This brief is intended for Control Engineers and Technicians who are installing, programming and maintaining a MediaPro Control System that communicates with an Allen-Bradley PanelView Plus (RSView Machine Edition).

It is assumed that you have some understanding of Show Control, Windows PCs, and some experience programming MediaPro 4000 Systems and Allen-Bradley PanelViewPlus (RSView Machine Edition) OCCs.

A) MediaPro Preparation

A.1) Required Firmware

A.1.a)	IMC-4010/20:	IMC_119N.COD	
A.1.b)	ICM-4020E:	3225124F.COD	
A.1.c)	ICM-4020:	3220124?.COD	pending
A.1.d)	SEM-4020:	SEMDL081.cod	

A.2) Cable / Connectors (see also ICM, SEM and IMC documentation) A.2.a) IMC: Serial programming cable (provided with MP4000 software) for connection to PC (or equivalent cable/adapter). A.2.a.1) IMC Jack, 6-Pin RJ11 to DE9F (for PC) Adapter +12vdc 1 x No Connection RTS > 2 - 8 Clear to Send CTS < 3 - 7 Request to Send TxD > 4 - 2 Receive Data RxD < 5 - 3 Transmit Data Ground 6 - 5 Ground A.2.b) IMC: {null modem of above PC adapter} for connection to PanelViewPlus (or equivalent cable/adapter). A.2.b.1) IMC Jack, 6-Pin RJ11 to DE9F (for PVP) Adapter +12vdc 1 x No Connection RTS > 2 - 7 Clear to Send CTS < 3 - 8 Request to Send TxD > 4 - 3 Receive Data RxD < 5 - 2 Transmit Data Ground 6 - 5 Ground

A.2.c) Refer to MediaPro documentation for ICM and SEM pinouts.

A.3) MediaPro configuration

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A.3.a) Open ICM Dialog
A.3.b) Open Port Configuration Tab
A.3.c) Port 2: DF1 Slave, 19.2K, No Parity, 8 Data, 1 Stop
A.3.d) DF1 Configuration
Data From MP (o): 600
Qty (w): 8
Data Type: B
To File: 14
PLC Data: 0
Data to MP (i): 600
Qty (w): 8
Data Type: B
From File: 13
PLC Data: 0
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	Port	Туре		Baudi	ate	Parit	y	Bi	its	B	lits			Alias	
Port 0	NTSC Exter	nal Sy	nc 🔻	n/a		n/a		n/a	'a n		a				ĵ.
Port 1	Maintenanc	e Port	1000	19200	ť.,	None		8		1					j.
Port 2	DF1 Slave		-	19200		None	-	8	•	1	-				1
Port 3	Default		-	19200		None	-	8	-	1	+				1
Port 4	DMX-512		-			None		8	-	1	-	DM≿	<		1
Port 5	Default		-	19200	-	None	•	8	+	1	-				
Dark 2	MF (U)	(₩) 0	гуре	5 711	2 1.4	Data	7	mr	(I) CO	0	(₩)	Р	he	12	Data
Port 3	000	0	D		14		,		00		0	D		13	U
- oit J				-									Ţ		2
Port 4				-											
Port 4 Port 5			_				- 211		_				-102 J	18 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -	200
Port 4 Port 5															
Port 4 Port 5 Iodule (Lomment —														10 10

A.3.e) Download and Verify config

A.3.f) Using the appropriate cable/adapter connect Port 2 to the PC.

B.1) RSLinx Enterprise B.1.a) Communication Setup B.1.b) Create a new configuration B.1.c) Local Tab B.1.d) RSLinx Enterprise B.1.e) Add Driver (right click) B.1.f) Serial DF1 to PLC5, SLC-5, or Logix Platforms B.1.f.1) General Tab Name: Serial-DF1 ComPort: 1 (Use whatever is correct for the PC!) Device: PLC CH0 Station Number: 7 B.1.f.2) Link Tab Baud: 19,200 Stop Bits: 1 Parity: None Error Check: BCC Ack/Poll Timeout: 3000ms Max Retries: 3 B.1.g) It should begin Browse Cycling (dots on the ICON rotate) and find the ICM/SEM/IMC "1, 1785-L30A, MediaPro" B.1.g.1) If it does not find it, it may be necessary to restart the application or the PC. B.1.h) Device Shortcuts, Add "MP2" (abbreviation for Mediapro Port 2 ?) You can use whatever works for you, it just becomes part of the tag that points to the PVP comm port and protocol. e.g. {::[MP2]B13:0/0} B.1.i) Click on the shortcut and the "1, 1785-L30A, MediaPro" (both should be grayed) B.1.j) Device Shortcuts, Apply B.1.k) Copy - yes B.2) RSLinx Enterprise B.2.a) Communication Setup B.2.b) Target Tab B.2.c) RSLinx Enterprise B.2.d) DF1P2P, Serial-DF1 B.2.e) Properties B.2.e.1) General Tab Name: Serial-DF1 ComPort: 1 (Use whatever is correct for the PVP!) Device: PLC CH0 Station Number: 7 B.2.e.2) Link Tab Baud: 19,200 Stop Bits: 1 Parity: None Error Check: BCC Ack/Poll Timeout: 300ms Max Retries: 2 B.2.f) Device Shortcuts, "MP2" B.2.g) Click on the shortcut and the "1, 1785-L30A, MediaPro" (both should be grayed) B.2.h) Device Shortcuts, Apply, OK

🖌 RSView Studio [Demo Mode]
File <u>V</u> iew Application <u>T</u> ools <u>W</u> indow <u>H</u> elp
Communication Setup - RNA://\$Local/TEMP/RSLinx Enterprise Device Shortcuts MP2 Target Local P
● 品 1, 1785-L30A, MediaPro ● 品 EtherNet, Ethernet ● 品 VB175L, Backplane
Application Explorer - Temp
Mode: Online Browse cycled: Serial-DF1
Select File
Add <u>Remove</u> Apply <u>C</u> opy OK Cancel <u>H</u> elp
Communicati
🖄 🗘 In service. The server RNA://\$Local/Temp:Temp on computer localhost is now active. 📰 🗋 🔤 lear 🔤
or Help, press F1

```
B.3) Graphic -> Display -> New (right click)B.3.a) Object -> PushButton -> MomentaryB.3.b) Drag one out in display window
```



```
B.3.c) Properties (right click)
B.3.d) State -> State 0 -> caption "OFF"
B.3.e) State -> State 1 -> caption "ON"
B.3.f) Connections
B.3.f.1) Value Row, Tag Column, Click on the Grey "+++"
B.3.f.2) Refresh all folders (right click)
B.3.f.3) MP2 -> Online -> B13 -> B13:0 , ok
```

Tag Browser			?×	Momentary	Push Butto	n Properties			
Select Tag Folders	Contents of V::MP2/0	Online/B13'		General S	tates Comr	non Connection	IS		
Temp MP2 Diagnostics Online B13 Diagnostics B13 Diagnostics B13 Diagnostics System	Name	Description		Name Value Indicator	→ C:[M]	Tag / P2]B13:0/0} P2]B14:0/0}	Expression	12 •••	99 E
Tag filter:			•						
Selected Tag			_						
Home area: /									

```
B.3.f.4) Change Value Tag to {::[MP2]B13:0/0} (a single bit)
B.3.f.5) Copy/Paste Tag to indicator row
B.3.f.6) Change Indicator Tag to {::[MP2]B14:0/0}
B.3.f.7) Apply, OK
```

Display Type	Size
C On Top	Ose current size Specify Size in Pixels
Cannot Be Replaced	∭idth: 640 Height: 480
Di <u>s</u> play Number: 1	Position
Security Code: 🔹 💌	X 0 Y.0
	Background Color
- ···	
Disable Initial Input Focus	
Disable Initial Input Focus Maximum Tag Update Rate:	

B.3.j) Apply, OK, OK B.3.k) File -> SaveAs -> Main B.3.l) Close the Display window.

B.4) System -> Startup B.4.1 Check, Initial Graphic: Main -> OK

B.5) Application -> Create Runtime Application B.5.a) File name ..., Save

B.6) Tools -> Transfer Utility
B.6.a) Select the application you just created
B.6.b) Run Application when download completes, Check
B.6.c) When application runs, replace communications, Check
{Warning: Make certain that the programming communications
 settings are correct (i.e. Ethernet) or you might loose
 the ability to easily reprogram the PVP.
B.6.d) Select destination terminal
B.6.e) Download.

C) Testing

C.1) Use the appropriate cable/adapter to connect Port 2 to the PVP.

2	Dec	Hez	7	6	5	4	3	2	1	0		10-2	Dec	Hez	7	6	5	4	3	2	1	0	4
600	1	्य	0	0	0	0	0	0	0	1		600	1	1	0	0	0	0	0	0	0	1	
601	0	0	0	0	0	0	0	0	0	0	1	601	0	0	0	0	0	0	0	0	0	0	
602	0	0	0	0	0	0	0	0	0	0		602	0	0	0	0	0	0	0	0	0	0	
603	0	0	0	0	0	0	0	0	0	0		603	0	0	0	0	0	0	0	0	0	0	
604	0	0	0	0	0	0	0	0	0	0		604	8	8	0	0	0	0	1	0	0	0	
605	0	0	0	0	0	0	0	0	0	0		605	0	0	0	0	0	0	0	0	0	0	
606	0	0	0	0	0	0	0	0	0	0		606	0	0	0	0	0	0	0	0	0	0	
607	0	0	0	0	0	0	0	0	0	0		607	0	0	0	0	0	0	0	0	0	0	
608	0	0	0	0	0	0	0	0	0	0		608	0	0	0	0	0	0	0	0	0	0	
609	0	0	0	0	0	0	0	0	0	0	-	609	0	0	0	0	0	0	0	0	0	0	1
Alias)										3
Got	0	Got	5	1	0	iot	0		(Gol	to	Gol	0	Gote	5	-516	C	iot	0		(Got	0

D) Further PVP (RSV ME) development

D.1) Reconnecting the PC to the MediaPro DF1 port should not be necessary. D.1.a) Leave the target Shortcut / DF1 comm the way it is.

D.1.b) Remember to follow the tag format. e.g. {::[MP2]B14:0/1}

📲 Tags - /Tl	emp/				_ 🗆 🗵
Tag Name:	Ind123				Close
Туре:	Digital	~			Prev
Description:	Ind123				Ne <u>x</u> t
					New
Data Source	e				Help
Address:	Device I::[MP2]B14	© Memory :0/1			
Search Fo	ır:	Tag Name	Туре	Description	
		1 Button123	Digital	Button123	
		2 Ind123	Digital	Ind123	
	ton -	3			
	.em				
	F				
					•

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