

GEOMAGIC CP Analyst – The All-in-One Solution for CP Management

With the web-based platform CP Analyst (CPA), GEOMAGIC has created an integral, hardware- and vendor-independent tool for managing cathodic protection (CP) data that also provides a historical view of all data and CP management history.

Goals and project approach

Creating CPA arose from the customers' need to build a central system for all heterogeneous data sources, including their history, and was completely re-implemented as an independent product. With regards to the technology, the tool is based on GEOMAGIC's reliable asset management platform GeoNAM.

Application functions were developed incrementally in close collaboration with customers' subject matter experts. During development, prospective users tested the application's features using actual customer data.

CPA is now firmly established as a critical CP management resource for numerous network operators. In close cooperation with our customers, CPA is continuously enhanced to meet their evolving needs.

Area of application

CPA integrates all data with regards to cathodic protection from many different and previously incompatible systems without being limited by the technology or methodology of measurement. This includes, for example:

- Follow-up surveys, close-interval surveys and measurements detecting defects derived from equipment data files
- Remote-monitoring databases from various manufacturers
- Soil resistivity investigations
- Supply system surveys
- Equipment information derived from the inventory documentation
- Asset information from GIS or other Asset Management Systems (SAP)
- Documents from document management systems or file repositories etc.

By using CPA customers can put all required information into context, evaluate them and display them in charts showing the historical course.

"For the first time, we can bring together all relevant information of protected structures, CP facilities, CP inspections and reading values in a simple user interface and evaluate them in context. This is a whole new dimension for us. The tedious hopping from one tool to another of different manufacturers is finally over – and so is the search for inspection records on shared drives!

Moreover, we can now compare CP inspections from several years, which is a huge gain for us. CPA helps us to immediately retrace changes of supply systems, protected structures and CP regimes."

Increase of efficiency in everyday use (using the example of a follow-up survey)

With CPA, you can create measurement templates for the measuring device prior to a CP inspection. This template already contains basic measurement data. The actual reading values are added during the inspection process and can then be imported into CPA and linked to the corresponding test stations. Additionally, photos and logs created during the measurement process can be attached to the reading or test station in CPA.

The new reading values are automatically checked by CPA against any defined threshold values. If a threshold is exceeded, the corresponding reading values and test station are marked as critical. In addition, deviations from any defined reference inspection may also lead to criticality.

The visual highlighting in CPA provides a clear layout of CP data and relieves the CP expert from the tedious sorting of inspection records. After evaluation, the reading values can be published and made visible to a larger group of users.

Customer benefits

- CPA offers numerous interfaces and integrates, centralizes and links CP data records to enable the customer to see all available information at a glance to use them for CP management in an optimal way.
- CPA documents the status quo of cathodic protection and its development over time. It allows going “back to the past” to look at earlier information on equipment to evaluate it in a meaningful way, preserving consistency. Former inspections, for example, may refer to dismantled test stations.
- Tools such as reference and threshold values, interactive charts and tables, graphical comparisons, schematic representations etc. facilitate the evaluation and the comparison of data.
- CPA allows tamper-free storage and preservation of all CP-related data.

GEOMAGIC Utility Solutions Inc.

1900 West Loop South
Suite 1550
Houston, TX 77027

sales@geomagic.world
P +1 (281) 305 9089

www.geomagic-utility.com