DELPHI-GITLAB-PROJECT INTERSPEC\_SQL.UPDATE\_HU\_V2

Group of services and applications that upload InterSpec information to SAP for the Hungarian plant (MS-SQL compatible)

Type: Service: Update\_HU.exe  
Location: \limsclient\c$\Services\

Maintainer: Wilfred Geerlings

Info:  
ExpToSap.dpr: Project file  
tstUpdate.dpr: Project file  
Updat\_HU.dpr: Project file  
UpdatNow.dpr: Project file

Schematisch overzicht van UPDATE\_HU\_V2.UPDATNOW-procedure INTERSPEC\_SQL-SAP-Interface

UpdatNow.dpr

UpdatNow.dof

NewSpecs.pas

Application.Initialize;  
 Application.CreateForm(TForm1, Form1);  
 Application.Run;

Schematisch overzicht van UPDATE\_HU\_V2.UPDAT\_HU-procedure INTERSPEC\_SQL-SAP-Interface

Updat\_HU.dpr

Updata.pas

IntProp.pas

Application.Initialize;

Application.CreateForm(TsvUpdateHU, svUpdateHU);

Application.CreateForm(TdmInterspecSap, dmInterspecSap);

Application.CreateForm(TdmExport2Sap, dmExport2Sap);

Application.CreateForm(TdmMacroHandling, dmMacroHandling);

Application.Run;

IntProp.dfm  
**acInterspec: OraOLEDB: IS61 INTERSPC**-aqSpecData  
-aqSection  
-aqSubSection  
-aqPropertyGroup  
-aqProperty  
-aqSpecificationProp  
-aqCharacteristic **acEnsprod: MSDASQL enspro Rossi001  
acInterface: SQLOLEDB: ENSSQL05 General**aqIntSapArticle  
aqIntSapSequence  
AqIntSapProperty

upData.dfm  
Object **svUpdatePG**  
**acInterspec: OraOLEDB: IS61 INTERSPEC**-aqUpdSpecs -aqSpecData  
-aqCharacteristics -aqDelSpecs   
-aqSpecData1 -aqBomItem  
-aqBewText - -aqProperties  
-aqCharacteristic -aqSpecData2  
-aqBomHeader -aqReason   
-aqRemarks -aqAttachedSpec  
-aqCurrentRev -aqDependent  
-aqSepcdata1a -aqPart  
-aqQrStatus **-aqSpecificationWeight**-aqCopTests -aqPropertyGroup  
**acEnsprod: MSDASQL:IBMDA400 ensprod Rossi001**-aqPurCart- aqTmpCurcart  
-aqTmpArticle -aqUpdPurcart  
-aqUpdArticle -aqArtgrpp  
-aqUnitsp -ssUpdate   
-aqProdTyp -aqTmpProdart  
-aqUpdProdart -aqTmpPurasppp  
-aqUpdPursppp -aqUpdArtspecp  
-aqTmpArtspecp -aqTmpBewgrwg  
-aqUpdBewgrwg -aqBewkgrp   
-aqTmpStklswg -aqUpdStklswg  
-aqArticleaqTmpBewkoms  
-aqUpdBewkoms -aqDelBewkoms  
-aqDelStklswg -IdSMPT  
-IdMiessage -aqDelBewgrwg  
-aqDelPurasppp -aqDelProdart  
-aqDelArtspecp -aqDelArticle  
-aqDelPurcart -aqUseStklswg  
-aqRemArticle -aqTmpGersets  
-aqUpdGersets -aqDelGersets  
-aqTmpGertype -aqUpdGertype  
-aqTmpGwtolag -aqUpdGwtolag  
**acGeneral: SQLOLEDB: ENSSQL05 HuInterface**-aqSapArticle -aqIntSapSequence  
-aqIntSapArticle -aqIntSapBom  
-aqIntSapProcessing -aqIntSapTooling  
-aqIntSapInstructions -aqIntSapSequenceFind  
-aqClean -xaqProsalP  
-aqIntSapSequenceStat -aqUpdArqrst  
-aqIntSapSequenceUpd -aqUpdArtProp  
-aqDelArtProp -x\_aqArtDes  
-IdArtDesc -aqArtgew  
-aqIntSapTests -aqFindArtToDelete  
-aqUpdQrStatus

SELECT \* FROM AvSpecification\_Weight  
WHERE PART\_NO = :part ' ')

Geen Updat.INI-file aanwezig?

MacroHandling.pas

Exp2Sap.pas

**UPDATA.DFM**

**acInterspec**

aqUpdSpecs SELECT DISTINCT s.part\_no part, s.revision, s.sub\_section\_id, u.description Packaging, h.description

,i.status\_date\_time, h.Frame\_id, h.Status

FROM Specification\_header h,

Specification\_section s,

Status a,

Status a1,

Status\_history i,

Sub\_Section u

WHERE s.part\_no like :group AND s.section\_id=700755 AND a.status = i.status'

AND a.status\_type = '#39'CURRENT'#39’ AND i.part\_no = s.part\_no and i.revision = s.revision

**AND i.status\_date\_time > :date**

AND u.sub\_section\_id = s.sub\_section\_id

AND s.sub\_section\_id >= :subSectionId

AND h.part\_no = s.part\_no and h.revision = s.revision

AND a1.status = h.status and a1.status\_type = '#39'CURRENT'#39

AND h.Frame\_id like :frameId

ORDER BY s.part\_no

**aqSpecificationWeight SELECT \* FROM AvSpecification\_Weight WHERE PART\_NO = :part**

**acEnsprod**

aqPurCart select a.kmgkod, a.artkod kode, a.arddut Descr, a.arcgrp artGrp, a.arcuni Unit, a.arcpac Packing,

a.arpqty, a.arwgro,p.puiprd,a.arstat

from $lib1.article a, $lib1.purcart p

where p.puccgr=a.kmgkod and p.pucart=a.artkod and a.kmgkod=:kmgkod and a.artkod like :artkod

order by a.artkod

**acInterface [ENSSQL05]:**

aqSapArticle SELECT \* FROM SapArticleCodes WHERE OldArticleCode=:art

aqIntSapSequence SELECT \* FROM IntSapSequence WHERE SequenceNr=0

aqIntSapArticle SELECT \* FROM IntSapArticle WHERE SequenceNr=:seq

…

…

**INTPROP.DFM**

**acInterspec**

aqSpecData SELECT s.\* FROM Specification\_prop s

WHERE s.part\_no = :part AND s.revision = :revision

AND s.section\_id=:section AND s.sub\_section\_id = :sub AND s.property\_group=:grp AND s.property=:prop )

aqSection SELECT section\_id FROM section WHERE description = :Description

aqSubSection SELECT sub\_section\_id FROM sub\_section WHERE description = :Description

aqPropertyGroup SELECT property\_group FROM property\_group WHERE description = :Description

aqProperty SELECT property FROM property WHERE description = :Description

aqSpecificationProp SELECT \* FROM specification\_prop WHERE part\_no = :part\_no AND revision = :revision

aqCharacteristic SELECT Description FROM Characteristic WHERE Characteristic\_ID = :id

**acInterface**

aqIntSapArticle SELECT \* FROM IntSapArticle WHERE Sequencenr = :nr

aqIntSapSequence SELECT \* FROM IntSapSequence WHERE (Status=0 OR status = 90)

AND TableType='#39'A'#39' AND InterspecArticle LIKE :art AND InterspecFrame = :frame

AqIntSapProperty SELECT \* FROM IntSapProperty WHERE SequenceNr=:seq

**UPDATE\_HU\_V2.UPDATA.PAS**

const

// Property ID's

IdArticleGroupPG = 705428;

IdPackagingPG = 705429;

IdWeightPG = 703262;

IdInProductPG = 709030;

IdMinimumAging = 710529;

IdMaximumAging = 710530;

IdArticleKind = 710531;

IdVolgNummer = 710528;

IdRecipeNo = 705238;

IdRecipeNoNitro = 707709;

IdRecipeNoSteam = 707708;

IdBomAltrnative = 705384;

BomAltIds : array[1..10] of integer = (705384, 714209, 714210, 714522, 714523,

714524, 714525, 714526, 714561, 714562);

IdPrpDie = 705785;

IdPrpPreformer = 705786;

TypicalWeight = 705784;

SpecificationRef = 703610;

IdTotalBatchWeight = 703320;

IdCommArtCode = 713824;

IdCommDaArtCode = 713825;

IdPackaging = 703701;

IdGyongyoshalasz = 712832; // Plant for packaging RM

// PropertyGroup ID's

IdPgTooling = 701570; // Property group Tooling;

IdCuringNitrogen = 701836; // Property group

IdCuringSteam = 701574; // Property group

IdCuringTimeTotal = 705176; // property

procedure TsvUpdateHU.initialize(reason : string);

begin

LogFile := tLogFile.create('$date');

dmMacroHandling.Logfile := LogFile;

logFile.write('Starting update: ' + reason);

ChPackings.clear;

ChFunctionCodes.clear;

ChArtGroups.clear;

ChBomAlternatives.clear;

ChPlants.clear;

ChBewAlternatives.clear;

ChUsages.clear;

chArticleKinds.clear;

//?? BewGroups.clear;

//?? Gertypes.Clear;

ToolTypeTypes.Clear;

readCharacteristics(900211, ChArticleKinds, 1); // Article group RM

readCharacteristics(900129, ChArtgroups, 2); // Article group RM

readCharacteristics(900130, ChArtgroups, 2); // Article group Compounds

readCharacteristics(900131, ChArtgroups, 2); // Article group aux materials

readCharacteristics(900132, ChArtgroups, 2); // Article group composites

readCharacteristics(900133, ChArtgroups, 2); // Article group greentyre

readCharacteristics(900134, ChArtgroups, 2); // Article group tested tyres

readCharacteristics(900135, ChArtgroups, 2); // Article group tyres non PCT

readCharacteristics(900136, ChArtgroups, 2); // Article group tyres PCT

readCharacteristics(900216, ChArtgroups, 2); // Article group BBQ

readCharacteristics(900245, ChArtgroups, 2); // Article group Future

readCharacteristics(900333, ChArtgroups, 2); // Article group TBR

readCharacteristics(900137, ChPackings, 5); //

readCharacteristics(900288, ChFunctionCodes, 20); // Function codes

readCharacteristics(900138, ChBomAlternatives, 2); // bom alternatives

readCharacteristics(900139, ChUsages, 255); // bom Usage

readCharacteristics(900140, ChPlants, 3); // bom Plant

readCharacteristics(900215, ChBewAlternatives, 3); // Bew Alternatives

readCharacteristics(900230, ChBewGroups, 6); // Bew Alternatives

readCharacteristics(900221, ChGertypes, 12); // S2330

readCharacteristics(900222, ChGertypes, 12); // S2332

readCharacteristics(900223, ChGertypes, 12); // S2331

readCharacteristics(900224, ChGertypes, 12); // S2334

readCharacteristics(900226, ChGertypes, 12); // S2338

readCharacteristics(900227, ChGertypes, 12); // S2339

readCharacteristics(900228, ChGertypes, 12); // S2337

readPropertyGroup(IdPGTooling, ToolTypeTypes);

// readPropertyGroup(704520, ToolTypeTypes); //!!

// bewLines := tStringlist.create;

messages := tMsgList.create;

newBewGroups := tStringlist.create;

newGrondstoffen := tStringlist.create;

SpecsToUpdate := tUpdatedSpecs.Create;

OpenTemplateFiles;

end;

Schematisch overzicht van UPDATE\_HU\_V2.**Exp2Sap**-procedure INTERSPEC\_SQL-SAP-Interface

Exp2Sap.pas

Exp2Sap.dfm  
Object: dmExport2Sap  
SQLOLEDB: **ENSSQL05** HuInterface (pw=Flut4DaK)  
acGeneral   
-aqIntSapArticle  
- aqIntSapBom  
- aqIntSapProcessing  
- aqIntSapTooling  
- aqIntSapInstructions  
- aqUpdSequenceData  
- aqAllUnsend  
-aqIntSapDocument  
-aqLabels2Send  
-aqVoiceArticle  
- aqSelected  
- aqIntSapProperty  
- aqIntSapLabels  
**~~acEnsprod MSDASQL ensprod Rossi001~~**~~-aqIntSapCopTests  
-aqIntSapProperty~~

LETOP: Geen dpr-file en/of proj-file?  
Wordt gebruikt vanuit:   
-Exprt2Sap.dpr   
-ExpToSap.dpr

**acGeneral**

**aqIntSapArticle SELECT \* FROM IntSapArticle WHERE Sequencenr = :nr**

aqIntSapBom SELECT \* FROM IntSapBom WHERE Sequencenr = :nr

aqIntSapProcessing SELECT \* FROM IntSapProcessing WHERE Sequencenr = :nr

aqIntSapTooling SELECT \* 'FROM IntSapTooling WHERE Sequencenr = :nr

aqIntSapInstructions SELECT \* FROM IntSapInstructions WHERE Sequencenr = :nr

aqUpdSequenceData SELECT \* FROM IntSapSequence WHERE SequenceNr = :seq'

aqAllUnsend SELECT SequenceNr FROM IntSapSequence

WHERE Status < 9 and InterspecFrame <> '#39'E\_Budget\_tyres'#39

Order by TableType, SequenceNr

aqIntSapDocument SELECT \* FROM IntSapDocument WHERE Sequencenr = :nr'

aqLabels2Send SELECT SequenceNr, Status FROM IntSapSequence

WHERE (Tabletype='#39'A'#39' AND Status = 9 AND InterspecFrame = '#39'A\_PCR'#39’)

OR (Tabletype='#39'A'#39' AND Status = 9 AND InterspecFrame = '#39'E\_PCR'#39')'

ORDER BY SequenceNr

aqSelected SELECT SequenceNr FROM IntSapSequence WHERE Status < 9

and InterspecFrame <> '#39'E\_Budget\_tyres'#39 AND tabletype LIKE :tab AND interspecarticle LIKE :art

AND tableType <> '#39'x'#39 ORDER BY TableType, SequenceNr

aqIntSapProperty SELECT \* FROM IntSapProperty WHERE Sequencenr = :nr

aqIntSapLabels SELECT \* FROM IntSapLabels WHERE Sequencenr = :nr

**~~acEnsprod~~**

~~aqVoiceArticle SELECT arcean FROM xppoo01da1.article WHERE kmgKod = :kmgkod AND artkod = :artkod'~~

~~aqIntSapCopTests SELECT \* FROM IntSapCopTests WHERE Sequencenr = :nr~~

~~aqIntSapProperty SELECT \* FROM IntSapProperty WHERE Sequencenr = :nr~~

**Exp2Sap.pas**

procedure XML2Sap(seq : integer; url : string; xml, resp : tXmlParser);

procedure Send2Sap(seq : integer; url : string; xml : tXmlParser);

{ Public declarations }

procedure ExportArticle(seq : integer; seqStr : string);

procedure ExportDocument(seq : integer; seqStr : string);

procedure ExportBOM(seq : integer; seqStr : string);

procedure ExportProcessing(seq : integer; seqStr : string);

procedure ExportTooling(seq : integer; seqStr : string);

procedure ExportInstructions(seq : integer; seqStr : string);

procedure ExportProperties(seq : integer; seqStr : string);

procedure ExportLabel(seq : integer; seqStr : string);

procedure ExportNr(seq : integer; seqStr : string);

function CreateLabelRequest(ean : string) : tXmlParser;

procedure GetLabelValues(xml : tXmlParser; var error, grip, roll, noise, nClass, vClass : string);

procedure TdmExport2Sap.**ExportArticle**(seq : integer; seqStr : string);

var

xml : tXmlParser;

nb, n0, n1 : tXmlNode;

i : integer;

begin

aqIntSapArticle.Active := False;

aqIntSapArticle.Params[0].asInteger := seq;

aqIntSapArticle.Active := True;

if not aqIntSapArticle.Eof

then begin

xml := tXmlParser.create;

xml.declaration.attribute['encoding'] := 'utf-8';

xml.name := 'soap:Envelope';

xml.attribute['xmlns:xsl'] := 'http://www.w3.org/2001/XMLSchema-instance';

xml.attribute['xmlns:xsd'] := 'http://www.w3.org/2001/XMLSchema';

xml.attribute['xmlns:soap'] := 'http://schemas.xmlsoap.org/soap/envelope/';

nb := tJanXmlNode2.create('soap:Body');

xml.addNode(nb);

n0 := tXmlNode.create('**UpdateOrCreateArticle**');

n0.attribute['xmlns'] := 'http://apollovredestein.com/interspec\_sap';

nb.addNode(n0);

for i := 0 to aqIntSapArticle.FieldCount -1

do begin

if not aqIntSapArticle.Fields[i].IsNull

then begin

**-- aqIntSapArticle: SELECT \* FROM IntSapArticle WHERE Sequencenr = :nr**

n1 := tXmlNode.create(ToTag(aqIntSapArticle.Fields[i]));

n1.Text := ToXml(aqIntSapArticle.Fields[i]);

n0.AddNode(n1);

end;

end;

if seqStr <> '' then

begin

xml.SaveXML('C:\Bin\Curl\Hungary\Article' + seqStr + '.xml');

end

else Send2Sap(seq, UrlArticle, xml);

xml.free;

end;

aqIntSapArticle.Active := False;

end;

**--IntSapArticle komt via [ Exp2Sap.dfm ] in ENSSQL05 !!!**

procedure TdmExport2Sap.**ExportLabel**(seq : integer; seqStr : string);

var

xml : tXmlParser;

nb, n0, n1 : tXmlNode;

i : integer;

begin

aqIntSapArticle.Active := False;

aqIntSapArticle.Params[0].asInteger := seq;

aqIntSapArticle.Active := True;

if not aqIntSapArticle.Eof

then begin

xml := tXmlParser.create;

xml.declaration.attribute['encoding'] := 'utf-8';

xml.name := 'soap:Envelope';

xml.attribute['xmlns:xsl'] := 'http://www.w3.org/2001/XMLSchema-instance';

xml.attribute['xmlns:xsd'] := 'http://www.w3.org/2001/XMLSchema';

xml.attribute['xmlns:soap'] := 'http://schemas.xmlsoap.org/soap/envelope/';

nb := tJanXmlNode2.create('soap:Body');

xml.addNode(nb);

n0 := tXmlNode.create('**UpdateOrCreateArticle**');

n0.attribute['xmlns'] := 'http://apollovredestein.com/interspec\_sap';

nb.addNode(n0);

for i := 0 to aqIntSapArticle.FieldCount -1

do begin

if not aqIntSapArticle.Fields[i].IsNull

then begin

n1 := tXmlNode.create(ToTag(aqIntSapArticle.Fields[i]));

n1.Text := ToXml(aqIntSapArticle.Fields[i]);

n0.AddNode(n1);

end;

end;

if seqStr <> ''

then xml.SaveXML('C:\Bin\Curl\IntSap\Label\_' + intToStr(seq) + seqStr + '.xml')

else Send2Sap(seq, UrlSendLabel, xml);

xml.free;

end;

aqIntSapArticle.Active := False;

end;

procedure TdmExport2Sap.**ExportDocument**(seq : integer; seqStr : string);

var

xml : tXmlParser;

nb, n0, n1 : tXmlNode;

i : integer;

begin

aqIntSapDocument.Active := False;

aqIntSapDocument.Params[0].asInteger := seq;

aqIntSapDocument.Active := True;

if not aqIntSapDocument.Eof

then begin

xml := tXmlParser.create;

xml.declaration.attribute['encoding'] := 'utf-8';

xml.name := 'soap:Envelope';

xml.attribute['xmlns:xsl'] := 'http://www.w3.org/2001/XMLSchema-instance';

xml.attribute['xmlns:xsd'] := 'http://www.w3.org/2001/XMLSchema';

xml.attribute['xmlns:soap'] := 'http://schemas.xmlsoap.org/soap/envelope/';

nb := tJanXmlNode2.create('soap:Body');

xml.addNode(nb);

n0 := tXmlNode.create('**UpdateOrCreateDocument**');

n0.attribute['xmlns'] := 'http://apollovredestein.com/interspec\_sap';

nb.addNode(n0);

for i := 0 to aqIntSapDocument.FieldCount -1

do begin

if not aqIntSapDocument.Fields[i].IsNull

then begin

n1 := tXmlNode.create(ToTag(aqIntSapDocument.Fields[i]));

n1.Text := ToXml(aqIntSapDocument.Fields[i]);

n0.AddNode(n1);

end;

end;

if seqStr <> ''

then xml.SaveXML('C:\Bin\Curl\Hungary\Document' + seqStr + '.xml')

else Send2Sap(seq, UrlDocument, xml);

xml.free;

end;

aqIntSapDocument.Active := False;

end;

procedure TdmExport2Sap.**ExportBOM**(seq : integer; seqStr : string);

var

xml : tXmlParser;

nb, n0, n1, n2, n3, n4, n5 : tXmlNode;

i, lastVersion : integer;

begin

aqIntSapBom.Active := False;

aqIntSapBom.Params[0].asInteger := seq;

aqIntSapBom.Active := True;

xml := nil;

if not aqIntSapBom.Eof

then begin

if xml = nil

then begin

xml := tXmlParser.create;

xml.declaration.attribute['encoding'] := 'utf-8';

xml.name := 'soap:Envelope';

xml.attribute['xmlns:xsl'] := 'http://www.w3.org/2001/XMLSchema-instance';

xml.attribute['xmlns:xsd'] := 'http://www.w3.org/2001/XMLSchema';

xml.attribute['xmlns:soap'] := 'http://schemas.xmlsoap.org/soap/envelope/';

nb := tJanXmlNode2.create('soap:Body');

xml.addNode(nb);

n0 := tXmlNode.create('**UpdateOrCreateBom**');

n0.attribute['xmlns'] := 'http://apollovredestein.com/interspec\_sap';

nb.addNode(n0);

end;

for i := 0 to 4

do begin

n1 := tXmlNode.create(ToTag(aqIntSapBom.Fields[i]));

n1.text := ToXml(aqIntSapBom.Fields[i]);

n0.addNode(n1);

end;

lastVersion := -1;

n1 := tXmlNode.create('BomVersions');

n0.Addnode(n1);

while not aqIntSapBom.eof

do begin

if aqIntSapBom.Fields[5].asInteger <> LastVersion

then begin

n2 := tXmlNode.create('BomVersion');

n1.addNode(n2);

for i := 5 to 8

do begin

n3 := tXmlNode.create(ToTag(aqIntSapBom.Fields[i]));

n3.text := ToXml(aqIntSapBom.Fields[i]);

n2.addNode(n3);

lastVersion := aqIntSapBom.Fields[5].asInteger;

end;

n3 := tXmlNode.create('BomItems');

n2.Addnode(n3);

end;

n4 := tXmlNode.create('BomItem');

n3.addNode(n4);

for i := 9 to 20

do begin

n5 := tXmlNode.create(ToTag(aqIntSapBom.Fields[i]));

n5.text := ToXml(aqIntSapBom.Fields[i]);

n4.addNode(n5);

end;

aqIntSapBom.Next;

end;

if seqStr <> ''

then xml.SaveXML('C:\Bin\Curl\Hungary\Bom' + seqStr + '.xml')

else Send2Sap(seq, UrlBOM, xml);

end;

if xml <> nil then xml.free;

end;

procedure TdmExport2Sap.**ExportProcessing**(seq : integer; seqStr : string);

var

xml : tXmlParser;

nb, n0, n1, n2, n3 : tXmlNode;

i : integer;

begin

aqIntSapProcessing.Active := False;

aqIntSapProcessing.Params[0].asInteger := seq;

aqIntSapProcessing.Active := True;

xml := nil;

if not aqIntSapProcessing.Eof

then begin

if xml = nil

then begin

xml := tXmlParser.create;

xml.declaration.attribute['encoding'] := 'utf-8';

xml.name := 'soap:Envelope';

xml.attribute['xmlns:xsl'] := 'http://www.w3.org/2001/XMLSchema-instance';

xml.attribute['xmlns:xsd'] := 'http://www.w3.org/2001/XMLSchema';

xml.attribute['xmlns:soap'] := 'http://schemas.xmlsoap.org/soap/envelope/';

nb := tJanXmlNode2.create('soap:Body');

xml.addNode(nb);

n0 := tXmlNode.create('UpdateOrCreateProcessingGroups');

n0.attribute['xmlns'] := 'http://apollovredestein.com/interspec\_sap';

nb.addNode(n0);

end;

for i := 0 to 3

do begin

n1 := tXmlNode.create(ToTag(aqIntSapProcessing.Fields[i]));

n1.text := ToXml(aqIntSapProcessing.Fields[i]);

n0.addNode(n1);

end;

n1 := tXmlNode.create('**ProcessingGroups**');

n0.Addnode(n1);

while not aqIntSapProcessing.eof

do begin

n2 := tXmlNode.create('ProcessingGroup');

n1.addNode(n2);

for i := 4 to 13

do if not aqIntSapProcessing.Fields[i].IsNull

then begin

n3 := tXmlNode.create(ToTag(aqIntSapProcessing.Fields[i]));

n3.text := ToXml(aqIntSapProcessing.Fields[i]);

n2.addNode(n3);

end;

aqIntSapProcessing.Next;

end;

if seqStr <> ''

then xml.SaveXML('C:\Bin\Curl\Hungary\Processing' + seqStr + '.xml')

else Send2Sap(seq, UrlProcessing, xml);

end;

if xml <> nil then xml.free;

end;

procedure TdmExport2Sap.**ExportTooling**(seq : integer; seqStr : string);

var

xml : tXmlParser;

nb, n0, n1, n2, n3, n4, n5 : tXmlNode;

i : integer;

lastBew : string;

begin

aqIntSapTooling.Active := False;

aqIntSapTooling.Params[0].asInteger := seq;

aqIntSapTooling.Active := True;

xml := nil;

if not aqIntSapTooling.Eof

then begin

if xml = nil

then begin

xml := tXmlParser.create;

xml.declaration.attribute['encoding'] := 'utf-8';

xml.name := 'soap:Envelope';

xml.attribute['xmlns:xsl'] := 'http://www.w3.org/2001/XMLSchema-instance';

xml.attribute['xmlns:xsd'] := 'http://www.w3.org/2001/XMLSchema';

xml.attribute['xmlns:soap'] := 'http://schemas.xmlsoap.org/soap/envelope/';

nb := tJanXmlNode2.create('soap:Body');

xml.addNode(nb);

n0 := tXmlNode.create('**UpdateOrCreateTooling**');

n0.attribute['xmlns'] := 'http://apollovredestein.com/interspec\_sap';

nb.addNode(n0);

end;

for i := 0 to 2

do begin

n1 := tXmlNode.create(ToTag(aqIntSapTooling.Fields[i]));

n1.text := ToXml(aqIntSapTooling.Fields[i]);

n0.addNode(n1);

end;

lastBew := '';

n1 := tXmlNode.create('ProcessingGroups');

n0.Addnode(n1);

while not aqIntSapTooling.eof

do begin

if aqIntSapTooling.Fields[3].asString <> LastBew

then begin

n2 := tXmlNode.create('ProcessingGroup');

n1.addNode(n2);

for i := 3 to 3

do begin

n3 := tXmlNode.create(ToTag(aqIntSapTooling.Fields[i]));

n3.text := ToXml(aqIntSapTooling.Fields[i]);

n2.addNode(n3);

lastBew := aqIntSapTooling.Fields[3].asString;

end;

n3 := tXmlNode.create('Tooling');

n2.Addnode(n3);

end;

n4 := tXmlNode.create('Tool');

n3.addNode(n4);

for i := 4 to aqIntSapTooling.FieldCount - 1

do if not aqIntSapTooling.Fields[i].IsNull

then begin

n5 := tXmlNode.create(ToTag(aqIntSapTooling.Fields[i]));

n5.text := ToXml(aqIntSapTooling.Fields[i]);

n4.addNode(n5);

end;

aqIntSapTooling.Next;

end;

if seqStr <> ''

then xml.SaveXML('C:\Bin\Curl\Hungary\Tooling' + seqStr + '.xml')

else Send2Sap(seq, UrlTooling, xml);

end;

if xml <> nil then xml.free;

end;

procedure TdmExport2Sap.**ExportInstructions**(seq : integer; seqStr : string);

var

xml : tXmlParser;

nb, n0, n1, n2, n3, n4, n5 : tXmlNode;

i : integer;

lastBew : string;

begin

aqIntSapInstructions.Active := False;

aqIntSapInstructions.Params[0].asInteger := seq;

aqIntSapInstructions.Active := True;

xml := nil;

if not aqIntSapInstructions.Eof

then begin

if xml = nil

then begin

xml := tXmlParser.create;

xml.declaration.attribute['encoding'] := 'utf-8';

xml.name := 'soap:Envelope';

xml.attribute['xmlns:xsl'] := 'http://www.w3.org/2001/XMLSchema-instance';

xml.attribute['xmlns:xsd'] := 'http://www.w3.org/2001/XMLSchema';

xml.attribute['xmlns:soap'] := 'http://schemas.xmlsoap.org/soap/envelope/';

nb := tJanXmlNode2.create('soap:Body');

xml.addNode(nb);

n0 := tXmlNode.create('**UpdateOrCreateInstructions**');

n0.attribute['xmlns'] := 'http://apollovredestein.com/interspec\_sap';

nb.addNode(n0);

end;

for i := 0 to 2

do begin

n1 := tXmlNode.create(ToTag(aqIntSapInstructions.Fields[i]));

n1.text := ToXml(aqIntSapInstructions.Fields[i]);

n0.addNode(n1);

end;

lastBew := '';

n1 := tXmlNode.create('ProcessingGroups');

n0.Addnode(n1);

while not aqIntSapInstructions.eof

do begin

if aqIntSapInstructions.Fields[3].asString <> LastBew

then begin

n2 := tXmlNode.create('ProcessingGroup');

n1.addNode(n2);

for i := 3 to 3

do begin

n3 := tXmlNode.create(ToTag(aqIntSapInstructions.Fields[i]));

n3.text := ToXml(aqIntSapInstructions.Fields[i]);

n2.addNode(n3);

lastBew := aqIntSapInstructions.Fields[3].asString;

end;

n3 := tXmlNode.create('Lines');

n2.Addnode(n3);

end;

n4 := tXmlNode.create('Line');

n3.addNode(n4);

for i := 4 to 6

do begin

n5 := tXmlNode.create(ToTag(aqIntSapInstructions.Fields[i]));

n5.text := ToXml(aqIntSapInstructions.Fields[i]);

n4.addNode(n5);

end;

aqIntSapInstructions.Next;

end;

if seqStr <> ''

then xml.SaveXML('C:\Bin\Curl\Hungary\Instructions' + seqStr + '.xml')

else Send2Sap(seq, UrlInstructions, xml);

end;

if xml <> nil then xml.Free;

end;

procedure TdmExport2Sap.**ExportProperties**(seq : integer; seqStr : string);

var

xml : tXmlParser;

nb, n0, n1, n2, n3 : tXmlNode;

i : integer;

lastBew : string;

begin

aqIntSapProperty.Active := False;

aqIntSapProperty.Params[0].asInteger := seq;

aqIntSapProperty.Active := True;

xml := nil;

if not aqIntSapProperty.Eof

then begin

if xml = nil

then begin

xml := tXmlParser.create;

xml.declaration.attribute['encoding'] := 'utf-8';

xml.name := 'soap:Envelope';

xml.attribute['xmlns:xsl'] := 'http://www.w3.org/2001/XMLSchema-instance';

xml.attribute['xmlns:xsd'] := 'http://www.w3.org/2001/XMLSchema';

xml.attribute['xmlns:soap'] := 'http://schemas.xmlsoap.org/soap/envelope/';

nb := tJanXmlNode2.create('soap:Body');

xml.addNode(nb);

n0 := tXmlNode.create('**UpdateOrCreateProperties**');

n0.attribute['xmlns'] := 'http://apollovredestein.com/interspec\_sap';

nb.addNode(n0);

end;

for i := 0 to 2

do begin

n1 := tXmlNode.create(ToTag(aqIntSapProperty.Fields[i]));

n1.text := ToXml(aqIntSapProperty.Fields[i]);

n0.addNode(n1);

end;

lastBew := '';

n1 := tXmlNode.create('Properties');

n0.Addnode(n1);

while not aqIntSapProperty.eof

do begin

n2 := tXmlNode.create('Property');

n1.addNode(n2);

for i := 3 to 6

do begin

n3 := tXmlNode.create(ToTag(aqIntSapProperty.Fields[i]));

n3.text := ToXml(aqIntSapProperty.Fields[i]);

n2.addNode(n3);

end;

aqIntSapProperty.Next;

end;

end;

if seqStr <> ''

then xml.SaveXML('C:\Bin\Curl\Hungary\Properties' + seqStr + '.xml')

else Send2Sap(seq, UrlProperties, xml);

if xml <> nil then xml.Free;

end;

procedure TdmExport2Sap.**ExportNr**(seq : integer; SeqStr : string);

var table, nr : string;

begin

str(seq:4, nr);

if pos('$', SeqStr) > 0

then SeqStr := stringReplace(SeqStr, '$', nr, []);

aqUpdSequenceData.active := false;

aqUpdSequenceData.Params[0].asInteger := seq;

aqUpdSequenceData.Active := True;

if aqUpdSequenceData.Eof

then ShowMessage('Sequence number not found')

else begin

table := aqUpdSequenceData.Fields[1].asString + ' ';

case table[1] of

'A': ExportArticle(seq, seqStr);

'D': ExportDocument(seq, seqStr);

'I': ExportInstructions(seq, seqStr);

'B': ExportBom(seq, seqStr);

'T': ExportTooling(seq, seqStr);

'P': ExportProcessing(seq, seqStr);

'Y': ExportProperties(seq, seqStr);

end;

end;

end;

function TdmExport2Sap.**CreateLabelRequest**(ean : string) : tXmlParser;

var

nb : tXmlNode;

n0, n1, n2, n3, n4 : tXmlNode;

begin

result := tXmlParser.Create;

result.Declaration.Attribute['encoding'] := 'utf-8';

result.Name := 'soap:Envelope';

result.Attribute['xmlns:xsl'] := 'http://www.w3.org/2001/XMLSchema-instance';

result.Attribute['xmlns:xsd'] := 'http://www.w3.org/2001/XMLSchema';

result.Attribute['xmlns:soap'] := 'http://schemas.xmlsoap.org/soap/envelope/';

nb := tJanXmlNode2.Create('soap:Body');

result.addNode(nb);

n0 := tXmlNode.Create('LabelRequest');

n0.Attribute['xmlns'] := 'http://www.vredestein.com/b2b';

nb.AddNode(n0);

n0.AddNode(tXmlNode.Create('PartnerId'));

n0.AddNode(tXmlNode.Create('Timestamp'));

n0.AddNode(tXmlNode.Create('AccessKey'));

n1 := tXmlNode.Create('Requests');

n0.AddNode(n1);

n2 := tXmlNode.Create('LabelRequests');

n1.AddNode(n2);

n2.AddNode(tXmlNode.Create('RequestFrom', '1'));

n2.AddNode(tXmlNode.Create('UserRequest'));

n3 := tXmlNode.Create('Articles');

n2.AddNode(n3);

n4 := tXmlNode.Create('Article');

n3.AddNode(n4);

n4.AddNode(tXmlNode.Create('UPCEANcode', ean));

n4.AddNode(tXmlNode.Create('DotNumber'));

n4.AddNode(tXmlNode.Create('ProductionWeek'));

end;

Schematisch overzicht van UPDATE\_HU\_V2.ExpToSap-procedure INTERSPEC\_SQL-SAP-Interface

ExpToSap.dpr

Application.Initialize;  
 Application.CreateForm(TForm1, Form1);  
 Application.CreateForm(TdmExport2Sap, dmExport2Sap);  
 **dmExport2Sap.init;**  
 Application.Run;  
 dmExport2Sap.Finish;

Geen eigen PAS/DFM-file aanwezig?

Tst2Sap.pas (dm)

Exp2Sap.pas (form)

Uses Tst2Sap.pas + Exp2Sap.pas-file?

ExpToSap.INI

UrlArticle=http://corpspis02.apollotyres.com:50000/XISOAPAdapter/MessageServlet?senderParty=&senderService=BS\_WSAPPS\_P&receiverParty=&receiverService=&interface=SI\_MasterDataArticle\_Out&interfaceNamespace=http://apollotyres.com.com/IF089/HU/Interspec/MasterData/I\_WS\_APPS

UrlProcessing=http://corpspis02.apollotyres.com:50000/XISOAPAdapter/MessageServlet?senderParty=&senderService=BS\_WSAPPS\_P&receiverParty=&receiverService=&interface=SI\_MasterDataArticleProcessing\_Out&interfaceNamespace=http://apollotyres.com.com/IF089/HU/Interspec/MasterData/I\_WS\_APPS

UrlBOM=http://corpspis02.apollotyres.com:50000/XISOAPAdapter/MessageServlet?senderParty=&senderService=BS\_WSAPPS\_P&receiverParty=&receiverService=&interface=SI\_MasterDataArticleBOM\_Out&interfaceNamespace=http://apollotyres.com.com/IF089/HU/Interspec/MasterData/I\_WS\_APPS

UrlInstructions=http://corpspis02.apollotyres.com:50000/XISOAPAdapter/MessageServlet?senderParty=&senderService=BS\_WSAPPS\_P&receiverParty=&receiverService=&interface=SI\_MasterDataARTIKLE\_INS\_Out&interfaceNamespace=http://apollotyres.com.com/IF089/HU/Interspec/MasterData/I\_WS\_APPS

UrlTooling=http://corpspis02.apollotyres.com:50000/XISOAPAdapter/MessageServlet?senderParty=&senderService=BS\_WSAPPS\_P&receiverParty=&receiverService=&interface=SI\_MasterDataToolSet\_Out&interfaceNamespace=http://apollotyres.com.com/IF089/HU/Interspec/MasterData/I\_WS\_APPS

UrlGetLabel=http://corpspis02.apollotyres.com:50000/XISOAPAdapter/MessageServlet?senderParty=&senderService=BS\_WSAPPS\_P&receiverParty=&receiverService=&interface=SI\_LabelRequest\_Out&interfaceNamespace=http://apollotyres.com.com/IF045/EC/Label/I\_WS\_APPS

UrlSendLabel=http://corpspis02.apollotyres.com:50000/XISOAPAdapter/MessageServlet?senderParty=&senderService=BS\_WSAPPS\_P&receiverParty=&receiverService=&interface=SI\_MasterDataUpdateOrCreateArticle\_Out&interfaceNamespace=http://apollotyres.com.com/IF015/Interspec/MasterData/I\_WS\_APPS

UrlCopTests=http://corpspis02.apollotyres.com:50000/XISOAPAdapter/MessageServlet?senderParty=&senderService=BS\_WSAPPS\_P&receiverParty=&receiverService=&interface=SI\_MasterData\_ARTTESTS\_Out&interfaceNamespace=http://apollotyres.com.com/IF089/HU/Interspec/MasterData/I\_WS\_APPS

UrlProperties=http://corpspis02.apollotyres.com:50000/XISOAPAdapter/MessageServlet?senderParty=&senderService=BS\_WSAPPS\_P&receiverParty=&receiverService=&interface=SI\_MasterDataUpdateorCreateProperties\_Out&interfaceNamespace=http://apollotyres.com.com/IF089/HU/Interspec/MasterData/I\_WS\_APPS

Schematisch overzicht van UPDATE\_HU\_V2.MacroHandling -procedure INTERSPEC\_SQL-SAP-Interface

MacroHandling.dfm  
svUpdateHU.acInterspec  
- aqProperties  
- aqRemarks  
- aqAttachedSpec  
- aqCharacteristic  
- aqCurrentRev

MacroHandling.pas

Geen DPR-file?

UPDATE\_HU

- aqProperties SELECT s.Characteristic, s.ch\_2, s.ch\_3, s.num\_1, s.num\_2, s.num\_3, s.num\_4,

s.num\_5, s.num\_6, s.num\_7, s.num\_8, s.num\_9, s.num\_10,

s.char\_1, s.char\_2, s.char\_3, s.char\_4, s.char\_5, s.char\_6,

s.boolean\_1, s.boolean\_2, s.boolean\_3, s.boolean\_4, s.date\_1, s.date\_2'

FROM Specification\_prop s, section c, sub\_Section u, property p, property\_group g

WHERE s.part\_no = :part AND s.revision = :revision AND s.section\_id=c.section\_id

AND s.sub\_section\_id=u.sub\_section\_id AND s.property=p.property

AND s.property\_group = g.property\_group AND c.description=:section

AND u.description=:subsection AND p.description=:property

AND g.description like :property\_group

- aqRemarks SELECT s.text FROM Specification\_text s, section c, sub\_Section u, text\_type p

WHERE s.part\_no = :part AND s.revision = :revision AND s.section\_id=c.section\_id

AND s.sub\_section\_id=u.sub\_section\_id AND s.text\_type=p.text\_type

AND c.description=:section AND u.description=:subsection AND p.description=:property)

- aqAttachedSpec SELECT Attached\_part\_no, Attached\_revision FROM Attached\_Specification a

WHERE a.part\_no=:part AND a.revision = :rev

AND a.Section\_id=**701058** AND a.Sub\_section\_id=**700542**

- aqCharacteristic SELECT Description FROM Characteristic c' WHERE c.characteristic\_id = :characteristic'

- aqCurrentRev SELECT Revision FROM Specification\_header h, Status s

WHERE h.Part\_no=:part AND s.Status = h.Status

AND (s.Status\_Type = '#**39'CURRENT'**#39' OR s.status\_Type = '#**39'DEVELOPMENT'**#39')

ORDER BY s.Status\_Type ASC

Schematisch overzicht van UPDATE\_HU\_V2.NewSpecs -procedure INTERSPEC\_SQL-SAP-Interface

NewSpecs.dfm  
acInterspec Oracleprod IS61  
- aqUpdSpecs  
- aqDeleteRetry

NewSpecs.pas

Geen DPR-file?

AqUpdSpecs SELECT DISTINCT s.part\_no part, s.revision,'

s.sub\_section\_id, u.description Packaging, h.description, i.status\_date\_time'

FROM Specification\_header h, Specification\_section s, Status a, Status a1, Status\_history i,

Sub\_Section u

WHERE s.part\_no LIKE :group1 AND s.section\_id=700755

AND a.status = i.status AND a.status\_type = '#39'CURRENT'#39

AND i.part\_no = s.part\_no and i.revision = s.revision

AND i.status\_date\_time > :date'

AND u.sub\_section\_id = s.sub\_section\_id

AND s.sub\_section\_id >= :subSectionId

AND h.part\_no = s.part\_no and h.revision = s.revision

AND a1.status = h.status and a1.status\_type = '#39'CURRENT'#39

UNION

SELECT r.Part\_no part, r.Revision, 0 sub\_section\_id, '#39#39', Description, DateTime'

FROM **AVRETRYARTICLES r**

WHERE r.Part\_no like :group2 AND DateTime >= :dt

ORDER BY part'

AqDeleteRetry DELETE FROM AVRETRYARTICLES r

WHERE NOT EXISTS (SELECT PART\_NO

FROM SPECIFICATION\_HEADER h, STATUS s

WHERE h.PART\_NO = r.PART\_NO AND H.REVISION = r.REVISION

AND s.STATUS = h.STATUS AND s.STATUS\_TYPE = '#39'CURRENT'#39

CBGRP

Items.Strings = (

''

'GA\_ Bales'

'GB\_ Beads'

'GC\_ Cord material'

'GD\_ Chemical bags'

'GE\_ Extrudates'

'GF\_ Final products'

'GG\_ Greentires'

'GI\_ Inserts'

'GL\_ Innerliners'

'GM\_ Compounds'

'GR\_ Plies and belts'

'GS\_ Sidewalls'

'GT\_ Treads'

'GV\_ Cured tyres'

'GX\_ Beltstrips '

'XGD\_ Trial chemical bags'

'XGM\_ Trial compounds'

'XGC\_ Trial Cord'

'XGR\_ Trial Ply'

'XGI\_ Trial Inserts'

'XGS\_ Trial Sidewall'

'XGX\_ Trial Strips'

'XGT\_ Trial Tread'

'XGB\_ Trial Beads'

'XGG\_ Trial greentires'

'XGV\_ Trial cured tires'

'XGF\_ Trial Final products'

'')

Schematisch overzicht van UPDATE\_HU\_V2.Tst2Sap -procedure INTERSPEC\_SQL-SAP-Interface

Tst2Sap.dfm

Tst2Sap.pas (forms)

Geen DPR-file?  
Geen db-connectie ?

Exp2Sap.dfm  
Object: dmExport2Sap  
dmExport2Sap.Exportall

Export.tab

; Nr Tag ;frame section, sub-section propertygroup property field Name Type Processing

; C 0

; C 0

32 BrandName General information General tyre characteristics Brand CHARACTERISTIC Brand name C 0

33 MouldCode A\_PCR D-spec Master drawing general Segment CHAR\_1 Mould code C 0

34 ProfileCode General information Size Productlinecode CHAR\_1 Profile code C3 0

35 ProfileName A\_PCR General information General tyre characteristics Productline CHARACTERISTIC Profile name C 0

36 AsymInd General information General tyre characteristics Asymmetric CHARACTERISTIC Asymmetrical B 0

37 DirInd General information General tyre characteristics Directional CHARACTERISTIC Directional B 0

38 LoadRange A\_PCR General information General tyre characteristics Load index class CHARACTERISTIC Load range C 0

39 RimProt General information General tyre characteristics Rim protector CHARACTERISTIC Rim protector C 0

40 RunFlatInd A\_PCR General information General tyre characteristics Runflat CHARACTERISTIC Run flat B 0

41 WinterInd General information General tyre characteristics Winter indication CHARACTERISTIC Winter indicator C 0

42 TyreSegmentationPCT General information General tyre characteristics Category CHARACTERISTIC Tyre segmentation C 0

43 TyreTypePCT\_ACT A\_PCR General information General tyre characteristics Tubetype/tubeless CHARACTERISTIC Tyre type C 0

44 TyreTypeTWT Tyretype TWT C 0

45 SectionWidthCode General information Size Section width CHAR\_1 Section width code I 0

46 RealSectionWidth A\_PCR D-spec D-Spec (tyre measurements) Tyre width (max) NUM\_1 Real section width I 0

47 AspectRatio General information Size Aspect ratio CHAR\_1 Aspect ratio I 0

48 RimCode General information Size Rimcode CHAR\_1 Rim code F 0

49 Diameter D-spec D-Spec (tyre measurements) Tyre diameter NUM\_1 Diameter I 0

50 OverallDia Overall diameter I 0

51 Dimension\_mm Dimension (mm) C 0

52 Dimension\_inch Dimension (inch) C 0

53 SpeedIndex General information Size Speed index CHAR\_1 Speed index C 0

54 SpeedIndex2 Speedindex 2 C 0

55 MaxSpeed A\_PCR General information General tyre characteristics Vmax Y (km/h) CHARACTERISTIC Maximum speed I 0

56 MaxSpeed\_2 Maximum speed 2 C 0

57 SizeDesignation General information Sidewall designation Size designation CHAR\_1 Size designation C 0

58 EtrtoSize ETRTO size C 0

59 Colour Colour C 0

60 UstTubeless UST Tubeless B 0

61 TubelessReady Tubeless ready B 0

62 RadialConstruction \_TEXT TRUE Radial Construction B 0

63 PlyRating Ply rating I 0

64 LoadCapacity General information Sidewall designation Max. load CHAR\_1 Loadcapacity (kg) I 0

65 Weight A\_PCR D-spec D-Spec (tyre measurements) Tyre weight NUM\_1 Weight F 0

66 CommercialWeight Commercial weight F 0

67 DotInd A\_PCR General information Sidewall designation DOT Plant Code CHAR\_1 DOT indicator B 0

68 BeginDOT Begin DOT C 0

69 EndDOT End DOT C 0

70 VersionNumber Version number I 0

71 E-ApprovalCodeSound A\_PCR General information Sidewall designation E-appr. code (S/W/R) CHAR\_1 E-Approval sound C 0

72 E-approvalCode A\_PCR General information Sidewall designation E-approval code CHAR\_1 E-Approval code C 0

73 OemAppInd OEM approval B 0

74 PliesSidewall A\_PCR General information Sidewall designation Plies sidewall CHAR\_1 Plies sidewall C 0

75 PliesTread A\_PCR General information Sidewall designation Plies tread CHAR\_1 Plies tread C 0

76 QualityGradingWear QualityGrading tread C 0

77 QualityGradingTraction QualityGrading Wear C 0

78 QualityGradingTemperature QualityGrading Temperature C 0

79 TreadDpth Tread depth F 0

80 MinPress Min Pressure F 0

81 MaxPress Max pressure F 0

82 TyrePress A\_PCR General information ETRTO properties ETRTO infl pressure NUM\_1 Tyre pressure I 0

83 NominalTyrePress Nominal tyrepressure I 0

84 MaxPressure A\_PCR General information Sidewall designation Max. pressure CHAR\_1 Max Pressure I 0

85 Press\_130 Pressure 130kmh F 0

86 ActTyreDia Actual diameter I 0

87 ActTyreWeight Actual weight F 0

88 ActTyreWidth Actual width F 0

89 LoadIndex General information Size Load index CHAR\_1 Loadindex I 0

90 LoadIndex\_2 General information Size Load index (dual) CHAR\_1 Loadindex double I 0

91 MaxLoadKg A\_PCR General information Sidewall designation Max. load CHAR\_1 MaxLoad Kg I 0

92 MaxLoadLbs A\_PCR General information Sidewall designation Max. load CHAR\_1 MaxLoad Lbs I 1

93 MaxLoad2Kg A\_PCR General information Sidewall designation Max. load (dual) CHAR\_1 MaxLoad double Kg I 0

94 MaxLoad2Lbs A\_PCR General information Sidewall designation Max. load (dual) CHAR\_1 MaxLoad double Lbs I 1

95 EtrtoTargetRimWidth A\_PCR General information ETRTO properties ETRTO rimwidth NUM\_1 ETRTO Target Rimwidth F 0

96 EtrtoLslRimWidth A\_PCR General information ETRTO properties ETRTO rimwidth NUM\_2 ETRTO LSL Rimwidth F 0

97 EtrtoUslRimWidth A\_PCR General information ETRTO properties ETRTO rimwidth NUM\_3 ETRTO USL Rimwidth F 0

98 ApprRimWidthPlus A\_PCR General information VR approved rimwidth ETRTO LSL -0.5 BOOLEAN\_1 VR-approved -0.5 B 0

99 ApprRimWidthMinus A\_PCR General information VR approved rimwidth ETRTO USL +0.5 BOOLEAN\_1 VR-approved +0.5 B 0

100 RecommRimWidth Recommended rimwidth C 0

101 PermRimWidth Permitted rimwidth C 0

102 AltRimWidth Alternative rimwidth C 0

103 TargetDia Target Diameter I 0

104 TargetSectWidth Target Section width F 0

105 TargetInflPress Targer Pressure I 0

106 TargetLoadCap Target LoadCapacity I 0

107 TargetMaxLoad Target Max Axleload I 0

108 TPI TPI I 0

109 SRI SRI C 0

110 PR\_SD PR/SD C 0

111 Content\_75 Content 75% I 0

112 StaticLoadRadius Static loadradius I 0

113 RollCirc Rolling circumference I 0

114 TreadPattern Tread pattern C 0

115 Valve Valve C 0

116 LoadCap\_20 LoadCapacity 20kmh I 0

117 LoadCap\_30 LoadCapacity 30kmh I 0

118 LoadCap\_40 LoadCapacity 40kmh I 0

119 LoadCap\_10 LoadCapacity 10kmh I 0

120 LoadCap\_130 LoadCapacity 130kmh I 0

;121 WetGripPCT A\_PCR Properties Outdoor testing ECE Wet Grip labeling (trailer) CHAR\_1 WetGrip PCT C 0

;121 WetGripPCT A\_PCR Labels and certification Labels Wet grip Europe CHARACTERISTIC WetGrip PCT C 0

;121 WetGripPCT E\_Budget\_tyres Properties Outdoor testing ECE Wet Grip labeling (trailer) CHAR\_1 WetGrip PCT C 0

;122 RollResistPct A\_PCR Properties Indoor testing ECE Rolling resistance Labeling CHAR\_1 RollingResistance PCT C 0

;122 RollResistPct A\_PCR Labels and certification Labels Rolling resistance Europe CHARACTERISTIC RollingResistance PCT C 0

;122 RollResistPct E\_Budget\_tyres Properties Indoor testing ECE Rolling resistance Labeling CHAR\_1 RollingResistance PCT C 0

;123 NoisePct\_dB A\_PCR Properties Outdoor testing ECE Noise labeling NUM\_1 Noise PCT I 0

;123 NoisePct\_dB A\_PCR Labels and certification Labels Noise Europe NUM\_2 Noise PCT I 0

;123 NoisePct\_dB E\_Budget\_tyres Properties Outdoor testing ECE Noise labeling NUM\_1 Noise PCT I 0

;124 NoisePctClass A\_PCR Properties Outdoor testing ECE Noise labeling CHAR\_1 NoiseClass PCT C 0

;124 NoisePctClass A\_PCR Labels and certification Labels Noise Europe NUM\_1 NoiseClass PCT C 0

;124 NoisePctClass E\_Budget\_tyres Properties Outdoor testing ECE Noise labeling CHAR\_1 NoiseClass PCT C 0

125 EC\_VehicleClass A\_PCR General information General tyre characteristics Tyre class CHARACTERISTIC EC VehicleClass C 0

125 EC\_VehicleClass E\_Budget\_tyres General information General tyre characteristics Tyre class CHARACTERISTIC EC VehicleClass C 0

126 RevisionState E\_BBQ Properties Assembly info Revision CHAR\_1 RevisionState C 0

127 QualityState E\_BBQ Properties Assembly info Quality state CHAR\_1 QualityState C 0

128 Variant E\_BBQ Properties Assembly info Variant CHAR\_1 Variant C 0

129 CustomerArtNumber E\_BBQ Properties Porsche sachnummer CHAR\_1 CustomerArtNumber C 0

;

1000 IS\_OE E\_PCR\_GT\_C SAP information Use for OE CHARACTERISTIC C 0

1001 IS\_OE E\_PCR\_GT\_B SAP information Use for OE CHARACTERISTIC C 0

1002 IS\_OE E\_PCR\_VULC SAP information Use for OE CHARACTERISTIC C 0

1003 IS\_OE A\_PCR SAP information Use for OE CHARACTERISTIC C 0

1004 IS\_OE E\_tread SAP information Use for OE CHARACTERISTIC C 0

1005 IS\_OE E\_Sidewall SAP information Use for OE CHARACTERISTIC C 0

1006 IS\_OE E\_Innerliner SAP information Use for OE CHARACTERISTIC C 0

1007 IS\_OE E\_Ply SAP information Use for OE CHARACTERISTIC C 0

1008 IS\_OE E\_Bead SAP information Use for OE CHARACTERISTIC C 0

1009 IS\_OE E\_Belt SAP information Use for OE CHARACTERISTIC C 0

1010 IS\_OE E\_Capply SAP information Use for OE CHARACTERISTIC C 0