etap®

Energy Management Solutions

to Design, Operate, and Automate Power Systems

Summary

etap®

The leading sustainable enterprise platform for electrical design, simulation, engineering, and operations

What we do

- We provide a comprehensive range of software, solutions and services to Design, Analyze, Engineer, Operate and Maintain electrical systems.

- Our offer enables a single source of truth for the entire Electrical Network through a multidimensional digital twin platform.

What makes us unique

- ETAP has the most comprehensive offer for ensuring electrical design and engineering consistency and seamless data flow across the project life cycle.

- We drive innovation to support sustainability, safety and resilience through continuous intelligence, with our model-driven electrical digital twin technology.

- Our wide geographical presence provides lightning-fast responsiveness in global, regional, and local markets.

Our commitments

Safety

ETAP prioritizes safety by allowing engineers to simulate and analyze electrical power systems, helping identify potential risks, and ensuring compliance with safety standards.

Sustainability

ETAP drives digital transformation for sustainability, supporting our customers in their energy transition, empowering them to make decisions for a green and smart future across the lifecycle.

Reliability

Elevate your electrical system's reliability to unprecedented levels with ETAP's advanced software solutions, ensuring optimal performance, proactive mitigation, and maximizing operational efficiency.

Resilience

We empower our clients to withstand adversity and minimize downtime, providing real-time adaptability, risk mitigation, and the assurance of continuous operations in the face of dynamic challenges.

Efficiency

ETAP streamlines the process of designing and analyzing electrical systems, improving efficiency in engineering workflows. It reduces the time and resources required with built in automation and collaboration tools. It also enables engineers to optimize system performance and make cost-effective decisions.

Supporting a diverse range of business sectors

across the global energy landscape
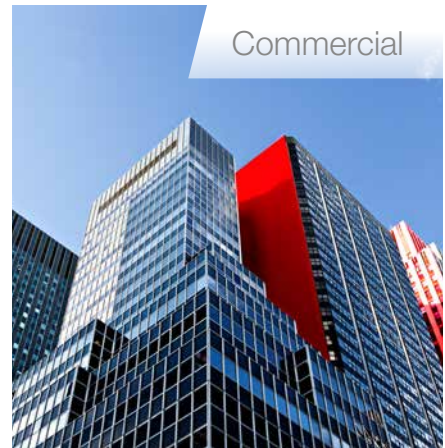
Distribution

Renewable

Generation

Transportation

Industrial

Commercial

Transmission

Data Centers

Benefits of moving to the new subscription bundles

Scalability

Model and analyze any size system – no limits, no extra cost – with unlimited buses

Availability

Included upgrade to National network enabling use within a single country, including check-out capabilities

Flexibility

Dynamic solutions that adapt to your evolving needs, ensuring cost-effective and tailored packages for sustained success

Access

Easy access to our comprehensive software portfolio, whenever you need it

Faster Innovation Cycles

Incorporate best practices, stay up-to-date and future-ready with immediate access to latest improvements and innovation

Best in Class Technical Support

Leverage top notch technical assistance with remote desktop diagnostics from specialized dedicated teams

Optimize Total Cost of Ownership

Predict and better manage your costs by accurately forecasting opex expenditures

Mobile Accessibility

Access to etapAPP to streamline field data collection and model verification without the requirement of a separate license
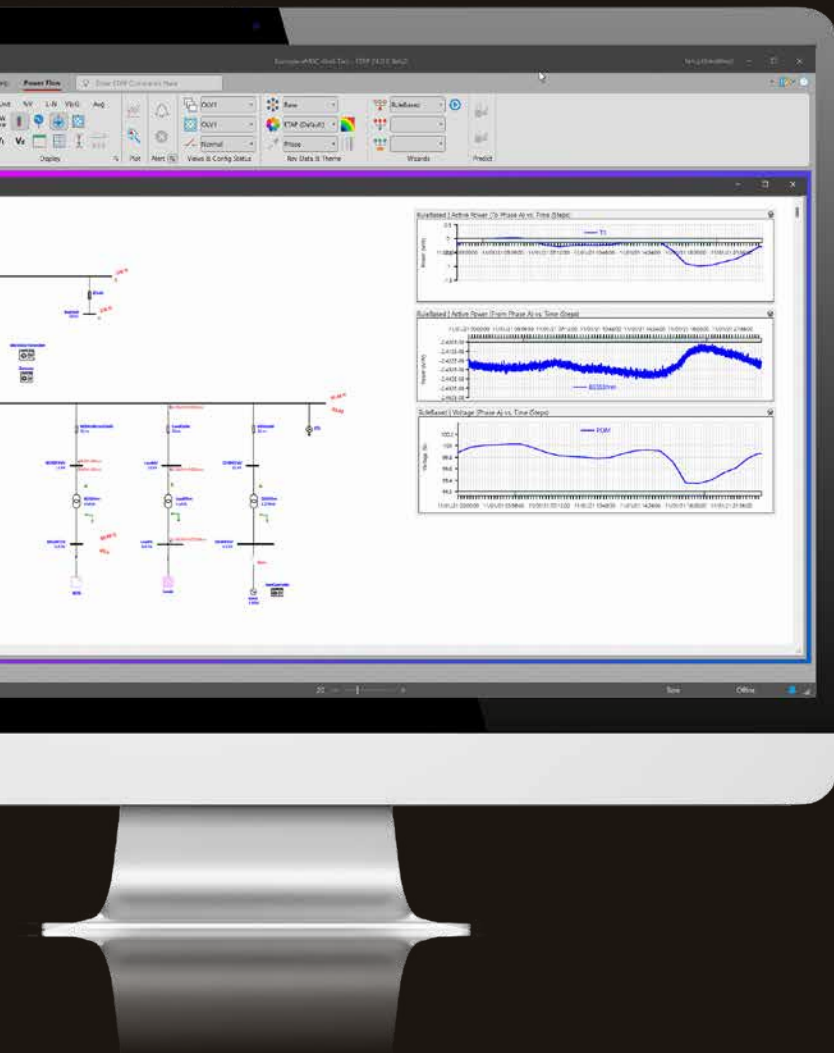
Digital Collaboration

Global design and engineering teams can collaboratively work in parallel on the same project ensuring a single source of truth, thereby enhancing quality and increasing efficiency

Digital Documentation

Centralized data management and reporting repository

Design Engineering

Subscription solutions for design, analysis and optimization

Launch

Grow

Scale

etap PS Bundles

Simplified power simulator subscription options for your unique requirements

Launch ➡

- Bus Count - Unlimited
- Network License - National
- Load Flow
- Short Circuit
- Transformer Sizing & Tap Optimization
- Panel Schedule
- Cable Sizing
- NetPM™
- DataX AVEVA Engineering
- DataX Excel
- DataX Autodesk AutoCAD
- International Cable Standards

Grow ➡

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- Network License - National
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- Short Circuit
- Transformer Sizing & Tap Optimization
- Panel Schedule
- Cable Sizing
- NetPM™
- DataX AVEVA Engineering
- DataX Excel
- DataX Autodesk AutoCAD
- DataX Autodesk Revit
- International Cable Standards
- STAR - Protective Device Coordination
- STAR - Sequence-of-Operation
- STAR Auto - Automated Evaluation

Scale ➡

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- International Cable Standards
- STAR - Protective Device Coordination
- STAR - Sequence-of-Operation
- STAR Auto - Automated Evaluation
- Motor Acceleration
- Motor Parameter Estimation & Tuning
- Harmonics
- Interharmonics
- FlickerMeter™

+ Available Add Ons

For Your Unique Needs

Safety

Elevate safety through informed decision-making

ArcSafety

Arc Flash – IEEE 1584 & NFPA 70E
Arc Flash Auto Evaluation
ArcFault™

Cable System & Grounding

Ground Grid
Cable Underground Thermal
Cable Pulling
Cable EMF
Lightning Risk Assessment

DC Networks

DC Load Flow
DC Short Circuit
DC Arc Flash

Advanced Protection

StarZ™ – Distance Protection
Comtrade Processor & Viewer

Sustainability

Innovations for a greener energy landscape

Sustainability Analysis

Sustainability Analysis
Time Domain Load Flow
Reliability Assessment
Techno-Economic Analysis

Grid Code / Microgrid

Grid Code Analyzer
Quasi-Dynamic Load Flow
PQ Capability
Harmonics
Frequency Ride Through
Voltage Ride Through
Power Plant Controller Digital Twin
Microgrid Controller Digital Twin

Battery Management System

Battery Sizing
Battery Discharge

Reliability

Maximize power system reliability

Unbalanced Networks

Load Flow - UB
Short Circuit - UB
Harmonics - UB

Dynamic Stability

Transient Stability
Load Shedding
Microgrid Islanding
Transformer Inrush
emtCoSim™

Advanced Stability

User-Defined Dynamic Models
Generator Start-Up
Dynamic Parameter Estimation and Tuning

Control Systems

DC Control Systems
AC Control Systems

+ Available Add Ons
For Your Unique Needs

Resiliency

Grid and network optimization to maximize system resiliency

Distribution Optimization

Switching Optimization
Volt/Var Optimization
Optimal Capacitor Placement
Fault Management & Service Restoration
Switching Sequence Management
Feeder Hosting

Transmission Planning

Voltage Stability
Optimal Power Flow
Contingency Analysis
Transmission Line Ampacity
Transmission Line Sag & Tension

eTraX – Traction Power

Train Performance Calculator
Timetable Generation
Unified AC & DC Power Flow
Battery Management System

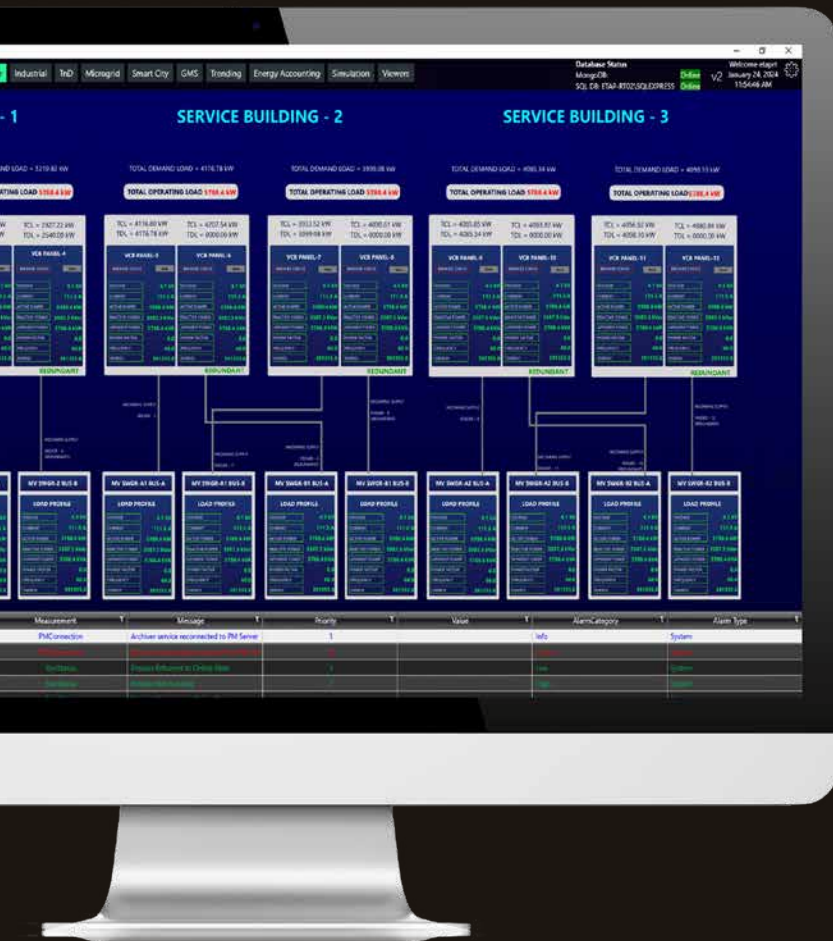### GIS

Intelligent Geospatial Diagram
CIM
MultiSpeak®

Operational Simplicity

Subscription solutions for operations and maintenance

eSCADA

PSMS

OTS

eProtect

etap®

e*SCADA*

Model-driven electrical SCADA for monitoring and managing electrical systems

Launch →

Real-Time Server
Advanced Monitoring
Dashboards
Alarm Management
Historian
HMI Users - 1
HMI Screens - 10
Tag Limit - 10,000

Grow →

Real-Time Server
Advanced Monitoring
Dashboards
Alarm Management
Historian
Playback
Redundancy
HMI Users - 5
HMI Screens - 20
Tag Limit - 25,000

Scale →

Real-Time Server
Advanced Monitoring
Dashboards
Alarm Management
Historian
Playback
Redundancy
Web-based HMI
HMI Users - 10
HMI Screens - 40
Tag Limit - 50,000

*P*SMS

Predict system behavior in response to operator actions

Launch ➡

Real-Time Server
Advanced Monitoring
State Estimation
Simulate Before Operate
What if Analysis

Predictive Simulation
Base Module
Load Flow
Short Circuit
Transformer Sizing

Grow ➡

Real-Time Server
Advanced Monitoring
State Estimation
Simulate Before Operate
What if Analysis
Playback Server

Predictive Simulation
Base Module
Load Flow
Short Circuit
Transformer Sizing
Motor Starting
Harmonics

Scale ➡

Real-Time Server
Advanced Monitoring
State Estimation
Simulate Before Operate
What if Analysis
Playback Server
Situational Intelligence

Predictive Simulation
Base Module
Load Flow
Short Circuit
Transformer Sizing
Motor Starting
Harmonics
Switching Sequence Management
Transient Stability
Unbalanced Load Flow

etap®

*e*OTS

Advanced training solution to help control room operators learn the skills required to operate their power systems efficiently and reliably

Launch ➡

Trainer Simulator
OTS Sever
OTS Client
Playback Server
Playback Client
SCADA Operations

Trainee Machine
 Base Module
 Time Domain Load Flow

Grow ➡

Trainer Simulator
OTS Sever
OTS Client
Playback Server
Playback Client
SCADA Operations
Switching & Maintenance Sequence

Trainee Machine
 Base Module
 Time Domain Load Flow
 Switching Sequence Management

Scale ➡

Trainer Simulator
OTS Sever
OTS Client
Playback Server
Playback Client
SCADA Operations
Switching & Maintenance Sequence
Power & Energy Management

Trainee Machine
 Base Module
 Time Domain Load Flow
 Switching Sequence Management
 Transient Stability

etap®

eProtect

Centralized protection and asset management for maintenance information and settings while complying with regulations and standards

Launch ➡

Asset Management

Auditing & Settings History
Substation Hierarchical Model
Users - 1

Grow ➡

Asset Management

Auditing & Settings History
Substation Hierarchical Model
Download Relay Settings
Asset Lifecycle Management
Settings Tracking Dashboard & Notifications
Users - 5

Scale ➡

Asset Management

Auditing & Settings History
Substation Hierarchical Model
Download Relay Settings
Asset Lifecycle Management
Settings Tracking Dashboard & Notifications
Work Order Management
Users - 10

Advanced Fault Analysis System

Fault Detection
Fault Type Identification
Fault Location
Waveform Viewer

How to choose
the right Subscription Bundle

01.
Assess

- Assess your business requirements
- Assess your budget
- Assess your future needs

02.
Compare

- Compare features and functionalities
- Compare prices
- Compare scalability

03.
Select

- Get a demo
- Make the right choice

etap   **CANECO ONE**   **SEE**   **AED+**

+1.800.477.ETAP | +1.949.900.1000 | info@etap.com

etap.com