069.mapp View中VNCViewer使用Demo

• 任务内容

任务内容

基于 VC4 4.72.9, mapp View 5.21.0, mapp Services 5.21.0 版本, AS 4.10, 在 mapp View 画面中增加 VNC Viewer 控件。(路径 Logical\mappView\Visualization\Pages\AreaContents\Content.content)



需要对 VNCViewer 控件做端口配置,点击 Content. content 中的 VncViewer 1 控件, 在其属性窗口中,例如,如根据仿真模式,需要将 host 设置为 127.0.0.1, port 设置为 5900。或者根据需求将变量作为 Binding 值进行绑定,其中 host 为 string 类型数据, port 为 uint 数据。

Vn	cViewer1 - widgets.brease.Vn	cViewer	~
•	ੈ‡↓ 🙉 🗡 🗲 ≓		
	borderColor	rgba(0, 0, 0, 1)	~
	borderStyle	none	
	borderWidth	Орх	
	controlBarBackColor	rgba(241, 241, 241, 1)	
	controlBarBorderColor	rgba(0, 0, 0, 1)	
	controlBarBorderStyle	none	
	controlBarBorderWidth	0px	
	controlBarCornerRadius	0px	
	controlBarHeight	50	
	cornerRadius	0px	
	opacity	100%	
	shadow	none	
>	style	default;	
	tooltip		
v	Behavior		
>	autoConnect	true;	
>	enable	true;	
	showControlBar	true	
	tabIndex	-1	
>	visible	true;	
v	Common		
	Name	VncViewer1	
	Туре	widgets.brease.VncViewer	
v	Data		
>	host	127.0.0.1;	
>	password	:	
>	port	5900;	
v	Layout		
	margin	0px	
>	Position	20: 160	
>	Size	1400: 720: 0: 0: 0: 0	~
au If 1	toConnect	onnect inmediatly after initialization	

autoconnect 属性若打开,则需要根据情况,配置密码,若 autoconnect 属性关闭,则 需要在下图mapp View 窗口红色框中输入相应的密码。

64 Visualization	vis_0 ×	+						~	-	٥	×
\leftrightarrow \rightarrow G	① 127.0.0.1:81										:
Username											
Password]									
	Login]									
			Server			127.0.0.1					
			Genter.			127.0.0.1					
			Port:			5900					
			Password:								
				Con	nect						

建立 VC4 画面,增加如下示例控件(左上方为文本输入框,左下方为数字输入框,右上 方为文本输出框,右下方为数字输出框),将程序中的变量 strTest1、intTest1、 strTest2、intTest2与其分别绑定。

: 릐 미	『『から四部宮町には「「」	r ५ 💿 🎱 Eng	lish 🗸 📲	💡 🥒 Default 🛛 🗸	Color	~
	Input		Output			
		ABC				ABC
		0				0
<						

Design Lavers Keys | IFDs |

对 VC 4 runtime 进行配置(点击 Logical\Visu\Panel: Visu,对 Display 属性中的 ColorMode 进行配置,将默认的 8Bit 改为 32Bit)



再对 mapp View 画面的 Config 文件进行配置 (路径:

Physical\3586\X20CP3586\mappView\Config.mappviewcfg),如下图所示,需要打 开 Change Advanced Parameter Visibility 将其从隐藏设置为可见,再对 TCP Proxy Configuration 中的 Activate Proxy Server 属性修改,将其置为 on,并对 Role 进行配 置,Role 中下拉框可选角色由

X20CP3586\AccessAndSecurity\UserRoleSystem\Role.role中决定。

Confi	g.mappviewcfg [mapp View	Configuration) × [₹
2	🔶 🐼 🕼 🎝 🖉 🚱 👘				
Name		Value	Unit	Description	^
ė-,	Server configuration				
	🗄 🚰 Protocol	HTTP		Use secure communication protocol.	
	Port Number	81	2	Port number of mapp View webserver.	
	Maximal client c	5	-	Number of maximum permitted client connections in value range 0-100	
	Maximal B&R cli	0		Number of maximum permitted B&R client connections in value range 0-100	
	🗄 🜁 Authentication m	RBAC 🦀		Defines if the client authenticates via RBAC or MpUserX.	
	🕂 🚰 TCP Proxy Confi				
	🗄 🌁 Activate Prox	on		Proxy server for Websocket to TCP connection	
	Role 1	Administra.	.	Role permitting User to establish a Websocket to TCP Connection	
	Role 2	Everyone		Role permitting User to establish a Websocket to TCP Connection	
	•••• Role 3			Role permitting User to establish a Websocket to TCP Connection	
	🗄 🚰 Diagnostic Confi				
	🗄 🚰 Activate Diag	off		Enable access to diagnostics page	
	OPC UA system				
	 Server connectio 	5000	ms	Timeout to connect to the OPC UA servers before the visualization is shown.	
	🖻 🚰 Sampling rate gr			Groups for different OPC UA binding variable sampling intervals	
	🖗 default	200	ms		
	🔍 slow	1000	ms		
	🦾 🖗 fast	100	ms		
	Initial ValueChan	TRUE		ValueChanged events are also triggered for the initial value.	
- P-	Session Timer			Timer objects for Events & Action System	
	🖻 😁 🎦 Timer 1				
	*• Timerld	Timer1		Unique identification that can be referenced in event binding	
		1000		Time in milliseconds in steps of 100 until the timer elapses	
	🗄 🚰 Timer mode	repetitive			
ė,	Client configuration				
	Content caching				
	Wumber of ca	200		Number of caching slots for loaded contents in value range 0-500 (0=disabled)	\sim

配置完毕后,进行编译仿真测试

打开 VNCViewer 控件所在的页面,显示画面如下

					 ×
Input				Output	
			test1	123	
			123	456	
Name	Туре	Scope	Force	Value	
intTest1	INT	loc		123	
	INT	loc		456	
strTest1	STRINC	loc		'test1'	
	STRINC	loc		'123'	

实际 PLC 测试

将 VNCViewer 网格端口配置为实际的 PLC VC 4 Server 端口



Output 文本框输入

输入前

Input	Output
	test1 123
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

输入后

Input	Output	
test1	abc123~	
123	123	

Output 数字框输入

输入前

Input		Output					
	test1				123		
	123				456	6	
		ſ	1 2	1 3 X	3		
			4 5	6 🛇			
		-	7 8 ± 0	9 . ✓			

输入后

Input		Output	
te	est1	abc123~	
	123	123	

结论: VNCViewer 控件能够按照正确的配置显示出VC4 画面。

例程:

🗋 VNCViewer.7z