



Specialist Consultants to the Mining Industry

## DATA MANAGEMENT

The MSA Group (MSA), Africa's leading mineral exploration consultant, has entrenched itself as a trusted and holistic service provider and contractor for over 30 years. MSA's track record is synonymous with quality, technical integrity and safety compliance.

MSA provides specialist services on numerous international and local projects covering all commodities. Its client base includes the largest multi-national mining companies, private equity and sovereign wealth funds, governments and juniors listed throughout the world. MSA has worked on five continents and in over forty countries.

MSA's services encompass **Exploration and Geology, Mining Studies and Environmental Consulting.**

**The value of any mineral project lies in the project's data.** Major investment, capex and opex decisions are made on the basis of the data contained in a project's database. As a result, international reporting codes require more rigorous controls to ensure data integrity and data management is becoming an increasingly important issue for exploration and mining companies. This has led MSA to expand its data management services to provide exploration and mining companies with rapid, efficient and secure data management processes to ensure that data is efficiently utilised.

## CLIENTS

The MSA Group has recently managed project data spanning three continents and a variety of commodities for clients which include AngloGold Ashanti, Vedanta Resources, Lonmin, Ma'aden Gold and Base Metals, Ivanplats SA, China Minmetals, African Panther Resources AG, Intrepid Mines Ltd, Black Mountain Mining Ltd., Burundi Mining and Metallurgical Corporation, Bushveld Minerals Ltd., Centamin plc Cronimet, Damodar Ferro Ltd., East African Gold, Frontier Rare Earths SA Ltd., Handa Copper Corporation, International Resources Ltd., Ironveld plc, Jofema Mineral Resources Sarl., Jonah Capital, JSW Mozambique, Kisita Mining Company Ltd., Lesego Platinum Ltd., Lemur Resources, Mwana Africa, Nimini Holdings, Osho Steel, Plinian Capital, Red Crescent Resources, Realm Resources South Africa Ltd., Rift Valley Resources, Simeka Capital Holdings Ltd., Tanziron Resources, Thani Emirates Resources Holdings and West African Minerals Corporation.



MSA DATA MANAGEMENT

**REAL DATA. REAL TIME.**



MSA's data management services are compliant with the major international reporting codes (JORC, NI 43-101, SAMREC) and our ISO 9001:2008 certification. Our services include:

- Relational database design in Maxwell DataShed™ or Microsoft Access™ and native SQL
- Remote site data capture implementation using modern tablet based capture systems
- Historical data capture, migration and validation, including:
  - From hard copy to Microsoft Access™ or Maxwell DataShed™
  - From Microsoft Access, Acquire™, Geobank™, Sable™ or Century Systems™ to Maxwell DataShed™
- Sample dispatch and sample data management
- Lookup and library management
- Importing of assay certificates and assay turnaround tracking
- Importing handheld XRF results
- Quality Assurance/Quality Control of assay results and laboratory quality management
- Data reporting and export
- Database back-up on fully redundant servers with additional off-site storage
- LIMS system design in accordance with SANAS ISO/IEC 17025 accreditation requirements
- ODBC connection setup to sync 3rd party software packages with project databases including Geosoft™, Datamine™, Surpac™, Micromine™ and Leapfrog™.

### MSA FLOW

MSA has bundled key data management components including supplying modern hardware and software, designing customised workflows and implementation. This cost effective turnkey service will ensure the rapid flow of reliable exploration data from the field to office based decision makers. MSA builds web-accessed dashboards which report vital project statistics to head-office based project managers and clients. The dashboards enable effective sharing of vital project performance indicators in real time which allows effective management of project progress whilst minimising time spent reporting.

### Maxwell specific services:

- DataShed™ capabilities include database design, table creation, importing of field data, exporting data, database validation, drill hole audits and assay tracking
- LogChief™ capabilities include remote site installation, configuration, including Maxwell plugin applications (CoreShed™, Look™, XRF™, and Striplog setup, design and configuration)
- Training (on-site or in Johannesburg) and user troubleshooting support
- QAQCR™ capabilities include set-up, design and batch reporting and laboratory management



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ISO 9001:2008 Certified.

OHSAS 18001 Certified.

The MSA Group is a Level 6 BBBEE Contributor.

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