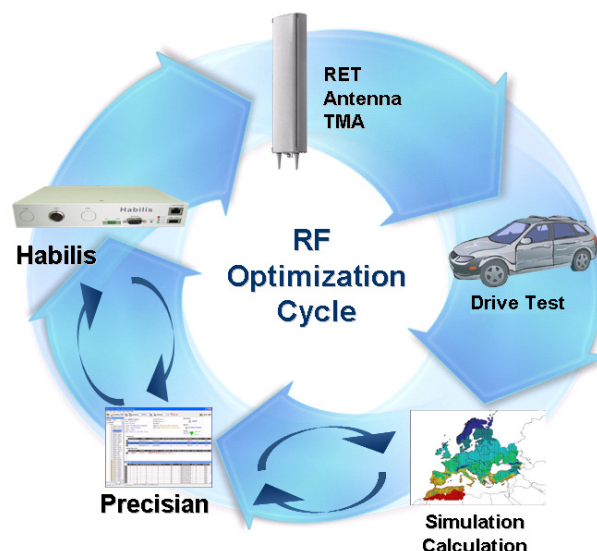


Overview

Precisian is a centralized RET management software that best realizes the full benefits of an RET system. Precisian allows the RF engineer to remotely manage site Habilis controllers from one location. Precisian and Habilis together form Gemintek's proven RET solution. Precisian's many useful features are available at a much lower cost than many competitive solutions, making it an affordable addition to your communications infrastructure whether it is GSM, WCDMA, or WiMAX.

Gemintek's RET solution plays an important role in the RF optimization cycle, reducing the time and effort needed compared to traditional methods.



User Interface

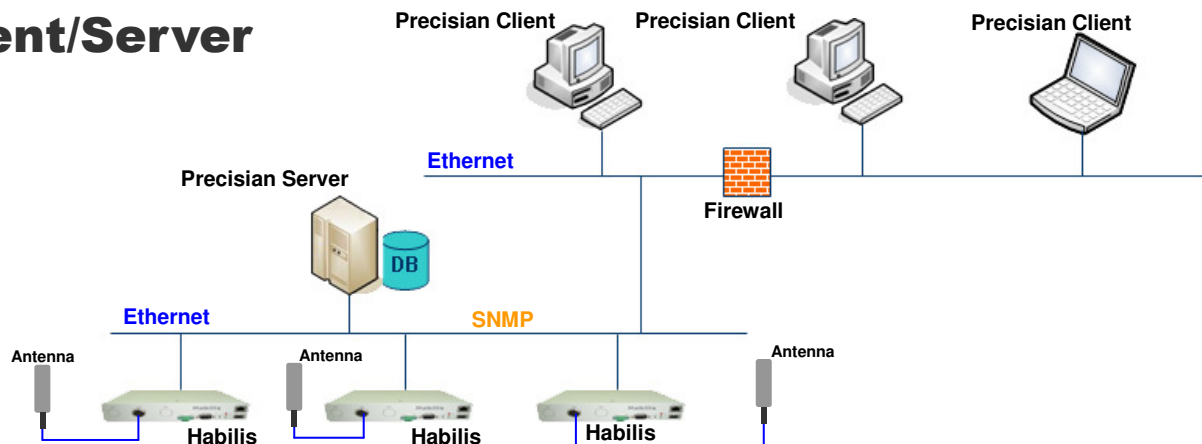
Take full control over the RET system from a single user-friendly interface. Organize sites by operational regions and by user account access. See network connections and device status at a glance. With powerful batch and scheduled operations, users are freed from waiting at the console. View and manage device and connection alarms. Examine records of user actions

The screenshot shows the Precisian 3.2 Remote Antenna Tilting System interface. The top menu bar includes File, Edit, Query, Security, Batch, Alarm, and Help. The main window is divided into several sections:

- Left Panel:** A tree view showing a hierarchy of sites, including 'Go Site', 'Site033', and various sub-sites like 'Site030 / Lake Di', 'Site031 / Aegreen', etc.
- Top Right:** 'Work Status' section showing 'ENABLED' and 'Antenna OK / 2006-07-26 16:26:48'.
- Center:** Details for 'Site: Site033 / Formosa'. It includes fields for 'Site P: 192.168.0.33', 'Area: A31 / Moon', 'Contact: P02 / Martin Cooper / 2003004005', 'Subcon: Gemintek / Gemintek', 'Address: Taiwan', and 'Memo: Taiwan is a beautiful island'. It also shows 'Default Ant Count: 3', 'Ret Status Ever OK: Y', 'Special Error:', 'Habilis Seq: GHE2222222 / 2006-07-26 16:26:48', and 'Habilis Version: Habilis-E Version 1.420.04 / 2006'.
- Antenna List:** A table with columns: Ant, Sector, Model, Serial Number, Mec Tilt, Max Tilt, Min Tilt, Cur Tilt, Installation, Installer, and Band. It lists three antennas (a, b, c) with their respective details.
- Exist Alarm List:** A table with columns: A, Severity, Fault Mag, Alarm Time, Update Time, AL, Memo, Ack By, Ack Time, and Clear Time. It shows one critical alarm for 'PCU Alarm' on 2006-07-11 14:37:37.
- History:** A table with columns: Ant, Sector, Original Tilt Value, Set Tilt Value, Result, Record Time, Batch ID, and Account ID. It lists 10 historical tilt adjustments.
- Bottom:** A tabbed interface with 'Set Tilt Record', 'Alarm Record', 'Ret Status Log', and 'Habilis Info Log'.

The main view shows the information for a particular site. With a few clicks, RF engineers can select a single RET and make tilt changes. Antenna information such as model, serial number, operating band, mechanical tilt, and current tilt is displayed. View alarm message, severity, occurrence time, and handling status. See past adjustments performed on the RET and by which user.

Client/Server



Features

Configuration Management

- Schedule site polling, antenna tilt and antenna data retrieval
- Perform antenna calibration and tilt setting
- Site information import/export to/from text file for large scale information transfer
- Batch antenna tilt operation

Database Management

- Setup detailed site information such as area, contact person, number of RET antennas, and IP address for up to 100,000 sites
- Site/antenna query using different parameters
- Provides search on set tilt record

Report Management

- Site connection status report
- Generate printable file from search result
- Detailed site information and antenna tilt history log

Security Management

- Different security levels for administrator and regular users
- Assign group of sites to specific users
- Enhanced password encryption

Fault Management

- Alarm Browser displays overall alarm status
- Change alarm severity levels
- Reports on PDU alarm, RET error, cable disconnections
- Filter alarms by area, time, severity level, or error codes
- Log files saved for future references

System Design and Unique Feature

- Client/Server architecture
- Users can log onto the Precisian server remotely to make antenna adjustments
- Schedule jobs for system synchronization, tilt changes and system health check
- Customized integration with optimization tools

Suggested System Requirements

Server	Intel P4 2.8 GHz CPU, 1GB DDR RAM, 80GB Hard Drive, 100BaseT Ethernet
Client	Intel P4 2.8 GHz CPU, 256MB DDR RAM, 40GB Hard Drive, 100BaseT Ethernet, Desktop or Laptop
Server OS	Linux
Client OS	Windows XP
JVM (Java Environment)	J2sdk 1.4 or above

For more information about Gemintek RET System products, please refer to the particular product brochures, or visit the Gemintek web site: <http://www.gemintek.com.tw>