



GENERAL INFORMATION

A quick description of the Simoon.cloud service



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Microsoft Azure is a trademark of Microsoft Corporation

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Cargo IMP is a standard issued by IATA – International Air Transport Association



Patronage

This project is under the patronage of Spediporto, the association of freight forwarders and land transport companies in Genoa.



Preface

This publication is intended to quickly describe Simoon.cloud web application services and its reflections on the optimization of business processes.

An overview of technical issues is given too, without deeply entering in specific topics.

More technical information is given in the books dedicated to programming and development subject.

Chapter 1 – The aim of the system

Simoon.cloud is a web application service having the purpose to allow all the operators in a logistic and information chain to easily code messages related to air freight. Messages will be exchange between the operators and remain always digitized so, the door of digitization of processes is open, the number of errors reduced, and a lot of money saved.

Every time an information, digitized in a computer system, is sent to another entity using instruments like phone, fax, e-mail, it returns analogic. On the other side of the line, perhaps, someone will digitize the information again writing it into another computer system, but the chain has been broken, the process cannot be automatically controlled any more, and a lot of time have been spent in information exchange to make it complete and reliable.

Simoon.cloud is intended to make the information digital, complete and reliable at birth, so than nobody will have to change it, although some data will be added by the operators for different needs.

The decision to create a web service has been taken by the development laboratory to reduce the impact of changes in the existing software application installed, because the passage from analogic to digital must be easy, quick and cheap, and Simoon.cloud responds exactly to this requirement.

Chapter 2 – Who is the system dedicated to?

The system is intended to support all the logistic and communication chain in maintaining data digitized: industries, freight forwarders, ground transport companies, ground handler agents, airlines, consignee, from the factory to the final client at home.

Many companies have a web interface to their operational software applications and data are digitized inside their own boundaries, but when data have to be exchanged with business partner, they are still analog.

One of the most important critical success factor is “planning” but, in a logistic environment a complete view of processes, internal and external, is needed, ad a correct use of a business rule manager need digitized data in the whole process.

Every business company is supposed to have a software application platform in which data are processed and stored. Every company “may” use automatic engines to guide the resources along the paths of its business processes. But information is not available to business partner for their planning activities, it is given them partially and too late.



The whole logistic chain loses money.

Simoon.cloud is an Industry 4.0 enabler, it allows the digitization of process, that might be analyzed and optimized: It is a tactical, effective, tool to better plan and monitor job activities, save money, and give substance to ISO 9000 certification.

Chapter 3 – Messages

The first release of Simoon.cloud will handle the following messages:

e-Logical Message	Message	Cargo IMP Version
Availability Request	FVR	1
Availability Answer	FVA	2
Booking Request	FFR	6
Booking Answer	FFA	4
Air Waybill (receive)	FWB	15
Consolidation List (receive)	FHL	3
Status Request	FSR	0
Status Answer	FSA	12
Status Update (receive)	FSU	12
Status Update (send)	FSU	12
Flight Manifest (send)	FFM	7
Error	FNA	0

They are the most important for communications among freight forwarders, ground handler agents and airlines, but they can be used by shippers and ground transport companies too. In any case, messages for specific logistic actor will be set up in the following software versions.

An operator may use a subset of these messages, for instance, if it wants to track and trace the operations, it can use only the FSR / FSA messages cycle; if it is a GHA, it might use the FFM / FHL only. The more complex is the activity, more messages will be used.

Chapter 4 – Technologies

Simoon entirely works on cloud, because it makes the app always available with any Internet connection, stable and quick.

The chosen platform is Microsoft Azure, which has also those efficiency and professionalism that are a signature of Microsoft products, in addition to all those characteristics we already described.

Simoon has been designed with open source, state-of-the-art technologies, which include PHP 7.1, the most common open source server-side scripting language, and Apigility, a powerful tool to create API. Thanks to this partition of interfaces and API, Simoon is easy to use both as stand-alone service ad as integrated tool in other management systems, CRM and others.



Moreover, our system makes use of a NoSql database built on MongoDB, the most modern technology to archive data, in order of increase further flexibility and possibilities to adapt Simoon to specific requirements.

Chapter 5 – A simple process

To integrate and use Simoon.cloud in an operative application software is simply.

Simoon.cloud receives information and, if they are correct, packages them into a message ready to be sent to an Airline or another subject in the air freight logistic chain; else send you an error message pointing out what kind of error has been occurred, so you will be able to correct it and restart the process.

After the composition phase, the message is sent to the cargo community system using the usual technicalities: web api, FTP, etc.

A very small effort is needed to do it: it can be done adding new code to your current operational software application (not recommended because it has the implication of a maintenance activity for every new version of your software), or adding two “buttons” with which activate the new function to import or export data (simple, effective, cheap).

All transactions will be stored into a database, both the before image (the information before processing) and the after image (the information after processing), so there is a trace of all operations that can be used by the client for future analysis and process optimization.

When a message is sent to a business partner through the cargo community system, an automatic acknowledgment message is issued, so the process is under control and certified.



Related Publications

Simoon Techbooks

SM17-2100-00	Simoon.cloud General Information Manual
SM17-2101-00	Simoon.cloud API Reference
SM17-2102-00	Simoon.cloud Application Programming Guide
SM17-2103-00	Simoon.cloud Messages and Codes Reference
SM17-2104-00	Simoon.cloud Database Guide

Other Publications

Sezione lasciata intenzionalmente bianca

Online resources

<http://www.simoon.cloud/>

Help from Simoon.cloud

<http://www.simoon.cloud/contacts>

