ATDI ADVANCED SPECTRUM SOFTWARE

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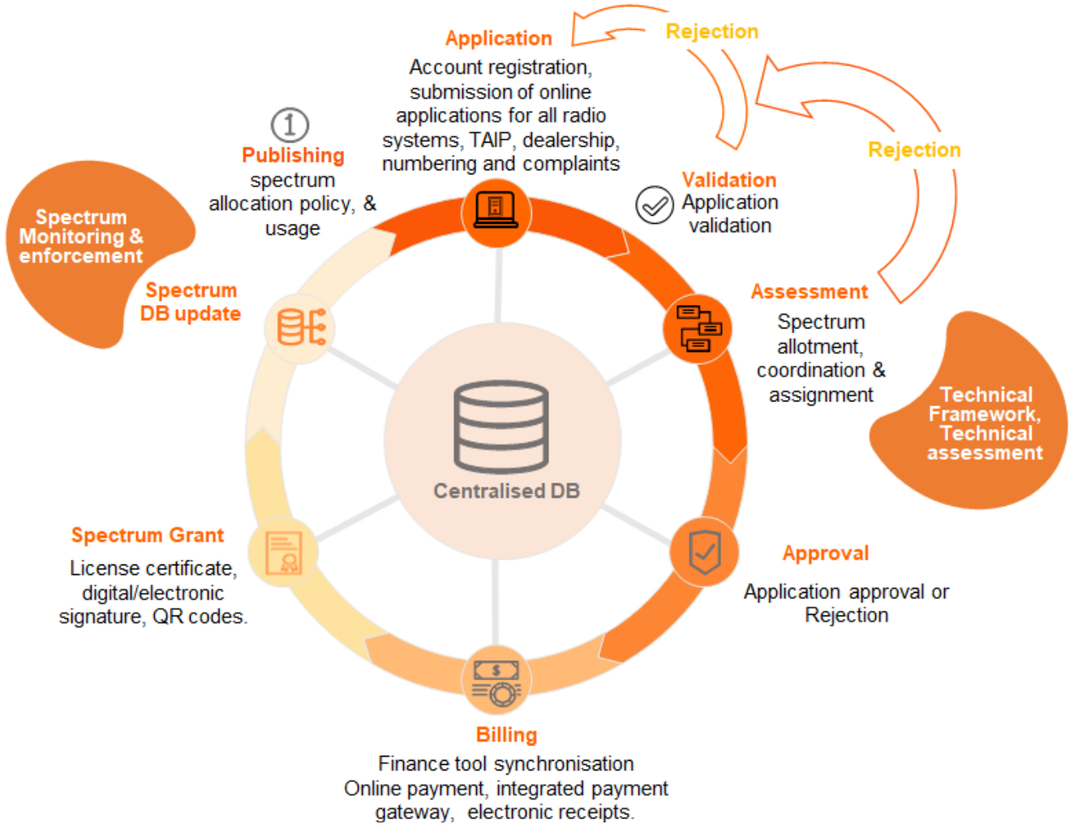
ISO 9001 2015 CERTIFIED

AUTOMATED SPECTRUM MANAGEMENT

A COMPLETE SOFTWARE SOLUTION
FOR THE ENTIRE SPECTRUM REGULATION LIFECYCLE

30 YEARS OF EXPERIENCE



AUTOMATED SPECTRUM MANAGEMENT SOLUTION

Radio spectrum is the lifeblood of the radiocommunications industry. It's the allotted frequencies or spectrum which supports all wireless communications.

In recent years, the need for automated spectrum management solutions has increased. These solutions integrate key regulatory functions like spectrum licensing, engineering analysis, administration and monitoring. They are proven to improve spectrum allocation, coordination, management, and reduce the risk of human error across the process.

ATDI has been at the forefront of developing automated spectrum management solutions for over three decades.

Our automated spectrum management solution manages every aspect of the spectrum lifecycle. The system covers spectrum management and monitoring and everything in between.

- **PROVIDES FLEXIBLE AND USER FRIENDLY WEB-SERVICE PORTALS (INTERNAL & EXTERNAL)**
- **INTEGRATES WITH THE 3RD PARTY APPLICATIONS FOR BILLING, PAYMENT AND FINANACE**
- **GUARANTEES ACCESS AND EFFICIENT USE OF SPECTRUM;**
- **MINIMISES THE IMPACT OF INTERFERENCE;**
- **AUTOMATES FREQUENCY ALLOCATIONS;**
- **SUPPORTS EMERGING TECHNOLOGIES;**
- **ENABLES CROSS-BORDER COORDINATION;**
- **SUPPORTS BACK-OFFICE FUNCTIONS;**
- **ENABLES DATA EXCHANGES FOR FRONT AND BACK-OFFICE SERVICES;**
- **INTERFACES WITH MONITORING SOLUTIONS;**
- **ENABLES SPECTRUM RE-FARMING AND AUCTIONS.**

ESTABLISHING A FRAMEWORK TO COORDINATE NATIONAL, REGIONAL AND CROSS-BORDER INTERFERENCE

HTZ COMMUNICATIONS & HTZ WARFARE

A key component of an automated spectrum management solution is the technical analysis of the spectrum.
The solution lets the regulator understand where the spectrum can be used without causing undue interference.
These technical analysis tools allow engineers to model spectrum bands to establish parameters to protect users from both in-band and out of band interference.
It also supports frequency sharing and spectrum re-farming.
HTZ removes the risks associated with the densely populated spectrum bands by allowing regulators to model real-life scenarios to identify potential issues before the allocation is made.

MANAGING COMPLAINTS ENFORCING & REGULATING ILLEGAL EMISSIONS

ICS MONITORING-SDRN CONTROL

ICS Monitoring is used to assess spectrum use, monitor emissions and regulate the control of license emissions.
It performs tasks in accordance with the radio license regulations and verifies compliance with the frequency allocation conditions, frequency use and channel occupancy.
ICS Monitoring can be used to generate interference case studies and search for unauthorised emissions.
It features a fully integrated license equipment database for an easy project setup. Measurement results are automatically stored for analysis without interrupting live measurement campaigns.

MANAGING APPLICATIONS & WORK PROCESSES INC: SPECTRUM > DEALERS > TYPE APPROVAL > IMPORT PERMITS > NUMBERING

ICS E-MANAGER

This flexible front-end solution allows spectrum users to consult the ICS Manager database to make license applications. Workflows allow the regulator to review and approve applications, ensuring their technical compliance before they are issued. ICS e-Manager is fully customisable, allowing users to adapt the solution to meet their internal processes and automate workflows. It supports every aspect of the regulator's role, including complaint management, type approval, managing dealership licenses, import permissions, numbering and amateur radio license requests.

MAINTAINING & CONTROLLING CENTRALISED DATABASE INC: RADIO SYSTEM ASSETS > USERS > SPECTRUM ALLOCATIONS > SPECTRUM MONITORING

ICS MANAGER

ICS Manager integrates and automates the everyday functions of spectrum regulators. Its powerful database engine enables complex workflows to be automated, so reducing user interactions and improving the overall efficiency. The solution can integrate into a single platform as part of an existing system or work in standalone mode. This scalable solution features an evolutionary spectrum management database structure that reduces user interaction times through workflow management and has a disciplined approach to data management.

30 YEARS OF EXPERIENCE