

Version 1.0 - December 2012

# IP-Log2Post



Live Transfer of IPDirector Logging Information to 3rd-Party systems



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# 1. Introduction

### 1.1 Overview

The IPLog2Post is a product that allows IPDirector logging session to be instantly available in some third-party editing applications. In its first version, IPLog2Post interacts with Avid Interplay.

## 1.2 Workflow



The workflow illustrated in the following schema is explained below:

- 1. IP Director requests XTAccess/Xsquare to back-up a stream to Avid.
- 2. XTAccess gets video feed from XT server.
- 3. XTAccess performs backup to Avid and references media into Interplay.
- 4. XTAccess sends notifications to notification center about media streamed into Avid.
- 5. IPLog2Post system receives logs from IPDirector logging session.
- 6. IPLog2Post system receives information about media streamed to Avid.

- 7. IPLog2Post system sends to Avid Interplay information about logging session: logs created, updated, deleted, and additional information.
- Editor view in Avid Media Composer and Interplay access the content of the logging session in live mode as it is created (provided the application refresh functionality is applied).

### **1.3 Main features**

- Instant visibility on logs created, updated or deleted in IPDirector's IPLogger logging session in Avid Media Composer or Avid Interplay Access
- Monitoring interface with following functionalities:
  - Start /stop Logging session
  - Start / Stop Log Gateway
  - o Start / Stop Referencing Agent
  - Statistics on logs, log sheets, referencing and successful, failed or waiting log jobs notifications.
  - o Details for failed log jobs: operation, comment, error, date, ID
  - Possibility to remove uncompleted jobs.
- Avid Interplay web server used for referencing logs is either the web server used for referencing media into Interplay or a dedicated Avid Interplay web server (configured during installation process).
- Xsecure protection: code 180 required on computer hosting IPLog2Post.

### **1.4 System Requirements**

The following software is required:

- Multicam 11.01
- IP Director 6.08.45+
- XTAccess 1.19.15+/ Xsquare 1.01.21
- Avid Interplay 2.4 or higher
- Avid Media Composer 5.5.2 or higher
- .Net framework 4.0
- SQL Server Express editition
- VC Redist 2010
- XSecure manager 1.1.3

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## 1.5 Limitations

- Works only with Avid Interplay (No Avid Standalone, Apple FCP nor Adobe Premiere Pro)
- No application/services redundancy
- It is not possible to view a log on the first and last frame of the video in Avid.
- Time to insert logs into Interplay increases with amount of logs already linked to the media

# 2. Installation

In this chapter we describe the steps to install the IPLog2Post.

Note that IPLog2Post may be installed alone, or within a suite that includes all the external components mandatory to execute it correctly. The suite install procedure is described hereafter:

1. Launch the setup executable:

Address 🛅 C:\Install_Evs\IPLog2Post\S	5uite		
Name	Size	Туре 🔺	
Installers IPLog2Post_1.00.10_Setup.exe	572 KB	File Folder Application	

The suite setup executable provides the user with a wizard:

🚏 Setup - IPLog2Post Suite	
<b>IP</b> -Log <mark>2</mark> Post	Welcome to the IPLog2Post Suite Setup Wizard This will install IPLog2Post Suite 1.00.10 on your computer. It is recommended that you close all other applications before continuing. Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

2. Click **Next** to start configuring the suite setup.

3. Define a path where IPLog2Post suite will be installed:

🚏 Setup - IPLog2Post Suite	
Select Destination Location Where should IPLog2Post Suite be installed?	$\mathbf{\mathbf{\hat{s}}}$
Setup will install IPLog2Post Suite into the following folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
C:\Program Files\EVS Broadcast Equipment Browse	·
At least 200.0 MB of free disk space is required.	
< <u>B</u> ack <u>N</u> ext > C	ancel

4. Choose an installation type:

🐻 Setup - IPLog	2Post Suite			>
Installation t What should	<b>ype</b> I be installed?			é
Please speci	fy which setup you would like	e to run, then click f	Vext.	
<ul> <li>Standar</li> </ul>	d (recommended)			
C Advanc	ed (expert only)			
Standard: ir	stall IPLog2Post and automa	tically it's depender	icies	
		< <u>B</u> ack	Next >	Cancel

 $\circ\,$  Standard installation type automatically installs all components that need to be installed.

Setup - IPLog2Post Suite			
Installation type What should be installed?			6-
what should be installed?			P
Please specify which setup yo	u would like to run, th	en click Next.	
Standard (recommended)	)		
Advanced (expert only)			
Advanced: allow expert user	to run installers in adv	anced mode	
		Back Next >	Cancel
		Back Next >	

• Advanced installation type allows users selecting which components must be installed, as well as removing some:

🕞 Setup - IPLog2Post Suite					_ 🗆 🗙
Advanced installation Click on a blue label to perfo	orm the a	associated a	action		<b>E</b>
V SQL Server	Install		<u>Installed</u> (4.0.30319) (9.0.4035) no	<u>Available</u> (4.0.30319) (9.0.4035) (10.0.40219)	
	Install Install	Remove	no (1.0.9)	(1.1.3) (1.0.10)	
			< <u>B</u> ack	Finish	

Once .Net framework 4.0, SQL Server, VC Redist 2010 and Xsecure manager are installed, the actual IPLog2Post installation setup procedure begins.

🕞 Setup - E¥S IPLog2Post	
<b>IP</b> -Log <b>2</b> Post	Welcome to the EVS IPLog2Post Setup Wizard This will install EVS IPLog2Post 1.0.10.0 on your computer. It is recommended that you close all other applications before continuing. Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

1. Specify IPLog2Post destination folder

Setup - EVS IPLog2Post	
Select Destination Location Where should EVS IPLog2Post be installed?	
Setup will install EV5 IPLog2Post in	nto the following folder.
To continue, click Next. If you would like to	select a different folder, click Browse.
C:\Program Files\EVS Broadcast Equipmen	t\IPLog2Post Browse
At least 6.6 MB of free disk space is require	
	< Back Next > Cancel

2. Specify if the database is hosted on the local machine or on a distant one:

Setup - EVS IPLog2Post Select SQL Server Instance for EVS IPLog2 Database location	Post		
Should the database be located on this compu	ter?		
• Yes			
© No			
	< <u>B</u> ack	Next >	Cancel

3. When you first install the solution, specify whether a new database has to be created or select a database in the list:

🚏 Setup - E¥S IPLog2Post	
Database for EVS IPLog2Post Instance name : TM03	
Select the database to use, then click Next	
© < <create a="" database="" new=""> O LogGateway O NC</create>	
	< Back Next > Cancel

4. When you install an upgrade, the database used in the previous version of IPLog2Post is proposed first:

🚏 Setup - EVS IPLog2Post			
Database for EVS IPLog2Post Instance name : TM03			
Do you want to use the detected LogGatew	ay database?		
<ul> <li>Yes</li> </ul>			
C No			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

5. If a database on a distant server is chosen, the user must set SQL Server path:

Setup - EVS IPLog2Post Select SQL Server Instance for EVS IPLo	a2Post		
Please enter path to the external SQL Serv			æ
Other instance			
SQL Server path:			
TM03			
	< <u>B</u> ack	Next >	Cancel

6. Configure the IPDirector API address and credentials, as well as the Notification Center address:

VS Softwares Configuration	and the second
Configure access to other EVS softw	ware used.
Please fill in the following fields :	
IPDirector API address:	
http://172.22.52.112:31016/IPW5	5/IPWSNode_V01
IPDirector API login:	
Administrator	
Administrator IPDirector API password:	
1	
IPDirector API password:	
IPDirector API password:	otification/NotificationCenter
IPDirector API password:	otification/NotificationCenter
IPDirector API password:	otification/NotificationCenter

- IPDirector API address (Web Service Node)
- IPDirector login
- IPDirector password

#### Note

The IPDirector login and password are the credentials of the user that performs the login session in IPDirector.

• Notification Center address, that is set in the Reporting System settings of XTAccess (right-click on XTAccess title bar):

porting System Settings	
Processing Device information	
Nickname	
Group	
Reporting configuration	
O No reporting	
Reporting via SOAP protocol	C Automatic discovery of the reporting server
	Notifications frequency 7 Seconds
	Manual configuration of the reporting server
	Reporting server name localhost
	Reporting server port 48888
	Notifications frequency 7 Seconds
	http://localhost:48888/Services/Notification/Notifi
04	
OK	Cancel

The address is typically: <u>http://[IP]:48888/Services/Notification/NotificationCenter</u> where [IP] is either localhost or the IP address of the machine thats host the notification center if it is on a distant machine.



# If the setup is managed by Xsquare, the Notification Center address has the same IP address as Xsquare. In case of mirrored configuration, NotificationCenter virtual IP address must be used.

7. Specify whether a dedicated Avid Interplay Web Server must be used:



8. If "Yes", configure Avid Interplay Web Server and related credentials (if "No", there is nothing to configure):

Setup	- E¥S Live Logging
	oftwares Configuration figure the install for Avid WS
	ase fill in the following fields (they're only used if you answered yes to the previous (stion):
AV:	D WS Host :
ht	p://172.22.53.223:9000/services/Assets
AV:	D WS Uri :
int	erplay://AvidWG/Incoming Media/DBO
AV:	D WS User :
ed	tor
AV.	D WS Password :
••	••
	< <u>B</u> ack <u>N</u> ext > Canc



#### Note

The AVID WS Uri field is used in case only one URI must be used. If the media must be sent to different URIs, then leave this field empty.

9. Configure the queue size, that is the maximum number of elements (IPDirector or XTAccess notifications), that can be kept in memory before being processed. Setting a value between 50 and 50000 is recommended.

🕼 Setup - EVS IPLog2Post	
Queue Configuration Configure advanced features	
Please fill in the following fields :	
Maximum queue size	
5000	
	< Back Next > Cancel



A small value may lead to loss of notifications, whereas a value too big may increase the need of memory for the process.

10. Configure queue management:

명 Setup - EVS IPLog2Post Queue Configuration Configure advanced feat	Jres			
When starting IPLog2Pos initializing the system: C Yes C No	t, do you want to	process the sche	duled operations b	before
		< <u>B</u> ack	<u>N</u> ext >	Cancel



Note

When scheduled operations are processed before initialization of the system, IPLog2Post services are not referenced as running in the monitoring window until queue is completely processed.

11. Once all parameters have been defined, the user clicks the **Install** button to launch the installation process:

📳 Setup - EVS IPLog2Post	_ 🗆 🗙
Ready to Install Setup is now ready to begin installing EVS IPLog2Post on your computer.	$\mathbf{\mathbf{k}}$
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files\EV5 Broadcast Equipment\IPLog2Post	<b>A</b>
Database version after install: 1.5	
Actions on database: Create new database	
x <u>•</u>	-
< <u>B</u> ack	Cancel

12. Click **Finish**, and IPLog2Post is ready to be used.

🚏 Setup - EVS IPLog2Post	
<b> P</b> _Log2Post	Completing the EVS IPLog2Post Setup Wizard Setup has finished installing EV5 IPLog2Post on your computer. The application may be launched by selecting the installed icons. Click Finish to exit Setup.
	Einish

# 3. Application Launch

#### Launching the Application

On the desktop, click the following shortcut icon to launch the IPLog2Post Monitor window:



#### Overview of the Monitoring Window

When you launch the application, the IPLog2Post monitoring window opens. The title bar of the monitoring window displays the solution version and the user connected to the IPDirector API. The monitoring window is composed of 5 areas:

- 1. Title bar: Application version number, user connected to the IPDirector API and XSecure licence validity.
- 2. Logging Session: statistics, starting/stopping session and remove waiting/error jobs
- 3. Error filter: filtering error messages
- 4. Errors: details on failed jobs
- 5. Services: starting/stopping services individually



The last four areas are described in details in the following chapter.

## 4. **Operations**

From the logger point of view, there are no extra operations to be performed with IPLog2Post. IPLog2Post just reflects the log session in Avid Interplay.

### 4.1 IPDirector Logging Session

In IPDirector, the editor performs its logging session in IPLogger with logsheets linked to record train streamed to Avid Interplay: creating, updating or deleting logs. A log is characterized by a Timecode, Interest level, Color, Description and Keywords.

IPLogger - IPLog2Post	+_ □ ×
File Link to PC Timecode 🖬 🥑 Protect All Display PM Coverage Pr	roperties Recreate All Thumbnails Auto Scroll
	×
Log Information Log Metadata (IPLog2Post)	
20:36:26:05	Tape ID:
Switch ENTER / CTRL + ENTER	Remember color selection     Follow previous logs keywords
Keywords	
	INSERT Cancel
No Channel	

In addition, the editor may append the log metadata of the metadata profile linked to the logsheet definition. All these metadata will be available on Avid side.

IPLogger - IPLog2Po	st					<b>.</b> -	∎ x
File Link to PC Tin	iecode 🛅	<ul> <li>Protect A</li> </ul>		Properties	Recreate All Thumbnails	Auto Scroll	
Create a new log							×
Log Information	Log Metadata	(IPLog2Post)					
Logger	Logger 1						
LoggingSession Date							15
Event	News						•
Organisation	Vancouver 2010	) Olympic Winte	r Games				+
Phase							+
Day Number							A V
Gender	Female						+
Logging station	LOGGING STAT	ION 03					+
Recording Location							
Location							
					INS	ERT Can	
			No Channel				

All these operations will then be available, by means IPLog2Post, in Avid Interplay, as it is described in the next section.

### 4.2 Viewing Logs in Third-Party Systems

#### 4.2.1 Avid Interplay Access

Viewing the logs in Avid Interplay Access requires the Object Inspector view to be activated. The Frame Locators tab then displays all the logs attached to the media. Refresh the view by pressing **F5**, which makes all new logs available, as represented in the following picture:



### 4.2.2 Avid Media Composer

In Avid Media Composer, the logs are available in the Locator window as well as in the time-code ruler below the previewer, as shown in the following picture:



		Marker		
Name:	editor	Frame:	2405	
Color:	Green 🔻	Track: V1		
Log Description - Rating 2 - Automatic Keywords (Logger : Logger 1, LoggingSession Date : 05-Nov-2012, Event : News, Organisation : Vancouver 2010 Olympic Winter Games, Phase : n.a., Day Number : 3, Gender : Female, Logging station : LOGGING STATION 03, Recording Location : IBC) - Parent Keywords (KEY1, KEY2, KEY3) - Userfields (SKY Hold Status : , SKY Hold Date : , SKY Archive Status : , DAYPORT Title SEO, Headline : , DAYPORT Ad Sensitivity : , DAYPORT Picture Teaser Headline : , DAYPORT Video Headline : , DAYPORT Thumbnail TC : , DAYPORT Player Allocation : , DAYPORT Category : , ARCHIVE FTX Playlist : )				
Markers			ок	Cancel

In order to view new logs, right-click on the media in the bin, and select **Update from** Interplay.

Reveal File	
Check In To Interplay	
Check In To Interplay For Pro Tool	
Update from Interplay	
Send To	•
Export	

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## 4.3 IPLog2Post Monitoring

### 4.3.1 Managing Logging Session

#### Starting Logging Session

To start a login session, click the **Start logging session** button. It launches all services required for IPLog2Post:

	IPC	irector	Avid In	terplay	
Status	Logs	Logsheets	Media	Logs	
Successful					
Skipped					
Failed					
Waiting					

#### Stopping Logging Session

To stop a logging session, click the **Stop logging session** button. This will stop all services launched for IPLog2Post.



#### Warning

Beware that all information in the database is deleted when you stop a logging session. This implies that all logs that have not yet been sent to Avid Interplay are lost.

	IPD	irector	Avid In	terplay	
Status	Logs	Logsheets	Media	Logs	
Successful					
Skipped					
Failed					
Waiting					

A confirmation is required to stop the logging session:

onfirm		>
This will clean the database All previous logs/logsheets Do you really want to cont	/referencings will be	e lost.
Yes	No	

#### **Removing Incomplete Jobs**

The user can cancel waiting/failed jobs by clicking the **Remove incomplete jobs** button.

	IPD	irector	Avid In	terplay	
Status	Logs	Logsheets	Media	Logs	
Successful					
Skipped					
Failed					
Waiting					

A confirmation is prompted to the user:

Confirm	×
This will cancel all waiting jobs/operations. Do you really want to cancel all waiting jo	an use this to stop a failing job but these logs will be lost ! erations ?
<u>(Y</u>	<u>N</u> o

### 4.3.2 Managing Log Gateway

#### Starting Log Gateway

Log Gateway services can be started individually by clicking the **Start Service** button in Log Gateway Services area:

Services	
LogGateway	
Status:	
Connection to IPDirector:	
Connection to RefAgent:	
Connection to the Notification Center:	
Start Service	

A confirmation is then prompted to the user:

Confirm		×
This will start the Do you really w		
Ves	No	1
res	NO	

Once the user has clicked Yes, the services are started:

Services	
LogGateway	
Status:	Working
Connection to IPDirector:	
Connection to RefAgent:	
Connection to the Notification Center:	
Stop Service	

#### Stopping Log Gateway

Log Gateway services can be stopped individually by clicking the **Stop Service** button in Log Gateway Services area:

LogGateway	
Status:	
Connection to IPDirector:	
Connection to RefAgent:	
Connection to the Notification Center:	

A confirmation is then prompted to the user:

Confirm	×
This will stop the Do you really w	e LogGateway ! Jant to continue ?

Once the user has clicked Yes, the Log Gateway services are stopped:

Services	
LogGateway	
Status:	
Connection to IPDirector:	
Connection to RefAgent:	
Connection to the Notification Center:	
Start Service	

### 4.3.3 Managing Referencing Agent

#### Starting Referencing Agent

Referencing Agent service can be started individually by clicking the **Start Service** button in Referencing Agent Service area.

ReferencingAgent		
Status:		
	Start Service	

A confirmation is then prompted to the user:

Confirm	X	I
This will start the R Do you really want		
Yes	No	

Once the user has clicked **Yes**, the service is started:



#### Stopping Referencing Agent

Referencing Agent service can be stopped individually by clicking the **Stop Service** button in Referencing Agent Service area:

ReferencingAgent		
Status:		Working
	Stop Service	

A confirmation is then prompted to the user:

onfirm	×
This will stop the De	ferencingAgent !
This will scop the Re	
Do you really want	

Once the user has clicked **Yes**, the Referencing Agent service is stopped:

ReferencingAgent		
Status:		
	5. 1.5	
L	Start Service	

### 4.3.4 IPLog2Post Statistics

The IPLog2Post monitoring interface gives information about logging session statistics:

- Total of successful, failed, or waiting IPDirector logs
- Total of successful, failed, or waiting IPDirector logsheets
- Total of media referenced in Interplay as successful, failed, or waiting
- Total of successful, failed, or waiting logs submitted to Interplay

These statistics are displayed in the Session area of the monitoring interface, as displayed in the following screenshot:

ogging Session						
	IPDirector		Avid Ir	nterplay		
Status	Logs	Logsheets	Medias	Logs		
Successful						
Skipped						
Failed						
Waiting						
				Stop logging sea	ssion	Remove Incomplete Jobs

#### 4.3.5 Error Messages

When some elements have failed, the monitoring gives more precise information, on the kind of element that failed. The error information is displayed n the Errors area.

Element	Comment	Error	Date	ID
Log	Comment of the log	Error message	Date of reception of notification	IPDirector Guid
Logsheet	Logsheet and name of logsheet	Error message	Date of reception of notification	IPDirector Guid
Medias	N/A	Error message	Date of referencing	Media Umid
Log Job	Comment of the log	Error message	Creation date of log job	Log IPDirector Guid and Umid

If there are too many error messages, it is possible to filter them and only display messages created after a date and time specified by the user. Click the **Update Filter** button to apply the defined filter:

Error Filter						
			Monday, June 25, 2012	15		Update Filter

# 5. Configuration Files

Four configuration files are stored in the IPLog2Post folder shown below:

🗃 IPLog2Post		
File Edit View Favorites Tools Help		
🕒 Back 👻 🕥 🖌 🏂 🔎 Search 🌾 Folders	😂 🏂 >	< 🍤 🛄 ·
Address 🛅 C:\Program Files\EVS Broadcast Equipment\IPLo	og2Post	
Name	Size	Туре 🔻
IPLog2Post.ReferencingAgentService.exe.config	3 KB	CONFIG File
IPLog2Post.LogGatewayService.exe.config	8 KB	CONFIG File
IPLog2Post.LogGateway.Monitoring.vshost.exe.config	3 KB	CONFIG File

You will find below the list of the configuration parameters for each configuration file:

- IPLog2Post.LogGateway.Monitoring.exe.config:
  - o Monitoring refresh frequency
  - Connection to the database (connection string)
- IPLog2Post.LogGateway.Service.exe.config:
  - o Information about IPDirector API (User and password)
  - Paths for logs and dumps
  - Information about Avid configuration (User, password, Interplay Web server location, ...).
  - Possibility to assign specific values for requests to the API in order to avoid timeouts.
- IPLog2Post.ReferencingAgentService.exe.config:
  - Path for logs

# 6. IPLog2Post log files

IPLog2Post produces applicative log files that are stored under C:\EVSLogs\IPLog2Post:

🚞 IPLog2Post	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u>	ools <u>H</u> elp
😋 Back 🝷 📀 🝷 🏂 🔎	Search 😥 Folders 🛛 🎼 🎲 🗙
Address 🛅 C:\EVSLogs\IPLog2Pos	it
Name	Size Type 🔺
🚞 Install	File Folder
CogGateway	File Folder
ReferencingAgent	File Folder

Logs are created relatively to Installation, Log Gateway and Referencing Agent services and stored in dedicated folders.



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