

HOW TO USE THE SERIALIZED DATA STRUCTURE IN K2 SMARTFORMS

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INTRODUCTION

The example below will give an in depth explanation on how to use serialized data structures. For more information on the Serialize and Deserialize functionality in K2 connect for SAP, refer to <u>KB000712 – How to use the Serialize and Deserialize functionality for Data</u> <u>Structures in K2 connect for SAP</u>.

EXAMPLE

In SmartForms we will create a Form that will display the data returned from the Serialized Customer BAPI.

- 1. From K2 Designer for Visual Studio, create a new empty K2 project.
- 2. Add a K2 connect Service Object to the project.
- 3. Open the **K2 Service Object Designer** from the View menu.
- 4. Click on **Add Service**.
- 5. Add the **BAPI_CUSTOMER_GETLIST** filter to the BAPI Explorer.
- 6. Drag the filter to the new service as per the image below.

Customer Service Object.svd* 🖙 🗙	· · · · · · · · · · · · · · · · · · ·	K2 Service Object Designer	- 🕂 🛨 🗸
K2 Service Object Designer	🥞 Publish Service Object	🌣 @ 🍕 🚊	3.
Customer Service Object	🕈 Show Documentation 🛛 🖉 Add Service	Bevelopment kit SAP 46 SAP 5A SAPSA SAPSA SAPSA SAPLEMPLOYEE_GETDA SAPLEMPLOYEE_GETDA SAPLEMPLOYEE_GETDA SAPLEMPLOYEE_GETDA SAPLEMPLOYEE_GETDA SAPLEMPLOYEE_GETDA SAPLEMPLOYEE_GETDA	ITA TDATA T ST
		Business Objects Service Object Repositories Default - DLX	

- 7. Click on the Service Method to open the Method Designer.
- 8. Click on the **IDRange** field and click on **Show Structure**.
- 9. Enable the **XML Property**. See image below.

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K2 Service	Object Designer		🥞 Publish Service Object
🔩 Customer Se	rvice Object		
Service1			🗲 Go Back 🛛 🗲 Function Interface
Function Name:	BAPICUSTOMER_IDRANGE		
Original Name:	BAPICUSTOMER_IDRANGE		
XML Property:			
Structure Dec	aration		8
	Select All Clear All		
Friendly name	Name	Туре	
HIGH	HIGH	System.String	
LOW	LOW	System.String	
OPTION	OPTION	System.String	
SIGN	SIGN	System.String	

- 10. Publish the Service Object.
- 11. We now need to create a **SmartObject** to interact with the **Form** that will be designed later on.
- 12. Open the SmartForms **K2 Designer** from the **Start** menu.

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13. Right click on All Items and select **New Category**.



- 14. Name the Category **CustomerDetail**.
- 15. Right click on the new category and select **New SmartObject**. Name the SmartObject **GetCustomerDetail**. Select the **Advanced SmartObject** option.



K2* DESIGNER	Welcome Administrator
K2 Designer 4	SmartObject Designer (GetCustomerDetail) > Details
Search:	Introduction Details Define Properties & Methods Configure Associations (Optional) Finished Name: GetCustomerDetail Description: Type a description for this SmartObject Category: CustomerDetail Type: SmartObject Create a SmartObject Create a SmartObject Create a SmartObject Create a SmartObject Service. Workflow Use: Allow this SmartObject to be used in Workflows
Show: <u>Categories</u>	Back Next Finish Cancel

- 16. Click Next.
- 17. Add a Property of type **Memo** to map to the **IDRange** Service Object property further down in the steps. Name the Property **CustomerSerializedItem**.
- 18. Select the **Methods** tab and click on Add.



- 19. We need to add methods to build a serialized object to be used in the Form.
- 20. Add the Serialize method by expanding the Connect Service down to the Service Object previously created.



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Add SmartObject (GetCustomerDetail) method > Select a ServiceObject method				
Select a ServiceObject method Select a ServiceObject method	bindings	Service	Object method b	indings
Choose a ServiceObject method to map to a SmartObject method				
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🗄 🕞 Exchange Administration				
🗄 🕞 Exchange Management				
🗄 🕞 K2 Generic Settings Service				
🗄 🕞 SmartObject Service Functions				
🗄 🕞 PDF Converter				
🗆 🔚 Connect Service for DLX				
🗄 🛅 Connect Objects				
🗆 🛅 Object Types				
🗄 🛅 svcCustomerGetDetail				
🗉 🛅 CustomerServiceObject				
🗉 🎒 CustomerServiceObject IDRANGE				
🏠 Serialize				
👘 Deserialize				
👘 Serialize Add Item To Array				
🍙 Deserialize Array				
👘 Deserialize Typed Array				•
	() B	ack N	lext Finish	Cancel

- 21. Click Next.
- 22. Select type List for the Method Details and add the following parameters. These parameters are used to build the serialized object.

Parameter Name	Parameter Type
HIGH	Text
LOW	Text
SIGN	Text
OPTION	Text
p_CPDONLY	Text
p_MAXROWS	Number

Add SmartObject (GetC	stomer) method > Method details			
Select a ServiceObject	method 🛛 😝 Method details 🛛 🖨 Default :	ServiceObject method bindings	ServiceObject method bi	indings
Method Details				
Name:	Serialize			
Description:	Type a description for this Method			
Type:	🛱 List			•
Type.	Default list method			
Transaction:	Continue			-
Configure ServiceObje	method parameters			
🕂 Add 📝 Edit 🔞 Re	iove 👩 Remove All			
Parameter name	Parameter description		Parameter type	
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egy Low	Add Parameters		A lext	
백명 Sign	PROFER P. GR. GROOMEDIECS		A Text	
鸣 Option			A Text	
吵 p CPDONLY			A Text	•
		() E	Back Next Finish	Cancel



- 23. Click Next.
- 24. Select the SIGN input property and click on Assign.
- 25. Click on the dropdown next to Map to and select SmartObject Method Parameter.



- 26. Click on the dropdown next to Parameter and select the SIGN parameter created in step 19.
- 27. Click OK.
- 28. Do the same for all the Input Properties.
- 29. Select the Return Property and click Assign.
- 30. Select the CustomerSerializedItem SmartObject Property created in step 16. Click Ok.

Edit ServiceObject method bindings (Connect Service for DLX.CustomerServiceObject IDRANGE.Serialize) ServiceObject method: Connect Service for DLX.CustomerServiceObject IDRANGE.Serialize Assign Cear All Input property name Type Required Bound to SIGN Text No Parameter : SIGN Text No Parameter : OPTION A Text No Parameter : OPTION ServiceObject method: Connect Service for DLX.CustomerServiceObject IDRANGE.Serialize Map ServiceObject Property (Serialized Item (IDRANGE)) ServiceObject method: Connect Service for DLX.CustomerServiceObject IDRANGE.Serialize Map to: SmartObject property SmartObject property: CustomerSerializedItem Return propert () Create (IDRANGE) Memo	it SmartObject (GetCustor	nerDetail) method :	> ServiceObjec	t method bindings	
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SmartObject property: CustomerSerializedItem Return propert (i) Create OK Cancel	Map to:	🛅 Sr	nartObject prope	erty 💌	
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				ОК	Cancel
ОК Салсе				Back Next L	inish II Cano

31. Click Next.



- 32. We now need to configure the BAPI_CUSTOMER_GETLIST Service Object method to return the serialized data to the Form.
- 33. Click Add to add Service Object Method Bindings.
- 34. Click on the ellipses next to Service Object Method.
- 35. Expand the **Connect Service** node.
- 36. Expand the **Connect Objects** node down to the **BAPI_CUSTOMER_GETLIST** Service Object method. Select the method and click OK.
- 37. From the Input Properties, scroll down to the **IDRange** Property and click Assign.
- 38. Select the SmartObject property created in step 16 to map to the **IDRange** Input Property.
- 39. Assign the two required Input Properties to the related SmartObject method parameters created in step 20.

				1
ServiceObject method: Connec	t Service for DL	CustomerSer	viceObject.BAPI_CUSTOMER_GETLIST	
🔂 Assign 🛛 🔯 Clear 🛛 🗭 Clear A	📶 🚰 Auto Map	🛛 👫 Create A		
input property name	Туре	Required	Bound to	
p_CPDONLY	A Text	Yes	Parameter : p_CPDONLY	
p_MAXROWS	# Number	Yes	Parameter : p_MaxRows	
🚳 ADDRESSDATA_CUSTOMER	A Text	No		
🚳 ADDRESSDATA_SORT1	A Text	No		
🚳 ADDRESSDATA_NAME	A Text	No		
	Ture		Devend to	
Return property name	Туре		Bound to	
ADDRESSDATA_CUSTOMER	A Text			
💐 ADDRESSDATA_SORT1	A Text			
🚳 ADDRESSDATA_NAME	A Text			
🚳 ADDRESSDATA_COUNTRY	A Text			
	A Tavt			

40. Assign the Input and Return Properties you require by creating new SmartObject properties for each.



K2* DESIGNER	Welcome	Administrator
K2 Designer	SmartObject Designer (GetCustomerInfo) > Define Properties & Methods	
ServiceObject Explorer	🔵 Introduction 🛛 Details 🔵 Define Properties & Methods 📄 Configure Associations (Optional) 🔵 Fi	nished
🖃 👩 Servi Add SmartObject (GetCust	comerInfo) method (Serialize) > ServiceObject method bindings	K
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E Sr Sr ServiceObject method:	Connect Service for DLX.CustomerServiceObject.BAPI_CUSTOMER_GETLIST	
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	U OK Cancel	F
	U Back Next Finish Cancel	
K2 Designer		Ŧ
	() 🛃 Back Next Fin	ish Cancel

- 41. For this example we will only create properties for the following Input and Return properties:
 - ADDRESSDATA_CUSTOMER
 - ADDRESSDATA_NAME
 - ADDRESSDATA_COUNTRY
 - ADDRESSDATA_CITY
 - ADDRESSDATA_POSTL_COD1
 - ADDRESSDATA_TEL1_NUMBER
- 42. Click OK and click Finish.
- 43. The SmartObject method must be the same as the image below. This method will now build a serialized object for the Form controls that will be added further down in this example. The serialize data will then be returned when executing the Form. This is all configured on the Serialized SmartObject method and will allow you to only use 1 method when designing the Form.

SmartObject Designer (GetCustomerDetail) > Define Prope	erties & Methods	
Introduction Details Optime Properties & Methods	Configure Associations (Optional)	
📸 Properties 🔛 Methods		
🔛 Add 🛛 🍞 Edit 🔞 Remove 🔞 Remove All		
Name	Method Bindings	Service
P Serialize	CustomerServiceObject IDRANGE : Serialize	Connect Service for DLX
	CustomerServiceObject : BAPI_CUSTOMER_GETLIST	Connect Service for DLX

- 44. Click Finish.
- 45. Right click on the **GetCustomerDetail** SmartObject from the Category tree and select **Design a View**. Selecting the View to be a **List View**.



View Designer :	> Details
Introduction	曼 Details 🛛 🔵 Settings 🕘 Layout 🕘 Parameters 🕘 Rules 🕘 Finished
Name:	View Customer Detail
Description:	Type a description for this View
Category:	CustomerDetail
Category	Check In this View when it is saved.
Mary Trees	
view Type:	Used to capture information.
	Used to display lists of information.

- 46. Click Next.
- 47. Select Generate View from the selected Data Source and include all fields. The fields are the SmartObject properties.
- 48. Click Next.
- 49. On the **Layout** you can change the column heading names by selecting a column, click on the **Header** tab under **Properties** and edit the header **text**.



- 50. Click Finish.
- 51. Right click on the View from the Category tree and select **Design Form**.
- 52. Click Next.
- 53. Name the Form Customer Form and click Next.
- 54. Drag a **Table** control above the existing **List View** on the Form.
- 55. Configure the table with 2 columns and 6 rows.
- 56. Drag a **Data Label** control in the first 5 rows of column one. Rename the data labels.
- 57. Drag a Text Box control in the first 5 rows of the second column.
- 58. Drag a **Button** control to the last row of the second column and rename the button to **Execute**.



K2* DESIGNER		Welcome Administrator
K2 Designer 4	Form Designer (Customer Form) > Layout	
Search: 💿 🔎 🗙	Introduction Details Layout Parameters Rules Finished	
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🖻 🛅 All Items		hi Data Label
Active Directory	High: Type a value	B Hyperlink
CustomerDetail Tim View Customer Detail	Low: Data Label Controls Text-Box Controls	★ Rating Slider
Exchange	Ontion	E Text Area
🗄 🚞 System	lype a value	A Text Box
Task Allocation	Sign: Type a value	Button
Workflow Notifications	Max Rows: Type a value	E Layout
🗄 🛅 Workflow Reports	Execute Button Control	Table
🗉 🕒 Recent Items		Save As PDF
	(Enter View Title) View Customer Detail	Context 🙀 Controls
	Selected Filter:	Properties
	Custo ADDR SPECI S.	Detail
	No items to display.	Name DLHigh
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		Visible 🗸
		Enabled 🗸
Show: Views		Wrap Text
K2 Designer		Properties 📑 Rules
		🚺 📝 Back Next Finish Cancel

- 59. Click Next and Next again to go to the Rules section.
- 60. Add a new rule.
- 61. Select the When a control on the Form raises an event from Events.
- 62. Select the **Execute** button as the control in the rule definition and ensure the event is set to **Clicked**.
- 63. Select Actions and add the Execute a View Method action.
- 64. In the rule definition select the **View** to be executed and select the **Serialize** method.
- 65. Click on configure.
- 66. On the Input Mappings screen, drag the textbox controls to the relevant parameters.

K2* DESIGNER			Weld	come Administrato					
K2 Designer	∢ Form Designer (Customer Form)	rm) > Rules							
Search: 💌	On GetCustomerDetail SmartObject, Execute its 9	Serialize Method							
🗏 🔲 K2 Designer	😝 Input Mappings 🔘 Filter 🕘 Output Mappings	Sort							
🗄 🤱 My Items	ems 🖉 Auto Map 🛞 Clear All 🗙 Clear Selected								
E C Active E	Mapping Destinations	Context Browser							
🗆 🗁 Custom	GetCustomerDetail	<u>*</u>	🗄 🛅 System Values						
🗉 📄 GetC	Parameters		Environment Fields Gustomer Form						
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	ADDRESSDATA_CUSTOMER	Type or Drop an item	txtSign DLBows						
	ADDRESSDATA_SORT1	Type or Drop an item	I 🖾 txtRows						
	ADDRESSDATA_NAME	Type or Drop an item	ExecuteBtn						
	ADDRESSDATA_COUNTRY	Type or Drop an item	I View Customer Detail						
	ADDRESSDATA_COUNTRYISO	Type or Drop an Item							
	ADDRESSDATA_CITY	Type or Drop an item							
	ADDRESSDATA_POSTL_COD1	Type or Drop an item							
	ADDRESSDATA_REGION	Type or Drop an item							
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K2 Designer									
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67. Click on the Output Mappings and click on Auto Map.



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K2 Designer	↓ Form Designer (Culture)	istomer Form) > Rules				
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E K2 Decise	🕒 Input Mappings 🔘 Filter 📦 Output Mappings 📦 Sort					
E & My I	🚰 Auto Map 💦 Clear All 🛛 🗙 Clear Select					
🗆 📂 All Item	Mapping Destinations			Context Browser		
🗄 🚞 Activ	🖻 🥅 Customer Form	-	<u> </u>	🗉 🛅 View Customer Detail		
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± 📷 C	🗉 📩 View Customer Detail			🖻 🛅 Methods	etail	
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🗄 🚞 Task				ADDRESSDATA_NAME		
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🗄 🚞 Worl	ADDRESSDATA_NAME	ADDRESSDATA_NAME		A ADDRESSDATA_CITY		
H 🕒 Recent	ADDRESSDATA_COUNT	ADDRESSDATA_COUNTRY				
Co Procent	A ADDRESSDATA_CITY	ADDRESSDATA_CITY		A ADDRESSDATA_REGION		
	ADDRESSDATA_POSTL_	ADDRESSDATA_POSTL_COD1				
	ADDRESSDATA_REGION	ADDRESSDATA_REGION				
	ADDRESSDATA_TEL1_N	ADDRESSDATA_TEL1_NUMBR				
			•			
Show: (All)				Back Next Finish Cancel		
K2 Designer						
				🛈 🔚 Back Next	Finish Cancel	

- 68. Click Finish.
- 69. Click Finish on the rule.
- 70. Finish the Form.
- 71. Right click on the Form from the Category tree and select **Run**.
- 72. Enter the values in the text boxes as per the image below.

K2* DESIGNER	Welcome Adm	ninistrator
K2 Designer 4	🔲 Customer Form	
Search:	High: 999999999999999999999999999999999999	

- 73. Click on Execute.
- 74. When clicking on Execute, the data from the Customer BAPI is built as a Serialized Object. This allows the data to return as seen below.

HOW TO USE THE SERIALIZED DATA STRUCTURE IN K2 SMARTFORMS

K2* DESIGNER							Welcome Administrator
K2 Designer 4	Customer Form						
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🖲 🤷 Recent Items	0000000110 000000224 000000255 000000256 000000257 000000258	Auto Klement Reference fo Emma Bull Kenny A Ch John Evans Roger Zahn	DE US US US US US	München Los Angeles Denver Boulder Nederland Albuquerque	81737 90025 80216 80303 80466 87123	089/93534 303-297-4558 3034493800 3032889463 505-292-7426	
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