

Getting the Next and Previous Record of ALV Table into Container Form Based on User Actions



Applies to:

Web Dynpro ABAP

Summary

This document explains how to get next record and previous record of ALV Table into the Container Form based on User Actions in Web Dynpro ABAP.

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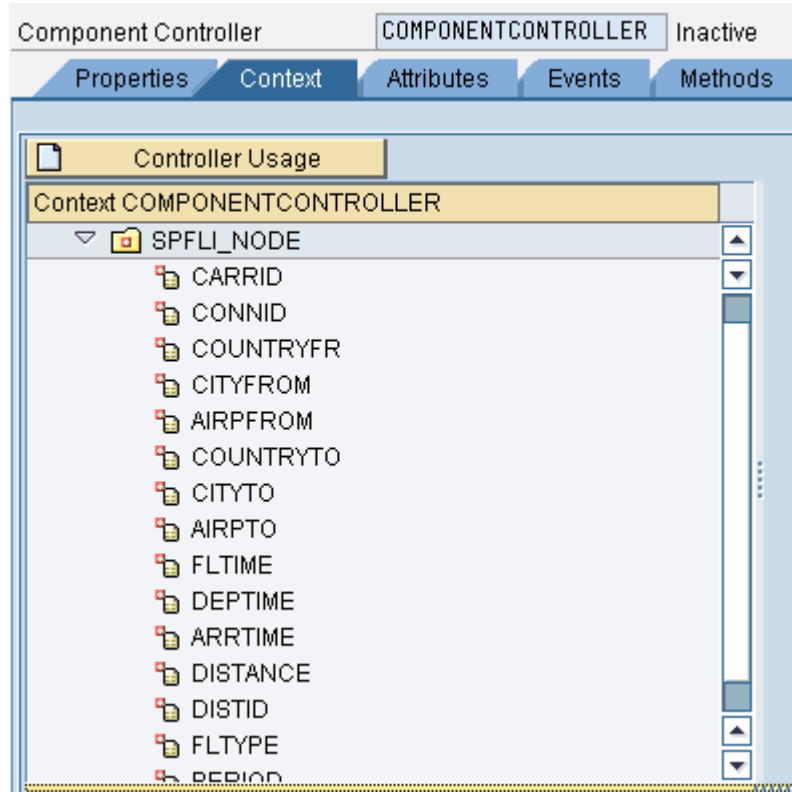
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Step 1: Create Web Dynpro Component

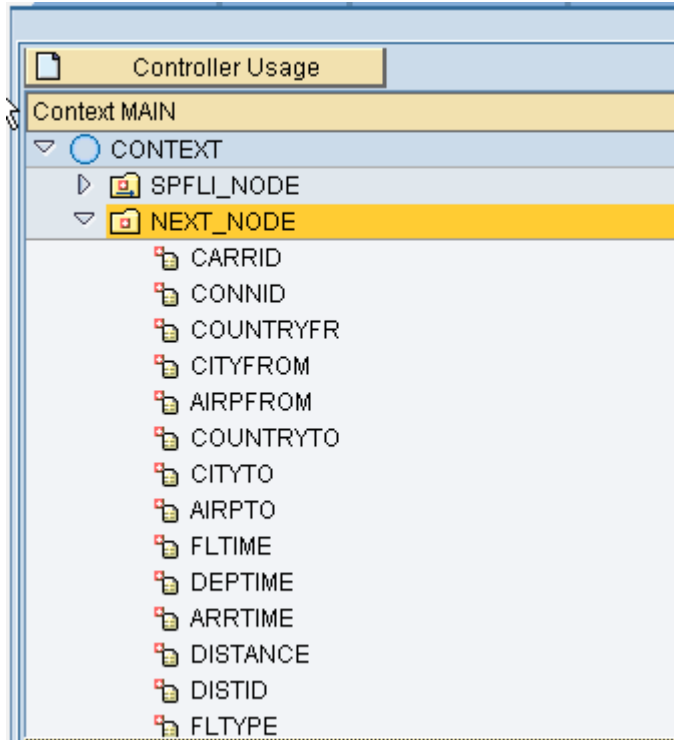
Create a Node in Component Controller named SPFLI_NODE with Cardinality 0..n



Step 2: Create Node at View Level and Map the Controller Context to View Context

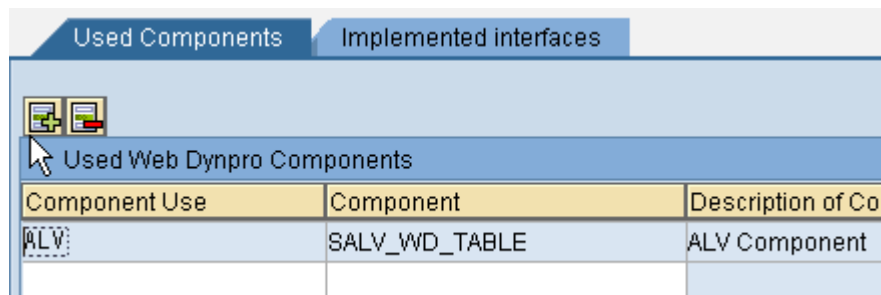
Create a node in main View named NEXT_NODE with Structure SPFLI and Cardinality: 1...n

Drag and Drop the Controller Context Node SPFLI_NODE to View Context



Step 3: Embed the Standard ALV Component to Used Components of Our Component

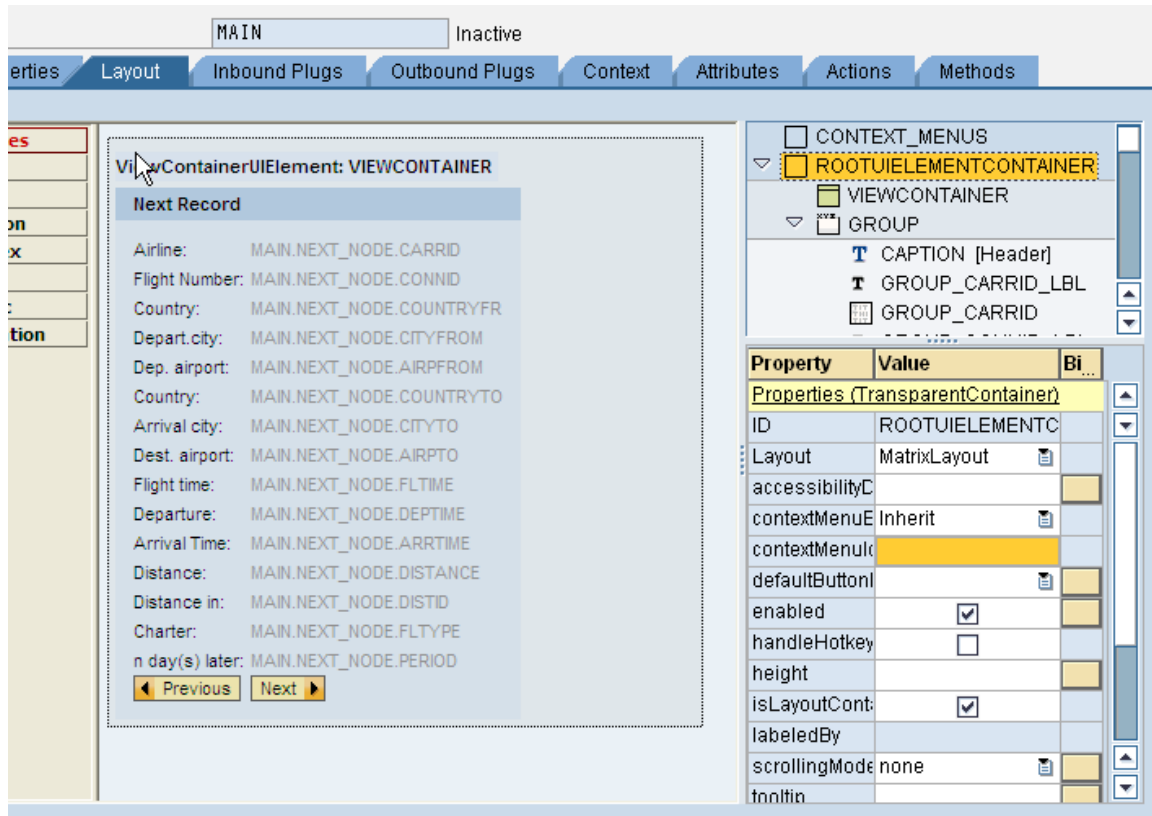
Create an ALV Component



Step 4: Design the Layout at View Level and Place the Code

Create:

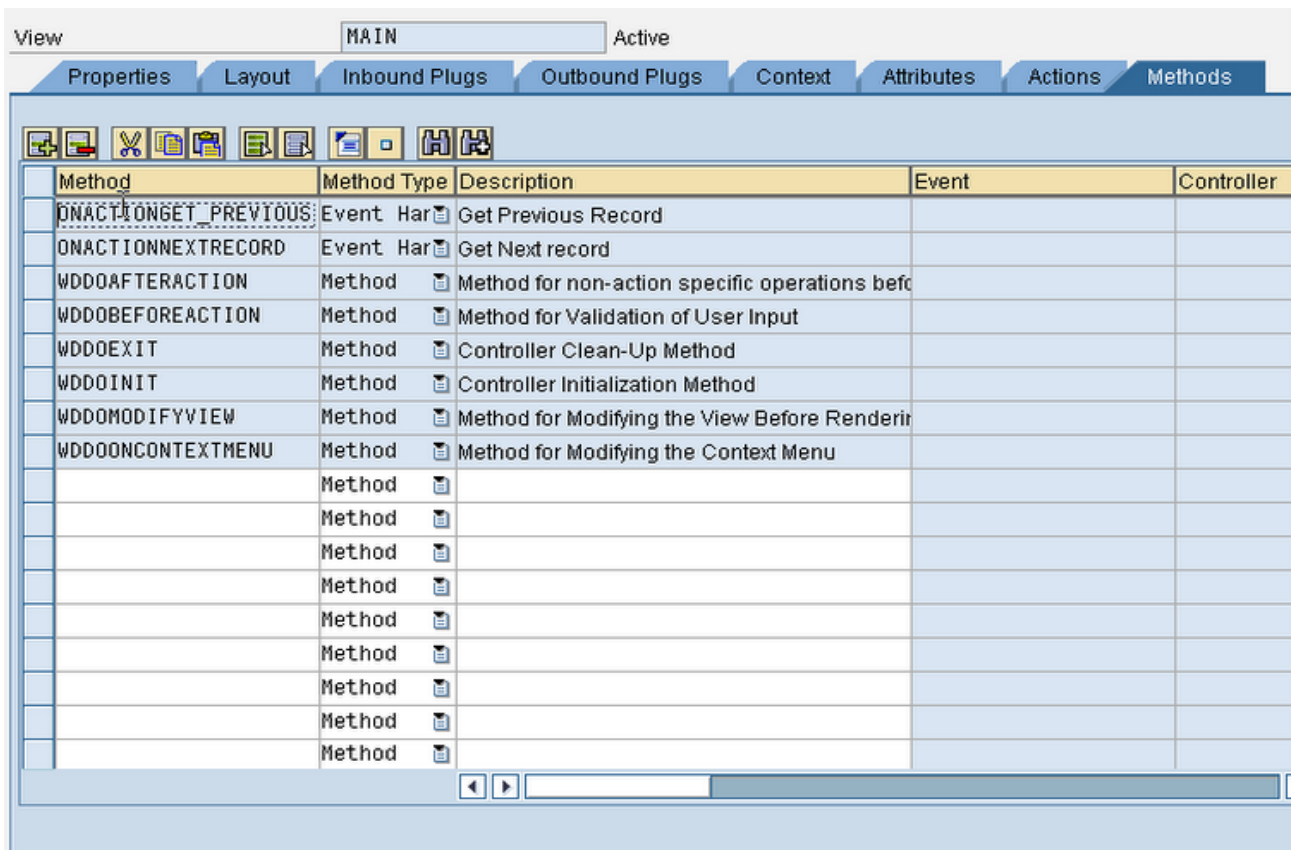
1. View Container UI Element in View Layout.
2. Group Element in View Layout.
3. Right Click on Group and create container form using node NEXT_NODE.
4. Create a buttons in Group and create an action NECTRECORD, GET_PREVIOUS to that buttons.
5. Design the Layout as follows:



6. Use the **ALV Controller** in **MAIN** View.

To do this go to Properties Tab and click on create controller usage Button and select as below.

Component Use	Component	View/Controller	Description
	YH1496_GETNEXTRECORD	MAINWINDOW	
ALV	SALV_WD_TABLE		ALV Component
ALV	SALV_WD_TABLE	INTERFACECONTROLLER	

7. Create two Actions like **Get_PREVIOUS** and **NEXTRECORD**

Paste the following Code in **ONACTIONNEXTRECORD** .

```

METHOD onactionnextrecord .

  DATA lo_nd_spfli_node TYPE REF TO if_wd_context_node.
  DATA lo_el_spfli_node TYPE REF TO if_wd_context_element.
  DATA ls_spfli_node TYPE wd_this->element_spfli_node.
  lo_nd_spfli_node = wd_context->get_child_node( name = wd_this-
>wdctx_spfli_node ).
  lo_el_spfli_node = lo_nd_spfli_node->get_element( ).
  CALL METHOD lo_nd_spfli_node->move_next
    RECEIVING
      new_lead_selection = lo_el_spfli_node.
  lo_el_spfli_node->get_static_attributes(
    IMPORTING
      static_attributes = ls_spfli_node ).
  DATA lo_nd_next_node TYPE REF TO if_wd_context_node.
  DATA lo_el_next_node TYPE REF TO if_wd_context_element.
  DATA ls_next_node TYPE wd_this->element_next_node.
  lo_nd_next_node = wd_context->get_child_node( name = wd_this-
>wdctx_next_node ).
  lo_el_next_node = lo_nd_next_node->get_element( ).
  lo_el_next_node->set_static_attributes(
    static_attributes = ls_spfli_node ).

ENDMETHOD.

```

Paste the following Code in **ONACTIONGET_PREVIOUS**.

```

METHOD onactionget_previous .
DATA lo_nd_spfli_node TYPE REF TO if_wd_context_node.
  DATA lo_el_spfli_node TYPE REF TO if_wd_context_element.
  DATA ls_spfli_node TYPE wd_this->element_spfli_node.
  lo_nd_spfli_node = wd_context->get_child_node( name = wd_this-
>wdctx_spfli_node ).
  lo_el_spfli_node = lo_nd_spfli_node->get_element( ).

  CALL METHOD lo_nd_spfli_node->move_previous
    RECEIVING
      new_lead_selection = lo_el_spfli_node.
  lo_el_spfli_node->get_static_attributes(
    IMPORTING
      static_attributes = ls_spfli_node ).

  DATA lo_nd_next_node TYPE REF TO if_wd_context_node.
  DATA lo_el_next_node TYPE REF TO if_wd_context_element.
  DATA ls_next_node TYPE wd_this->element_next_node.
  lo_nd_next_node = wd_context->get_child_node( name = wd_this-
>wdctx_next_node ).
  lo_el_next_node = lo_nd_next_node->get_element( ).
  lo_el_next_node->set_static_attributes(
    static_attributes = ls_spfli_node ).
ENDMETHOD.

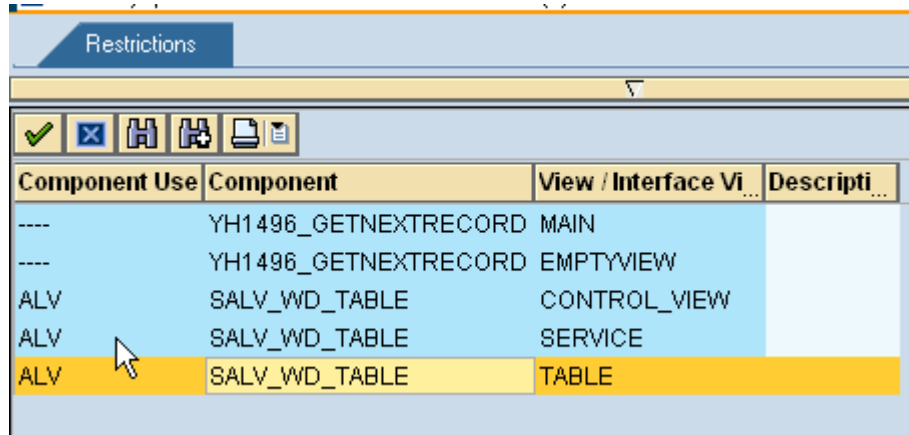
```

Step 5: Embed the view container UI Element at Window Level

Go to Windows and select Main window.

Right click on View Container which is in MAIN View and say EMBED VIEW.

Pop up is shown and select SALV_WD_TABLE.



Step 6: Paste the Code in Component Controller WDDOINIT() Method

```

DATA : t_spfli type TABLE OF spfli.

SELECT *
  FROM spfli
  into CORRESPONDING FIELDS OF TABLE t_spfli.

DATA lo_nd_spfli_node TYPE REF TO if_wd_context_node.

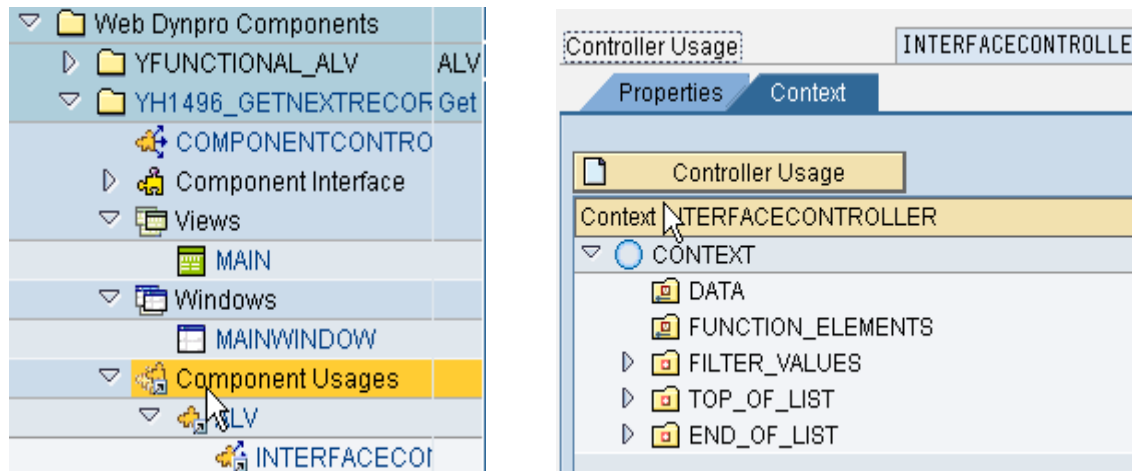
DATA lo_el_spfli_node TYPE REF TO if_wd_context_element.
DATA ls_spfli_node TYPE wd_this->element_spfli_node.

* navigate from <CONTEXT> to <SPFLI_NODE> via lead selection
lo_nd_spfli_node = wd_context->get_child_node( name = wd_this-
>wdctx_spfli_node ).
lo_nd_spfli_node->bind_table( t_spfli ).

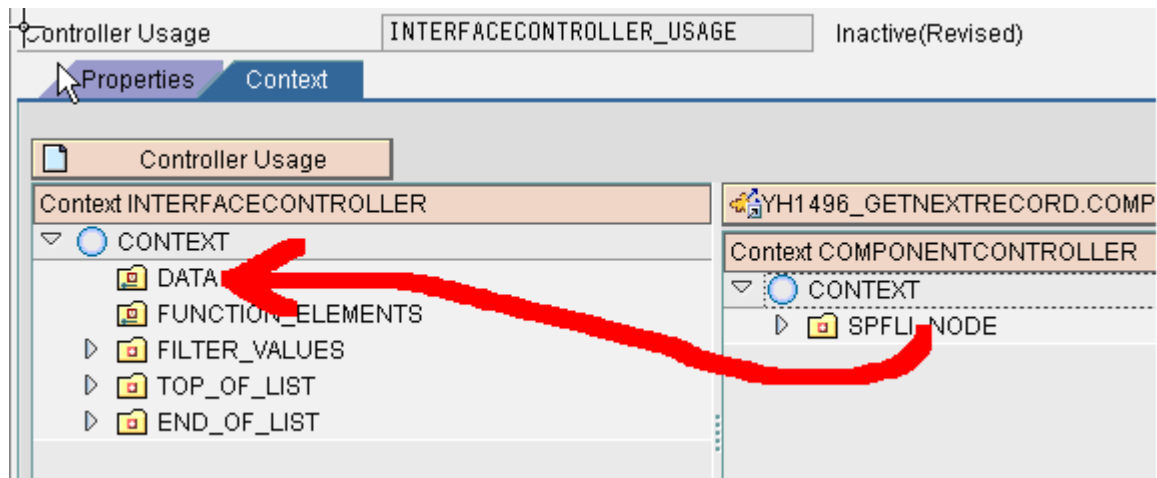
```

Step 7: Drag and Drop the Controller Context Node SPFLI_NODE to Interface Controller DATA Node

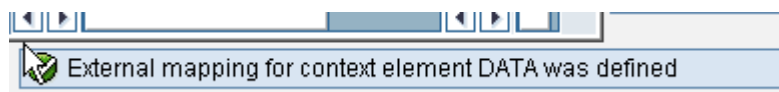
Go to Component Usages, Click on Controller Usage Shown on right hand side and select Component Controller.



Drag and Drop the SPFLI_NODE into DATA of INTERFACECONTROLLER.

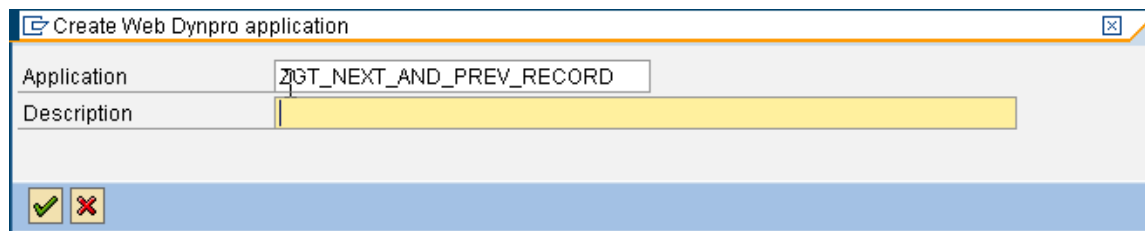


After Mapping U will get a message as below.



Step 8: Save and Activate the Web Dynpro Component and Create a Application

Create Application



Select Any Record on the Table and Click on Previous

http://yhsapr06.yhsap.com:8000/sap/bc/webdynpro/sap/zgt_next_and_prev_record?sap-language=EN - Windows Internet Explorer

http://yhsapr06.yhsap.com:8000/sap/bc/webdynpro/sap/zgt_next_and_prev_record?sap-language=EN

View [Standard View] Print Version Export

ID	No.	Cty	Depart. city	Airport	Cty	Arrival city	Apt	FlightTime	Depart	Arrival	Dist.	In	Charter	Arriv
AA	17	US	NEW YORK	JFK	US	SAN FRANCISCO	SFO	6:01	11:00:00	14:01:00	2,572	MI		
AA	64	US	SAN FRANCISCO	SFO	US	NEW YORK	JFK	5:21	09:00:00	17:21:00	2,572	MI		
AZ	555	IT	ROME	FCO	DE	FRANKFURT	FRA	2:05	19:00:00	21:05:00	845	MI		
AZ	788	IT	ROME	FCO	JP	TOKYO	TYO	12:55	12:00:00	08:55:00	6,130	MI		
AZ	789	JP	TOKYO	TYO	IT	ROME	FCO	15:40	11:45:00	19:25:00	6,130	MI		
AZ	790	IT	ROME	FCO	JP	OSAKA	KIX	13:35	10:35:00	08:10:00	6,030	MI	X	
DL	106	US	NEW YORK	JFK	DE	FRANKFURT	FRA	7:55	19:35:00	09:30:00	3,851	MI		
DL	1699	US	NEW YORK	JFK	US	SAN FRANCISCO	SFO	6:22	17:15:00	20:37:00	2,572	MI		
DL	1984	US	SAN FRANCISCO	SFO	US	NEW YORK	JFK	5:25	10:00:00	18:25:00	2,572	MI		
JL	407	JP	TOKYO	NRT	DE	FRANKFURT	FRA	12:05	13:30:00	17:35:00	9,100	KM		

Next Record

Airline: Flight Number: 0000
Country: Depart. city: Dep. airport: Country: Arrival city: Dest. airport: Flight time: 0:00
Departure: 00:00:00
Arrival Time: 00:00:00
Distance: 0,0000
Distance in: Charter: n day(s) later: 0

The below Screen Shot gets the Previous Record of Current Selected Record into the Container Form And on Click on Next it gets the Next Record of the Current Selected Record into the Container Form

http://yhsapr06.yhsap.com:8000/sap/bc/webdynpro/sap/zgt_next_and_prev_record?sap-language=EN - Windows Internet Explorer

http://yhsapr06.yhsap.com:8000/sap/bc/webdynpro/sap/zgt_next_and_prev_record?sap-language=EN

View [Standard View] Print Version Export

ID	No.	Cty	Depart. city	Airport	Cty	Arrival city	Apt	FlightTime	Depart	Arrival	Dist.	In	Charter	Arriv
AA	17	US	NEW YORK	JFK	US	SAN FRANCISCO	SFO	6:01	11:00:00	14:01:00	2,572	MI		
AA	64	US	SAN FRANCISCO	SFO	US	NEW YORK	JFK	5:21	09:00:00	17:21:00	2,572	MI		
AZ	555	IT	ROME	FCO	DE	FRANKFURT	FRA	2:05	19:00:00	21:05:00	845	MI		
AZ	788	IT	ROME	FCO	JP	TOKYO	TYO	12:55	12:00:00	08:55:00	6,130	MI		
AZ	789	JP	TOKYO	TYO	IT	ROME	FCO	15:40	11:45:00	19:25:00	6,130	MI		
AZ	790	IT	ROME	FCO	JP	OSAKA	KIX	13:35	10:35:00	08:10:00	6,030	MI	X	
DL	106	US	NEW YORK	JFK	DE	FRANKFURT	FRA	7:55	19:35:00	09:30:00	3,851	MI		
DL	1699	US	NEW YORK	JFK	US	SAN FRANCISCO	SFO	6:22	17:15:00	20:37:00	2,572	MI		
DL	1984	US	SAN FRANCISCO	SFO	US	NEW YORK	JFK	5:25	10:00:00	18:25:00	2,572	MI		
JL	407	JP	TOKYO	NRT	DE	FRANKFURT	FRA	12:05	13:30:00	17:35:00	9,100	KM		

Next Record

Airline: AZ
Flight Number: 0788
Country: IT
Depart. city: ROME
Dep. airport: FCO
Country: JP
Arrival city: TOKYO
Dest. airport: TYO
Flight time: 12:55
Departure: 12:00:00
Arrival Time: 08:55:00
Distance: 6,130
Distance in: MI
Charter: n day(s) later: 1
Previous Next

The screenshot shows a web browser window displaying an SAP ALV table. The table contains flight records with columns: ID, No., City, Depart. city, Airport, Cty, Arrival city, Apt, FlightTime, Depart, Arrival, Dist., In, Charter, and Arriv. The record for AZ 789 is highlighted in yellow. Below the table, a 'Next Record' panel displays the following details:

- Airline: AZ
- Flight Number: 0789
- Country: JP
- Depart. city: TOKYO
- Dep. airport: TYO
- Country: IT
- Arrival city: ROME
- Dest. airport: FCO
- Flight time: 15:40
- Departure: 11:45:00
- Arrival Time: 19:25:00
- Distance: 6.130
- Distance in: MI
- Charter:
- n day(s) later: 0

Navigation buttons for 'Previous' and 'Next' are visible at the bottom of the 'Next Record' panel.

Related Content

[Web Dynpro ABAP Homepage](#)

[Web Dynpro ABAP Wiki's](#)

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