3 avril 2019

Innovation

CARL Software presents its new solutions for operational BIM

CARL Software is one of Europe's leading specialists in the management of maintenance operations and equipment (EAM / CMMS) and technical asset management (TAM), and a key player in the life cycle of infrastructure and buildings.

CARL Software's ambition is to become a major player in operational BIM solutions. Accordingly, it has enhanced the CARL Maps module of its CARL Source software package with solutions for interacting with data from digital models.

CARL Maps is a multi-scale solution for processing and interacting with maps (GIS), plans and BIM models directly via native CARL Source functions.

CARL Maps: expected benefits for operators

CARL Software has designed an IFC connector and implemented an API for incorporating 3D aspects of models into the CARL Source CMMS by integrating 3D viewing solutions available on the market.

This will enable technical departments to manage the maintenance of buildings and infrastructures directly in the CARL Source EAM/CMMS, using the digital models transmitted throughout the design phase. As soon as the digital completed work file is delivered, the technical department is operational, with access to continually-updated information to optimise its operational and maintenance tasks.

A solution devised with CARL Source users

The integration of BIM in the CARL Maps module is the result of discussions with two clients, HCL (Lyon hospitals) and SIAAP (waste water authority for the Paris metropolitan area), both of whom are modernising their digital applications for the design of new buildings and infrastructures. HCL has integrated the BIM model of the new building H at Lyon's Edouard Herriot Hospital into its CARL Source CMMS.

SIAAP is progressively integrating BIM models of its infrastructure, including its new biogas plant, into CARL Source.

3 avril 2019

More details about CARL Maps

BIM advantages reach the CARL Maps solution

In collaboration with Minalogic (the digital technology competitiveness cluster of the Auvergne Rhône-Alpes region) and BIM specialists, CARL Software has developed an IFC (Industry Foundation Classes) connector compatible with the latest standard BIM formats (2x 3 and 4).

This enables data from the digital model (rooms, equipment, networks) to be retrieved iteratively and exchanged with CARL Source. Equipment tree structures and repositories are thus initialised and updated from the BIM digital model.

The IFC connector ensures that technical departments have access, from the design phase onwards, to data about the infrastructure and buildings that they will be maintaining. This allows them to anticipate the asset management organisation (technical, regulatory, safety, preventive, financial and other details) and optimise maintenance processes.

Furthermore, viewing the 3D model of the assets (rooms, technical equipment, networks, furniture, etc.) derived from the BIM models can speed up the diagnosis of technical incidents, help in the preparation of maintenance work, and reduce technicians' intervention times.

This has been made possible by the development of APIs allowing the integration of 3D solutions available on the market.

With CARL Source, models become interactive and allow users to interact with the tree structure, trigger maintenance actions (work requests, work orders, reports, etc.) and access equipment details (documentation, technical specifications, etc.).

Access to 3D models of networks also assists technicians with troubleshooting in the field.

About CARL Software

CARL Software, with over 30 years of expertise in equipment and asset management, has Europe's largest team of CMMS and TAM specialists, backed by a worldwide network of distributors.

Its CARL Source software is available in five industry-specific variants, and can be combined with two mobile solutions: CARL Touch, for field technicians and stock managers, and CARL Flash, an application for service requests from all categories of user.

The CARL Source CMMS and TAM software meets the needs of all sectors:

- Manufacturing and process-based industries: **CARL Source Factory**
- Facility and equipment management: **CARL Source Facility**
- Management of equipment, facilities, networks, etc. for local authorities: **CARL Source City**
- Passenger transport, for the management of rolling stock, infrastructure, networks, linear assets, and so on: **CARL Source Transport**
- Management of buildings, technical and biomedical equipment for hospitals: **CARL Source Healthcare**

Mobile applications available:

- **CARL Touch** assists technicians during maintenance work (notification of work requests, geolocation of equipment, maintenance history and technical specifications of the equipment to be maintained, voice or touch screen reporting, etc.) and allows use without a network connection. It also provides functions for stock management, equipment description and inventories.

- **CARL Flash** is a mobile application, launched in 2017 and designed for users (occupants, visitors, general public, etc.) of equipment, buildings, public spaces, and so on, that enables them to use mobile devices (iOS, Android and Windows) to submit requests and discuss these with the technical departments responsible for maintenance.

CARL Software joined the Berger-Levrault Group in May 2018.

A subsidiary of the Accueil Group, Berger-Levrault publishes software and regulatory content on an international scale. According to the 2018 EY and Syntec Numérique report, it is the ninth-largest publisher in the sector.

It is a major player in services to citizens and regional administration, providing support to local public bodies and the healthcare, medico-social, education and business sectors, through its specialist solutions that combine advice, software packages, sector-specific content and services. Berger-Levrault aims to enable users to benefit from the enormous potential of digital technology through service platforms.

With more than 51,000 customers and over 1,700 staff in France, Spain, Canada and Morocco, the Group offers its customers strategic support in their digital development, at a time when public data is being made openly accessible on a massive scale.

In 2018, the Berger-Levrault Group (which has its head office in Boulogne Billancourt) generated revenues of €160 million (up 10% on 2017), of which 20% outside France.