ROSS

DataLinq information from DashBoard to XPression

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This application note describes the steps to pass information from DashBoard to an XPression graphic using DataLinq. Note that this leverages the DashBoard panel created in the Creating an XPN Take ID using Visual Logic Application Note as that created a DashBoard panel with parameters that are passed from DashBoard to XPression using the information below.

DashBoard Set Up

- 1) Open the DashBoard custom panel
- 2) Enter PanelBuilder Edit Mode by pressing the button in the top bar or pressing CTL+G
- 3) Double click on the DashBoard screen to see the Edit Component: <abs>
 - a) Navigate to the top of the code to the Abs on the left side and select that
 - b) In the Abs Attributes tab on the right have a check mark beside the Enable Streaming beside the XPression DashBoard Linq port. Note the port that is indicated.

Abs Attributes Style	S	Source
Name:	×	
ID:	×	
Virtual Width:	×	2,459 💭 🗸 Override Default
Virtual Height:	×	1,436 💭 🖌 Override Default
		Perserve Aspect Ratio
NK Series Routers:		Configure
openGear or XPression DataLing:		🖌 🌣 configure
		Internal Data Source
XPression DashBoard Ling port:	×	2,222 💭 🖌 Enable Streaming 🔮
Internal RossTalk GPI Listener:	×	
VDCP Task Server Port:	×	
HTTP Trigger Server Port:	×	
		Lock Contents (widget root)
Scrolling:	×	Y

DataLinq Set Up

4) Start DataLing and press the Add New... button and select a DashBoard DataLing Source from the Add DataLing Source pop up. Note the port at the name of the XPression DataLing Server at the top of DataLing

XPression DataLing Server [port	8888] -	v7.1 build 3873				_	\times
File Windows					_		
- DataLing Sources	📔 Ac	ld DataLing Source		\times			
# Name Desc	r Selec	t DataLing Source					
	#	Name	Description				
	6	Daktronics DataLing Source	Provides access to Daktronics data sources.	^			
	7	Daktronics RTD DataLing	Provides access to streamed Daktronics RTD data so				
	8	DashBoard DataLing Source	Provides access to data from a DashBoard Server.	_			
	9	Electro-Mech Scoreboards	Provides access to Electro-Mech Scoreboards data s				
	10	Excel DataLing Source	Provides access to Excel sheets (requires Excel to be				
	11	GSIS DataLing Source	Provides access to data from the GSIS network.				
	12	JSON DataLing Source	Provides access to JSON data files.				
	13	OES Scoreboards DataLin	Provides access to OES Scoreboards data sources.				
	14	RSS Feed DataLing Source	Provides access to data from standard RSS feeds.	~			
			QK Cance	:			
Add New Configure	rowse	Delete					

XPression Set Up

- 5) Open an XPression project and navigate to Edit/Hardware Setup... in the menu
 - a) Go to the GPI Boards tab and press Add...
 - b) From the drop down list choose Smart GPI/RossTalk

F	lardwa	are Setup									\times
	Inpu	ts / Outputs	Audio Devices	Timecode	Sources	Preview & I	Monitor	GPI Boards	Camera Tracking	Server Channels	1
	Nr.	Brand		Туре	Inputs	Outputs	State	e Last F	Result		
1											
I											
ł											
l.				Add N	lew GPI Bo	oard			×		
\$						_		_			
1				E	Brand: Sn	nart GPI / Ros	ssTalk		-		
1											
1								<u>о</u> к	Cancel		
c											
I											
÷											
,				- 1 -							
ŝ			onfigure	Delete							
3											Close



c) Check the TCP option for the Settings Mode: and set Incoming Network Settings to TCP Port: 7788

Smart GPI / RossTalk Setup	×
State: Enabled Mo	de: ○ Serial RS232 ③ TCP ○ UDP
Port: Comport 1	TCP Port: 7788
Baudrate: 9600 🔻	Outgoing Network Settings
Parity: None 🔻	TCP Port: 7788
Flow Control: Hardware	<u>Q</u> K <u>C</u> ancel

- 6) In the XPression menu go to Project/DataLing Manager
 - a) Press Add to see the DataLing Server Properties pop up. Enter a name for the DataLing server, the IP address of DataLing and enter the port as identified at the top of the DataLing pop up noted from step 4 (8888 by default)

API	ession	DataLing	ivianager	

DataLing Servers						
ID Name	Host Address	Port	Sources	Status	Last Result	
	DataLinq Server - Properties				×	
Add	Server Properties			_		
Available DataLinq Sources	Name: LingServer1]			
ID Name	Host Address: localhost					
	Port: 8888	•				
			(<u>o</u> k	<u>C</u> ancel	



- 7) Optional: To view the graphic on a Virtual Channel go to Edit/Hardware Setup...
 - a) Go to the Inputs / Outputs tab and press Add...
 - b) From the drop down list choose XPression Virtual Output

Inputs / Outputs	Audio Device	s Timecode Sources	Preview 8	& Monitor	GPI Boards	Camera Trackin	g Server Channels	
Description		Name	State	Status			Audio Device	Last
- 🕮 Virtual Out	put		Initialized					
Output			Initialized				<none></none>	
	A	dd New FrameBuffer B	oard			X		
						_		
		Brand: XPression Vi	rtual Output	t		-		
				ОК	Car	ncel		
▲								
Linked Audio Outp	out Device				- Optio	ins		
Device: <default< td=""><td>></td><td></td><td></td><td></td><td>7</td><td></td><td></td><td></td></default<>	>				7			
Automatic Up/Dov	vn Conversion							
				_	Ţ.			
Down. Oddeeze								
Add	onfigure)	Delete					Move Down	宁 Move Up
								Close

8) Add a Text base object on the XPression Layout Scene in the Main Viewport

Main Viev	vport (Front)					
Camera	View	Window		III 🗾	🭕 Zoom:	To Fit	-
0		640	960	1	1600	1920	
108							
						600	
		This i	s some t	ext		888	
						999	
54						888	
			•			898	
27(888	
							-

a) Select the text that was added and go to the Data Source tab in the Object Inspector at the bottom of the screen and choose DataLing as the Select Data Source area





b) Press the Set... button to bring up a Set DataLing Properties pop up. Choose the DataLing server set up in step 4 in the DataLing drop down list

S	et DataLing Properties
ſ	
	Column:
	<u>R</u> ow:
	Table:
	<n> Increment: 0 I Live Update I Entity Decoding</n>
	Return Empty on Failure
	Disable Font Tag Parser
	<u>O</u> K <u>C</u> ancel

c) Press the Browse... button to see a pop up list of all parameters passed from the DashBoard panel. Choose the cell in the Value column

Ň	Select DataLing Field —									
- Sele	Selection									
Col	Column: Value									
i i	Row: OID:XPNTK1									
- Dat										
	Item	Value	Numeric	OID						
1	num1	10	- Harrierie	num1						
	VENITE	10 20 30 1		VDNITD						
-	VDNTKA	10.20.30.1		VENTER				- 11		
3	APINIKI	4		APINIKI				_		
4	XPNTK2	7		XPNTK2						
5	XPNValue	Stuff		XPNValue				_		

Testing connection from DashBoard to XPression

9) Go to the DashBoard panel and change the value to see if change on the XPression graphic

