



# Marina Masterpiece Integration

## 1 Purpose

There is a requirement for Marina to be able to control Masterpiece. PBS-Marina and GV-Masterpiece are already integrated together starting from these SW releases using IP control interface.

PBS-Marina/GV-Masterpiece integration through RS422 interface is technically possible under customer OBR (on-business-request) as it is the same implementation as the IP control, just using a different physical connection.

Should LRT-LT require such a RS422 interface to be implemented, PBS is at the disposal of LRT-LT for conducting such a test in a time frame to be approved by all parties as part of a chargeable consultancy.

PBS do have a proven record of using their Oxtel drivers via serial for frame accurate control of devices, however due to the absence of such type of RS422 control integration demand from the other users of this specific device in the broadcast market PBS is reserving its right to charge some R&D expenses to LRT-LT in case of such a demand from LRT-LT if any unforeseen issues are identified within Marina as a result of using serial (RS-422) connections.

## 2 Versions tested with:

**Masterpiece 3.4r2**

**Marina v1.5.34.1000**

## 3 Protocol supported

PBS have only confirmed basic operation using Oxtel Protocol Over IP. For the implementation to work two connections are required to the masterpiece. These connections will need to connect to different ports on the Masterpiece unit which will need to be configured on the Masterpiece unit itself. For Serial Control PBS and GV are proposing testing 3 direct serial connections to each unique Masterpiece Device.

#### 4 Current Confirmed Functionality

The current PBS implementation of Masterpiece using Oxtel protocol over IP has been tested and we can confirm frame accurate switching between the PGM and PVW buses.

Marina uses parts of the Oxtel Protocol to drive the Masterpiece and is limited to the functionality of the protocol.

It does not currently support the full implementation of the Oxtel protocol and if any additional functionality within the Oxtel protocol is required, it would be subject to additional, charged for development by Pebble, Grass Valley, (or both), and if feasible.

The current implementation consists of a Virtual Master Control Switch created with Marina consisting of two distinct drivers within Marina. These are the Miranda Oxtel Router Internal and the Miranda Oxtel Router each of these drivers require a distinct connection to the device to control Masterpiece.

Marina can receive video tallies from the Masterpiece which inform Marina automation of the current “position” of the PGM and Preset Buses. These tallies are received when Marina Issues commands. We can switch between these sources with frame accuracy when triggered by a configured list.

We can also confirm that Marina is able to select the source on the Preset Bus of the masterpiece mixer and issue a frame accurate “Take Next” command which issues a cut.

Marina can also currently toggle DSK 1-4 on and off as a switch effect. It cannot load files into the DSK stores.

Marina can also trigger Macro (pre-recorded sequences) events however we cannot confirm the limits of this functionality, for this reason we are unable to confirm full DVE support.

Audio Shuffling on the Masterpiece is not currently supported via Marina control.

## 5 IS-750 Oxtel Functionality

Marina currently supports input shuffling and Image loading via Oxtel protocol in Marina

In the Case of Audio Shuffling a audio shuffle feature is added and is able to send a preconfigured audio shuffle pre-set to the Imagestore. It achieves this using the Oxtel protocol.

In the Case of Image loading, Marina is able to build a media collection from the device using the Oxtel Protocol and control each DSK as a unique stream/list configured device. Through this mechanism it is able to send load commands, and toggle on/off DSK.

From a Marina perspective, as long as the development is undertaken from Grass Valley (if possible) to add these functionalities on the Masterpiece, then Marina should be able to support these functions.

As such it is recommended that a consultancy period between GV and Pebble be conducted if this existing functionality is required to be added to the Masterpiece. This consultancy period would:

- 1) Allow Pebble to detail the exact required commands currently used
- 2) Allow GV to determine the feasibility and effort required to add the functionality
- 3) Agree on testing with the customer's input.

Nr.	Mark. Code	Description	Q-ty
<b>PHASE 1 - COMPLETE SOFTWARE UPGRADE FOR EXISTED SYSTEM</b>			
1	SER-IN005	Project Management per day. Daily charge for project management. Excludes travel and living expenses.	3
2	SER-IN002	Remote Engineering Support per day. Daily charge for engineer connecting remotely.	8
<b>PHASE 2 - ADDITIONAL PROGRAMME CHANNEL</b>			
3	MLIS-PL001B	Base Playlist List. Controls a complete Transmission Channel including Server Ports, VTRs and multiple devices (excludes Device Drivers). Allows for multiple server ports to be used in A/B mode. Includes GPIO for basic device control and for external List triggering. Includes playlist GangRoll.	2
4	MDDS-SPD01	Video Server Port driver. VDCP or TCP/IP server control interface depending on server model.	2
5	MDDS-L0001	Logo Interface. Interface to control supported Logo inserter.	2
6	MDDS-SW001	Switcher Interface. Interface to control supported Master Control Switcher.	2

7	MDDS-CG001	CG Interface. Interface to control supported graphics engine.	1
8	MCLS-CL001B	Marina Client License, Qty 6-10. A multifunction client for playout, ingest, archive and configuration , including clip playback and review tools. Includes Smart Panel and low-res Media Player. Supports user login and permissions. Requires customer supplied PC.	1
9	SER-IN005	Project Management per day. Daily charge for project management. Excludes travel and living expenses.	3
10	SER-IN002	Remote Engineering Support per day. Daily charge for engineer connecting remotely.	6
<b>PHASE 3 - GVG MASTERPIECE 12GSDI IMPLEMENTATION FOR EXISTING CHANNELS</b>			
11	MDDS-SW001	Switcher Interface. Interface to control supported Master Control Switcher.	3
12	SER-IN005	Project Management per day. Daily charge for project management. Excludes travel and living expenses.	2
13	SER-IN002	Remote Engineering Support per day. Daily charge for engineer connecting remotely.	7
<b>SLA</b>			
14	LEG PREMSW10-SLA	Premium Software SLA. Post-sale support for Pebble supplied software including 24x7 emergency telephone support. For systems accepted before 2019.	1