

Data Hub & Digital Avatar

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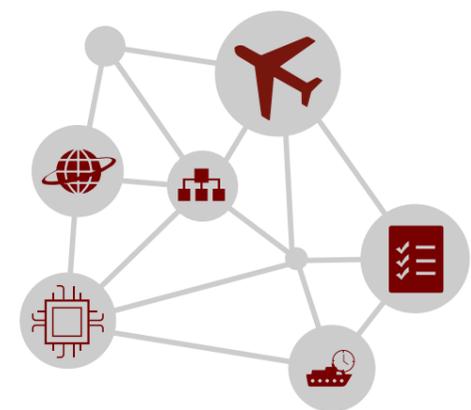
The air cargo business is characterised by its fragmentation: A multitude of players are involved in the transport of a shipment from A to B. The exchange of data is analogous: there are a multitude of data silos that are nowadays connected by EDI telexes and, moreover, non-standardised interfaces: From API to mail to telephone, everything is involved. With the digital data hub, we are awakening the data world of airfreight from its hibernation and will be catapulting it directly into the 21st century. With the avatar, we use this data to make informed decisions based on cross-company simulations and thus increase efficiency and resilience for Germany as an air cargo location.



Goals & Opportunities

Within the scope of SP1, we are developing the data hub, implemented as an open source server software package called NE:ONE, which implements the data model and the API specifications of the IATA ONE Record Standard. With the help of additional convenience features, NE:ONE enables the operation of a ONE Record server and thus participation in data exchange out-of-the-box.

In addition, we are developing a cross-company digital avatar that obtains its data through ONE Record and processes it internally according to the standard. With these two tools at hand, we are putting ONE Record through its paces, providing input for its further development and showing the airfreight industry what potential a modern data exchange has for every company.



Desired Outcomes

At the end of the sub-project, the NE:ONE software, which will then be tested, will be publicly available as source code for every company worldwide free of charge and, in addition to the requirements of IATA, will include further additional features such as smart caching. Within the scope of SP1, the ONE Record server network is to be popula-

ted with real data and show that real industry use cases can be covered. The digital avatar is to become a blueprint for similar collaborative simulation projects at other locations and show that greater data transparency and modern data management offer many opportunities for all participants.



Challenges

For companies, the creation of ONE Record-capable interfaces is difficult due to the worldwide shortage of skilled workers in the IT sector, which is why data is initially converted manually into the data model. Therefore, the developments of SP1 lay the foundations for this conversion process: In theory with the Digital Avatar, and practically with the NE:ONE data hub.

Partner

