Software blockchain solution for
supply chain integration

Surge

THE PROBLEMS WE MANAGE

Most Supply Chains today feed on data from different and disconnected sources. (ERP's, PLM's, etc).

Traditional blockchain can solve the problem but at a high cost, with technical limitations, a strong need for customization and a lack of scalability.

SOLUTION

Surge has created a software that doesn't require to change any Legacy system already deployed.
In fact Surge fits existing systems just like a bespoke suit, its user-friendly and it enriches with useful data the classic blockchain.
Our solution is hosted on our clients cloud.

WHY YOU NEED SURGE

COLLABORATION

Surge enables companies with different Supply Chains to collaborate, sharing a "merged" enriched database with the information of each partner.

TRANSPARENCY

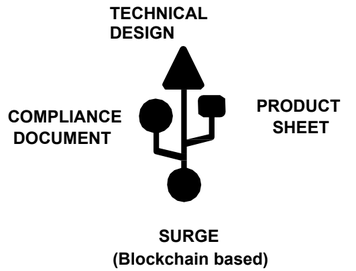
Surge enables everyone to work in a totally transparent and safe environment.

BUDGET AND TIME SAVING

Surge enables users to save budget and time, speeding up procedures and the recovery of information, using a shared database.

SURGE'S PROPOSAL

SURGE software, based on blockchain technology, enables to create trust between companies by sharing "rich data" between supply chains.



SURGE reduces considerably manual and redundant actions, and enables a quick access to relevant documents while providing the opportunity to create cross-company dashboards that give an eagle eye picture connecting all complex supply chain networks together.

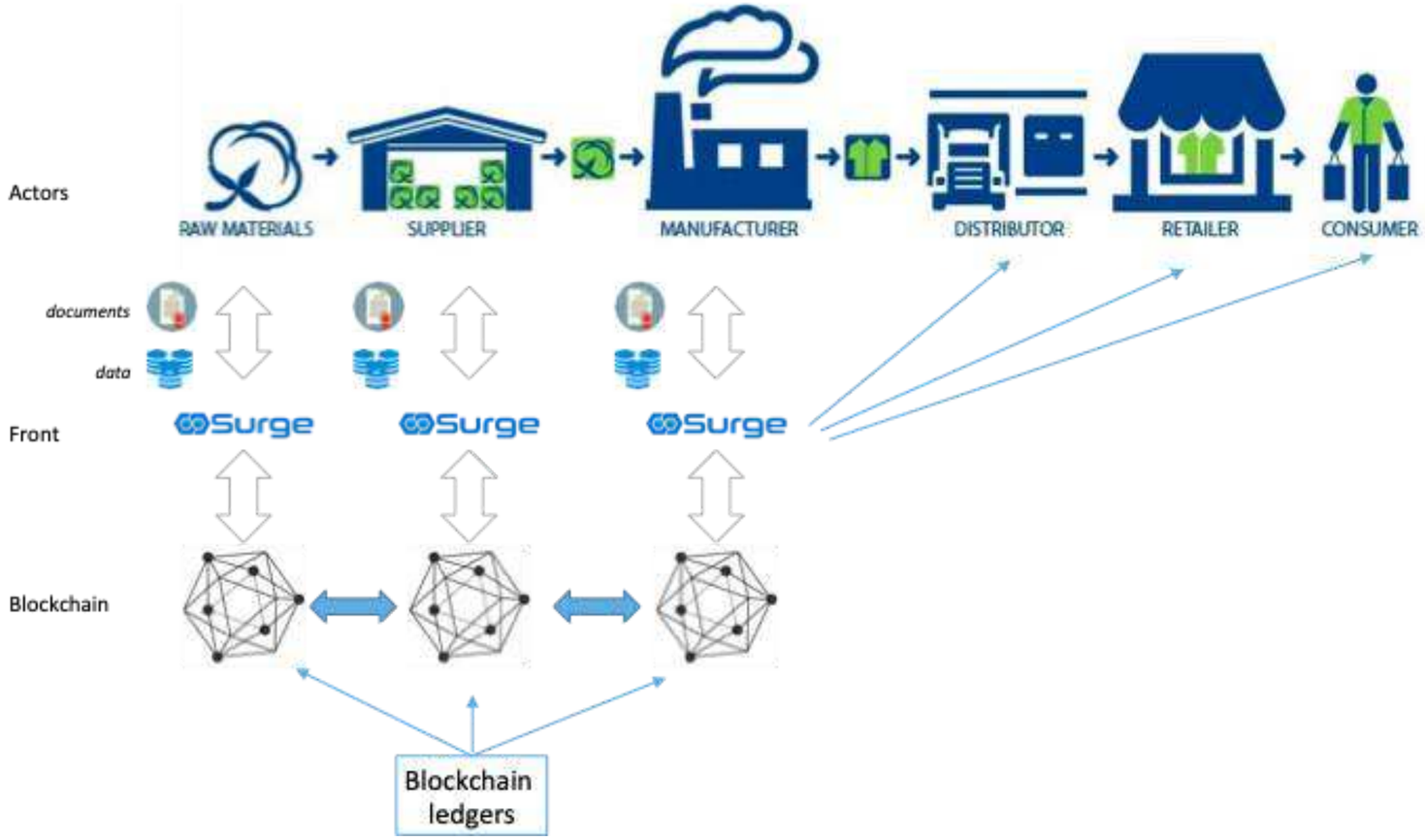
SURGE manages product information in compliance with laws and regulations thanks to the opportunity of enriching data by attaching the compliance documents required. Blockchain on its own cannot perform such tasks.

HOW IT WORKS

Thanks to SURGE, information from different systems can be "naturally merged" into a single set of certified "rich data" than can then be used cross-company by all the partners.

SURGE guarantees confidentiality of data thanks to its multilayer rules and access lists managed by each company. All informations are crypted.

Each company has its own "front" represented by it SURGE Blockchain Enterprise Gateway.



SURGE'S FRONT

Blockchain / Core services

API

Front

Surge Front

- Identity management
- Security
- User and machine interface (web, ftp,…)
- Notification
- Blockchain integration
- Reporting
- Field & Data mapping
- Caching

- Distributed architecture
- One company one instance

- User e machine gateway to blockchain
- Enriched functionality
- Business oriented solution

API

Files

Clients

Business users
Legacy systems and data

BLOCKCHAIN ENRICHMENT WITH SURGE

Blockchain

- Security & data confidentiality
- Ledgers
- Assets
- Business transactions
- Participants
- Events

Media/Users/Keys/Events

Microsoft Azure

amazon web services

- User management
- Documents
- Media
- Crypto keys

Business & Tech repository

- Common repository
  - Business vocabulary
  - Standards & validations
  - Business objects
- Project repository
  - Custom objects
  - Custom rules and validations
  - Custom libraries

Surge

SURGE enriches basic blockchain data and it makes it relevant for companies.

Front

- User/end point security
- User and system interface
- Data mapping & translation
- Notifications
- Blockchain integration
- Legacy integration

F E A T U R E S

	Surge	
BUSINESS ENABLERS		
Configurable business libraries	✓	✗
Configurable business workflows	✓	✗
Front-end and email Notifications	✓	✗
Enterprise level security management	✓	✗
Advanced data ownership	✓	✗
TECHNOLOGY		
Distributed Client solution	✓	✗
Ready to go customer front end and back end	✓	✗
Off chain management of binaries	✓	✗
Crypto Key Storage integration	✓	✗
LDAP integration	✓	✗

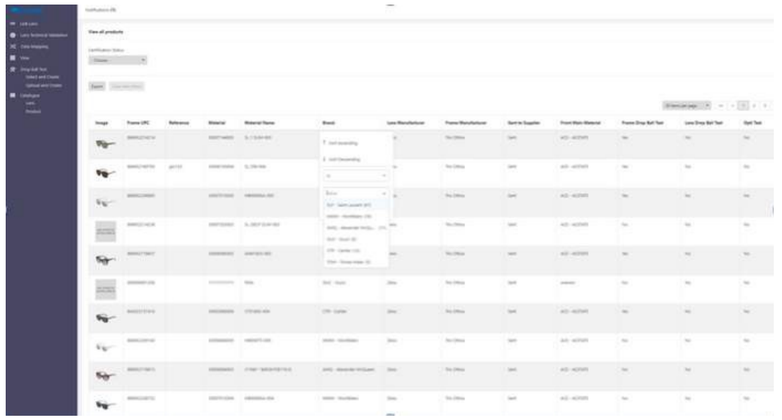
✗ = Requires custom development and in some cases integration of third party services

COLLABORATION - THE NEXT LEVEL

SOLUTION

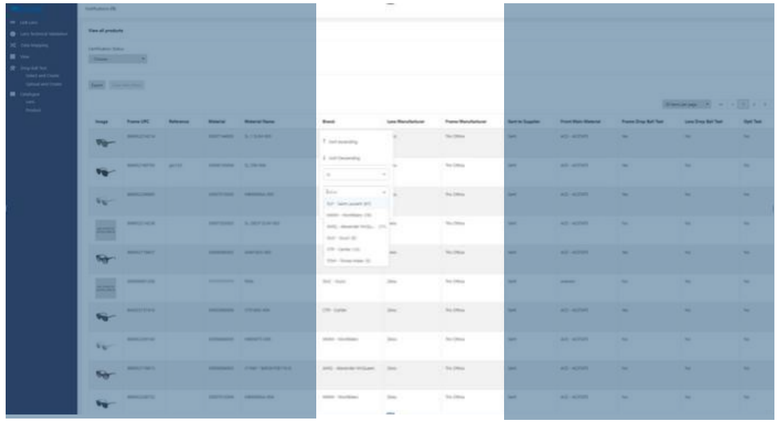
- PLM: combine all product related data in one easy and secure Blockchain solution
- Document management: link product data and trusted documents in one place
- Collaboration: companies and teams all over the world can find information and documents in no time
- Workflow: complex intercompany processes become fast and intuitive

DASHBOARDS



- One place: all product data across the Supply Chain is combined in one place for the first time
- Reliable: the data is published by data owners
- Real time: get notifications as soon as relevant data is available

RICH & FLEXIBLE UI



- Modern and powerful UI: filter, hide, drag, sort, export and more!

SURGE'S UNIQUENESS

1. UNIQUE DATABASE CREATION

Single set of certified "rich data", usable cross-company by all partners.

2. SAFETY

Confidentiality of data thanks to multilayer rules and access lists managed for each company.

3. PERSONALIZED FRONT

Each company has its own front Surge Blockchain Enterprise Gateway.

SURGE'S FEATURES IN DOCUMENT MANAGEMENT

1. PATERNITY

Guarantee of the document sender.

2. NON REPUDIATION

It's impossible to deny the execution of an operation.

3. INTEGRITY

You can always demonstrate if a document has been altered or forged.

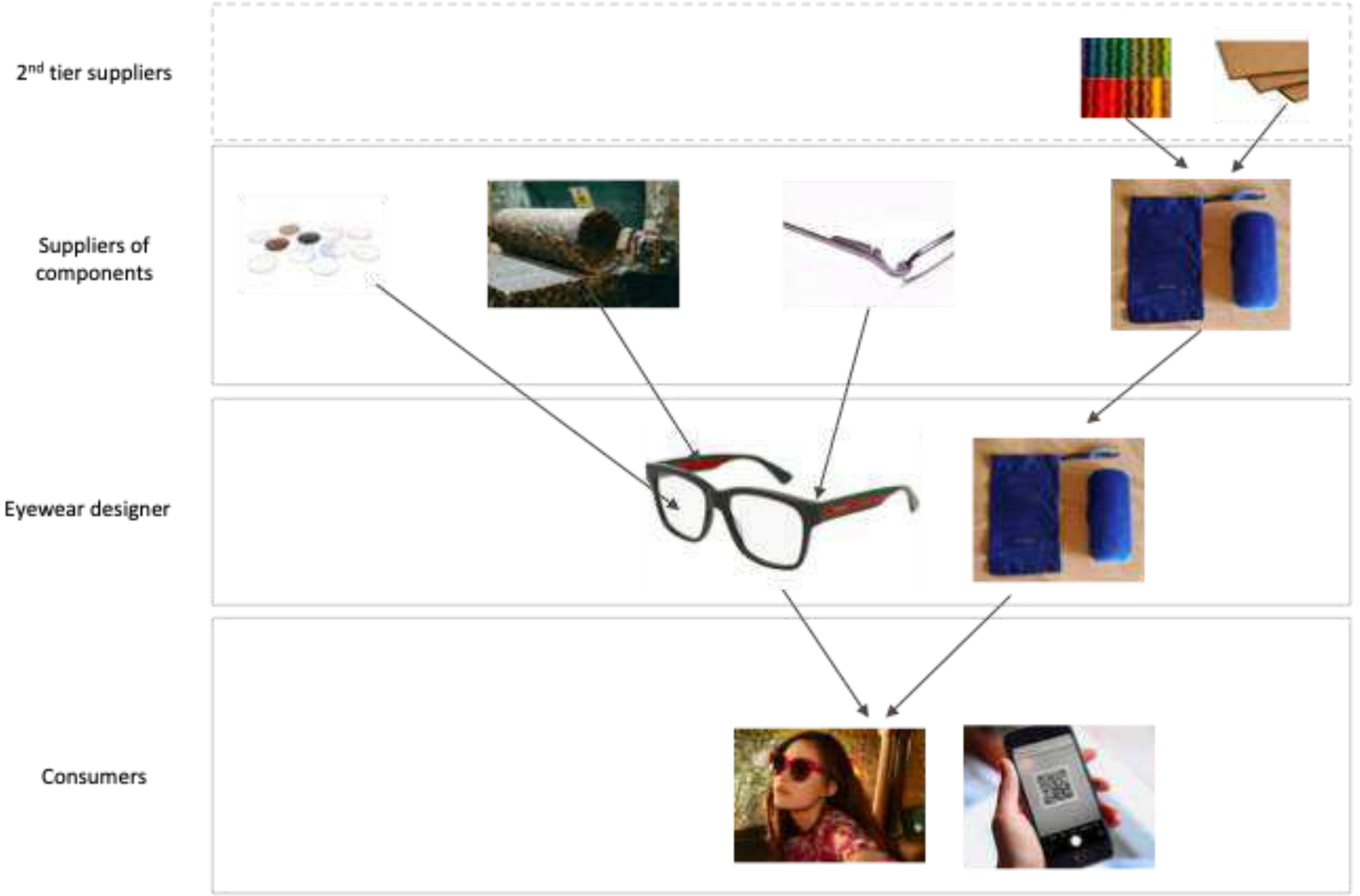
O U R C L I E N T S

KERING EYEWEAR

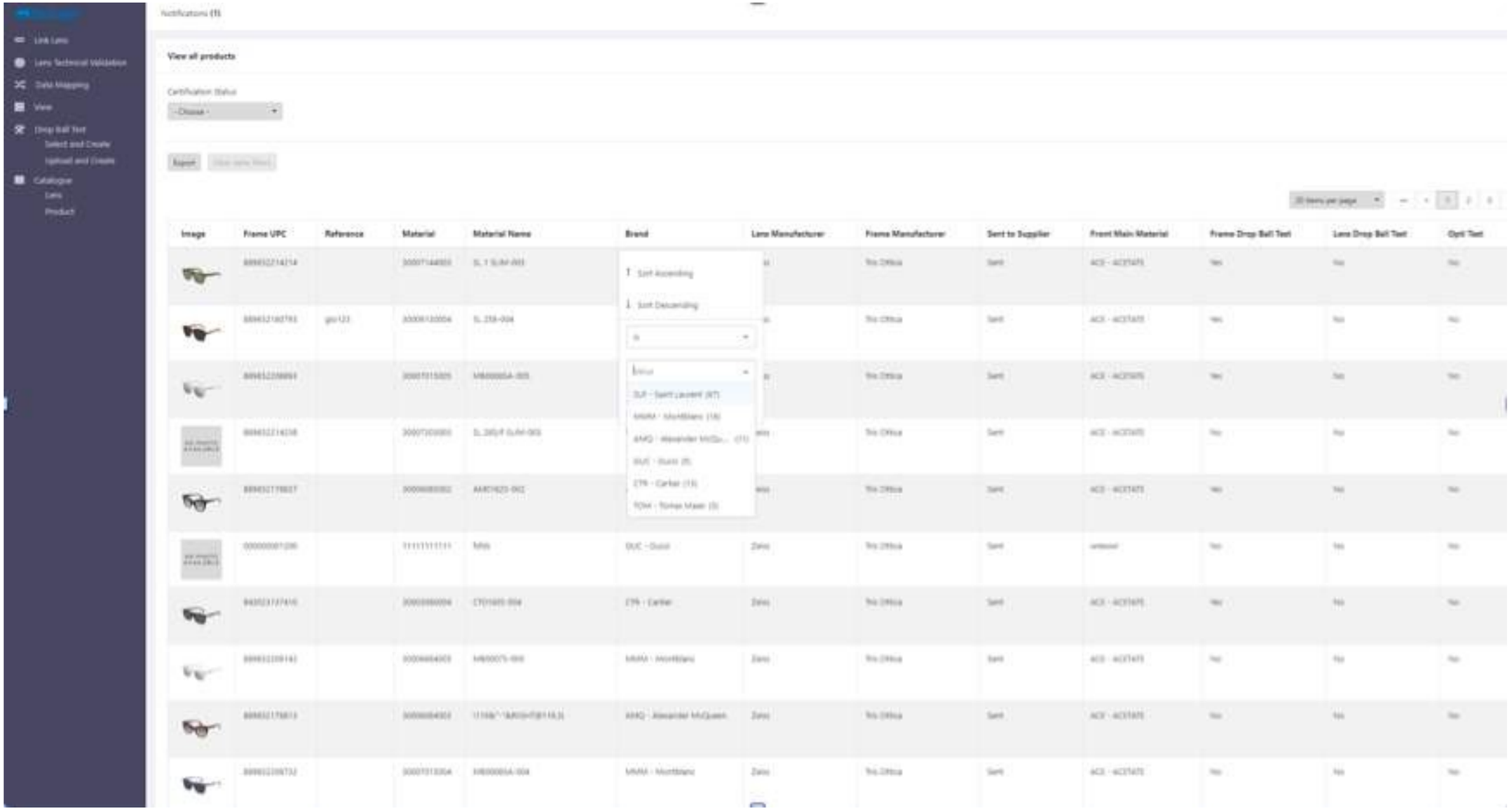
CERTOTTICA

ZEISS

THE OBJECTIVE WITH THE EYEWEAR PROJECT: THE DIGITAL PRODUCT IDENTITY



THE PRODUCT


Notifications (1)
Link Lens
Lens Technical Validation
Data Mapping
View
Drop Ball Test
Select and Create
Upload and Create
Catalogue
Lens
Product
View all products
Certification Status
- Choose -
Export
Image
Frame UPC
Reference
Material
Material Name
Brand
Lens Manufacturer
Frame Manufacturer
Sent to Supplier
Front Main Material
Frame Drop Ball Test
Lens Drop Ball Test
Optic Test
Sort Ascending
Sort Descending
SLP - Saint Laurent (87)
MMM - Montblanc (16)
AMQ - Alexander McQu... (11)
GUC - Gucci (8)
CTR - Cartier (13)
TOM - Tomas Maier (3)

BUSINESS MODEL

SOFTWARE

A Cloud subscription – based on company's turnover and number of users

PROFESSIONAL SERVICES

- Partnerships with system integrators for process design and project management
- Internal development of new workflows and processes

SUPPORT

- User support and system maintenance
- Monthly fee, Ticket based

RUN

- Delivery and maintenance of Blockchain and Surge software solutions

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