



(U//FOUO) AURORAGOLD



(S//SI//REL) **Project Overview:** The mission of the AURORAGOLD (AG) project is to maintain data about international GSM/UMTS networks for the Wireless Portfolio Program Office (WPMO), the Target Technology Trends Center (T3C/SSG4), and their customers. Analysis of this data supports:

- a) An understanding of the current state,
- b) Trending, or time-series analysis, from the past through to the future, and
- c) Forecasting of the evolution of global GSM/UMTS-based networks.

This analysis and developmental activity is currently focusing only on GSM/UMTS infrastructure, voice-data convergence, UMTS technology migration, and UMTS technology deployments. Coincident beneficiaries of this mission are, among others, other NSA SIGDEV elements, protocol exploitation elements, and Five-Eyes Partner SIGDEV organizations.

(C//REL) **Alignment:** Supports NSA's and SID's imperative to "Know the Future."

(C//REL) **Sponsors:** WPMO/S3W

(C//REL) **Customers:** WPMO/S3W; T3C/SSG4; Various S3 collections organizations; numerous IC organizations

(C//REL) **Architecture and Infrastructure:** Custom-built application based on OZONE framework, using GOLDENCARRIAGE corporate servers for all application and data storage



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(S//SI//REL) **Corpus:**

Will contain:

- Unclassified: Complete replica of Informa Telecoms and Media's World Cellular Information Service (WCIS) queryable database to eventually compare data against that collected from SIGINT
- Classified: SIGINT-collected IR.21 (International Roaming agreements) documents from around the world, parsed of their information, analyzed, and giving users the ability to trend this information over time (time-series analysis). In addition, e-mail selectors from within IR.21s and from SIGINT metadata captured, analyzed and managed back into the SIGINT system for enhanced collection

(C//REL) **Content:**

- Portion of the WCIS data available via NSANet GUI; remainder to be completed within 2-3 months
- Currently, Phase 1 contains a small database of worldwide wireless networks being compared against IR.21s from SIGINT to establish our "baseline"

(C//REL) **Capabilities:**

- Soon, complete WCIS repository to be copied to NSANet for querying by all NSA and 2P Partners
- Later, agile querying through entire IR.21 and WCIS databases, with capability to perform time-series analysis via visualization application



(U//FOUO) AURORAGOLD Repository



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AURORAGOLD

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(S//IRF1) The mission of the AURORAGOLD (AG) project is to maintain data about international UMTS networks for the Wireless Portfolio Program Office (WPPO), the Target Technology Trends Center (T3C), and their customers. Analysis of this data supports:

- a) An understanding of the current state,
- b) Trending, or time series analysis, and
- c) Forecasting of the evolution of global UMTS-based networks.

This analysis and developmental activity will focus on UMTS infrastructure, voice-data convergence, UMTS technology migration, and UMTS technology deployments. Coincident beneficiaries of this mission are, among others, other NSA SIGDEV elements, protocol exploitation elements, and Five-Eyes Partner SIGDEV organizations.

Networks & Suppliers 7/2010	Handsets & Devices 6/2010	Network Features 1/2011	Network Coverage 1/2011	Licenses 1/2011	Licensed Spectrum 1/2011
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Networks & Suppliers

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Handsets & Devices

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Network Features

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Network Coverage

License

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Licensed Spectrum

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(C//REL) Demonstration Script

- (Only capability currently available is basic querying against small portion of WCIS database)
- Go to [REDACTED]
- Click on any of the brown boxes
- Select your search criteria
- Select your query result criteria
- Click "Submit"
- View the results