



#### Scan Code

🚞 Offline Check	
Report Counterfeit	



www.stopfakebearings.com

# WBA Initiative -

# **Bearing Authentication System**

# International Motion & Drives Summit 19. April 2023

# World Bearing Association (WBA) Some Facts



- Created in September 2006
  - to focus on critical issues in the \$45 billion global bearing industry and
  - to promote the common, lawful interests, such as
    - open economic engagement,
    - sustainable development and
    - the protection of legal rights.
- Multinational global corporations
  - manufacturing in more than 70 countries and five continents,
  - representing about 250.000 employees worldwide.
- Members:
  - The American Bearing Manufacturers Association (ABMA),
  - the Federation of European Bearing Manufacturers' Associations (FEBMA) and
  - the Japan Bearing Industry Association (JBIA).

## WBA check App is a single point of entry



# SCHAEFFLER

... to check the authenticity of bearings of all well known **SKF TIMKEN** manufacturers being members of the WBA.

## The main system components



**WBA** World Bearing Association



### **Serialized Code**

- Applied by manufacturer on the product and/or package
  URL / GTIN\* / unique
- number
- Products' digital twin
- Single point of entry to manifold digital services for end customers, mechanics, service employees etc.

\* type reference



#### Mobile Apps/Services

- Simple scan of the code
- Worldwide access 24/7
- Additional services from the display of product information and fitting instructions to the collection of bonus points
  Assignment of role

specific services



### **Cloud Backend**

- Stores all codes (currently 3.5 billion) and code related events
- High performant, secure environment
- Serial vault to create random serial numbers
- Connection to external data sources like the manufacturer's ERP system, product catalogues etc.



## T & T Portal

Allows the manufacturer

- to trace all code related events,
- to gain insight into the movement and usage of his products
- •to evaluate for instance grey market activities.

## Possible Endpoints – Different Users, different components







WBA Authenticator 2.0

1D+

# WBA and onelDentity+ App

- onelDentity+ App now replaced by osapiens 1D+ App
- WBA Authenticator App replaced by WBA Authenticator 2.0
- Old Apps do not allow code check anymore, but show webpage with download links of new App



WBA WeChat MiniProgram

#### WBA WeChat Miniprogram

- Automatically calls the new code check interface that connects to the new system
- Code checks of all WBA manufacturers should work as before



#### Catalogue Apps: Mobile Response Page

- All requests to old mobile response page are automatically rerouted to new mobile response page
- Code checks in Continental, MSI catalogue apps and WeChat Apps should work as before



#### Check @ Customer Webpages and Apps

- All customers were informed to use the new JSON interface for their checks and most changed their endpoints already
- Please contact us in case of further questions

## More Information: www.stopfakebearings.com







**WBA Check** 



Download on the App Store

WBACheck is available for download from the relevant app stores and by using WeChat in China.





WeChat Mini-Program GET IT ON Google Play

## One measure: WBA check App Bearing Authentication System





## One measure: WBA check App Bearing Authentication System



# Examples of manufacturers' validation results



## Demo









# Information management Portal Dashboard



#### **WBA** World Bearing Association



#### **General GUI elements**

- Side menu can be minimized/expanded via
- Organization filter on top of the page

### **Dashboard filter**

- Default filter Timeframe & Check Result
- Activation of other filters via T and C

### Widgets

- Total Checks: all checks divided into green (=VALID CODE), yellow (=THRESHOLD EXCEEDED) and red (=UNKNOWN CODE)
- Top Countries of Checks: three countries where most of the checks took place
- Codes in Database and Uploads: total number of unique codes and uploads (might be duplicates)

## **Possible Reports**







#### **General behavior**

- Dropdown to select the report type
- Calendar control to select the timeframe (custom timeframe also possible!)
- Display of a chart and a table for each report
- Download as CSV via DOWNLOAD CSV

#### **Report types**

- Check Results: doughnut chart with all checks divided into green, yellow and red
- Checks by Country: bar chart showing how many checks were done where
- Codes in Database: line chart showing the total number of unique codes in the database and number of uploaded codes
- Frequent Checks: table with codes checked more than X times in Y different countries (special filters on top of the page, shows only codes that were at least checked 10 times overall!)

© onelDentity+ GmbH 30.03.2023 12

## Copied code, and now ...?









**WBA** World Bearing Association



Numerous different requests from around the world for the same code trigger investigations by the Brand Protection Team

This helps to understand the supply chain of counterfeiters

## Short summary: Possible added value





 Platform for cross-selling and marketing activities

## Feedback from e.g. Law Enforcement Bodies



**WBA** World Bearing Association

- WCO cap meeting (Counterfeiting and Piracy group): Very helpful that this is an industry solution which can be used for all participants.
- Thai customs: App is interesting and userfriendly, it is useful and easy to use.
- MOST (Ministry of Science and Technology) and DMS (Directorate of Market Surveillance), Vietnam: very useful
- ISO group (ISO TC292 WG4): Good approach which is inline with the current developments



## Time for cooperation?



- Same system shared by many manufacturers will simplify processes for the customer and lead to better reception.
- Any interested party is invited to discuss possible cooperation with WBA and its service provider.





# Do you have further questions?

Please contact

Ingrid Bichelmeir-Böhn, Schaeffler AG

Ingrid.Bichelmeir@schaeffler.com

Tel.: +49 9132 823019

Sylvia Grohmann-Mundschenk, FEBMA / WBA

sylvia.grohmann@vdma.org

Tel.: +49 69 6603 1319

# Thank you very much!