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LAST UPDATED

26 June 2013
GIPSO: AN IPDIRECTOR API

IPDirector offers an integrated API (Application Programming Interface) starting with version 5.8. The API is a standard SOAP Web service and is available on each IPDirector workstation.

The API, named GIPSO (Gateway IPDirector SOAP), provides access to the entire IPDirector database and the opportunity to manage the objects controlled by IPDirector. It is a single point of contact for viewing the entire EVS server network, and its architecture allows for load balancing and fault tolerance.

The API can send notifications to the API client when an object is created, updated or deleted.

It also offers users the opportunity to develop applications to feed the IPDirector’s workgroup or to retrieve the information available in the IPDirector database.
CONFIGURATION

GIPSO is an IPDirector service:

This API answers to HTTP requests on the port TCP:31016 (configurable) and can be tested in http://IPDaddress:31016/IPWS.

It can be run in two modes:

> **API Server**
  > This runs on an IP Director
  > It executes function calls
  > It uses IPDirector component to execute calls
  > It needs IP Routing and SynchroDB

> **API Proxy**
  > It usually runs on DB servers
  > It routes API calls to API servers
  > It can be installed in standalone (no need of other services)
ARCHITECTURE

> 1 API Server running:

Be aware of:
  > This is a Single Point Of Failure
  > There is no redundancy and no failover

> More than 1 API server + 1 or 2 Proxies
  > Proxies are on redundant DB servers using Virtual IP
  > Proxy routes requests to API servers (load balancing)
  > Proxy detects API server loss (redundancy – failover)

  > The API Proxy routes the request to the less charged API.

GIPSO can be automatically detected by a client application through the Bonjour protocol.

INTEGRATION EXAMPLE

Several third-parties software are using this API: Vizrt Ardome (MAM), Irdeto Dayport (web publishing), Dalet (MAM), SGL FlashNet (Archive)…
KEY FEATURES

> Clip management
  > Create, update and delete clips on servers or IPDirector nearline
  > List the clips available in the IPDirector database, along with their metadata
  > Search for clips in the IPDirector database based on metadata

> Playlist management
  > Create, update and delete online or offline playlists
  > Add, remove, move an element in a playlist
  > List the playlists available in the IPDirector database, along with their metadata

> Timeline management
  > List the timelines available in the IPDirector database, along with their metadata

> Bin management
  > Create and delete bins in the IPDirector database
  > Add objects to a bin and retrieve the content of a bin

> Log management
  > Create, update and delete log sheets and logs
  > List the log sheets and logs in the IPDirector database, along with their metadata

> User management
  > User rights applied to each API call
  > Create and delete a user, change the user password

> Production servers and channels

> Retrieve the list and statuses of the servers managed by the IP Director workgroup
  > Retrieve the list and statuses of the channels (recorders and players) managed by the IPDirector workgroup

The complete API documentation is available under NDA.
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