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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Identification** | | | | | | | |
| **Project Name** | | | | | | | |
| Project Toyo Tires TE + CA | | | | | | | |
| **Organization** | | | | | | | |
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| **Project Manager** | | | | **Work Stream** | | | |
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| **Revision Date** | **Revised By** | | **Comments** | | | | |
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| 01/27/2023 | Morley | | Enhance 3.1.2.5 and 3.1.2.8, add 3.1.3 | | | | |
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| 02/20/2023 | Morley | | Additional fields for Supplier claim output 3.1.2.5 | | | | |
| 05/05/2023 | Morley | | Change to characteristics + MW search strategy | | | | |
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| **Date** | **Name** | | **Comments** | | | | |
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# General Information

## Overview

**This is the delta FS for new requirements introduced 4/28 and 5/1.**

Specifically,

1. Material characteristic TTR\_SPEED\_RANGE will not exist in the Production load. We need to pivot to using RAC\_SPEED\_RATING.
2. Material characteristic RAC\_TIRE\_CATEGORY will need to be brought into the claim process and integrated into the master warranties to determine if a tire is a LT-metric tire.
3. The determination of a master warranty for each tire now requires a hierarchical search, as follows:

Each equipment will have all three characteristics populated. The master warranties will have only one or two of these populated. Search for the following combinations, stopping when a matching master warranty is found:

* 1. Pattern + Speed Rating, then key ob
  2. Pattern + Tire Category, then
  3. Pattern

## Business Requirements

## Assumptions

## Integration Points and Dependencies

## Security and Control Considerations

## Other Relevant Information

# Functional Unit Test Scenarios

| Test Case | Description | Fiori Tile / Navigation | Expected Results |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Interfaces

|  |  |
| --- | --- |
| Program Type | Batch Interface,  Online / Real-time Interface |
| Interface Type | EDI / IDOC,  ALE,  BAPI,  Web Service,  Other |
| Interface Direction | Inbound,  Outbound,  Both |
| Created With | SAP Standard / PI,  Add-on Interface |
| External System | Hybris WRANT02 |
| Contact for External system |  |

## Detailed Functional Description

### Prepare to Create Equipment for Warranty Material

#### Retrieve FactorySerial record

#### Determine Reimburser Vendor number

#### Determine next available SERNR

#### Determine Master Warranty

*See section 3.1.2.7.*

### Create Equipment for Warranty Material

#### Initial Screen

#### General data

#### Location data

#### SerData data

#### Classification data

*The following will only consider the changes that are required for CR-074. In addition to what was mentioned earlier in this document, we will also pull in PRODH2 from the material’s product hierarchy assignment because it is needed for reporting.*

Following the path of manually creating the equipment, the next step would be to click on <Class overview> at the top of the screen.

Graphical user interface, text, application, table

Description automatically generated

In practice it may be necessary to use IBIP t-code, upload program 0140 or similar

Populate the AUSP classification data by copying from this material’s Material Master classification data as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | Technical Name | Value | Description / Explanation |
| Object | OBJEK | EQUNR (full 16 digit nr w/leading zeros | Equipment number just created, if forced to save it and assign classification as a separate task |
| Class Type | KLART | “002” | Equipment Class. Auto-populates when doing from within EQUI-Create. |
| Class | CLASS | “TOYOTIRES” | Assign configured class |
| Description | Characteristic |  | Item type |
| RAC – Speed Rating Code | RAC\_SPEED\_RATING |  | 2 CHAR alpha-numeric |
| RAC\_Tire Category | RAC\_TIRE\_CATEGORY |  | 2 CHAR alpha-numeric |
| ~~Original Tread Depth in 32nds~~ | ~~ORIGINAL\_TREAD\_DEPTH\_32~~ |  | ~~2 CHAR num. Original tread depth in 32~~~~nds~~ ~~of an inch~~ |

The Material Master characteristics class is also TOYOTIRES and we have been careful to use the identical naming conventions for the characteristics.

In addition to the characteristics above, we need the values and descriptions of two of the material’s product hierarchy:

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Characteristic |  | Item type |
| Category | WTY\_CATEGORY |  | PRODH2 |
| Category Description | WTY\_CATAEGORY\_DESCR |  | T179 PRODH-VTEXT |
| Tire Pattern | WTY\_PATTERN |  | PRODH4 |
| Tire Pattern Description | WTY\_PATTERN\_DESCR |  | T179 PRODH-VTEXT |

Click <Next screen>  when done.

Graphical user interface, application

Description automatically generated

#### Measuring Points / Counters data



#### Assign Master Warranty

The final step in creating the equipment is to assign the warranties applicable to the equipment as determined by the following rules. Truck/Bus tires have a longer trial period than Passenger and Light Truck tires. The simplest test for this is to look at product hierarchy 2 which can have one of three values: (P)assenger, (L)ight Truck, or (T)ruck/Bus.

**CLMTY = ZCTP** Trial Period Guarantee

**Customer warranty**

Begin Guarantee GWLDT\_O = PNWTYV-RELDT Purchase date  
IF PROH2 = “T”  
 Master Warranty MGANR\_OUT = BGMK-MGANR where BGMK-EXGAR = ZCTT

ELSE

Master Warranty MGANR\_OUT = BGMK-MGANR where BGMK-EXGAR = ZCTP

**Vendor/manufacturer warranty**

The trial period claim is not eligible for supplier recovery. Leave these fields blank.

The two other claim types are based on the date of manufacture. The last four characters of REFNR are the week and year of manufacture. To be as liberal to the customer as possible, select the Friday of the week of manufacture as the baseline date.

**CLMTY = ZCSC** Standard Claim (Original Equipment)

**Customer warranty**

Begin Guarantee GWLDT\_I = (calculated) Date of Manufacture  
 Master Warranty MGANR\_IN = BGMK-MGANR where BGMK-EXGAR = ZCSC

**Vendor/manufacturer warranty**

Begin Guarantee GWLDT\_I = (calculated) Date of Manufacture  
 Master Warranty MGANR\_IN = BGMK-MGANR where BGMK-EXGAR = ZCSC

*The following discussion of mileage claim master warranties is the most significant change in this delta spec.*

Mileage claims are only offered on certain Passenger and Light Truck tires, but the number of miles warrantied varies widely by tire pattern and speed rating or if it is an LT-metric tire. We have assigned classification to the master warranties to store the applicable values.

The task will be to search the AUSP table for master warranty characteristics that match the claim tire and assign it. The tire will have three characteristics; the master warranty will have only one or two active If a match is not found, we will assign a “dummy” master warranty to that tire to indicate that it is not warrantied.

**CLMTY = ZCMC** Mileage Claim

**Customer warranty**

Begin Guarantee GWLDT\_I = (calculated) Date of Manufacture

For AUSP-KLART = “039”,

1. search AUSP for an OBJEK whose two ATWRT values match the Tire-WTY\_PATTERN and Tire-RAC\_SPEED\_RATING values on the tire equipment.

IF found: Master Warranty MGANR\_IN = AUSP-OBJEK

ELSE

1. search AUSP for an OBJEK whose two ATWRT values match the Tire-WTY\_PATTERN and Tire-RAC\_TIRE\_CATEGORY values on the tire equipment.

IF found: Master Warranty MGANR\_IN = AUSP-OBJEK

ELSE ls\_allocvchar\_wp-value\_char

1. search AUSP for an OBJEK whose ATWRT value match the Tire-WTY\_PATTERN value on the tire equipment.

IF found: Master Warranty MGANR\_IN = AUSP-OBJEK

ELSE

Master Warranty MGANR\_IN = BGMK-MGANR where BGMK-EXGAR = ZCMCNA

**Vendor/manufacturer warranty**

Begin Guarantee GWLDT\_I = (calculated) Date of Manufacture  
 Master Warranty MGANR\_IN = BGMK-MGANR where BGMK-EXGAR = ZCSC

Graphical user interface, text

Description automatically generated

<Save> the resulting equipment.



Repeat for each tire on the claim.

**Note that equipment number EQUNR must populate to the PVWTY-RELOB\_EXT field and PVWTY-RELTY be set in the associated claim. This is what links the warranty claim line-item back to the equipment data prepared here for the actual warranty processing.**

### Record Measurement Readings

## Source Side

|  |  |
| --- | --- |
| Relevant Tables |  |
| Description of Interface |  |
| File(s) |  |
| Input File Location |  |
| Layout |  |
| Archive notes/locations |  |

## Middleware

|  |  |
| --- | --- |
| Description of Interface |  |
| Inbound File(s) |  |
| Input File Location |  |
| Outbound File(s) |  |
| Outbound File Location |  |
| Mapping |  |
| Logic or lookup systems/tables |  |
| Archive notes/locations |  |

## Target Side

|  |  |
| --- | --- |
| Relevant Tables |  |
| Description of Interface |  |
| File(s) |  |
| File Location |  |
| Layout |  |
| Archive notes/locations |  |

## Detailed Technical design

<All objects created for this WRICEF  
Specific Code logic that needs to be understood to support  
Technical dependencies>

## Reporting/Notification Requirements

<Details for reporting and/or notification of management and error processing>

## Reconciliation Procedures and Audit Requirements

<Procedures and responsibilities for monitoring and reconciling errors and providing audit information>

## Process Flow

<Insert process flow >

## Partner Profile (if necessary)

| Partner | Direction | Message type | Message function |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Sample Files

## Batch Information

<Frequency, dependencies, recipients, etc>