

Heimdall Analytics — Design Documentation

Google Ads API Tool Documentation

Erik Reisig Investment GmbH

February 2026

1. Overview

Heimdall Analytics is an internal reporting and analytics tool developed by Erik Reisig Investment GmbH for managing and optimizing Google Ads campaigns across our portfolio of e-commerce properties.

The tool is used exclusively for internal purposes — it is not a third-party application, SaaS product, or publicly available service. It serves as a centralized dashboard combining Google Ads performance data with Google Search Console metrics for holistic search marketing analysis.

2. Purpose & Use Cases

Use Case	Description	API Features Used
Performance Reporting	Automated daily/weekly reports combining Ads + organic search data	GoogleAdsService.SearchStream (read-only)
Campaign Analysis	Analyze campaign, ad group, and keyword performance metrics	GoogleAdsService.SearchStream (read-only)
Budget Monitoring	Track spend vs. budget across campaigns	GoogleAdsService.SearchStream (read-only)
Keyword Research	Identify high-potential keywords from combined GSC + Ads data	KeywordPlanService (read-only)

3. Architecture

3.1 System Components

- **Data Collection:** Python scripts using the Google Ads API client library (`google-ads-python`) to fetch campaign performance data via GAQL queries
- **Data Storage:** Local JSON/CSV files for reporting; no external database
- **Analysis:** Python-based analysis combining Google Ads metrics with Google Search Console API data

- **Output:** Internal reports delivered via secure messaging (Telegram) to company stakeholders

3.2 Technical Stack

- Language: Python 3.12
- Google Ads API Client: google-ads v29.0 (Python)
- Authentication: OAuth 2.0 (Desktop application flow)
- Hosting: Private Linux server (Ubuntu 24.04)

3.3 Data Flow

Google Ads API → Python Script → Local Analysis → Internal Report

All data remains on our private server. No data is shared with third parties or stored in cloud services.

4. API Usage

4.1 Operations

The tool performs **read-only operations only**. We do not create, modify, or delete any campaigns, ads, or settings via the API. All campaign management is done through the Google Ads UI.

4.2 API Methods Used

- GoogleAdsService.SearchStream — Query campaign, ad group, keyword, and metrics data
- CustomerService.ListAccessibleCustomers — Discover linked accounts

4.3 Rate Limiting

Expected API usage: 10-50 requests per day (reporting queries). The tool runs scheduled reports 2-3 times daily and on-demand analysis as needed.

4.4 Managed Accounts

The tool manages a small number of accounts (1-5) owned by Erik Reisig Investment GmbH and its portfolio companies.

5. Authentication & Security

- OAuth 2.0 Desktop application flow with offline refresh tokens
- Credentials stored securely on a private server with restricted file permissions (chmod 600)
- No credentials are exposed in source code or logs
- Access limited to authorized internal users only

6. Compliance

- The tool complies with the Google Ads API Terms of Service
- No automated bidding or campaign modifications via API
- No data reselling or sharing with third parties

- GDPR-compliant: No personal user data is collected or processed
- The tool is for internal analytics only and is not offered as a service to external clients

7. Company Information

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