

The following document applies to TSI1000 firmware version 1.86.4.1 and higher. Lower versions use mode 1 exclusively.

Configuration of Evertz MVPs on the TSI1000 Ethernet port			
Configuration mode	Mode 1: Each UMD assignable to one of up 32 IP address	Mode 2: Each UMD assignable to Multiple IP addresses	Mode 3 (VIP mode): Each UMD assignable to one of up to 240 IP addresses
Description	UP to 32 sets of UMDs, each set updated through a single IP address. Up to 2048 unique PIDs are supported per TSI1000.	UMDs can be updated via multiple IP addresses on each MVP, up to 32 MVPs allowed. Up to 2048 unique PIDs are supported per TSI1000.	Up to 2048 different UMDs can be updated on one of 32 UMD groups. The UMDs in each group can be assigned any of up to 240 IP addresses. UMDs are typically grouped by room or monitor wall.
Typical Application	This configuration mode could be used for, on <i>each</i> TSI1000 : • Up to 32 MVPs each with single output card. • MVPs with multiple output cards (total of 32 for all MVPs), each with a small number of UMDs. (See Note 1 in this column below) • 32 or less VIPs.	• MVPs with multiple output cards.	• Up to 240 VIPs per TSI1000.
UMD is updated by IP address ...	... programmed into one Screen Device	... programmed into one or more Screen Device.	... programmed individually for each UMD, in a Display Device.
Display unit type for "Screen" device	Evertz MVP Screen (TCP/IP port)	Evertz MVP Screen (TCP/IP port)	None
Display unit type for "Display" device	Evertz MVP Display	Evertz MVP Display	Evertz VIP Display (TCP/IP port)
Screen device name format	Arbitrary output card name.	<Prefix>/<Number>, where "Prefix" is an arbitrary MVP name, "Number" is an MVP output card number (1,2,3,etc).	N/A

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Screen device name format example	MVP1	MVP1/1, MVP1/2, MVP1/3, etc.	N/A
Display device name format	<Screen device Name>::<Arbitrary Umd Name>	<Screen Device Name Prefix>::<Arbitrary UMD Name>	<Arbitrary name of UMD group e.g. room>::<Arbitrary UMD name>
Display device name format example	MVP1::UMD01	MVP1::UMD01 (this UMDs is updated by all IP addresses entered into screen devices with "MVP1" name prefix).	CR1::UMD01 (the UMD group here is called "CR1").
Serial number format	Last four characters are numeric, and must match a PID in the Evertz system.	Last four characters are numeric, and must match a PID in the Evertz system.	Last four characters are numeric, and must match a PID in the Evertz system.
PIDs	Up to 2048 different PIDs allowed on each TSI1000	Up to 2048 different PIDs allowed on each TSI1000	Up to 2048 different PIDs allowed in each of 32 UMD groups.
Notes:	1. For MVP with multiple output cards, duplicate sets of UMDs can be programmed, one set for each output card, but this can potentially slow tally system response.		
General Notes:	1. In all cases the PID number is derived from the last four digits of a UMD serial number. In later firmware versions, the leading "E" in the serial number in Ethernet--based UMDs is no longer required. Note that UMD serial numbers must be unique across all TSI1000s and therefore in larger systems the serial numbers are generally uniquely prefixed in some way for each part of the system that duplicates PIDs used in other parts of the system. For example Control Room 1 might use serial numbers in the 10000 range, Control Room 2 might use serial numbers in the 20000 range and so on.		

Example Configurations				
Device Name	Display Unit Type	IP Address	PID	Comment
MVP01	Evertz MVP Screen	102.168.0.101		Configuration mode 1 - There is two IP addresses and there could be many display units serviced by each IP address (only three shown here). There could be up to 32 uniquely named screen devices / IP addresses, each servicing its own set of UMDs. The PIDs are unique.
MVP01::UMD01	Evertz MVP Display		1	
MVP01::UMD02	Evertz MVP Display		2	
MVP01::UMD03	Evertz MVP Display		3	
MVP02	Evertz MVP Screen	102.168.0.102		
MVP02::UMD01	Evertz MVP Display		4	
MVP02::UMD02	Evertz MVP Display		5	
MVP02::UMD03	Evertz MVP Display		6	
MVP01A	Evertz MVP Screen	102.168.0.101		Configuration mode 1 for multiple output card MVPs - Something like this could be set up to service a multiple-output-card MVP, where for example, the programming for UMD01 in each set would be identical and the same information for the one UMD would be set to both MVP output cards. Note the duplicated PIDs. This method is OK for a small number of UMDs but for larger systems the duplicated processing of UMD contents can incur a penalty in system speed.
MVP01A::UMD01	Evertz MVP Display		1	
MVP01A::UMD02	Evertz MVP Display		2	
MVP01A::UMD03	Evertz MVP Display		3	
MVP01A::UMD04	Evertz MVP Display		4	
MVP01B	Evertz MVP Screen	102.168.0.102		
MVP01B::UMD01	Evertz MVP Display		1	
MVP01B::UMD02	Evertz MVP Display		2	
MVP01B::UMD03	Evertz MVP Display		3	
MVP01B::UMD04	Evertz MVP Display		4	

Example Configurations				
Device Name	Display Unit Type	IP Address	PID	Comment
MVP01/1	Evertz MVP Screen	102.168.0.101		Configuration mode 2 - This configuration mode resolves the duplication-of-effort problem encounter in the above example. Here four IP addresses service four UMDs. Each UMD is processed only once but the evaluation results are sent to four different IP addresses for each UMD, allowing the MVP to display the result on any output card.
MVP01/2	Evertz MVP Screen	102.168.0.102		
MVP01/3	Evertz MVP Screen	102.168.0.103		
MVP01/4	Evertz MVP Screen	102.168.0.104		
MVP01::UMD01	Evertz MVP Display		1	
MVP01::UMD02	Evertz MVP Display		2	
MVP01::UMD03	Evertz MVP Display		3	
MVP01::UMD04	Evertz MVP Display		4	
MVP01::UMD05	Evertz MVP Display		5	
CR01::VIP1-01	Evertz VIP Display	102.168.0.101	1	Configuration mode 3 (VIP mode) - each UMD has it's own IP address and IP addresses can be freely duplicated, up to 240 unique IP addresses. Here there are two UMD groups, called CR01 and CR02. Each UMD group has it's own set of PIDs.
CR01::VIP1-02	Evertz VIP Display	102.168.0.101	2	
CR01::VIP1-03	Evertz VIP Display	102.168.0.101	3	
CR01::VIP2-01	Evertz VIP Display	102.168.0.102	4	
CR01::VIP2-02	Evertz VIP Display	102.168.0.102	5	
CR01::VIP2-03	Evertz VIP Display	102.168.0.102	6	
CR02::VIP2-01	Evertz VIP Display	102.168.0.103	1	
CR02::VIP2-02	Evertz VIP Display	102.168.0.103	2	
CR02::VIP2-03	Evertz VIP Display	102.168.0.103	3	
CR02::VIP2-04	Evertz VIP Display	102.168.0.103	4	
VIP1-01	Evertz VIP Display	102.168.0.101	1	Configuration mode 3 (VIP mode), single UMD group - if just one UMD group is required, the UMD group name can be omitted.
VIP1-02	Evertz VIP Display	102.168.0.101	2	
VIP1-03	Evertz VIP Display	102.168.0.101	3	
VIP2-01	Evertz VIP Display	102.168.0.102	4	
VIP2-02	Evertz VIP Display	102.168.0.102	5	
VIP2-03	Evertz VIP Display	102.168.0.102	6	