**Abap & AMDP**

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### **Calling Stored Procedure from SAP ABAP Application**

<https://sapabapcentral.blogspot.com/2020/12/calling-stored-procedure-from-sap-abap.html>

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**Scenario**

For an InfoProvider [here is a Calculation View] the system generate tech name *2H\**.This is not a meaningful Information for a BW Developer and to find out the *actual name* of the CV leads to the below development.

### Solution

The generated name *2H\** is in ABAP layer metadata and the Actual CV Name is present in the HANA Metadata. Hence, we are looking for a solution which combines both ABAP and HANA to find the required meaningful information.

We end up creating a report in ABAP which inside looks in HANA database tables/views by calling a AMDP Script and HANA Stored Procedure.

For this solution a small set of development is required

1. A Stored Procedure to get the meta data information of CV.
2. An AMDP class with method to call the stored procedure.
3. ABAP program where user input the  system generate CV name /2H\*/ and gets the actual CV name.

Stored Procedure AMDP class ABAP program

*CV meta data information*

The Metadata of CV is present in the Schema  ***\_SYS\_BI*** view name “BIMC\_ALL\_CUBES”.

The below stored procedure will get the desired metadata information for all the CV present in the HANA system.

### Stored Procedure [to get the meta data information of CV]

*-- "\_SYS\_BIC". в начале имени процедуры обязательно – иначе AMDP класс ее не увидит*

create procedure "\_SYS\_BIC*"."EKIMENKO::clv\_tech\_name"* (

OUT tab\_out *table* (

"NAMESPACE" nvarchar(256),

"OBJECT\_NAME" nvarchar(512))

)

   LANGUAGE SQLSCRIPT

   SQL SECURITY INVOKER

   DEFAULT SCHEMA *\_SYS\_BIC*

   READS SQL DATA AS

BEGIN

   tab\_out = select CATALOG\_NAME as NAMESPACE, CUBE\_NAME  as OBJECT\_NAME

from "\_SYS\_BI"."BIMC\_ALL\_CUBES" ;

END

This above Stored procedure will be called into SE38 Program via AMDP class.

### Please find below SE38 ABAP program

ABAP program [where user input the  system generate CV name /2H\*/ and gets the actual CV name]

REPORT ***ZBW\_HCPR\_CLV***.

parameters: *p\_clv* type c length 30.

    types: begin of *l\_s\_objxref\_hana*,

*namespace* type c length 256,

*object\_name* type c length 512,

           end of l\_s\_objxref\_hana.

    data: *l\_t\_hana\_xref*  type *standard table of* l\_s\_objxref\_hana,

*ip\_name* type rsinfoprov.

field-symbols: <ls\_xref> *like line of* l\_t\_hana\_xref.

ZCL\_AMDP\_CLV=>CLV\_TECH\_NAME( importing out\_rows = *l\_t\_hana\_xref* ).

loop at *l\_t\_hana\_xref* assigning <ls\_xref>.

  call method cl\_rodps\_hana\_model=>hash\_odpname

    exporting

      i\_package = <ls\_xref>-namespace

      i\_name    = <ls\_xref>-object\_name

    receiving

      r\_odpname = *ip\_name* .

  concatenate '2H' ip\_name into ip\_name.

  if

    ip\_name = p\_clv.

    write: / <ls\_xref>-namespace, at 100 <ls\_xref>-object\_name.

  endif.

endloop.

### AMDP Class [with method to call the stored procedure]

Please see the below AMDP class, the generated code has been simply modified as below

class **zcl\_amdp\_clv** definition

  public

  final

  create public .

  public section.

  interfaces *if\_amdp\_marker\_hdb*.

types: begin of S\_ZBI\_CLV,

NAMESPACE type C length 256,

OBJECT\_NAME type C length 512,

end of S\_ZBI\_CLV ,

ZBI\_CLV type standard table of S\_ZBI\_CLV.

  class-methods ***CLV\_TECH\_NAME*** exporting *value*(out\_rows) type ZBI\_CLV.

  protected section.

  private section.

ENDCLASS.

CLASS **ZCL\_AMDP\_CLV** IMPLEMENTATION.

  method ***CLV\_TECH\_NAME***

BY *DATABASE PROCEDURE* FOR HDB

LANGUAGE SQLSCRIPT

OPTIONS READ-ONLY.

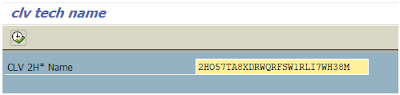
CALL "\_SYS\_BIC"."EKIMENKO::*clv\_tech\_name*"(:out\_rows);

  endmethod.

ENDCLASS.

### Results

**Input of the Program** User gives the CLV 2H\* Name

[](https://1.bp.blogspot.com/-HQTWg2MZsS4/X-guNaVPxpI/AAAAAAAAkIs/4vu3NIZli0A9MFIdKdiBOEp5_2VqQhi5gCLcBGAsYHQ/s499/2.png)

Input of Program

**Output of the Program** User gets the actual technical calculation view name.and the package name..

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Output of the Program

**Создание Stored Procedure**

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# Creating HANA Stored procedure and XS job to insert table records

https://blogs.sap.com/2016/10/20/creating-hana-stored-procedure-xs-job-insert-table-records/