RAP Unmanaged Simple no Behavior:

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| @EndUserText.label: 'Custom Entity YLHIST'  @ObjectModel.query.implementedBy: 'ABAP:ZYL\_CL\_YLHIST'  @UI.headerInfo.typeNamePlural: 'YLHist'  @UI.headerInfo.typeName: 'YLHist'  **define** **custom** **entity** ZYL\_CE\_YLHIST  **{**  @EndUserText.label: 'Yard'  @Consumption.valueHelpDefinition: [{ entity : { name : 'ZYL\_YARDNO\_VH\_AUTHCHECK', element : 'YardNo' }}]  @UI.selectionField: [{ position: 10 }]  @Consumption.filter.mandatory: true  **key** YardNo **:** */sapyl/e\_yard\_no***;**    @EndUserText.label: 'Timestamp'  @Semantics.dateTime: true  @UI.selectionField: [{ position: 20 }]  @UI.lineItem: [{ position: 10 }]  **key** Timestamp **:** *abap***.***dec***(** 15 **);**    @EndUserText.label: 'Activity'  @UI.lineItem: [{ position: 20 }]  **key** Activity **:** *abap***.***char***(** 20 **);**    @EndUserText.label: 'Document Type'  @UI.lineItem: [{ position: 30 }]  DocumentType **:** *abap***.***char***(** 2 **);**    @EndUserText.label: 'Document Number'  @UI.lineItem: [{ position: 40 }]  DocumentNumber **:** *abap***.***char***(** 20 **);**    @EndUserText.label: 'Trailer'  @Consumption.valueHelpDefinition: [{ entity : { name : 'ZYL\_TU\_SIMPLE\_VH', element : 'TuNumExt' }}]  @UI.selectionField: [{ position: 40 }]  @UI.lineItem: [{ position: 50 }]  TuNumExt **:** */scwm/de\_tu\_num\_ext***;**    @EndUserText.label: 'Material'  @Consumption.valueHelpDefinition: [{ entity : { name : 'ZYL\_PRODUCT\_VH', element : 'matnr' }}]  @UI.selectionField: [{ position: 30 }]  @UI.lineItem: [{ position: 60 }]  Matnr **:** */sapyl/e\_matnr***;**    @Semantics.quantity.unitOfMeasure: 'Meins'  @UI.lineItem: [{ position: 70 }]  Quantity **:** */sapyl/e\_matnr\_qty***;**    //@UI.lineItem: [{ position: 80 }]  Meins **:** *abap***.***unit***(** 3 **);**    @EndUserText.label: 'Source bin'  @UI.lineItem: [{ position: 90 }]  Sourcebin **:** */scwm/lgpla***;**    @EndUserText.label: 'Dest bin'  @UI.lineItem: [{ position: 100 }]  Destbin **:** */scwm/lgpla***;**    @EndUserText.label: 'User'  @UI.lineItem: [{ position: 110 }]  ActivityPerformedByUser **:** *abap***.***char***(** 12 **);**    @EndUserText.label: 'Comment'  @UI.lineItem: [{ position: 120 }]  Commentary **:** *zyl\_comment\_tu***;**    @EndUserText.label: 'Transponder'  @UI.lineItem: [{ position: 130 }]  Transponder **:** *lxyrd\_trnpd***;**    @EndUserText.label: 'Owner'  @UI.lineItem: [{ position: 140 }]  Owner **:** *lxyrd\_owner***;**    @EndUserText.label: 'Rfid'  @UI.lineItem: [{ position: 150 }]  Rfid **:** *zyl\_beacon\_serial***;**    @EndUserText.label: 'Block Indicator'  @UI.lineItem: [{ position: 160 }]  BlockIndicator **:** *abap***.***char***(** 1 **);**    @EndUserText.label: 'Old Comment'  @UI.lineItem: [{ position: 170 }]  OldCommentary **:** *zyl\_comment\_tu***;**    @EndUserText.label: 'Old Transponder'  @UI.lineItem: [{ position: 180 }]  OldTransponder **:** *lxyrd\_trnpd***;**    @EndUserText.label: 'Old Owner'  @UI.lineItem: [{ position: 190 }]  OldOwner **:** *lxyrd\_owner***;**    @EndUserText.label: 'Old Rfid'  @UI.lineItem: [{ position: 200 }]  OldRfid **:** *zyl\_beacon\_serial***;**    @EndUserText.label: 'Old Block Indicator'  @UI.lineItem: [{ position: 210 }]  OldBlockIndicator **:** *abap***.***char***(** 1 **);**    **}** |

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| @AbapCatalog.viewEnhancementCategory: [#NONE]  @AccessControl.authorizationCheck: #CHECK  @EndUserText.label: 'VH for YardNo with Auth Check'  @Metadata.ignorePropagatedAnnotations: true  @ObjectModel.usageType:{  serviceQuality: #X,  sizeCategory: #S,  dataClass: #MIXED  }  @ObjectModel.resultSet: {  sizeCategory: #XS //DropDown  }  **define** **view** **entity** ZYL\_YARDNO\_VH\_AUTHCHECK  **as** **select** **from** /sapyl/yardno **as** a  **left** **outer** **join** /sapyl/yardnot **as** b **on** a**.**yard\_no **=** b**.**yard\_no  **{**  **key** a**.**yard\_no **as** YardNo**,**  **max(**b**.**yard\_no\_text**)** **as** YardNoText  **}**  **where**  b**.**spras **=** **$session.system\_language**  **group** **by**  a**.**yard\_no |

Access Control

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| @EndUserText.label: 'AC for ZYL\_YARDNO\_VH\_AUTHCHECK'  @MappingRole: true  **define** **role** ZYL\_YARDNO\_VH\_AUTHCHECK **{**  **grant**  **select**  **on**  ZYL\_YARDNO\_VH\_AUTHCHECK  **where**  **(**YardNo**)** **=** **aspect** **pfcg\_auth(**/SAPYL/YTU**,** /SAPYL/YN**,** ACTVT **=** '03'**);**    **}** |

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| CLASS zyl\_cl\_ylhist DEFINITION  PUBLIC  FINAL  CREATE PUBLIC .  PUBLIC SECTION.  TYPES: tt\_zyl\_ce\_ylhist type table of zyl\_ce\_ylhist WITH EMPTY KEY.  INTERFACES if\_rap\_query\_provider .  METHODS select\_db  IMPORTING iv\_yard TYPE /sapyl/e\_yard\_no  ir\_timestamp TYPE zyl\_utctime\_range\_tt OPTIONAL  ir\_TU\_NUM TYPE /sapyl/t\_tu\_num\_rng OPTIONAL  ir\_matnr TYPE bapiproductrange\_tab OPTIONAL  ir\_create\_yt\_user TYPE trgr\_user OPTIONAL  ir\_conf\_yt\_user TYPE trgr\_user OPTIONAL  RETURNING VALUE(rt\_output) TYPE zyl\_ylhist\_output\_tt.  METHODS tu\_by\_matnr\_search  IMPORTING  iv\_tu\_num TYPE any OPTIONAL  iv\_yard\_no TYPE any OPTIONAL  PREFERRED PARAMETER iv\_tu\_num.  PROTECTED SECTION.  private section.  data MV\_YARD\_NO type /SAPYL/E\_YARD\_NO .  data:  mr\_time TYPE RANGE OF /bofu/tstmp\_creation\_time .  data:  mr\_matnr TYPE RANGE OF /sapyl/e\_matnr .  data:  mr\_tu TYPE RANGE OF /sapyl/e\_tu\_num\_ext .  methods GET\_ALL\_DATA  importing  !IR\_YARD\_NO type IF\_RAP\_QUERY\_FILTER=>TT\_RANGE\_OPTION  !IR\_TU type IF\_RAP\_QUERY\_FILTER=>TT\_RANGE\_OPTION optional  !IR\_MATNR type IF\_RAP\_QUERY\_FILTER=>TT\_RANGE\_OPTION optional  !IR\_TIME type IF\_RAP\_QUERY\_FILTER=>TT\_RANGE\_OPTION optional  returning  value(RT\_DATA) type ZYL\_CL\_YLHIST=>TT\_ZYL\_CE\_YLHIST .  ENDCLASS.  CLASS ZYL\_CL\_YLHIST IMPLEMENTATION.  METHOD if\_rap\_query\_provider~select.  DATA lt\_ylhist\_all\_data TYPE TABLE OF zyl\_ce\_ylhist.  DATA ls\_ylhist\_test\_data TYPE zyl\_ce\_ylhist.  DATA lt\_ylhist\_response\_data TYPE TABLE OF zyl\_ce\_ylhist.  DATA(lv\_top) = io\_request->get\_paging( )->get\_page\_size( ).  DATA(lv\_skip) = io\_request->get\_paging( )->get\_offset( ).  DATA(requested\_fields) = io\_request->get\_requested\_elements( ).  DATA(lt\_sort\_elements) = io\_request->get\_sort\_elements( ).  "Filter  TRY.  DATA(lt\_filter\_cond) = io\_request->get\_filter( )->get\_as\_ranges( ).  LOOP AT lt\_filter\_cond INTO DATA(ls\_filter\_cond).  IF ls\_filter\_cond-name = 'YARDNO'.  DATA(ir\_yardno) = ls\_filter\_cond-range.  ENDIF.  IF ls\_filter\_cond-name = 'TIMESTAMP'.  DATA(ir\_timestamp) = ls\_filter\_cond-range.  ENDIF.  IF ls\_filter\_cond-name = 'MATNR'.  DATA(ir\_matnr) = ls\_filter\_cond-range.  ENDIF.  IF ls\_filter\_cond-name = 'TUNUMEXT'.  DATA(ir\_tunumext) = ls\_filter\_cond-range.  ENDIF.  ENDLOOP.  CATCH cx\_rap\_query\_filter\_no\_range INTO DATA(lx\_no\_sel\_option).  ENDTRY.  lt\_ylhist\_all\_data = me->get\_all\_data(  EXPORTING  ir\_yard\_no = ir\_yardno  ir\_tu = ir\_tunumext  ir\_matnr = ir\_matnr  ir\_time = ir\_timestamp ).  \* "Get all the data by calling the method "get\_all\_data"  \* "Sample data used  \* ls\_ylhist\_test\_data-yardno = 'AX01'.  \* ls\_ylhist\_test\_data-timestamp = 20230926201515.  \* ls\_ylhist\_test\_data-activity = 'Checkin'.  \* ls\_ylhist\_test\_data-tunumext = 'TrailerXyz'.  \* APPEND ls\_ylhist\_test\_data TO lt\_ylhist\_all\_data.  "Sorting  IF lt\_sort\_elements IS NOT INITIAL.  DATA(lt\_abap\_sortorder\_tab) = VALUE abap\_sortorder\_tab( FOR ls\_sort\_element IN lt\_sort\_elements  ( name = ls\_sort\_element-element\_name  descending = ls\_sort\_element-descending  astext = '' ) ).  IF lt\_abap\_sortorder\_tab IS NOT INITIAL.  SORT lt\_ylhist\_all\_data BY (lt\_abap\_sortorder\_tab).  ELSE.  SORT lt\_ylhist\_all\_data BY yardno ASCENDING timestamp ASCENDING activity ASCENDING.  ENDIF.  ELSE.  SORT lt\_ylhist\_all\_data BY yardno ASCENDING timestamp ASCENDING activity ASCENDING.  ENDIF.  "Paging  IF lv\_top > 0.  LOOP AT lt\_ylhist\_all\_data INTO DATA(ls\_ylhist\_data) FROM lv\_skip + 1 TO ( lv\_skip + lv\_top ).  APPEND ls\_ylhist\_data TO lt\_ylhist\_response\_data.  ENDLOOP.  ENDIF.  "Count  IF io\_request->is\_total\_numb\_of\_rec\_requested( ).  io\_response->set\_total\_number\_of\_records( lines( lt\_ylhist\_all\_data ) ).  ENDIF.  "Set data  io\_response->set\_data( lt\_ylhist\_response\_data ).  ENDMETHOD.  METHOD select\_db.  \*Select for YLHIST:  \*1) Get TUs from YARD\_TU as baseline. Every TU exists here.  \*TABNAME /SAPYL/YARD\_TU Fields prefix YARD\_TU  \*2) Union all SR\_ACT lines inner join YO\_HDR  \*TABNAME /SAPYL/TU\_SR\_ACT Fields prefix SR\_ACT & YO\_HDR & YO\_ITEM  \*3) Union all YT\_HDR lines inner join YT\_ITEM  \*TABNAME /SAPYL/YT\_HDR Fields prefix YT\_HDR & YT\_ITEM  \*4) Union all TU\_PROD lines  \*TABNAME /SAPYL/TU\_PROD Fields prefix TU\_PROD  \*5) Union all CDHDR inner join CDPOS lines  \*TABNAME /SAPYL/CDHDR Fields prefix CDHDR & CDPOS  "for now single selects and join up in ABAP logic.  "Fields: Timestamp Object ...  ENDMETHOD.  METHOD tu\_by\_matnr\_search.  SELECT \* FROM /sapyl/yard\_tu AS yard\_tu  INNER JOIN /sapyl/tu\_sr\_act AS sr\_act  ON sr\_act~parent\_key = yard\_tu~db\_key  INNER JOIN /sapyl/tu\_prod AS tu\_prod  ON tu\_prod~parent\_key = yard\_tu~db\_key  WHERE  yard\_tu~tu\_num\_ext = @iv\_tu\_num  AND sr\_act~yard\_no = @iv\_yard\_no  AND sr\_act~sr\_status = '02'  INTO TABLE @DATA(lt\_output).  DATA(lv\_bin) = lt\_output[ 1 ]-sr\_act-stor\_bin .  ENDMETHOD.  METHOD get\_all\_data.  DATA: ls\_data TYPE LINE OF zyl\_cl\_ylhist=>tt\_zyl\_ce\_ylhist.  \* selection criteria:  \*Yard -> SR\_ACT, YO, YT  \*Timestamp (= change event timestamp)  \*TU (TU)  \*MATNR (TU PROD, opt joined with CDPOS)  \*Act Type (YT\_HDR)  \*Later YT Create User (YT\_HDR)  \*Later YT Confirm User (YT\_HDR)  \*Later IM Delivery (TU\_PROD)  \*Later Shuttlelist (TU\_PROD)  \* CLEAR: mv\_yard\_no, mr\_tu, mr\_time, mr\_matnr.  \* mv\_yard\_no = iv\_yard\_no.  \* mr\_tu = ir\_tu.  \* mr\_matnr = ir\_matnr.  \* mr\_time = ir\_time.  "Output Structure ZYL\_YLHIST\_OUTPUT:  "YARD, NXY1  "TIMESTAMP, 09.09.2024 00:00:00  "ACTIVITY: YR Created, Checkin, Checkout, Loading Inbound Delivery, Loading YLMOVE, Loading Shuttle, Request Unloading Inbound Delivery,  "Request Unloading YLMOVE, Unloading Inbound Delivery, Unloading YLMOVE, Unloading Shuttle  "COMMENT CHANGE, TRANSPONDER CHANGE, OWNER CHANGE, RFID CHANGE, TU BLOCK CHANGE  "Document Type YR/YO/YT/CHANGE Document(CDPOS entries)  "Document Number  "TU\_NUM  "MATNR  "QUANTITY  "SOURCEBIN  "DESTBIN  "USER  "Comment  "Transponder  "Owner  "RFID  "Block Indicator  "Field  "Old Value  "New Value  \*Select for YLHIST:  \*1) Activity YR Creation: get yard request creation (when shipment dropped in YL) with matnr on yo\_item  \* YO\_HDR + YO\_ITEM + YARD\_TU  SELECT \* FROM /sapyl/yard\_tu AS yard\_tu  INNER JOIN /sapyl/yo\_item AS yo\_item  ON yard\_tu~tu\_num\_ext = yo\_item~tu\_number  INNER JOIN /sapyl/yo\_hdr AS yo\_hdr  ON yo\_item~parent\_key = yo\_hdr~db\_key  \* INNER JOIN /sapyl/yo\_prod AS yo\_prod  \* ON yo\_prod~root\_key = yo\_hdr~db\_key  \* AND yo\_prod~parent\_key = yo\_item~db\_key  WHERE yo\_hdr~doc\_cat = @/sapyl/if\_constants=>gcs\_document\_category-yard\_request  AND yo\_hdr~direction = @/sapyl/if\_constants=>gc\_yo\_direction-inbound  AND yo\_hdr~yard\_no IN @ir\_yard\_no "@mv\_yard\_no  AND yo\_hdr~created\_on IN @ir\_time "@mr\_time  AND yo\_item~tu\_number IN @ir\_tu "@mr\_tu  \* AND yo\_prod~matnr IN @ir\_matnr "@mr\_matnr  INTO TABLE @DATA(lt\_yard\_requests).  IF sy-subrc = 0.  LOOP AT lt\_yard\_requests ASSIGNING FIELD-SYMBOL(<fs\_yard\_request>).  ls\_data-yardno = <fs\_yard\_request>-yo\_hdr-yard\_no.  ls\_data-timestamp = <fs\_yard\_request>-yard\_tu-created\_on.  ls\_data-activity = 'YR Created'.  ls\_data-documenttype = 'YR'.  ls\_data-documentnumber = <fs\_yard\_request>-yo\_hdr-yard\_order\_no.  ls\_data-tunumext = <fs\_yard\_request>-yard\_tu-tu\_num\_ext.  \* ls\_data-matnr = <fs\_yard\_request>-yo\_prod-matnr.  \* ls\_data-quantity = <fs\_yard\_request>-yo\_prod-matqty.  \* ls\_data-meins = <fs\_yard\_request>-yo\_prod-meins.  ls\_data-sourcebin = <fs\_yard\_request>-yo\_hdr-stor\_bin\_dep.  ls\_data-destbin = <fs\_yard\_request>-yo\_hdr-stor\_bin\_arr.  ls\_data-activityperformedbyuser = 'YR Created'.  ls\_data-commentary = <fs\_yard\_request>-yard\_tu-yl\_comment.  ls\_data-transponder = <fs\_yard\_request>-yard\_tu-transponder.  ls\_data-owner = <fs\_yard\_request>-yard\_tu-owner.  ls\_data-rfid = <fs\_yard\_request>-yard\_tu-beacon\_serial.  ls\_data-blockindicator = space.  ls\_data-oldcommentary = space.  ls\_data-oldtransponder = space.  ls\_data-oldowner = space.  ls\_data-oldrfid = space.  ls\_data-oldblockindicator = space.  APPEND ls\_data TO rt\_data.  CLEAR ls\_data.  ENDLOOP.  ENDIF.  "Activity Yard Request Creation  \*2) Activity YO Creation: get inbound yard orders with matnr on yo\_item  \* YO\_HDR + YO\_ITEM + YARD\_TU  SELECT \* FROM /sapyl/yard\_tu AS yard\_tu  INNER JOIN /sapyl/yo\_item AS yo\_item  ON yard\_tu~tu\_num\_ext = yo\_item~tu\_number  INNER JOIN /sapyl/tu\_sr\_act AS tu\_sr\_act  ON yard\_tu~db\_key = tu\_sr\_act~parent\_key  INNER JOIN /sapyl/yo\_hdr AS yo\_hdr  ON yo\_item~parent\_key = yo\_hdr~db\_key  \* INNER JOIN /sapyl/yo\_prod AS yo\_prod  \* ON yo\_prod~root\_key = yo\_hdr~db\_key  \* AND yo\_prod~parent\_key = yo\_item~db\_key  WHERE yo\_hdr~doc\_cat = @/sapyl/if\_constants=>gcs\_document\_category-yard\_order  AND yo\_hdr~direction = @/sapyl/if\_constants=>gc\_yo\_direction-inbound  AND yo\_hdr~yard\_no IN @ir\_yard\_no "@mv\_yard\_no  AND yo\_hdr~created\_on IN @ir\_time "@mr\_time  AND yo\_item~tu\_number IN @ir\_tu "@mr\_tu  \* AND yo\_prod~matnr IN @ir\_matnr "@mr\_matnr  INTO TABLE @DATA(lt\_yard\_inb\_orders\_yo\_prod).  IF sy-subrc = 0.  LOOP AT lt\_yard\_inb\_orders\_yo\_prod ASSIGNING FIELD-SYMBOL(<fs\_yard\_inb\_orders\_yo\_prod>).  ls\_data-yardno = <fs\_yard\_inb\_orders\_yo\_prod>-yo\_hdr-yard\_no.  ls\_data-timestamp = <fs\_yard\_inb\_orders\_yo\_prod>-yard\_tu-created\_on.  ls\_data-activity = 'YO Created'.  ls\_data-documenttype = 'YO'.  ls\_data-documentnumber = <fs\_yard\_inb\_orders\_yo\_prod>-yo\_hdr-yard\_order\_no.  ls\_data-tunumext = <fs\_yard\_inb\_orders\_yo\_prod>-yard\_tu-tu\_num\_ext.  \* ls\_data-matnr = <fs\_yard\_inb\_orders\_yo\_prod>-yo\_prod-matnr.  \* ls\_data-quantity = <fs\_yard\_inb\_orders\_yo\_prod>-yo\_prod-matqty.  \* ls\_data-meins = <fs\_yard\_inb\_orders\_yo\_prod>-yo\_prod-meins.  ls\_data-sourcebin = <fs\_yard\_inb\_orders\_yo\_prod>-yo\_hdr-stor\_bin\_dep.  ls\_data-destbin = <fs\_yard\_inb\_orders\_yo\_prod>-yo\_hdr-stor\_bin\_arr.  ls\_data-activityperformedbyuser = 'YO Created'.  ls\_data-commentary = <fs\_yard\_inb\_orders\_yo\_prod>-yard\_tu-yl\_comment.  ls\_data-transponder = <fs\_yard\_inb\_orders\_yo\_prod>-yard\_tu-transponder.  ls\_data-owner = <fs\_yard\_inb\_orders\_yo\_prod>-yard\_tu-owner.  ls\_data-rfid = <fs\_yard\_inb\_orders\_yo\_prod>-yard\_tu-beacon\_serial.  ls\_data-blockindicator = space.  ls\_data-oldcommentary = space.  ls\_data-oldtransponder = space.  ls\_data-oldowner = space.  ls\_data-oldrfid = space.  ls\_data-oldblockindicator = space.  APPEND ls\_data TO rt\_data.  CLEAR ls\_data.  ENDLOOP.  ENDIF.  \*3) Checked in Trailers Activity YO Checkin: get yard orders released with matnr on tu\_prod  \* SR\_ACT-02 + YO\_HDR + YARD\_TU + TU\_PROD + /SAPYL/YO\_DTIME use yo\_item~TU\_SR\_ACT\_KEY + join SR\_ACT to get exact checkin timestamp SR\_ACT TU\_ARRIVAL\_TSTMP  \* Derive from 3) table lt\_yard\_inb\_orders SR\_ACT Field TU\_ARRIVAL\_TSTMP  \* Add to output table, all lines of lt\_yard\_inb\_orders where TU\_ARRIVAL\_TSTMP is not initial  \* 2) + 3) will create duplicates  SELECT \* FROM /sapyl/yard\_tu AS yard\_tu  INNER JOIN /sapyl/yo\_item AS yo\_item  ON yard\_tu~tu\_num\_ext = yo\_item~tu\_number  INNER JOIN /sapyl/tu\_sr\_act AS tu\_sr\_act  ON yo\_item~tu\_sr\_act\_key = tu\_sr\_act~db\_key  INNER JOIN /sapyl/yo\_hdr AS yo\_hdr  ON yo\_item~parent\_key = yo\_hdr~db\_key  \* INNER JOIN /sapyl/tu\_prod AS tu\_prod  \* ON yard\_tu~db\_key = tu\_prod~parent\_key  WHERE yo\_hdr~doc\_cat = @/sapyl/if\_constants=>gcs\_document\_category-yard\_order  AND yo\_hdr~direction = @/sapyl/if\_constants=>gc\_yo\_direction-inbound  AND yo\_hdr~yard\_no IN @ir\_yard\_no "@mv\_yard\_no  AND yo\_hdr~created\_on IN @ir\_time "@mr\_time  AND yo\_item~tu\_number IN @ir\_tu "@mr\_tu  AND tu\_sr\_act~sr\_status = @/sapyl/if\_constants=>gc\_tu\_sr\_status-active  \* AND tu\_prod~matnr IN @ir\_matnr "@mr\_matnr  INTO TABLE @DATA(lt\_yard\_inb\_orders\_tu\_prod).  IF sy-subrc = 0.  LOOP AT lt\_yard\_inb\_orders\_tu\_prod ASSIGNING FIELD-SYMBOL(<fs\_yard\_inb\_orders\_tu\_prod>).  ls\_data-yardno = <fs\_yard\_inb\_orders\_tu\_prod>-yo\_hdr-yard\_no.  ls\_data-timestamp = <fs\_yard\_inb\_orders\_tu\_prod>-tu\_sr\_act-tu\_arrival\_tstmp.  ls\_data-activity = 'Check-in'.  ls\_data-documenttype = 'YO'.  ls\_data-documentnumber = <fs\_yard\_inb\_orders\_tu\_prod>-yo\_hdr-yard\_order\_no.  ls\_data-tunumext = <fs\_yard\_inb\_orders\_tu\_prod>-yard\_tu-tu\_num\_ext.  \* ls\_data-matnr = <fs\_yard\_inb\_orders\_yo\_prod>-yo\_prod-matnr.  \* ls\_data-quantity = <fs\_yard\_inb\_orders\_yo\_prod>-yo\_prod-matqty.  \* ls\_data-meins = <fs\_yard\_inb\_orders\_yo\_prod>-yo\_prod-meins.  ls\_data-sourcebin = <fs\_yard\_inb\_orders\_tu\_prod>-yo\_hdr-stor\_bin\_dep.  ls\_data-destbin = <fs\_yard\_inb\_orders\_tu\_prod>-yo\_hdr-stor\_bin\_arr.  ls\_data-activityperformedbyuser = 'Check-in'.  ls\_data-commentary = <fs\_yard\_inb\_orders\_tu\_prod>-yard\_tu-yl\_comment.  ls\_data-transponder = <fs\_yard\_inb\_orders\_tu\_prod>-yard\_tu-transponder.  ls\_data-owner = <fs\_yard\_inb\_orders\_tu\_prod>-yard\_tu-owner.  ls\_data-rfid = <fs\_yard\_inb\_orders\_tu\_prod>-yard\_tu-beacon\_serial.  ls\_data-blockindicator = space.  ls\_data-oldcommentary = space.  ls\_data-oldtransponder = space.  ls\_data-oldowner = space.  ls\_data-oldrfid = space.  ls\_data-oldblockindicator = space.  APPEND ls\_data TO rt\_data.  CLEAR ls\_data.  ENDLOOP.  ENDIF.  \*4) Activity YO Checkout: get yard orders released with matnr on tu\_prod  \* SR\_ACT-03 + YO\_HDR + YARD\_TU + TU\_PROD  SELECT \* FROM /sapyl/yard\_tu AS yard\_tu  INNER JOIN /sapyl/yo\_item AS yo\_item  ON yard\_tu~tu\_num\_ext = yo\_item~tu\_number  INNER JOIN /sapyl/tu\_sr\_act AS tu\_sr\_act  ON yo\_item~tu\_sr\_act\_key = tu\_sr\_act~db\_key  INNER JOIN /sapyl/yo\_hdr AS yo\_hdr  ON yo\_item~parent\_key = yo\_hdr~db\_key  \* INNER JOIN /sapyl/tu\_prod AS tu\_prod  \* ON yard\_tu~db\_key = tu\_prod~parent\_key  INNER JOIN /sapyl/yo\_dtime AS checkouttime  ON checkouttime~parent\_key = yo\_hdr~db\_key  AND checkouttime~record\_type = @/sapyl/if\_constants=>gc\_yo\_dtrec\_role-departure  WHERE yo\_hdr~doc\_cat = @/sapyl/if\_constants=>gcs\_document\_category-yard\_order  AND yo\_hdr~direction = @/sapyl/if\_constants=>gc\_yo\_direction-outbound  AND yo\_hdr~yard\_no IN @ir\_yard\_no "@mv\_yard\_no  AND yo\_hdr~created\_on IN @ir\_time "@mr\_time  AND yo\_item~tu\_number IN @ir\_tu "@mr\_tu  \* AND tu\_prod~matnr IN @ir\_matnr "@mr\_matnr  AND tu\_sr\_act~sr\_status = @/sapyl/if\_constants=>gc\_tu\_sr\_status-completed  INTO TABLE @DATA(lt\_yard\_outb\_orders\_tu\_prod).  IF sy-subrc = 0.  LOOP AT lt\_yard\_outb\_orders\_tu\_prod ASSIGNING FIELD-SYMBOL(<fs\_yard\_outb\_orders\_tu\_prod>).  ls\_data-yardno = <fs\_yard\_outb\_orders\_tu\_prod>-yo\_hdr-yard\_no.  ls\_data-timestamp = <fs\_yard\_outb\_orders\_tu\_prod>-checkouttime-actual\_end.  ls\_data-activity = 'Check-out'.  ls\_data-documenttype = 'YO'.  ls\_data-documentnumber = <fs\_yard\_outb\_orders\_tu\_prod>-yo\_hdr-yard\_order\_no.  ls\_data-tunumext = <fs\_yard\_outb\_orders\_tu\_prod>-yard\_tu-tu\_num\_ext.  \* ls\_data-matnr = <fs\_yard\_inb\_orders\_yo\_prod>-yo\_prod-matnr.  \* ls\_data-quantity = <fs\_yard\_inb\_orders\_yo\_prod>-yo\_prod-matqty.  \* ls\_data-meins = <fs\_yard\_inb\_orders\_yo\_prod>-yo\_prod-meins.  ls\_data-sourcebin = <fs\_yard\_outb\_orders\_tu\_prod>-yo\_hdr-stor\_bin\_dep.  ls\_data-destbin = <fs\_yard\_outb\_orders\_tu\_prod>-yo\_hdr-stor\_bin\_arr.  ls\_data-activityperformedbyuser = 'Check-out'.  ls\_data-commentary = <fs\_yard\_outb\_orders\_tu\_prod>-yard\_tu-yl\_comment.  ls\_data-transponder = <fs\_yard\_outb\_orders\_tu\_prod>-yard\_tu-transponder.  ls\_data-owner = <fs\_yard\_outb\_orders\_tu\_prod>-yard\_tu-owner.  ls\_data-rfid = <fs\_yard\_outb\_orders\_tu\_prod>-yard\_tu-beacon\_serial.  ls\_data-blockindicator = space.  ls\_data-oldcommentary = space.  ls\_data-oldtransponder = space.  ls\_data-oldowner = space.  ls\_data-oldrfid = space.  ls\_data-oldblockindicator = space.  APPEND ls\_data TO rt\_data.  CLEAR ls\_data.  ENDLOOP.  ENDIF.  \*5) Activity Yard Task Creation  \* SR\_ACT + YT\_HDR + YT\_ITEM + YARD\_TU + TU\_PROD  SELECT \* FROM /sapyl/yard\_tu AS yard\_tu  INNER JOIN /sapyl/yt\_item AS yt\_item  ON yard\_tu~tu\_num\_ext = yt\_item~tu\_no\_ext  INNER JOIN /sapyl/tu\_sr\_act AS tu\_sr\_act  ON yard\_tu~db\_key = tu\_sr\_act~parent\_key  AND yt\_item~sr\_act\_key = tu\_sr\_act~db\_key  INNER JOIN /sapyl/yt\_hdr AS yt\_hdr  ON yt\_item~parent\_key = yt\_hdr~db\_key  INNER JOIN /sapyl/tu\_prod AS tu\_prod  ON yard\_tu~db\_key = tu\_prod~parent\_key  WHERE yt\_hdr~yard\_no IN @ir\_yard\_no "@mv\_yard\_no  AND yt\_hdr~created\_on IN @ir\_time "@mr\_time  AND yt\_item~tu\_no\_ext IN @ir\_tu "@mr\_tu  AND tu\_prod~matnr IN @ir\_matnr "@mr\_matnr  INTO TABLE @DATA(lt\_yard\_yts\_tu\_prod).  \*6) Activity Yard Task Confirmation  \* SR\_ACT + YT\_HDR + YT\_ITEM + YARD\_TU + TU\_PROD  \* derive from lt\_yard\_yts\_tu\_prod  \*7) MATNR Changes on TU\_PROD (added, unloading requested, unloading)  \* YARD\_TU + SR\_ACT + TU\_PROD + CDHDR + CDPOS  \*call function CHANGEDOCU\_CDPOS\_READ  "IV\_OBJECTCLAS = '/SAPYL/YARD\_TU'  "IV\_OBJECTID = yard\_tu~db\_key  "optional IV\_FNAME  \* Alternative Option:  \* Do select on CDHDR and CDPOS with range tables for  "CDHDR-OBJECTCLAS = '/SAPYL/YARD\_TU'  "and OBJECTID = yard\_tu~db\_key  "and UDATE in date  "and FNAME = ( enter all fields here )  "Loading: Tabname: /SAPYL/TU\_PROD, Field: Matnr, Change Ind.: J  "Unloading: Tabname: /SAPYL/TU\_PROD, Field: Matnr, Change Ind.: E  "Partial Unloading: Tabname: /SAPYL/TU\_PROD, Field: YL\_IM\_UNLOADED\_QTY, Change ind.: U  "Request Unloading: Tabname: /SAPYL/TU\_PROD, Field: YL\_IM\_REQUESTED\_QTY, Change Ind.: U  \* SELECT \* FROM cdhdr  \* INNER JOIN cdpos ON cdhdr~objectid = cdpos~objectid  \* AND cdhdr~changenr = cdpos~changenr  \* WHERE cdhdr~objectid = @lv\_tu\_db\_key  \* AND cdhdr~udate IN @mr\_time  \* AND cdpos~tabname = '/SAPYL/TU\_PROD'  \* INTO TABLE @DATA(lt\_cdhdr\_cdpos).  \*for 8) and 9) use all TUs found for 1-7  \*8) Fetch current state of TU Header: Comment, Transponder, Owner, RFID, Block, Unblock  \*9) TU Changes Header: Comment, Transponder, Owner, RFID, Block, Unblock  \* YARD\_TU + CDHDR + CDPOS  ENDMETHOD.  ENDCLASS. |

Service Definition

|  |
| --- |
| @EndUserText.label: 'Service Definition for ZYL\_CE\_YLHIST'  **define** **service** ZYL\_SD\_YLHIST\_O4 **{**  **expose** ZYL\_CE\_YLHIST**;**  **}** |

Service Binding

A screenshot of a computer

Description automatically generated

/IWFND/V4\_ADMIN

A screenshot of a computer

Description automatically generated

/IWBEP/V4\_ADMIN

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Description automatically generated

Target mapping

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Description automatically generated

If want it dynamic with counter:

/sap/opu/odata4/sap/zyl\_sb\_alerts/srvd/sap/zyl\_sd\_alerts/0001/ZYL\_C\_ALERTS\_COUNTER/$count

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Description automatically generated

Fiori Tools:



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