MARQUIS INDEXATION SERVICE – WEB SERVICE CONTROLS

INDEXATION SERVICE

The Partial File Restore Indexer looks for new media to appear on the managed storage. When it finds a new media file, it generates an index for it, in effect mapping timecode values in the original media file to byte offsets. This allows subsequent timecode based requests to retrieve only the necessary portions of a large media file from tape.

The index files are generated in a parallel folder structure on the managed storage.

If the call references a mounted drive, e.g. C:\Media Folder\filename.ext, the index files are created in a folder in the form C:\PFR-INDEX\Media Folder\.

If the call references a UNC path, e.g. \\HostServerName\SharedFolder\Media Folder\filename.ext, the index files will be created in a folder in the form \\HostServerName\SharedFolder\PFR-INDEX\.

The PFR-INDEX folder will then replicate any lower level folder structures found with the source file.

NOTES

- The index files do not contain any essence themselves and are therefore very small in comparison with the files that they index.
- It is of course important that the indexed files themselves are never truncated. Therefore, the PFR-INDEX folder should be marked as such.
- The Indexer does not attempt to index files that it thinks might be currently in-record. Therefore, the indexing may not happen the first time the indexer encounters the file, while the indexer is trying to establish if the file is currently being written to.

INSTALLATION

The Indexation Service is a windows application service.

Run the provided "PFRIndexerInstaller.msi" installer.

This will ask for a user account to be added which will be added as the service logon. This will be in the form of domain\user.

There are no other user interactions with the installer.

NOTE: This copy of the Indexer is branded for Crossroads and is installed as a "Crossroads" program.

The service will be started the next time the computer is restarted, or by running the "PFR Indexer Configuration" application from the Crossroads start menu folder, or directly from the windows services by starting the "Crossroads PFR Index Service".

INDEXATION WEB SERVICE COMMANDS

CONNECTION

The Indexer Web Service API is a REST Interface that listens on TCP/IP port 60792.

COMMAND 1: INDEX FILE

Index File	
Call Name	indexfile
Call Type	GET
Parameter	filepath
	The full file path to the required media file
Returns	Return XML – See Below

NOTES

- This command will only return a response once the index process has completed, either successfully or unsuccessfully.
- If the request is made for a file that has been archived and removed from the cache a full restore of the material will be triggered.
- This command support multiple concurrent requests

EXAMPLE

http://***HostServerName***:60792/indexfile?filepath=C:\Media***SampleFile***.mxf

or

http://***HostServerName***:60792/indexfile?filepath=\\HostServerName\Media***SampleFile***.mxf

Request Status	
Call Name	filestatus
Call Type	GET
Parameter	filepath
	The full file path to the required media file
Returns	Return XML – See Below

NOTES

- This command will only return a response once the index status process has completed, either successfully or unsuccessfully.
- This command support multiple concurrent requests

EXAMPLE

http://***HostServerName***:60792/filestatus?filepath=C:\Media***SampleFile***.mxf

or

http://***HostServerName***:60792/filestatus?filepath=\\HostServerName\Media***SampleFile***.mxf

RETURNED XML'S

Both of the above commands will return the result as a packet of XML.

The following responses are possible:-

FAILED TO INDEX

```xml
<?xml version="1.0" encoding="utf-8" ?>
<IndexerReport IndexResult="Failed" IndexTime="2011/10/21 15:30:15"/>
```

SUCCESSFUL INDEX FILE OR FILE STATUS CALL

```xml
<?xml version="1.0" encoding="utf-8" ?>
<IndexerReport IndexResult="Succeeded" IndexTime="2011/10/21 11:40:53" FileStartTC="01:00:00;00" FileDuration="1800" FileFrameRate="29.97"/>
```

FILE STATUS WHEN FILE NOT PRESENT

```xml
<?xml version="1.0" encoding="utf-8" ?>
<IndexerReport IndexResult="Error File Not Found"/>
```

FILE STATUS WHEN FILE NOT INDEXED

```xml
<?xml version="1.0" encoding="utf-8" ?>
<IndexerReport IndexResult="Not Indexed"/>
```