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Space for the business of tomorrow.

OVERview

PTV xServer Business Connector for SAP

Optimization of routes thanks to geodata in SAP



PTV xServer Business Connector for SAP

Geographical requirements occur frequently in SAP. Freight calculation, transportation planning & execution, master data – all require simple and complex geographical functions. A task as simple as address verification, or as complex as transport planning of freight units with mapping support, these features are becoming an obvious requirement and can only be delivered by external vendors because SAP standard solution does not provide them.

PTV xServer deliver this functionality, improving the accuracy of geographical functions mentioned above. The PTV xServer Business Connector for SAP brings your SAP system and the PTV xServer together with considerable cost savings. There is no integration effort required to enable geo coding, routing and map integration in your SAP system with the PTV xServer Business Connector for SAP. Your ABAP developers can then use geo functionality with a framework that is abstracted from the PTV xServer API to simplify their development environment.

Functions overview

Technical connectors

An SAP system requires technical connections to PTV xServer to provide accurate geo services. The technical connectors enable you to use all options of the PTV xLocate, PTV xRoute and PTV xMap operations and provide basic communications with the PTV xServer. No manual import of the PTV WSDL file is necessary. With knowledge about the PTV xServer API, developers can have full control over the communication channels to PTV xServer.

Functional connectors

Functional connectors are designed to provide PTV xLocate, PTV xRoute and PTV xMap functions to ABAP developers without the overhead of working directly with the PTV xServer API itself. As single modules, the functional connectors make use of the

technical connectors, which must also be available in the system. Lower level functions of the technical connectors are encapsulated into an ABAP programming interface which can be used easily in your custom applications.

Functional connectors enable the following:

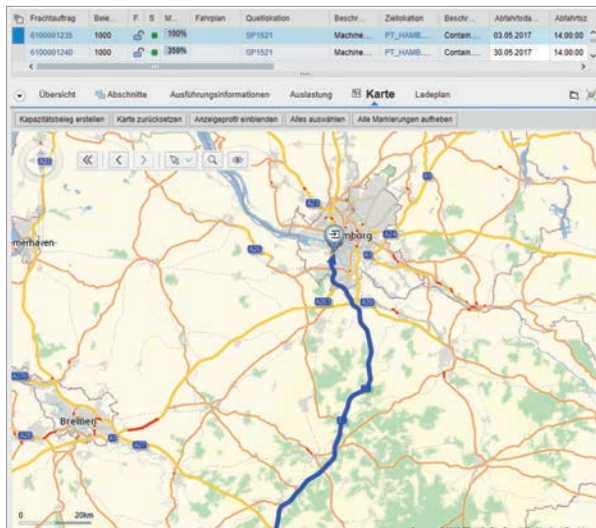
- **Geocoding:**
Determine coordinates for individual locations, address lists and even POI's (Points Of Interest), making them available for further processing, such as map displays or routing functions.
- **Address verification:**
Single addresses, address lists, POI lists and free text lists can be passed to the PTV xLocate server, ensuring your master data is complete.

- **Distance calculation:**
Calculate distance and duration for a trip between two or more locations, inclusive of waypoints in between. Options can be enabled for avoidance of ferries or toll roads.
- **Route calculation:**
Calculate routes within suggested parameters for trips between given locations.
- **Object placement on map:**
Map displays that overlay spots, circles, areas, and enable you to draw lines between objects provide for an optimal map display experience. SAP Visual Business is a component of this functionality.

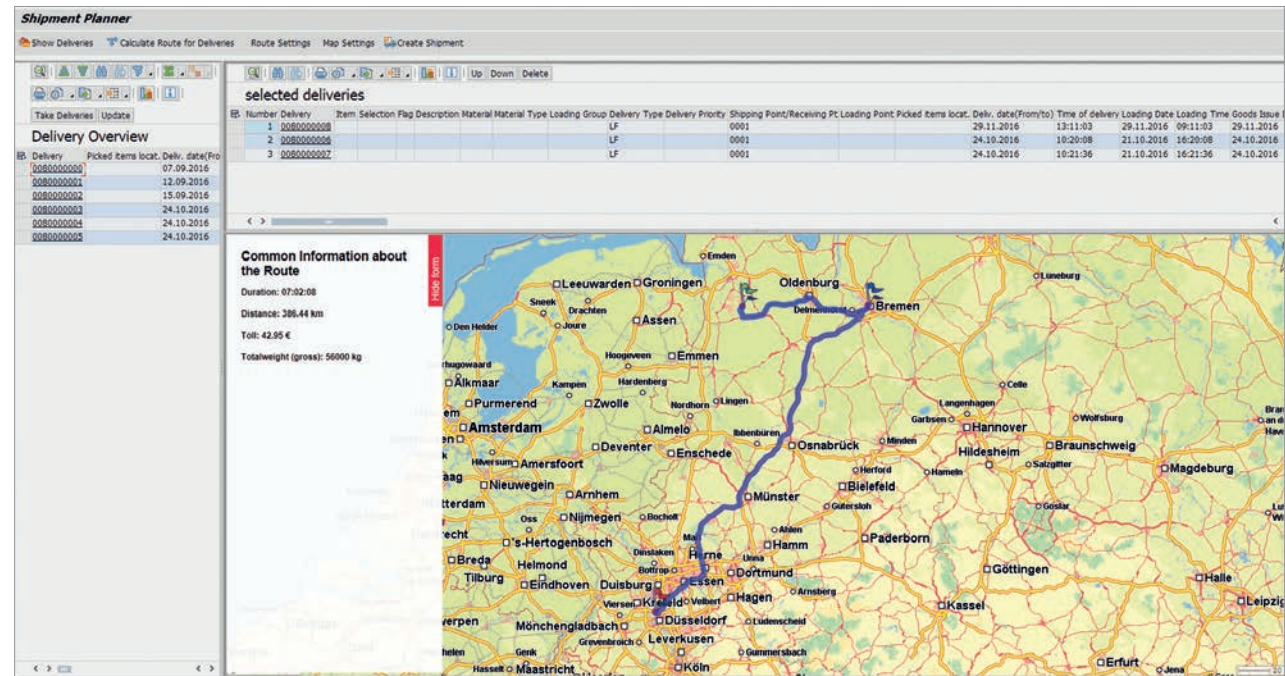
Out-of-the-box solutions

SAP TM process controller integration

This enables direct import of geocoding, distance and duration information into your SAP TM system. PTV services can be used out of the box, requiring no further implementation. The solution fits seamlessly into the system at the point which was designated by the SAP standard.



Map display and detailed route calculation in SAP using the solution for SAP TM integration.



With the Shipment Planner for SAP, you can schedule shipments in SAP LE-TRA with the help of an integrated map.

Shipment Planner for SAP

With this solution it is possible to show on the map where consignees of deliveries are located at. Calculate routes between the destinations and reasonably determine with the help of the map which deliveries can be planned together for transportation.



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The abat Group, founded in 1998, is an SAP service provider, innovative software developer and provider of complete solutions for software-supported process optimization –

primarily in the core industries of automotive and discrete manufacturing as well as in logistics processes and production control. With our six service areas, we give companies the freedom they need for new ideas, efficient processes, and future-oriented solutions.

In the **consulting** service area, we advise and support you in all phases of an SAP project – from conception to implementation to operation of your SAP system. With abat **manufacture**, you receive digital, high-availability solutions for production control in the complex manufacturing industry. With abat **transform** we offer you innovative and unique solutions that make you special: from AI to cloud to X-Reality. The **PLM** area offers comprehensive process consulting with the goal of achieving a continuous data flow across PLM, ERP and MES. Offerings from the **protect** area help customers secure information and maintain the confidentiality, availability, and integrity of business relationships. Finally, our **sustain** experts advise on how sustainability and CSR reporting can be strategically and structurally anchored in the company.