

	<b>Request for Information Specification</b>	<b>Gauteng Cluster</b>
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Title: **Request for Information: Micro-dotting & Tagging of Network Assets**

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## **1. Introduction**

Gauteng Cluster has been experiencing high theft incidents of network assets such as pole mounted transformers and miniature substations. Many of these incidents would leave customers without electricity supply for a prolonged period, which results in loss of production, loss of revenue, high replacement costs and compromised safety. In order to protect the network assets from theft, Gauteng Cluster has opted to deploy technology that would enable Eskom security officers to identify and recover the stolen asset, as well as to guarantee conviction of the criminals.

Thus, the objective of this request for information is to find out from the market which microdotting and tagging technology is available for network assets such as LV cable, MV cable, pole mounted transformers and miniature substations.

## **2. Supporting Clauses**

### **2.1 Scope**

#### **2.1.1 Purpose**

The objective of this request for information is to find out from the market which microdotting and tagging technology is available for network assets such as LV cable, MV cable, pole mounted transformers and miniature substations.

#### **2.1.2 Applicability**

This document shall apply throughout Eskom Holdings Limited Divisions.

### **2.2 Normative/Informative References**

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

#### **2.2.1 Normative**

[1] ISO 9001 Quality Management Systems

### **2.3 Abbreviations**

<b>Abbreviation</b>	<b>Explanation</b>
LV	Low Voltage, i.e. voltages below 1 000 volts.
MV	Medium Voltage, i.e. voltages above 1 000 volts up to 33 000 volts.

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### **3. Request for Information: Micro-dotting & Tagging Network Assets**

Gauteng Cluster intends to install the micro-dotting and tagging technology on the network assets to combat the theft of network asset to enable identification and recovery of stolen asset as well as to guarantee conviction of criminals.

The following are the minimum requirements for the microdots and tags:

- The microdots and tags shall be permanently attached to the network asset.
- The microdots and tags shall be able to withstand high temperatures such as 80°C - 130°C.
- The database for the microdots and tags records shall be online and accessible to Eskom security desk.
- The database for the microdots and tags records shall have back-ups to the Eskom cloud services.

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#### **4. Acceptance**

This document has been seen and accepted by:

<b>Name</b>	<b>Designation</b>
Mashangu Xivambu	Senior Manager: Maintenance & Operations
Sylvester Barei	Senior Manager: Asset Creation
Nonkululeko Nene	Senior Manager: Business Enablement
Ariseelan Moodley	Middle Manager: Network Engineering & Design
Kith Maitisa	Middle Manager: Safety, Health, Environmental, Quality & Security
Stephen Nkwane	Standard Implementation: Design Base & Operating Unit Support Manager

#### **5. Revisions**

<b>Date</b>	<b>Rev.</b>	<b>Compiler</b>	<b>Remarks</b>
August 2022	0	TL Mazibuko	Original document.

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## **Appendix A – Request for Information Schedule**

### **A.1 Micro-dotting & Tagging of Network Assets**

<b>Requirement</b>	<b>Response</b>
Are the microdots and tags shall be permanently attached to the network asset?	
Are the microdots and tags able to withstand high temperatures such as 80°C - 130°C?	
Is the database for the microdots and tags records online and accessible to Eskom security desk?	
Can the database for the microdots and tags records be backed up to the Eskom cloud services?	
Provide the Indicative Price	
Who is the owner of the Intellectual Property?	

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