

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/adaptor).

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/adaptor).

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

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

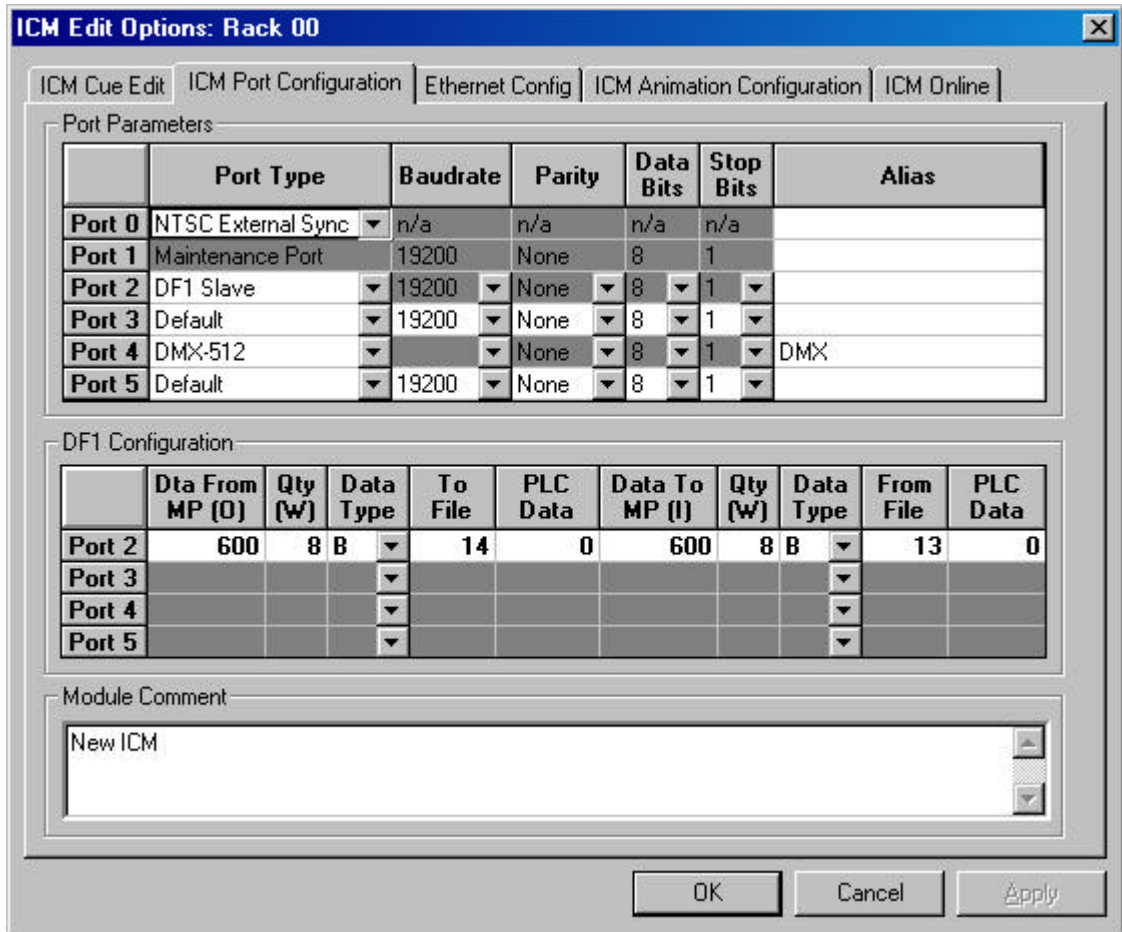
Data to MP (i): 600

Qty (w): 8

Data Type: B

From File: 13

PLC Data: 0



A.3.e) Download and Verify config

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

B) RSView Studio Configuration and Development

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

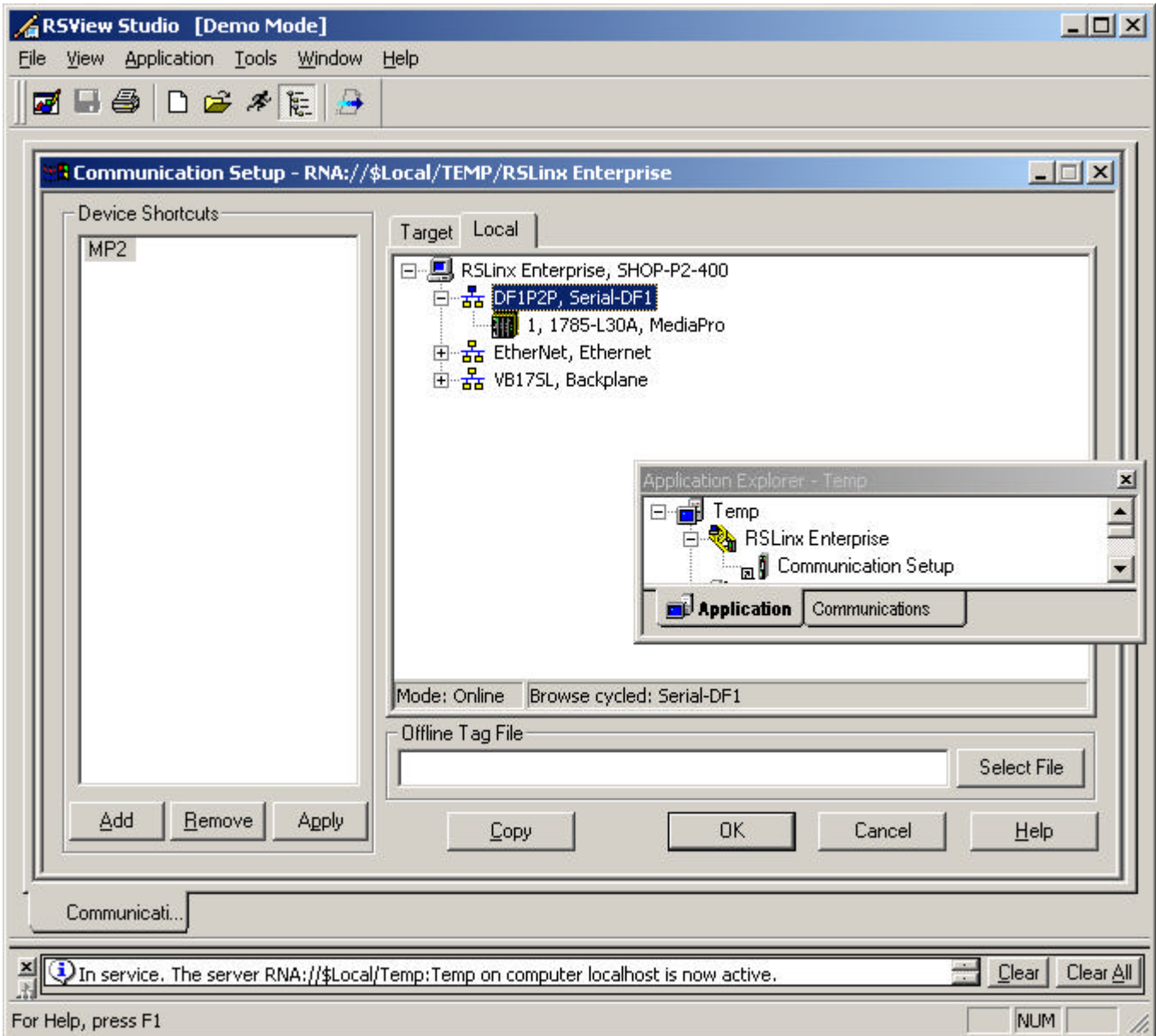
Ack/Poll Timeout: 300ms

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)

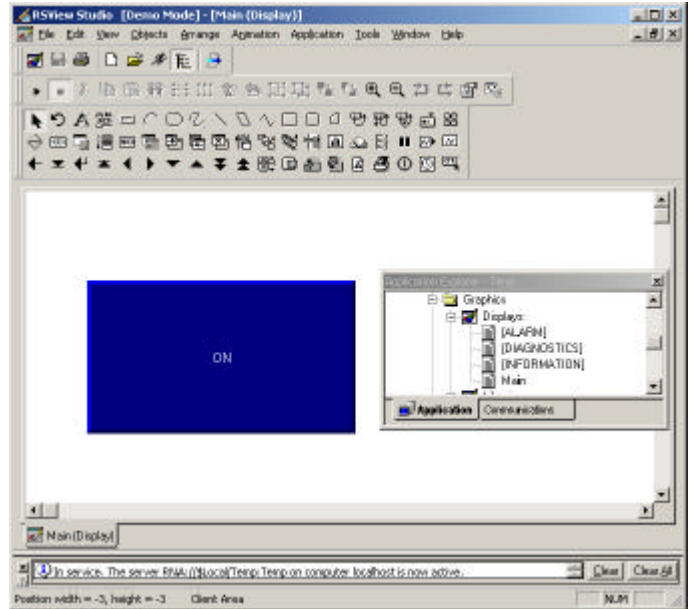
B.2.h) Device Shortcuts, Apply, OK



B.3) Graphic -> Display -> New (right click)

B.3.a) Object -> PushButton -> Momentary

B.3.b) Drag one out in display window



B.3.c) Properties (right click)

B.3.d) State -> State 0 -> caption "OFF"

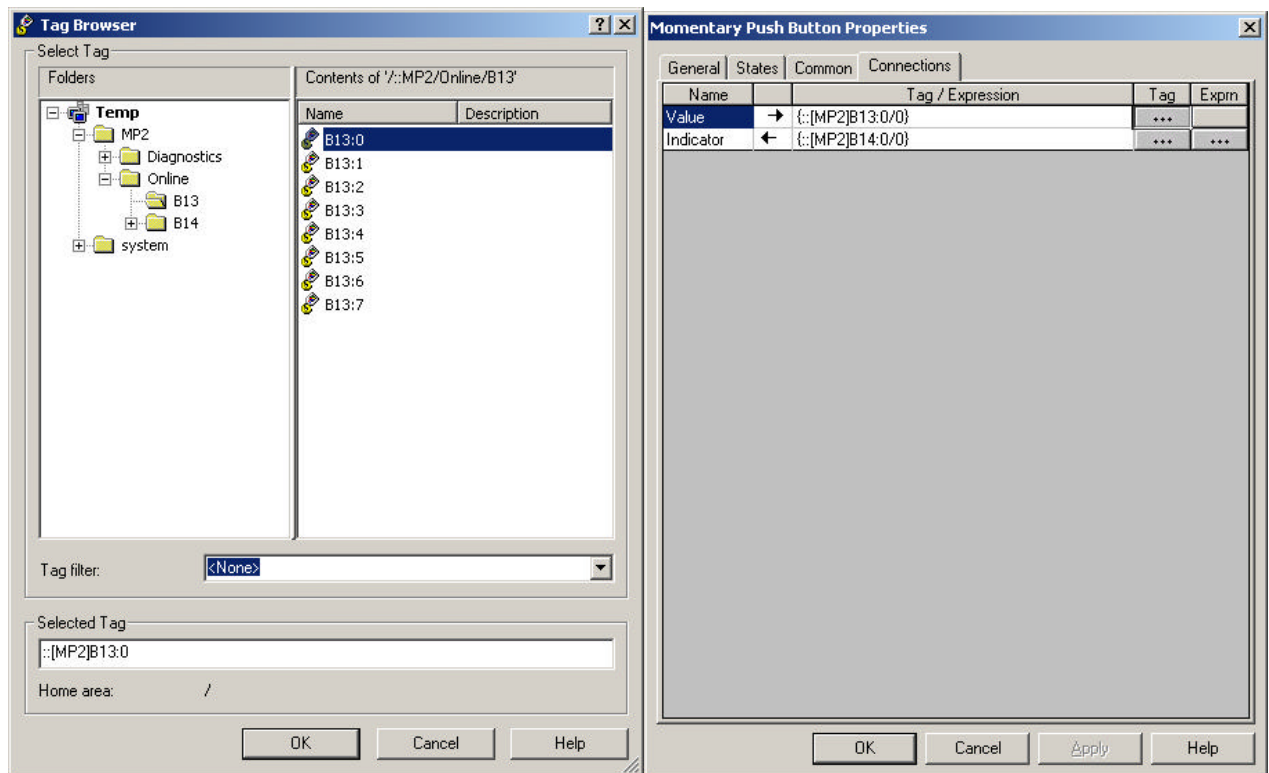
B.3.e) State -> State 1 -> caption "ON"

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



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

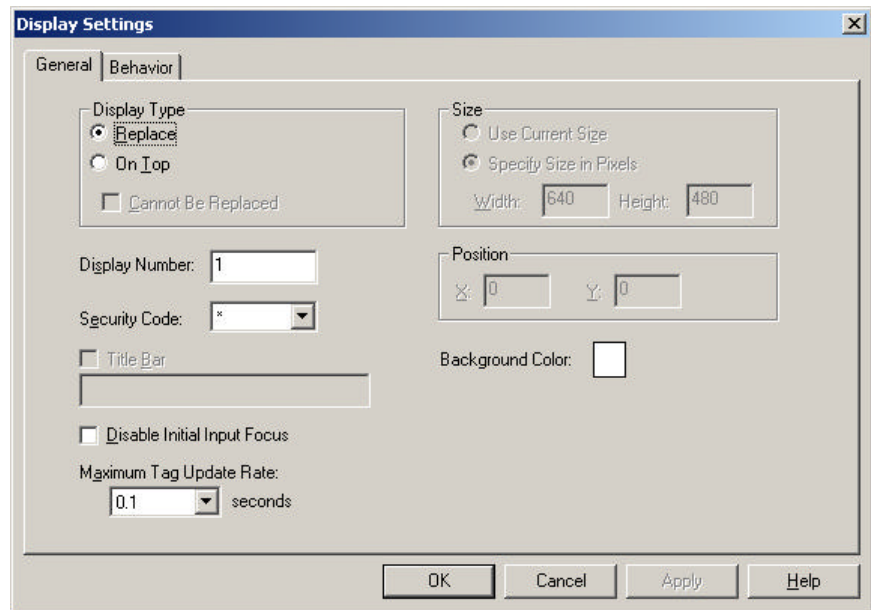
B.3.f.6) Change Indicator Tag to {::[MP2]B14:0/0}

B.3.f.7) Apply, OK

B.3.g) Edit -> Display Settings

B.3.h) General Tab

B.3.i.1) Tag update Rate: 0.25sec or 0.1sec {use whatever works best}
(0.05sec appears to be too fast for the DF1 at 19.2k.)
(0.5 sec 'feels' too slow when pushing buttons on the PVP.)



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/adaptor to connect Port 2 to the PVP.

C.2) Monitor the Bits in the ICM (/ICM/SEM)

C.2.a) Open ICM Dialog

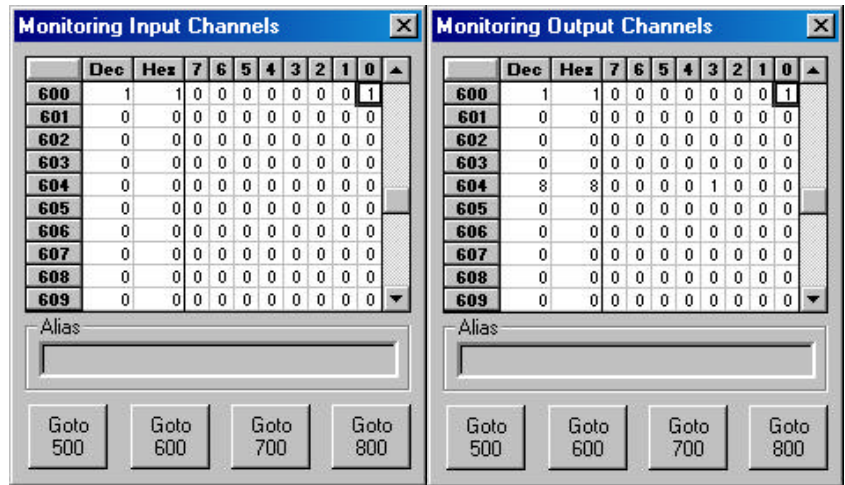
C.2.b) Cue Edit Tab

C.2.c) Cue Controls -> Inputs -> 600

C.2.c.1) Press/hold the button on the PVP,
i600.0 changes to a 1 (ON)

C.2.d) Cue Controls -> Outputs -> 600

C.2.d.1) Right Click o600.0 (toggles to a 1),
button text changes to "ON"

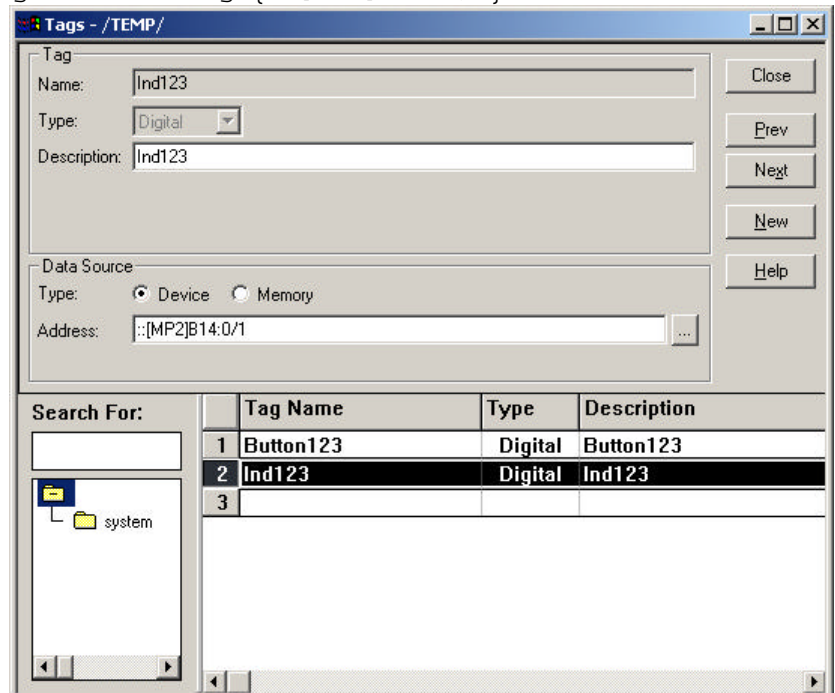


D) Further PVP (RSV ME) development

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}



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