Taqto®
For smart radio management

Taqto® is an advanced, secure and scalable solution for radio deployment and upgrades. It simplifies the roll-out of the whole range of radios from Airbus Defence and Space. Taqto allows quick and efficient management of a large installed terminal base.

Using Taqto, updating and reconfiguring radios is easy, thanks to the intuitive and interactive user interface. With a single action, the radio fleet manager can assign a software update and a set of new parameters to as many terminals as necessary and follow the progress of the update from his workstation.

Based on client-server architecture, Taqto is adaptable and can be scaled to fit the needs of a variety of organizations. It can also be shared between several organizations, thanks to the intelligent user and organization administration system.

The architecture enables both local and networked configurations and allows the system to be scaled up as the number of terminals grows. In a local configuration, Taqto can be on a single PC providing both management and programming functionality. Deployed in a network, client applications are installed into remote sites and connected to the server application over IP network.

Taqto will also make life easier for users in the field. Instead of sending radios to a central service point for an update, upgrades can be carried out locally, close to their actual place of use. The client application connects the terminals to Taqto and automatically starts updating or upgrading the radio when it detects that a connected radio has a pending update.

The client application shows the update status of each radio: when a status bar on the application screen turns green, the radio has been updated and is ready to go.

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The central database is updated accordingly and stores the information that this specific radio has successfully received the update package that was assigned to it. The radio fleet manager can check whether all the radios are up to date with the latest software and settings.

Physically, a hand-portable radio connects through a specific connectivity kit, while mobile and data radios are connected via cable. It is possible to connect different terminal types simultaneously.

Taqto secures the integrity of critical radio and user information. The centralized user management system controlled by the system administrator ensures that only authorized users can view and edit information and assign new updates to radios. It also authenticates every radio that is connected to the system and secures the executed radio programming tasks. The data flow between the server and the clients is carried our using secured and authenticated IP connections based on SSL protocol.

Overall, Taqto provides a transparent way to manage terminals in the deployment phase and throughout their lifetime, cutting maintenance costs and maximizing convenience for users and administrators alike.

Taqto supports multiple radio and connectivity types. As the portfolio evolves, Taqto will be compatible with new models day one. Similarly, as PMR network performance develops and new services become available.

Key features
• Intuitive, easy-to-use user interface available in English and German
• Centralized terminal data management
• Centralized Taqto user data management
• Setting parameters into radios
• Setting individual subscriber number (ITSI) into radios
• Downloading SW into radios (flashing)
• Managing radios as assets
• Remote radio programming and management over IP network
• Operating up to 32 terminals simultaneously per each client
• Supports whole TETRA product portfolio from Airbus Defense and Space
•K-Taqto for authentication key (K) management

Deployment architecture
• Software based on server/client Architecture
• Separate Taqto Sub Server application for load balancing in large deployments
• Hardware enabling terminal connectivity to the client & server applications & charging of the hand portable battery
• Connectivity for up to 128 client applications
• Designed for managing data of up to 500,000 terminals

Server application & Remote UI application
• System configuration management
• Terminal configuration management
• User management
• Organization management
• Viewing of terminal data with sorting and filtering data
• Advanced search

Client application & Home Client application
• Terminal connectivity
• Terminal identification
• Showing status of terminal update Procedure
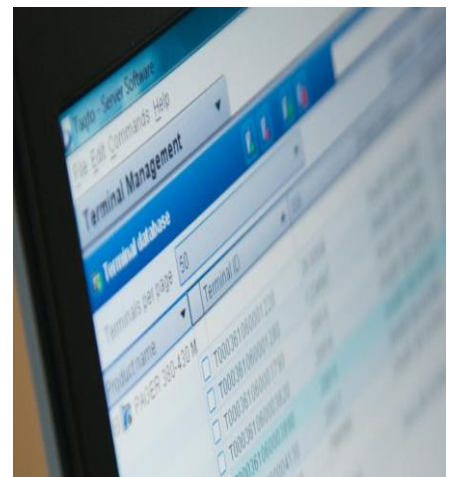• Home Client application for P8GR programming with Pager home station.

User management
• Up to 64 users per server application
• Access authorization into the system
• Creation of Taqto user groups and permissions
• Creation of Taqto users and assigning them into user groups

Organization management
• Creation of organization structure, managing users and radios with organization.
• Up to 16 organizations in the main level, up to 5 sublevels.

Additional services
• Installation, system update
• System security incl. secure IP connections
• System monitoring and self diagnostics (e.g. HD size, memory)
• Event and error logging, intelligent exceptions management
• Localization support
• Back-ups and restore