

Beaconsim is the global leader in simulator systems for critical communications such as TETRA, LTE, P25, DMR and dPMR.

Beaconsim simulators are used for several purposes:

- **Training** of radio users, dispatchers, ERC operators and/or field command
- **Planning and definition** of fleet maps and other radio and system parameters
- **Planning and testing** of communication plans and SOP's
- **Testing** of end-to-end functionality of C&C, dispatching, field command and data applications and their integration to API and PEI interfaces.

Beaconsim ONE is a self-learning system for radio users with interactive radio simulators and it enables fast training of large organizations. Learning targets can be defined and results measured. Text, pictures, video and audio are accompanied by simulator demos and exercises with which users learn at their own pace whenever they have time. Simulators can be adjusted to have the likeness of real radios, with the right talk groups, folders and other settings. Users receive feedback on their learning and get a certificate after they have reached the required level. If simulator tests are repeated for example annually they can be used as a prerequisite for a user license or for attending a simulator drill.

Beaconsim ONE is installed at a server and its courses are used from any PC, laptop or tablet and it does not require any special program installations – a browser suffices.

Below some student views of Beaconsim ONE:

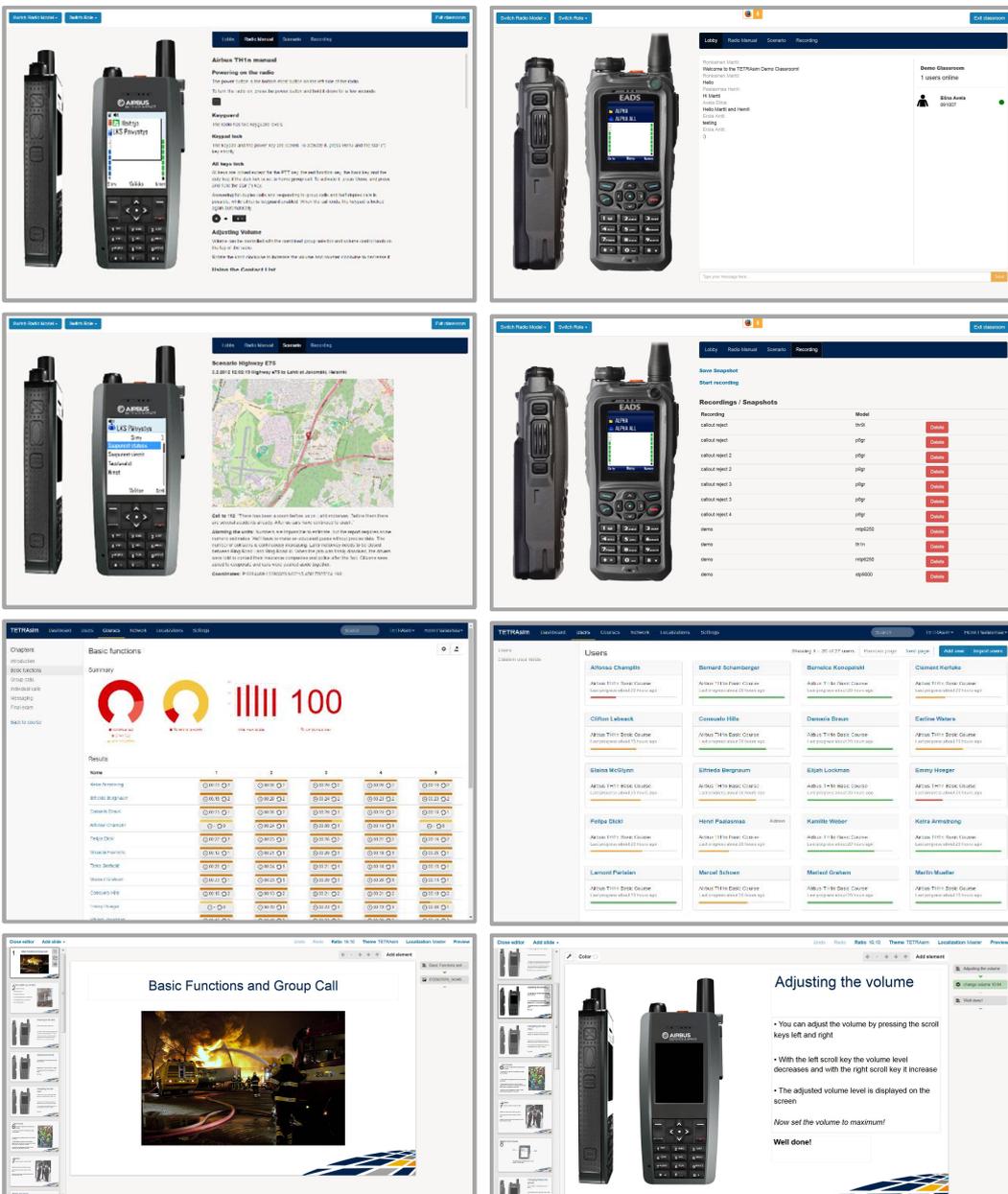


The image displays six screenshots of the Beaconsim ONE simulator interface, arranged in a 3x2 grid. Each screenshot shows a course page with a title, text, images, and navigation controls.

- Top Left:** "In this chapter you will learn" - Lists topics like "How to power on the radio", "Adjusting the volume", "Navigating the main menu", "What are talk groups and how to change them", "What are folders and how to change them", and "How to make group calls". Includes an image of a building fire.
- Top Right:** "Powering on the radio" - Shows an AMBUS radio and instructions: "Press and hold the Power On/Off button." and "The button is the lowermost button on the left side of the radio, on the same side as the PTT button." Includes a note about button highlighting.
- Middle Left:** "Talk Groups" - Explains group calls and simultaneous communication. Includes an image of emergency responders.
- Middle Right:** "Initiating a Group Call" - Shows an AMBUS radio and instructions: "To initiate a group call, press and hold the PTT button located on the left side of the device" and "Keep holding down the PTT button. You can start talking after you hear a beep from your radio." Includes a note to "Initiate a group call to the selected group!".
- Bottom Left:** "Navigating the main menu" - Shows an AMBUS radio and instructions: "Access the main menu by pressing the middle selection key, located between the scroll keys", "Move around with the scroll keys and use the selection keys to enter in and out of menu items", and "You can press the red telephone key to return to the idle mode from anywhere in the radio". Includes a note to "Try navigating the menus now. Go to the Settings menu to advance in the course."
- Bottom Right:** "Quiz" - A multiple-choice question: "Which call type enables communication with more than one party?" with options: "Group Call", "Direct Call", and "Direct Mode". Includes an image of emergency responders.

Beaconsim TEAM is a virtual classroom including a virtual radio network with its radio terminals, dispatchers, C&C, field command and data applications. Its simulated radio network has the real network's functionality, fleet maps, talk groups, folders and other parameters. Beaconsim TEAM ensures learning in an environment which is realistic without the risk of doing something wrong or using resources which are needed elsewhere.

Virtual classroom enables trainer-led training even remotely – without travelling. It features group exercises and scenarios with group dynamics which self-learning exercises lack. During exercises the trainer is in control and can follow each individual's progress: focus is on learning instead of training. Students' activities can be recorded: speech items, key pressings and their timings. These form an objective base for the de-briefing session after the scenario.



The screenshots illustrate the following features of the Beaconsim TEAM interface:

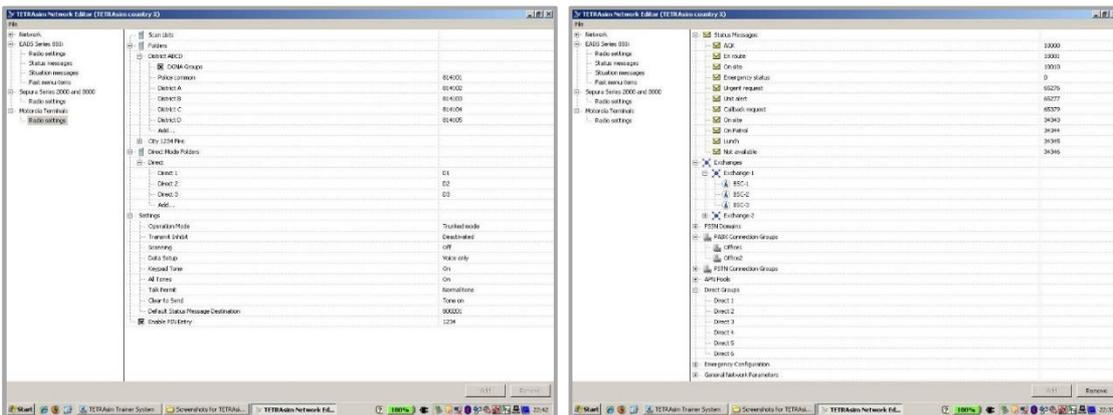
- Push-to-Talk manual:** A detailed guide for the radio terminal, including sections on power, keypad, and all keys.
- Demo Classroom:** A user interface for a virtual classroom, showing a list of users and a 'Start recording' button.
- Scenario Highway ETS:** A map-based scenario interface for a specific training exercise.
- Recordings / Snapshots:** A table listing recorded speech items and snapshots, including details like model, name, and a 'Delete' button for each entry.
- Basic functions:** A summary page for basic functions, featuring a progress indicator and a table of results for various users.
- Users:** A list of users participating in the training, including names and their current status.
- Class editor:** A tool for creating and editing training slides, showing a slide titled 'Basic Functions and Group Call' and another titled 'Adjusting the volume'.



Beaconsim TEAM is a perfect match for **XVR On Scene** Virtual Reality system. Together these two products form a full simulation for decision making, field command and communication training. Simulated drills are an effective and cost-effective way to rehearse standard operating procedures and ensure the best possible behavior in real situations.



Beaconsim PLAN is a virtual radio network which can be parameterized in several ways with various fleet maps, talk groups, folders and other radio and system parameters. It is disconnected from the real network and thus cannot disturb it in any way. It can be used for planning of parameters, testing the effects to radio users or dispatchers. It is possible to create several virtual networks which can be shown as a demo to user organizations and using them as a basis for decision making before making the final changes in the real network. Beaconsim PLAN's virtual network can be also used for planning of communication plans and SOP's and testing them. When using it as a tool in change processes it shortens acceptance at user organizations and also reduces expensive iterations in the real network.



Beaconsim LAB is a flexible virtual testbed for all applications, functions and services of the network. It is an alternative for manufacturers' testbeds especially at the beginning of the development and it reduces the time needed for development and testing and cost for travelling. The system has features which support development and testing work: multiple virtual network/radio settings, load testing, different API and PEI simulator versions for integration.



Beaconsim has delivered simulator systems to 28 countries in Europe, Middle East, Asia and Africa. Its solutions are available with any Airbus radio and interface simulator, in any language.



Did we spark your interest?
You find more information and a demo at www.beaconsim.com

Contact us
sales@tetrasim.com
elina.avela@tetrasim.com +358 50 514 9705
henri.paalasmaa@tetrasim.com +358 40 752 4722
simo.ruoko@tetrasim.com +358 40 504 0759 or when in GCC +971 55 875 5435