

BLACK PEARL TIMECODE BASED PARTIAL FILE RESTORE

QUICK START GUIDE – FEBURARY 2017

INTRODUCTION

This guide will cover the fundamental details for using the Timecode based Partial File Restore (TPRF) functions for Spectra Logic Black Pearl. It is intended as an overview only. For full details please look at “Black Pearl PFR – Installation and Configuration”.

INSTALLATION AND CONFIGURATION

The PFR software is provided by Marquis as in installation package. In most cases it can be installed in its entirety and the only details needed are a user account for the Windows services. This user must be a local administrator.

A configuration application is provided (PFR Configuration) and this only requires some very simple configuration.

Before starting, let’s consider the architecture and workflow of the system. The system requires the following:-

- Black Pearl Archive
- Marquis PFR (running in a Windows Server)
- Media Asset Management system, which manages the overall process
- Network Shared Storage location (NAS), for the files used during the processing of the system

Files that are to be archived are copied temporarily to the NAS. The PFR system is then instructed to build an “Index” for the files, which are stored on the NAS. The source file is then removed from the NAS, leaving the index in place.

When items are restored, the MAM communicates with PFR and BlackPearl to restore a segment of media to the NAS, from which PFR will produce the finished media file and create this on the NAS.

The NAS will therefore need to be a network share (e.g. [\\DiskStorage\BPFiles\](#)).

To keep information clearly segregated, it is suggested that the NAS should have the following folders created on it:-

- A folder for the original files that are about to be indexed
- A folder for the partial segments that are brought back from the Black Pearl archive
- A folder for finished media files

Other files will be created automatically as required by the PFR system. These are for internal use only.

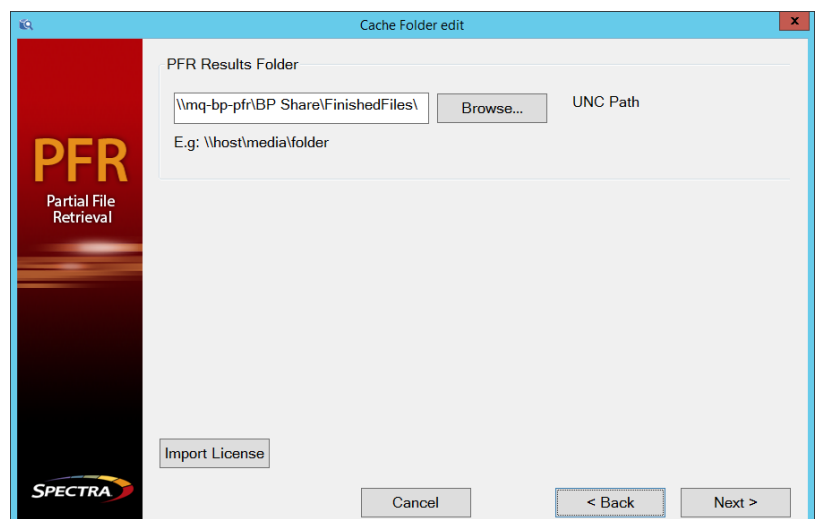
Configuration

The PFR system only requires one entry to be configured to start the processing.

Run the **PFR Configuration** application. This will guide you through the set up.

On the second page it will ask for the “PFR Results Folder” to be entered. This refers to the folder the finished media files will be created in.

Complete the guided path to save the configuration and to start the services. For more detailed information on the configuration please see the full guide.



Once the installation and configuration are complete the system will have the following services running on the PFR machine:-

- Black Pearl PFR Index Service
- Medway Sync Service
- Medway Engine Server
- Marquis Log Service

All of these will be set to run automatically on startup.

Additional applications for the viewing of the status of the media processing (PFR Status GUI) and log files (PFR Log Viewer) are also available. The PFR Status GUI connects into the Medway Sync Service mentioned above. It will not connect to the system if this service is not running.

Notes and FAQ's:

- All of the communications between the API calls are made to the Black Pearl Indexation service
- The processing of the final output file is managed by the Medway Sync Service and the Medway Engine Service. These need to be running for the process to complete
- Once the final file is produced the partial segment restored from the archive will be removed by the PFR services
- Notes for developers:
 - o The partial file restored from the archive is a temporary file and can be given any name and extension. We would recommend not using a media file type extension as this will not be a valid media file
 - o The finished media file should be given a new name from the original source file to ensure uniqueness
 - o If a file segment is restored more than once a new name will need to be used each time. The system will not allow a file to be resent if it has already been processed once

SUPPORTED MEDIA FILE TYPES

The PFR solution supported media wrapped as MXF Op1a and QT (Self Contained) for a wide range of professional codecs and standards. Details are shown within the detailed guides.

MEDIA TEST TOOL – TEST PFR INDEX APPLICATION

A test application has been provided that will allow media files to be checked to see if they are supported by the system. This tool is provided as a part of the indexation service.

Stand Alone Installation

- From the standard PFR installer, install the PFR Indexer only and follow the instructions
- This will install the “Test PFR Index” application as well as the indexation service
- The application will allow files to be checked with the indexer without creating an Index

Use

- Either browse to a media file or drag and drop a file onto the application
- The application will check the file with the indexer service and report on whether it is supported.
- If not, a failure message will be shown
 - o *Note: Full details on the processing will be written into the normal log file*

