Signature]



ATTENDEE DETAILS	
NAME AND SURNAME	DESIGNATION
Thomas A Bosman	MANAGER: TELECOMMUNICATIONS
<p align="center"><b>PROVIDE SUMMARY OF HOST ORGANISATION / CITY</b></p> <p>KNect 365 is the marketing company responsible for hosting the TETRA and Critical Communications conference in Hong Kong.</p> <p>With their last visit to Cape Town to arrange the Africa.Com event in Cape Town, they enquired whether the city would be interested in participating in the event as a guest speaker.</p>	

#### 4. OBJECTIVE

Apart from the main reason for the attendance being presenting a South African case study on transitioning to digital in a fragmented region, the following benefits were realised:

- Invaluable information on the future development and deployment of TETRA technology
- The readiness of the Long Term Evolution (LTE) for commercial deployment and especially readiness for public safety system deployment
- The phasing in of LTE networks to either replace TETRA versus keeping TETRA for voice and deploying LTE for broadband data.
- Availability of new radio devices

Further details of the sessions attended are provided under paragraph 10. The presentation is available on request.

#### 5. OUTCOMES

- ☐ - Partnership Agreement
- ☐ - Membership Agreement
- ☐ - Grants Agreement
- ☐ - Memorandum of Understanding
- ☐ - Statement of Intent
- ☒ - Other



*This visit was purely a visit to deliver a presentation and to attend the TETRA and Critical Communication conference*

**6. ACTIONS REQUIRED**

*None*

**7. IMPLICATIONS**

- |            |  |  |                              |
|------------|--|--|------------------------------|
| <b>7.1</b> | <b><u>Constitutional and Policy Implications</u></b> | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> |
| <b>7.2</b> | <b><u>Environmental implications</u></b>             | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> |
| <b>7.3</b> | <b><u>Financial Implications</u></b>                 | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> |
| <b>7.4</b> | <b><u>Legal Implications</u></b>                     | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> |
| <b>7.5</b> | <b><u>Staff Implications</u></b>                     | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> |
| <b>7.6</b> | <b><u>Risk Implications</u></b>                      | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> |

**8. OTHER SERVICES CONSULTED**

Not applicable

**9. RECOMMENDATIONS**

**RECOMMENDED that:**

It be noted that Mr T Bosman attended the TETRA and Critical Communications conference in Hong Kong between 16 and 18 May 2017

**AANBEVELINGS**

**DAAR WORD AANBEVEEL dat:**

daar kennis geneem word dat mnr. T Bosman tussen 16 en 18 Mei 2017 die 'TETRA and Critical Communications'-konferensie in Hong Kong bygewoon het.





## IZINDULULO

### KUNDULULWE ukuba:

Kufuneka kuqatshelwe ukuba uMnu T Bosman uye wazimasa inkomfa enge-TETRA nengezoNxibelelwano oluphambili ebise-Hong Kong phakathi kowe-16 nowe-18 kuCanzibe 2017.

## 10. GENERAL DISCUSSION

The City operates a Terrestrial Trunked Radio (TETRA) radio trunking infrastructure for the City's emergency and municipal services since 2000 and covers the Cape Metropolitan Area with approximately 14 000 radio users.

Apart from the main reason for the attendance being presenting a South African case study on transitioning to digital in a fragmented region the following benefits were realised:

- Invaluable information on the future development and deployment of TETRA technology
- The readiness of the Long Term Evolution (LTE) for commercial deployment and especially readiness for public safety system deployment
- The phasing in of LTE networks to either replace TETRA versus keeping TETRA for voice and deploying LTE for broadband data.
- Availability of new radio devices

Details of the presentation and sessions attended are available on request.

### **Exhibitions/Demonstrations**

During breaks the vast exhibition area were visited where over 50 developers, distributors and manufacturers of TETRA and LTE systems and ancillary equipment were exhibited.

It was good to see that all the major manufacturers such as Hytera, Sepura, Motorola, Airbus, Ericson and Siemens all attended and demonstrated their latest TETRA equipment and infrastructures. This demonstrates that TETRA is still the preferred public Safety voice platform for Europe and Africa

### **Presentation and live interaction by city of Cape Town**

The main reason for this sponsored trip was for the city to participate. Mr Bosman presented the city as follows:



A. Presentation on: South African case study: Transitioning to digital in a fragmented region

The following topics were covered:

- Background to South Africa
- Background of City of Cape Town
- City of Cape Town Telecommunications strategy
- Current state of play in South Africa with respect to radio communications and frequency spectrum
- Regulatory challenges
- 
- Plans and procurement
- 
- Closing comments

B. Live polling session

The following topics were covered and voted on by the audience:

Question 1: What are your organisations big challenges that keep you awake at night?

- Audience interactive question: The biggest challenge for critical communications industry is?
  - Technology selection
  - Securing investment – Selected answer
  - Cyber crime
  - Lack of vendor collaboration
  - Lack of education/understanding from decision makers

Question 2: What have been the big lessons you have learned from recent challenges/incidents? How would you change/improve your organisation?

- Audience interactive question: Are end users well enough equipped with today's technology to handle incidents and disasters?
  - Selected answer - Yes



Question 3: How do you see your organisation changing over the next 5 – 10 years?

- Audience question: What technology will have the greatest impact on end users in the future?
  - Video communications
  - Data analytics
  - Machine learning
  - IOT (Internet of things) – Selected answer
  - LTE/5G
  - Unmanned vehicles

### **Attendance of presentations and sessions**

Numerous presentations were attended where some stood out and it was interesting to note that the United Kingdom have decided to replace their current TETRA voice system with an LTE system for their public safety users. This is regarded as a very brave step but their decision was made easier due to availability of frequency and the necessary funding. With most European end users though, it seems to be a matter of waiting to follow others.


The following valuable lesson was learned in discussions held with suppliers:

One of the most practical ideas suggested by a supplier is to consider moving to LTE for the essential large data users but retaining the TETRA networks for users not requiring high bandwidth data, which is most of the city's users.

By implementing this in the City, scarce capital can be saved as well as the extremely limited frequency resources required for LTE, by implementing a LTE service only for mobile users requiring high bandwidth (mostly vehicles requiring CCTV streaming and SAP connectivity) and retaining the TETRA system for users requiring voice and low bandwidth (mostly hand portable radios)

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### **FOR FURTHER DETAILS CONTACT:**

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DIRECTORATE	Corporate Services
FILE REF NO	
SIGNATURE	

  
EXECUTIVE DIRECTOR

COMMENT:

NAME Lungelo Mbandazayo

DATE 2017 -07- 18

  
MANAGER INTERNATIONAL RELATIONS  
DR. DENVER VAN SCHALKWYK

COMMENT:

DATE 07.08.17

  
CITY MANAGER  
ACHMAT EBRAHIM

☒ SUPPORTED FOR ONWARD SUBMISSION TO  
MAYOR ☒ / MAYCO ☐ / COUNCIL ☐

☐ NOT SUPPORTED

☐ REFERRED BACK

DATE 10.08.2017

COMMENT:



*Kgk*

**LEGAL COMPLIANCE**

NAME ZARSEF KASKER  
TEL 021 400 1265  
DATE 14 AUGUST 2017

☐ REPORT COMPLIANT WITH THE PROVISIONS OF COUNCIL'S DELEGATIONS, POLICIES, BY-LAWS AND ALL LEGISLATION RELATING TO THE MATTER UNDER CONSIDERATION.

☐ NON-COMPLIANT

COMMENT:

FOR NOTING.

*Daelene Jrendse*

**MAYORAL COMMITTEE MEMBER**

NAME Daelene Jrendse  
DATE 2017.08.16

COMMENT:

**EXECUTIVE MAYOR**

PATRICIA DE LILLE

☐ SUPPORTED FOR ONWARD SUBMISSION TO MAYCO ☐ / COUNCIL ☐:

☐ PC RECOMMENDATION

☐ RECOMMENDATION AS CONTAINED IN ORIGINAL REPORT

☐ ALTERNATIVE RECOMMENDATION TO BE REFLECTED BELOW

☐ APPROVED I.T.O. DELEGATED AUTHORITY

☐ NOTED

☐ REFUSED

☐ REFERRED BACK

DATE \_\_\_\_\_