



 etcorp

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Stage 1 Installer

Installer Mode

Description

The installer mode chooser panel. Each button corresponds to a stage one GPAC installation mode.

How-to

To install a fresh GPAC system, select Install.

Inputs

Input Name	Type	Description
Install	button	Starts the installation wizard for a fresh GPAC System®.

Licence

Description

The licence agreement GPAC users are bound to.

How-to

Read carefully through the licence agreement. To accept the terms, check the licence agreement check box and select Next to proceed. To reject the terms, cancel immediately.

Inputs

Input Name	Type	Description
Licence Agreement	checkbox	The agreement to the licence and its conditions is signified by checking here.

Partition Configuration

Description

Lists the available methods of installation.

How-to

There are several ways of installing the GPAC depending on your hardware and desired configuration. GPAC requires an OS (operating system) drive and log area. Both local drives and remote network drives via NFS (Network File System) support log storage. NFS allows the GPAC to store logs on a networked remote system as easily as if attached to its local disks.

Hardware	Scheme	Description
One Storage Drive	Single Drive - OS and Log on One Drive	Install the GPAC system and log on the drive selected. The drive must be at least 2 gigabytes to support this configuration.
Two Storage Drives	Dual Drive - Separate OS and Log Drives	Install the GPAC system on one drive and store logs on the other drive.

Inputs

Input Name	Type	Description
Partition Configuration		Defines the partitioning scheme to use for this installation. Choosing an option will present different fields below for further customisation.

Device Selection

Description

A listing of the media present on this system is presented.

How-to

There are several types of media available to store both the GPAC and its data on, and these are listed in the table presented. A hard disk drive (HDD) is a digitally encoded non-volatile storage device which stores data on rapidly rotating platters with magnetic surfaces. The capacity and reliability of hard drives is high, making this ideal storage for GPAC data. CompactFlash (CF) was originally a type of data storage device, used in portable electronic devices. Although only supporting a limited number of erase and write cycles, their performance and reliability are exceptional, especially as the GPAC limits the writes made where possible.

Adjacent to the devices listed in the table will be any other information pertaining to the devices such as vendor, model, capacity and node. The vendor, model and capacity are determined directly from the device to aid in identification. The node corresponds to storage devices that have already been detected by the Linux kernel, in the order of hardware assignment. This information may aid in configuring the system boot up process in determining which device to boot from. Check the boot order in your system basic input/output system (BIOS) if boot up fails after installation, and consult the system motherboard manual on how to do so.

Carefully select the drives to be assigned as the GPAC Operating System and Data Storage

drives from the drop down list. The operating system drive must be at least 1GB and must be the first harddrive in the hardware list. A log drive stores system logs, video and recorded data. The more space available for logs, the more back data the GPAC will be able to store. Select the device to be used for logs in the Data Storage device list.

Without any storage devices, the GPAC installation cannot proceed.

Inputs

Input Name	Type	Description
OS and Log Drive	list	The list box containing choices for the storage of the GPAC software runtime environment and logs. At least 2GB of capacity is required.
OS Drive	list	The list box containing choices for the storage of the GPAC software runtime environment.
Start Partitioning	checkbox	Confirms the selected devices and begins the installation.
Next	button	Proceeds with the installation.

Licence Key

Description

Entry fields for the serial and licence key that is associated with this GPAC installation.

How-to

Enter both the serial and licence key exactly as supplied, include all symbols and distinction between capital and lowercase characters. The installation will not proceed without valid licence information. If an entry error is made more than three times, the installation will cancel. Once verified, a dialog will indicate what the system is licensed for.

Inputs

Input Name	Type	Description
Serial	text	The serial component of the licence information.
Licence	text	The licence component of the licence information.
Clear Fields	button	Reset and clear the licence information input.
Submit	button	Validate the entered serial and licence keys.

Progress

Description

Gives an indication to the progress of the installation process.

How-to

This is an informational screen for progress-reporting purposes. No input is needed or expected. This process is expected to take several minutes.

Complete

Description

Outputs final installation information and prepares system for reboot.

How-to

Select reboot, wait for shutdown and remove the installation media while the system is rebooting.

Inputs

Input Name	Type	Description
Reboot	button	Finishes the GPAC stage one installer and reboots the system.

Stage 2 Installer

Administrator Configuration

Description

System Administrators have unrestricted access to all areas of the GPAC System®. Set a strong and secure password for this user. It is crucial to the security of the installation.

How-to

Type in the password in the first password field and the same password in the second field for confirmation, then press update.

Inputs

Input Name	Type	Description
Password Field	text	First field for System Administrator password.
Confirm Password Field	text	Second field for System Administrator password.
Clear Password Fields	button	Clears the entered passwords.
Update Administrator Password	button	Updates the Administrator account to the entered password

System Configuration

Please refer to System Configuration, page 70

Classification Configuration

Please refer to Classifications, page 64

User Level Configurations

Please refer to User Levels, page 76

User Manager

Please refer to User Manager, page 77

Network Manager

Please refer to page Network Configuration, page 68

Environment Configuration

Please refer to Environments, page 24

Camera Configuration

Please refer to Discover Cameras, page 36

Module Configurations

Please refer to Discover Modules, page 41

Device Configuration

Please refer to Device Configuration, page 44

Trigger Configurations

Please refer to Trigger Actions, page 30

Communications centre

Please refer to Communications Centre, page 65

Schedule Configuration

Please refer to Schedule Configuration, page 27

Trigger Action configuration

Please refer to Trigger Actions, page 30

Review Table

Description

Allows for easy navigation to pages controlling the initial set up of the GPAC System® at the deployed site.

How-to

Select the area to visit for configuration. The stage 2 installation will navigate to that page for configuration.

All Interfaces Table

Description

Lists all the interfaces configured in the GPAC System® (modules, cameras, devices, trigger actions) and their working status.

How-to

Once all devices have passed verification, check the adjacent boxes and select Save List.

Inputs

Input Name	Type	Description
Save List	button	Saves the verified status of the items listed.
Select All	button	Places a check in the boxes adjacent to all listed trigger actions.
Unselect All	button	Removes the checks in the boxes adjacent to all listed trigger actions.
Check	checkbox	Indicates the adjacent item has been verified.

Finalise Commissioning

Description

Input fields that are saved to the GPAC about the installer, client and any issues experienced with devices.

How-to

Enter the details as shown on the left and submit the form to complete the process. Any issues experienced at time of submission can be listed in the outstanding item box.

Inputs

Input Name	Type	Description
Installer's Name	text	The name of the person installing the GPAC System® for this site.
Client Representative's Name	text	The name of the client that this GPAC System® has been commissioned for.
We declare that the system has been fully commissioned	checkbox	Confirmation check box that the system has completed the commissioning process.
Outstanding Items	text	A listing of any areas in which the commissioning has encountered problems, for example with a particular device, module, camera or relationship.
Clear Fields	button	Resets and clears the input fields from System Commissioning Completed.
Submit	button	Saves and stores the data from the System Commissioning Completed process.

Registration

Description

The details to register the GPAC product against.

How-to

Fill out the registration details and

Inputs

Input Name	Type	Description
Company / Organisation Name	text	The name of the company or organisation registering this product.
Address	text	The address of the company or organisation registering this product.
Zipcode	text	The zipcode of the company or organisation registering this product.
State	text	The state that the company or organisation registering this product operates from.
City	text	The current residential city of the user.
Country	text	The country that the company or organisation registering this product operates from.
Email Address	text	An email address of the company or organisation registering this product.
Has automation been made easier	checkbox x	If the process of creating an automated system has been eased by the GPAC System®, checking this box will indicate so.
Any comments	text	Any information entered here will be relayed as part of the registration process back to Embedded Technologies Corporation Pty Ltd.
Clear Fields	button	Resets and clears the inputs defined in registration.
Submit	button	Saves and if possible transmits the registration data to Embedded Technologies Corporation Pty Ltd.

Complete Stage 2

Description

Saves all changes made to the GPAC and deactivates the stage two installation wizard, then activates the GPAC in multiuser mode.

How-to

Once all required configuration has been completed and verified, select Yes to complete the stage two installation and activate the GPAC in multiuser mode.

Inputs

Input Name	Type	Description
Commit	button	Indicates whether to complete the stage two installation and save changes.

Control

Configuration Files

Description

The global listing of all configuration files that can be imported or exported.

How-to

To export files, locate the CSV button adjacent to the label corresponding to the configuration to be saved. Select the CSV button and save the file in a convenient location.

To view the file as it would be exported, select the view button adjacent to the corresponding configuration label.

Enter the location on the file to be transferred or use the browse button for guidance. Once located, transfer the file by selecting Upload file. Alternatively, if multiple configurations are being uploaded, enter or browse the file locations and select Upload All from below the list. Note: Duplicate conflicting entries are not automatically corrected from this page. Conflict correction will only occur when uploading a configuration file to the corresponding page. When a conflict occurs from this page, the choices are to abort or to flush the table. Flushing the table will remove all current records within the GPAC System® and replace them with the records from the CSV file.

The first row of the CSV file comprises of field definitions and the remaining rows contain the data, one row for each entry. The file can be opened and altered via any spreadsheet application such as OpenOffice Calc, Google Spreadsheets or Microsoft Office Excel.

Inputs

Input Name	Type	Description
Camera File	text	The path to the camera configuration file.
Camera Export	button	Exports the camera configuration file.
Camera View	button	Views the camera configuration file.
Camera Browse	button	Opens a file selection dialog to aid in locating the camera configuration file.
Camera Upload	button	Performs the transfer of the camera configuration file to the GPAC System®.
Trigger Actions File	text	The path to the trigger actions configuration file.
Trigger Actions Export	button	Exports the trigger actions configuration file.
Trigger Actions View	button	Views the trigger actions configuration file.
Trigger Actions Browse	button	Opens a file selection dialog to aid in locating the trigger actions configuration file.
Trigger Actions Upload	button	Performs the transfer of the trigger actions configuration file to the GPAC System®.
Schedule File	text	The path to the schedule configuration file.
Schedule Export	button	Exports the schedule configuration file.
Schedule View	button	Views the schedule configuration file.
Schedule Browse	button	Opens a file selection dialog to aid in locating the schedule configuration file.
Schedule Upload	button	Performs the transfer of the schedule configuration file to the GPAC System®.
Device File	text	The path to the device configuration file.
Device Export	button	Exports the device configuration file.
Device View	button	Views the device configuration file.
Device Browse	button	Opens a file selection dialog to aid in locating

		the device configuration file.
Device Upload	button	Performs the transfer of the device configuration file to the GPAC System®.
Module File	text	The path to the module configuration file.
Module Export	button	Exports the module configuration file.
Module View	button	Views the module configuration file.
Module Browse	button	Opens a file selection dialog to aid in locating the module configuration file.
Module Upload	button	Performs the transfer of the module configuration file to the GPAC System®.
Trigger File	text	The path to the trigger configuration file.
Trigger Export	button	Exports the trigger configuration file.
Trigger View	button	Views the trigger configuration file.
Trigger Browse	button	Opens a file selection dialog to aid in locating the trigger configuration file.
Trigger Upload	button	Performs the transfer of the trigger configuration file to the GPAC System®.
Upload All	button	Performs the transfer of all configuration files to the GPAC System®.
Flush database when uploading configs	checkbox	Clears the configuration in the GPAC System® prior to uploading the configuration files being sent. This ensures no conflicting data between current GPAC configuration and that from the incoming CSV files.
help	button	Explains the workings of the GPAC configuration upload process.

Module CSV

Description

The GPAC System® can save and restore module configuration for offline backup, GPAC

replicated deployments or offline editing purposes. This section assists in the generation and management of the module configuration. Field and value descriptions for the CSV are available from the module configuration page.

How-to

Preview the current module configuration in CSV format by selecting the 'view' button near export. This can be subsequently saved by selecting the 'csv' button also next to export. The file containing the configuration can be edited in a spreadsheet application, or stored. Once a configuration has been saved, it can be sent back to the GPAC and re-imported. To upload an existing configuration, enter the location in the Upload File text field (or use Browse for a file selection dialog) and select Upload File to complete the transfer.

Inputs

Input Name	Type	Description
Upload Settings File	text	A local path referencing a CSV file that contains information about modules.
Upload File	button	Performs the transfer of the local CSV module configuration file to the GPAC System®.
Browse	button	Opens a file selection dialog to aid in locating the CSV file containing module information.
Flush Database	checkbox	Clears any currently configured modules from the GPAC server as the import is performed.
Export CSV	button	Opens a file save dialog for a CSV file containing module information.
View CSV	button	Previews the CSV file that would be exported containing module information.
Key	text	
Name	text	
Environment	text	
IP Address	text	
Mac Address	text	
Module Type	text	

Watchdog	text	
Classification Level	text	

Camera CSV

Description

The GPAC System® can save and restore camera configuration for offline backup, GPAC replicated deployments or offline editing purposes. This section assists in the generation and management of the camera configuration. Field and value descriptions for the CSV are available from the camera configuration page.

How-to

Preview the current camera configuration in CSV format by selecting the 'view' button near export. This can be subsequently saved by selecting the 'csv' button also next to export. The file containing the configuration can be edited in a spreadsheet application, or stored. Once a configuration has been saved, it can be sent back to the GPAC and re-imported. To upload an existing configuration, enter the location in the Upload File text field (or use Browse for a file selection dialog) and select Upload File to complete the transfer.

Inputs

Input Name	Type	Description
Upload Settings File	text	The full path to the CSV file containing camera configuration settings.
Upload File	button	Transfers the camera configuration CSV to the GPAC System®.
Browse	button	Opens a file selection dialog box to aid in locating the camera configuration CSV.
Flush Database	checkbox	Clears any currently configured cameras from the GPAC server as the import is performed.
Export CSV	button	Transfers the camera configuration CSV from the GPAC System® for local storage.
View CSV	button	Previews the configuration CSV that would be exported containing camera configuration information.

Key	text	
Type	text	
Environment	text	
Format	text	
Name	text	
Host	text	
Port	text	
Mac Address	text	
Resolution	text	
FPS	text	
Post Record	text	
Pre Record	text	
Rebroadcast Stream	text	
Transcode Stream	text	
Rebroadcast Stream Port	text	
Rebroadcast Username	text	
Rebroadcast Password	text	
Username	text	
Password	text	
Classification Level	text	
Custom Path	text	

Device CSV

Description

The GPAC System® can save and restore device configuration for offline backup, GPAC replicated deployments or offline editing purposes. This section assists in the generation and management of the device configuration. Field and value descriptions for the CSV are available from the device configuration page.

How-to

Preview the current device configuration in CSV format by selecting the 'view' button near export. This can be subsequently saved by selecting the 'csv' button also next to export. The file containing the configuration can be edited in a spreadsheet application, or stored. Once a configuration has been saved, it can be sent back to the GPAC and re-imported. To upload an existing configuration, enter the location in the Upload File text field (or use Browse for a file selection dialog) and select Upload File to complete the transfer.

Inputs

Input Name	Type	Description
Upload Settings File	text	The local path to the settings file in CSV format. This is used when sending a pre-configured setup.
Upload File	button	Performs the transfer of the local CSV device configuration file to the GPAC System®.
Browse	button	Opens a file selection dialog to aid in locating the CSV file containing device information.
Flush Database	checkbox	Clears any currently configured devices from the GPAC server as the import is performed.
Export CSV	Export CSV	Sends the current CSV device configuration from the GPAC System® for local storage.
View CSV	button	Previews the configuration CSV that would be exported containing device configuration information.
Key	text	
Name	text	
Environment	text	
Module	text	

Signal Type	text	
Icon	text	
Channel Number	text	
Decimal Places	text	
Enable Log	text	
Log Rate	text	
Log Rate Unit	text	
Raw Value Low	text	
Raw Value High	text	
Raw Value Unit	text	
Eng Value Low	text	
Eng Value High	text	
Eng Value Unit	text	
Default State	text	
Device Mode Type	text	
Classification Level	text	

Trigger CSV

Description

The GPAC System® can save and restore trigger configuration for offline backup, GPAC replicated deployments or offline editing purposes. This section assists in the generation and management of the trigger configuration. Field and value descriptions for the CSV are available from the trigger configuration page.

How-to

Preview the current trigger configuration in CSV format by selecting the 'view' button near

export. This can be subsequently saved by selecting the 'csv' button also next to export. The file containing the configuration can be edited in a spreadsheet application, or stored. Once a configuration has been saved, it can be sent back to the GPAC and re-imported. To upload an existing configuration, enter the location in the Upload File text field (or use Browse for a file selection dialog) and select Upload File to complete the transfer.

Inputs

Input Name	Type	Description
Upload Settings File	text	A local path referencing a CSV file that contains information about triggers.
Upload File	button	Transfers the trigger configuration CSV to the GPAC System®.
Browse	button	Opens a file selection dialog to aid in locating the CSV file containing trigger information.
Flush Database	checkbox	Clears any currently configured triggers from the GPAC server as the import is performed.
Export CSV	button	Opens a file save dialog for a CSV file containing trigger information.
View CSV	button	Previews the CSV file that would be exported containing trigger information.
Condition	text	
Trigger Value	text	

Trigger Action CSV

Description

The GPAC System® can save and restore trigger action configuration for offline backup, GPAC replicated deployments or offline editing purposes. This section assists in the generation and management of the trigger action configuration.

How-to

Preview the current trigger actions configuration in CSV format by selecting the 'view' button near export. This can be subsequently saved by selecting the 'csv' button also next to export. The file containing the configuration can be edited in a spreadsheet application, or stored. Once a configuration has been saved, it can be sent back to the GPAC and re-imported. To upload an

existing configuration, enter the location in the Upload File text field (or use Browse for a file selection dialog) and select Upload File to complete the transfer.

Inputs

Input Name	Type	Description
Upload Settings File	text	A local path referencing a CSV file that contains information about trigger actions.
Upload File	button	Transfers the trigger action configuration CSV to the GPAC System®.
Browse	button	Opens a file selection dialog to aid in locating the CSV file containing trigger action information.
Flush Database	checkbox	Clears any currently configured trigger actions from the GPAC server as the import is performed.
Export CSV	button	Opens a file save dialog for a CSV file containing trigger actions.
View CSV	button	Previews the CSV file that would be exported containing trigger actions.
Parent Device Key	text	
Child Device Key	text	
Trigger	text	
Contact Set	text	
Alarm	text	
Action value	text	
Classification Level	text	
Schedule	text	

Schedule CSV

Description

The GPAC System® can save and restore schedules configuration for offline backup, GPAC replicated deployments or offline editing purposes. This section assists in the generation and management of the schedule configuration.

How-to

Preview the current schedule configuration in CSV format by selecting the 'view' button near export. This can be subsequently saved by selecting the 'csv' button also next to export. The file containing the configuration can be edited in a spreadsheet application, or stored. Once a configuration has been saved, it can be sent back to the GPAC and re-imported. To upload an existing configuration, enter the location in the Upload File text field (or use Browse for a file selection dialog) and select Upload File to complete the transfer.

Inputs

Input Name	Type	Description
Upload Settings File	text	A local path referencing a CSV file that contains information about schedules.
Upload File	button	Transfers the schedule configuration CSV to the GPAC System®.
Browse	button	Opens a file selection dialog to aid in locating the CSV file containing trigger action information.
Flush Database	checkbox	Clears any currently configured schedules from the GPAC server as the import is performed.
Export CSV	button	Opens a file save dialog for a CSV file containing schedules.
View CSV	button	Previews the CSV file that would be exported containing schedules.
Name	text	
Description	text	
Start Time	text	
Duration(m)	text	

Days	text	
------	------	--

Environments

Environment Table

Description

This section will display an add button to add new environments and a list of existing environments with their name, description and classification.

How-to

Select the Add Environment button to view the add environment panel. Selecting an environment from the list will cause the view environment panel to be visible. From there, an existing environment can be modified by selecting Edit or deleted by selecting delete.

Inputs

Input Name	Type	Description
Add Environment	button	When selected, this will make the environment editor visible.

Edit Environment

Description

A form for editing or removing an environment from the GPAC System®.

How-to

Select Delete to remove this environment from the system configuration. To update the environment, change the fields required and then select update. The information in the fields can be cleared by selecting Clear Fields.

Inputs

Input Name	Type	Description
Environment Name	text	A text input field for assigning a unique name to this

		environment.
Environment Description	text	A text input field for assigning a descriptive name to this environment.
Environment Classification	list	Assigns the selected classification level to this environment.
Clear	button	Clear and reset the input fields.
Add Environment	button	Add this environment using the values entered.
Update Environment	button	Update this environment using the values entered.
Delete Environment	button	Remove this environment from the list of environments.
Edit Environment	button	Change the properties of this environment.
Add Metadata	button	Opens the editing field for metadata relating to this environment.
Update Metadata	button	Update this metadata using the values entered.
Create New Metadata	button	Allows the addition of information against the environment being edited.
Edit Metadata	button	Change the properties of this metadata.
Back	button	Returns to the listing of metadata already entered for this environment.
Key	text	A short, succinct name for this metadata entry.
Name	text	A descriptive title for this metadata entry.
Mime Type	list	An Internet media type that describes the type of content being attributed to this data.
Classification Level	list	The classification level this metadata is assigned to.
Add Classification	button	Creates a new classification level.
Data	text	The metadata entry to be placed against the environment.
Display in GPAC Overview	checkbox	Enabling this option will list the metadata entered on

		the Overview page.
Remove Metadata	button	Remove assigned metadata from this environment.
Delete Metadata	button	Remove this metadata from the system.
Append to Set	button	Assigns metadata to this environment.

Overview

Description

A hierarchical view of the configuration of the GPAC System®.

How-to

Select an area to drill down in to for more information. Initially, the environment overview is displayed. When an environment is selected, all devices belonging to that environment are listed. Devices can be selected from this point to display their properties.

Confirm Reboot

Description

A dialog box that asks for reboot confirmation.

How-to

To complete the reboot, select yes. To abort, select no. The GPAC System® will take at least five minutes to become available again.

Inputs

Input Name	Type	Description
Yes	button	Confirms and performs the system restart.
No	button	Does not perform the system restart.

Confirm Save

Description

A dialog box that asks for confirmation on configuration saves.

How-to

The server does not automatically save changes applied to the machine for reasons of extending the life time of compact flash media as far as possible by minimising writes. To complete the save, select yes. To abort, select no. If changes are unsaved, on the next reboot, the GPAC will revert to the previous configuration. No changes that have been made will be kept until the configuration has been saved.

Inputs

Input Name	Type	Description
Yes	button	Confirms and performs the system save.
No	button	Does not perform the system save.

Schedule Configuration

Description

A summary listing of the configured schedules.

How-to

For a new schedule, select Add Schedule from the Schedules table or select an existing schedule and then edit. Enter the properties of the schedule as required for desired time frame. Once filled out, the schedule configuration can be committed by selecting Add if it is a new schedule or Update if an existing schedule is being modified.

Inputs

Input Name	Type	Description
Name	text	The unique identifying name of the schedule.
Description	text	A description of the schedule to help identify the purpose of the

		schedule.
Start Hour	list	The hour of the day to start from.
Start Minute	list	The minute in the hour to start from.
Duration	text	The duration (in hours or minutes based upon the units selected) of the schedule.
Duration Units	list	The units of the duration.
Days	checkbox	The combination of days that the schedule is started on.
Clear Fields	button	Resets and clears the schedule configuration panel.
Add Schedule	button	Opens the Schedule Configuration properties panel for the creation of a schedule.
Add	button	Saves the new schedule to the GPAC System®.
Update	button	Saves the modified configuration of this schedule to the GPAC System®.
Edit	button	Modifies the properties of the selected schedule.
Delete	button	Removes this schedule from the system configuration.

Schedule CSV

Description

The GPAC System® can save and restore schedules configuration for offline backup, GPAC replicated deployments or offline editing purposes. This section assists in the generation and management of the schedule configuration.

How-to

Preview the current schedule configuration in CSV format by selecting the 'view' button near export. This can be subsequently saved by selecting the 'csv' button also next to export. The file containing the configuration can be edited in a spreadsheet application, or stored. Once a configuration has been saved, it can be sent back to the GPAC and re-imported. To upload an existing configuration, enter the location in the Upload File text field (or use Browse for a file selection dialog) and select Upload File to complete the transfer.

Inputs

Input Name	Type	Description
Upload Settings File	text	A local path referencing a CSV file that contains information about schedules.
Upload File	button	Transfers the schedule configuration CSV to the GPAC System®.
Browse	button	Opens a file selection dialog to aid in locating the CSV file containing trigger action information.
Flush Database	checkbox	Clears any currently configured schedules from the GPAC server as the import is performed.
Export CSV	button	Opens a file save dialog for a CSV file containing schedules.
View CSV	button	Previews the CSV file that would be exported containing schedules.
Name	text	
Description	text	
Start Time	text	
Duration(m)	text	
Days	text	

Confirm Shutdown

Description

A dialog box that asks for shutdown confirmation.

How-to

To complete the shutdown, select yes. To abort, select no. The GPAC System® will not be available again until the system is physically restarted.

Inputs

Input Name	Type	Description
Yes	button	Confirms and performs the system halt.
No	button	Does not perform the system halt.

Confirm Activation

Description

A dialog box that asks for activation confirmation.

How-to

To activate the system, select yes. To abort, select no. The GPAC System® will not monitor or react to events while stopped.

Inputs

Input Name	Type	Description
Yes	button	Confirms and performs the system activation.
No	button	Does not perform the system halt.

Trigger Actions

Trigger Action Table

Description

A summary listing of the configured trigger actions and the relationship between two devices.

How-to

Mapping a dependency between devices relies on having a trigger value configured for the relationship to exist. Once trigger values have been configured, select Add Trigger Action. Select the devices to participate in the relationship. In the case that the device has no other device as a dependency, select No Device as the dependent device. Finally, set the remaining

properties as desired and Add the Trigger Action. When the trigger condition is met, the system will react as specified.

From the trigger actions table, select the dependency to be removed. An overview panel will appear on the right. From there, select Delete and confirm the operation.

Trigger Action Configuration

How-to

For a new dependency, select Add Trigger Action from the Trigger Actions table or select an existing dependency and then edit. Enter the properties of the trigger action as required for desired functionality. Once filled out, the trigger actions configuration can be committed by selecting Add if it is a new trigger action or Update if an existing trigger action is being modified.

Inputs

Input Name	Type	Description
Device	list	An input device to create a dependency from.
Dependent Device	list	An output device to create a dependency to. Alternatively, this can be set to none if the relationship does not rely on output.
Trigger	list	The triggering value that indicates when this action will occur.
Alarm	checkbox	Activate the GPAC alarm when the trigger conditions are met.
Action Value	list	The action to perform on the dependent device when the trigger condition occurs.
Position	list	The pan-tilt-zoom capable camera should move to this predefined position on receipt of the trigger condition.
Delay	text	The pan-tilt-zoom capable camera should move to this predefined position on receipt of the trigger condition, and stay in that position for this many number of seconds.
Schedule	list	The schedule determining the operating time for the action.
Contact Set	list	The contact set to alert if the trigger condition occurs when this dependency is configured for alarm notifications.
Add Contact Set	button	Create a new contact set.
Classification	list	Assigns the selected classification level to this dependency.

Level		
Add Classification	button	Creates a new classification level.
Clear Fields	button	Resets and clears the trigger action configuration panel.
Add Trigger Action	button	Opens the Trigger Action properties panel for the creation of a trigger action.
Add	button	Saves the new trigger action to the GPAC System®.
Update	button	Saves the modified configuration of this trigger action to the GPAC System®.
Edit	button	Modifies the properties of the selected trigger action.
Delete	button	Removes this trigger action from the system configuration.

Trigger Action CSV

Description

The GPAC System® can save and restore trigger action configuration for offline backup, GPAC replicated deployments or offline editing purposes. This section assists in the generation and management of the trigger action configuration.

How-to

Preview the current trigger actions configuration in CSV format by selecting the 'view' button near export. This can be subsequently saved by selecting the 'csv' button also next to export. The file containing the configuration can be edited in a spreadsheet application, or stored. Once a configuration has been saved, it can be sent back to the GPAC and re-imported. To upload an existing configuration, enter the location in the Upload File text field (or use Browse for a file selection dialog) and select Upload File to complete the transfer.

Inputs

Input Name	Type	Description
Upload Settings File	text	A local path referencing a CSV file that contains information about trigger actions.
Upload File	button	Transfers the trigger action configuration CSV to the GPAC System®.
Browse	button	Opens a file selection dialog to aid in locating the CSV file

		containing trigger action information.
Flush Database	checkbox	Clears any currently configured trigger actions from the GPAC server as the import is performed.
Export CSV	button	Opens a file save dialog for a CSV file containing trigger actions.
View CSV	button	Previews the CSV file that would be exported containing trigger actions.
Parent Device Key	text	
Child Device Key	text	
Trigger	text	
Contact Set	text	
Alarm	text	
Action value	text	
Classification Level	text	
Schedule	text	

Triggers

Trigger Table

Description

The table of trigger conditions as they apply to devices. These are stored as decimal numbers but will be converted to the appropriate type based on the device being handled.

How-to

The table below will provide a guide on the symbols and how they are interpreted by devices.

Condition	Meaning
-----------	---------

= Check that it is equal to

<= Check that it is less than or equal

Condition	Meaning
-----------	---------

to

>= Check that it is greater than or equal to

< Check that it is less than

> Check that it is greater than

Select Add Trigger, define the trigger value and condition. For digital devices, the trigger value will only equate to zero or one.

Select a trigger to be modified or removed. This displays the configuration display panel on the right. To delete the device, select Delete from the panel and confirm the removal. To edit the device, select Edit from the panel. Modify the properties of the trigger and select Update when complete.

Inputs

Input Name	Type	Description
Add Trigger	button	Opens the trigger properties panel for the addition of a new trigger condition.

Trigger Configuration

Inputs

Input Name	Type	Description
Trigger Value	text	The engineering value that the device utilising this trigger will activate at. For digital devices, the trigger value is based upon the default state text. For cameras, the trigger value is 1.0 for recording 0.0 stands for not recording.
Condition	list	The conditional value that the device utilising this trigger will activate at.
Clear Fields	button	Clears and resets the input on the trigger properties panel.
Update	button	Saves the entered configuration for this trigger after confirming changes.

Add	button	Adds the entered configuration for this trigger after confirmation.
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Trigger CSV

Description

The GPAC System® can save and restore trigger configuration for offline backup, GPAC replicated deployments or offline editing purposes. This section assists in the generation and management of the trigger configuration. Field and value descriptions for the CSV are available from the trigger configuration page.

How-to

Preview the current trigger configuration in CSV format by selecting the 'view' button near export. This can be subsequently saved by selecting the 'csv' button also next to export. The file containing the configuration can be edited in a spreadsheet application, or stored. Once a configuration has been saved, it can be sent back to the GPAC and re-imported. To upload an existing configuration, enter the location in the Upload File text field (or use Browse for a file selection dialog) and select Upload File to complete the transfer.

Inputs

Input Name	Type	Description
Upload Settings File	text	A local path referencing a CSV file that contains information about triggers.
Upload File	button	Transfers the trigger configuration CSV to the GPAC System®.
Browse	button	Opens a file selection dialog to aid in locating the CSV file containing trigger information.
Flush Database	checkbox	Clears any currently configured triggers from the GPAC server as the import is performed.
Export CSV	button	Opens a file save dialog for a CSV file containing trigger information.
View CSV	button	Previews the CSV file that would be exported containing trigger information.
Condition	text	
Trigger Value	text	

Devices

Discover Cameras

Camera Configuration Table

How-to

Enter an appropriate scan time out value and select Discover New Cameras. If none are discovered, try increasing the time out and validate the network configuration. For each camera discovered, configure the desired cameras through the Camera Properties panel or skip the discovered camera to leave unconfigured. If the camera is not on the control network, it will not be discovered, and should be added by selecting the Add New Camera button. Cameras may only be managed by one GPAC at a time. For unsupported cameras that do not return vendor and/or model information, the closest available should be chosen from the lists.

Select a camera from the camera table. The properties will be viewable in a panel on the right. The camera picture can be previewed by selecting Test. The specific properties can be changed by selecting Edit.

Select a camera from the camera table and choose the Delete button from the camera properties view on the right.

Inputs

Input Name	Type	Description
Scan Timeout	text	
Add New Camera	button	
Discover New Cameras	button	

Camera CSV

Description

The GPAC System® can save and restore camera configuration for offline backup, GPAC replicated deployments or offline editing purposes. This section assists in the generation and management of the camera configuration. Field and value descriptions for the CSV are available from the camera configuration page.

How-to

Preview the current camera configuration in CSV format by selecting the 'view' button near export. This can be subsequently saved by selecting the 'csv' button also next to export. The file

containing the configuration can be edited in a spreadsheet application, or stored. Once a configuration has been saved, it can be sent back to the GPAC and re-imported. To upload an existing configuration, enter the location in the Upload File text field (or use Browse for a file selection dialog) and select Upload File to complete the transfer.

Inputs

Input Name	Type	Description
Upload Settings File	text	The full path to the CSV file containing camera configuration settings.
Upload File	button	Transfers the camera configuration CSV to the GPAC System®.
Browse	button	Opens a file selection dialog box to aid in locating the camera configuration CSV.
Flush Database	checkbox	Clears any currently configured cameras from the GPAC server as the import is performed.
Export CSV	button	Transfers the camera configuration CSV from the GPAC System® for local storage.
View CSV	button	Previews the configuration CSV that would be exported containing camera configuration information.
Key	text	
Type	text	
Environment	text	
Format	text	
Name	text	
Host	text	
Port	text	
Mac Address	text	
Resolution	text	
FPS	text	

Post Record	text	
Pre Record	text	
Rebroadcast Stream	text	
Transcode Stream	text	
Rebroadcast Stream Port	text	
Rebroadcast Username	text	
Rebroadcast Password	text	
Username	text	
Password	text	
Classification Level	text	
Custom Path	text	

Camera Configuration

Description

The camera properties are displayed in this pane.

How-to

Choose the properties that define this device and the way it should work by selecting the relevant properties.

For generic MJPEG camera types, the FPS value must reflect the configuration defined on the camera itself.

The Clear Fields button will reset the input fields. The delete button will remove this camera from the system profile. The update button will save the changes made.

Inputs

Input Name	Type	Description
------------	------	-------------

Test	button	Contacts the camera and views the image supplied for testing purposes.
Edit	button	Opens the camera property pane for modifying the configuration of the selected camera.
Delete	button	Removes this camera from the system configuration.
Camera Key	text	A short, succinct name for the camera.
Camera Name	text	A descriptive name assigned to the camera.
Host	text	The host name or IPv4 address of the camera.
Port	text	Port refers to a destination number on the camera which listens for incoming connections and enables the camera to interact with other network devices. The typical value for this is 80 which is the standard port for HTTP traffic.
MAC Address	text	The medium access control (MAC) address of the camera, in colon separated notation.
Camera Type	list	The model type of the camera.
Custom Path	text	The relative uniform resource indicator (URI) to find image streams at. As this is appended to the camera IP address, the URI must be relative and not absolute.
Classification Level	list	The security classification level assigned to this camera.
Add Classification	button	Allows the creation of additional classification levels.
Environment	list	The environment to assign this camera to.
Add Environment	button	Allows the creation of additional environments.
Resolution	list	The number of pixels to record the video stream in. A higher value will give higher quality images but will require more resources.
FPS	list	The number of frames per second (FPS) to record the video streams in. A higher value will give higher quality but will require more resources.
Default format	list	The video format encapsulate standards used to encode the camera streams. MP4 is a new standard that gives high quality, small sized and low bandwidth video streams. Motion JPEG (MJPEG) is an informal name for

		multimedia formats where each video frame or interlaced field of a digital video sequence is separately compressed as a JPEG image. It is the older mechanism used for storing video streams, and performs quite well in terms of quality, file size and bandwidth requirements. The choice is based on camera supported modes.
Prerecord	text	The amount of time (in seconds) of video stream that should be stored in the GPAC System. When the camera begins recording, the prebuffer will store this number of seconds before the trigger. This allows for saving of video leading up to the trigger event. The maximum system supported time is shown to the right of this field.
Postrecord	text	The amount of time (in seconds) of video stream that should be stored in the GPAC System. When the trigger event concludes, the postbuffer will store this number of seconds after the event has concluded. This allows for the saving of video data after the trigger. The maximum system supported time is shown to the right of this field. If events occur close together, subsequent video data will contain the length of the prerecord buffer added to the postrecord buffer.
Rebroadcast Stream	checkbox	Sets this camera stream up to be exported from the GPAC. This allows other clients to view the feed from the camera exactly as the GPAC itself receives.
Transcode Stream	checkbox	Enable format conversion of the exported stream to H264. Although extremely processor intensive, this will allow for large bandwidth savings at little cost to quality and frame rate on sufficiently fast systems.
Rebroadcast Stream Port	text	A TCP/IP v4 port number from 1000 to 65535 that a client will connect to for receiving this camera stream. The firewall will be automatically adjusted to allow access to this port.
Rebroadcast Username	text	A user name to apply to the rebroadcast stream that authenticates incoming requests for stream viewing.
Rebroadcast Password	text	A password to apply to the rebroadcast stream that authenticates incoming requests for stream viewing.
Camera Username	text	The username that allows full access to all areas of the camera. This is needed to configure parameters and capture video streams for use by the GPAC System®.
Current Password	text	The old password that allows full access to all areas of the camera. This is needed to configure parameters and

		capture video streams for use by the GPAC System®.
Camera Password	text	The password to use that allows full access to all areas of the camera. This is needed to configure parameters and capture video streams for use by the GPAC System®.
Camera New Password	text	The new password to use that allows full access to all areas of the camera. This is needed to configure parameters and capture video streams for use by the GPAC System®.
Confirm Camera Password	text	Confirmation of the password to use that allows full access to all areas of the camera. This is needed to configure parameters and capture video streams for use by the GPAC System®.
Confirm New Camera Password	text	Confirmation of the new password to use that allows full access to all areas of the camera. This is needed to configure parameters and capture video streams for use by the GPAC System®.
Change	button	Modifies the password on the camera with the newly supplied one.
Clear Fields	button	Resets and clears the camera properties page.
Update	button	After confirmation, saves the entered information about this camera.
Skip	button	Omits configuration for this camera. To configure this camera, it must be rediscovered.
Change Camera Password	button	Modifies the username and password stored for GPAC to access this camera.
Back	button	Returns to the camera configuration page.

Discover Modules

Module Configuration Table

How-to

For modules attached to the control network, choose an appropriate time out and select discover. The default time out value may be sufficient, but if some modules are not found, try increasing the timeout or re-checking the network configuration. Finally, select discover to probe the network and wait for the timeout to expire. Once devices are found, they are automatically

imported for configuration. If the module is not on the control network, it will not be discovered, and should be added by selecting the Add New Module button.

It is possible to upload a pre-existing configuration for rapid deployment or in scenarios where the configuration is duplicated across multiple GPAC Systems®. This is done by first entering a location, using the browse file selection dialog if desired, and selecting Upload File.

The module configuration can be viewed in comma-separated value format (CSV) for backup/restore purposes or for offline editing. This can be achieved by selecting the appropriate button next to export. To save the CSV for later use, select CSV. To view the file online, select view.

Selecting a module to be modified or removed from the list causes the view module display to be shown. At this point, the module can be removed by selecting Delete. Alternatively, the properties can be modified by selecting Edit.

Inputs

Input Name	Type	Description
Scan Timeout	text	
Add New Module	button	
Discover New Modules	button	

Module Configuration

Inputs

Input Name	Type	Description
Module Key	text	
MAC Address	text	
Module Type	list	
IP Address	text	
Module Name	text	
Watchdog	checkbox	
Environment	list	

Add Environment	button	
Classification Level	list	
Add Classification	button	
Clear Fields	button	
Add Module	button	
Skip Module	button	

Module CSV

Description

The GPAC System® can save and restore module configuration for offline backup, GPAC replicated deployments or offline editing purposes. This section assists in the generation and management of the module configuration. Field and value descriptions for the CSV are available from the module configuration page.

How-to

Preview the current module configuration in CSV format by selecting the 'view' button near export. This can be subsequently saved by selecting the 'csv' button also next to export. The file containing the configuration can be edited in a spreadsheet application, or stored. Once a configuration has been saved, it can be sent back to the GPAC and re-imported. To upload an existing configuration, enter the location in the Upload File text field (or use Browse for a file selection dialog) and select Upload File to complete the transfer.

Inputs

Input Name	Type	Description
Upload Settings File	text	A local path referencing a CSV file that contains information about modules.
Upload File	button	Performs the transfer of the local CSV module configuration file to the GPAC System®.
Browse	button	Opens a file selection dialog to aid in locating the CSV file containing module information.
Flush Database	checkbox	Clears any currently configured modules from the GPAC

		server as the import is performed.
Export CSV	button	Opens a file save dialog for a CSV file containing module information.
View CSV	button	Previews the CSV file that would be exported containing module information.
Key	text	
Name	text	
Environment	text	
IP Address	text	
Mac Address	text	
Module Type	text	
Watchdog	text	
Classification Level	text	

Device Configuration

Please also refer to Device Configuration 51

Device Configuration Table

A module may have multiple points of sending or receiving data and these are split in to module channels. Once a module has been detected, the device configuration takes over by selecting a channel type and applying a configuration to it.

A channel is an acronym made up from several properties.

Channel Type	Meaning
DI	Digital Input, a digital device either on or off
DO	Digital Output, a digital device either on or off
RO	Relay Output, a digital device either on or off
AI	Analog Input, a variable input

Channel Type	Meaning
RTD	Resistance Temperature Detector, a kind of analog input relating to sensing temperatures
PV	Process Value, a kind of analog input
VIN	Voltage In, a kind of analog input
AO	Analog Output, a variable output
CI	Counter In, a device that increments a counter when triggered
LI	Latch Input, a device that once triggered remains on until deactivated
TI	Trigger Input, an event based device that notifies only when active
EBDI	Event Based Digital Input, a digital event based device that notifies when triggered on and off
PTZ	Pan-Tilt-Zoom. Certain cameras have an adjustable view so that it is possible to control the direction the camera is facing. This device can be used in trigger actions to move a camera to a particular position.
VTI	Virtual Input. A non-physical digital device useful that is always either on or off.
VTO	Virtual Output. A non-physical digital device either on or off.
VTSS	Virtual Start/Stop. Controls the running state of the system, much like the global start/stop. Can be used in conjunction with sensors to enable/disable the system state.
VTTD	Virtual Timer Device. A non-physical digital device, either on or off, that only activates after a specified time out. Setting the device to on starts the timer, which will activate unless the system is stopped or if this device is later set to off.

The interface must be showing devices via modules in order to initiate the addition of a device. Then, a channel must be selected from the list of potential channels (which differs based on the kind of device being altered). Finally, select Add, which causes the device properties dialog to appear.

From Module View, choose 'list devices' of the devices' corresponding module. Once in device list view, select edit or delete adjacent to the corresponding device.

Complete the form to device requirements and optionally choose a representative icon for the device. This is done by selecting the change icon button and clicking on the icon desired from the display, at which point the panel will return to Device Properties. Select Add and confirm the settings to complete the process. The module that the device is attached to can also be edited

at this point, returning to the Module Configuration page.

Virtual Devices are useful for trigger actions in situations where relationships are to be created between otherwise non-compatible devices. They also expose some of the equipment inherit to a system so that other devices can react to their state, and similarly so that other sensors can act on them.

Inputs

Input Name	Type	Description
Show Via Modules	button	
Show All Devices	button	
List Devices	button	
Add	button	
Edit	button	
Delete	button	
Disconnect	button	
Reconnect	button	

Device CSV

Description

The GPAC System® can save and restore device configuration for offline backup, GPAC replicated deployments or offline editing purposes. This section assists in the generation and management of the device configuration. Field and value descriptions for the CSV are available from the device configuration page.

How-to

Preview the current device configuration in CSV format by selecting the 'view' button near export. This can be subsequently saved by selecting the 'csv' button also next to export. The file containing the configuration can be edited in a spreadsheet application, or stored. Once a configuration has been saved, it can be sent back to the GPAC and re-imported. To upload an existing configuration, enter the location in the Upload File text field (or use Browse for a file selection dialog) and select Upload File to complete the transfer.

Inputs

Input Name	Type	Description
Upload Settings File	text	The local path to the settings file in CSV format. This is used when sending a pre-configured setup.
Upload File	button	Performs the transfer of the local CSV device configuration file to the GPAC System®.
Browse	button	Opens a file selection dialog to aid in locating the CSV file containing device information.
Flush Database	checkbox	Clears any currently configured devices from the GPAC server as the import is performed.
Export CSV	Export CSV	Sends the current CSV device configuration from the GPAC System® for local storage.
View CSV	button	Previews the configuration CSV that would be exported containing device configuration information.
Key	text	
Name	text	
Environment	text	
Module	text	
Signal Type	text	
Icon	text	
Channel Number	text	
Decimal Places	text	
Enable Log	text	
Log Rate	text	
Log Rate Unit	text	
Raw Value Low	text	
Raw Value High	text	

Raw Value Unit	text	
Eng Value Low	text	
Eng Value High	text	
Eng Value Unit	text	
Default State	text	
Device Mode Type	text	
Classification Level	text	

Camera Matrix

This page provides an overall view of the cameras on the GPAC server for status checks and viewing. Cameras that have issues can be identified quickly and resolved through user interaction by selecting the camera in question. Selecting a specific environment on the right pane will limit the display to the cameras configured within.

Users can use mouse to click on the image to make the camera centre to the click point, or drag a rubberband on the image, to make the camera centre and zoom into that rubberband area.

More information about the nature of a camera fault can be gained by accessing the alarm logs and searching for the camera in error. A connection error implies that the camera cannot be accessed. The problem may lie in either communications or power. Verify the wiring and try resetting the camera. In the case of repeated, random errors, a firmware upgrade may be needed.

Inputs

Input Name	Type	Description
Up Arrow	button	For GPAC supported pan-tilt-zoom capable cameras, this arrow will move the camera's point of view up an increment.
Down Arrow	button	For GPAC supported pan-tilt-zoom capable cameras, this arrow will move the camera's point of view down an increment.
Left Arrow	button	For GPAC supported pan-tilt-zoom capable cameras, this arrow will move the camera's point of view left an increment.

Right Arrow	button	For GPAC supported pan-tilt-zoom capable cameras, this arrow will move the camera's point of view right an increment.
Zoom In	button	For GPAC supported pan-tilt-zoom capable cameras, this magnifying glass will zoom the camera's point of view in an increment towards the centre of the displayed image.
Zoom out	button	For GPAC supported pan-tilt-zoom capable cameras, this magnifying glass will zoom the camera's point of view out an increment from the centre of the displayed image.
Zoom Reset	button	For GPAC supported pan-tilt-zoom capable cameras, this will reset the camera zoom to default, the furthest towards the centre of the displayed image.
Vertical Tilt Bar	control bar	For GPAC supported pan-tilt-zoom capable cameras, this tilt bar allows users to tilt the camera to a specific vertical angle.
Horizontal Pan Bar	control bar	For GPAC supported pan-tilt-zoom capable cameras, this pan bar allows users to pan the camera to a specific horizontal angle.
Iris Control Bar	control bar	This control bar allows users to change the camera relative iris level. Depending on the position users click on the bar, the further from the centre point, the more the camera iris level gets changed.
Focus Control Bar	control bar	This control bar allows users to change the camera relative focus level. Depending on the position users click on the bar, the further from the centre point, the more the camera focus gets changed.
Save Position As	textbox	Current position can be saved for the camera to move back to that position at some later point. This input is to name the position of camera's current point of view. After typing in the name, user can click the "save" button or ENTER to save.
Current Saved Positions	list	Lists all the pre-saved positions on the camera.
Save	button	Save the current camera view point to the position name given by user.
Go To	button	Moves the camera to the selected position in the list. Users can also select a position from the list to move the camera directly, without click this Goto button.

Delete	button	Deletes the position selected in the current Saved Positions list.
Advanced Control Checkbox	checkbox	This checkbox will toggle the iris and focus controls on and off
Autoiris Checkbox	checkbox	Toggles camera's auto iris function. When it is checked, the camera will auto adjust the iris level for the current object.
Autofocus Checkbox	checkbox	Toggles camera's auto focus function. When it is checked, the camera will auto adjust the focus for the current object.

Device Matrix

This page provides an overall view of the devices on the GPAC server for status checking. Devices that have issues can be identified quickly and resolved through user interaction by selecting the device in question. Selecting a specific environment on the right pane will limit the display to the devices configured within.

More information about the nature of a device fault can be gained by accessing the alarm logs and searching for the device in error. A connection error implies that the module and all channels cannot be accessed. The problem may lie in either communications or power. An I/O error in the error logs indicates a problem with one channel on a particular module. Verify the wiring and try resetting the module. In the case of repeated, random I/O errors, a firmware upgrade may be needed.

Inputs

Input Name	Type	Description
Troubleshoot	button	

Device Table

How-to

Colour	Status
Green	Nominal
Grey	Read Error
Dark Grey	Disconnecte d

Colour	Status
Orange	Alarm

The listing can be sorted by any of the title fields by selecting the title to sort by. More information can be viewed by selecting a device from the list. Once in detailed view, the device can be removed by selecting Delete and confirming the action. Editing the properties of the device is also performed from this stage by selecting Edit. Depending on the device being viewed, other buttons may appear.

If there are many devices configured, the listing may span multiple pages and the navigation for this is located below the device table list.

The Inputs are present in the View Device panel after clicking on an entry in the list.

Device Configuration

Please also refer to Device Configuration, page 44

Description

The device properties are displayed in this pane.

How-to

Choose the characteristics that define this device and the way it should work by selecting the relevant properties. The reset button will clear the input fields. The delete button will remove this device and free that channel for use. The update button will save the changes made.

Inputs

Input Name	Type	Description
change icon	button	Modifies the icon representing this device.
Module Connected	text	Displays the module key that this device is linked to.
Selected Module	text	Displays the module key that this device is linked to.
Module Key	text	Displays the module key that this device is linked to.
Selected Channel	text	Displays the channel this device is attached to.
Channel	text	Displays the channel this device is attached to.
Device Sub-Mode	list	Specifies how this device is to be used. When a device changes state in latched mode, it will remain in that state until reset by the GPAC System® once read. The main use of this mode is for passive infra-red (PIR) devices. A counting device will increment a count every time the

		device changes state. A device with a sub-mode of digital input will allow the GPAC to report the current state.
Device Key	text	The device key is a short, succinct name to assign to the module.
Device Name	text	A descriptive name assigned to the device.
Classification Level	list	The classification level to assign to this device.
Add Classification	button	Allows the creation of additional classification levels.
Environment	list	The environment to assign this module to.
Add Environment	button	Allows the creation of additional environments.
Decimal Places	text	The rounding applied to decimal numbers read from analog inputs.
Log	checkbox	In order to plot graphs for analog input devices, the values read from the device must be logged. They are converted to the engineering value specified and stored as often as is specified in the Log Rate.
Log Rate	text	The frequency of how often to log the input from an analog device is specified here in combination with the Log Rate Unit. This is used for graphical representation of analog data.
Log Rate Unit	list	The unit of the frequency that will apply to Log Rate. This is used for graphical representation of analog data.
Raw Value Low	text	The lower bound of what value the analog input will return. Used in mapping between raw and engineering values.
Raw Value High	text	The upper bound of what value the analog input will return. Used in mapping between raw and engineering values.
Raw Value Unit	list	The units the raw value is represented in.
Engineering Value Low	text	The lower bound of what value the engineering value is. Used in mapping between raw and engineering values.
Engineering Value High	text	The upper bound of what value the engineering value is. Used in mapping between raw and engineering values.
Engineering Value Unit	list	To represent analog input in a more usable form, it is

		converted from its raw value to the representation chosen.
Default State Text	text	The textual representation of a digital device.
Default State	text	The state of the digital device by default.
Time Out	text	The amount of time this virtual timer device will wait before it activates. The timer will start counting down once another device sets this to activate. The timer and device value will be cleared when another device sets the value of deactivated upon this device.
Watchdog	checkbox	For supported modules with watchdog enabled, if the module loses power, the devices attached to it revert to the default state.
Edit	button	Opens the device properties for modifications.
Clear Fields	button	Clears and resets the input fields of the device properties.
Edit Module	button	Navigates to the parent module configuration page.
Edit Camera	button	Navigates to the parent camera configuration page.
Delete	button	Removes this device from the configuration and frees the associated channel.
Module	list	The parent module to connect to.
Available Channels	list	The channel to connect this device to.
Reconnect Device	button	Completes the reconnection of this device.
Manual Override On	button	Manually changes the state of the digital device output to On.
Manual Override Off	button	Manually changes the state of the digital device output to Off.
Data Trend	button	Displays a graph of a log enabled device representing the activity experienced.

Camera Configuration

Please refer to Camera Configuration, page 38

Logs

View Logs

Log Table

Description

The logs of the event currently selected or the results from the log search.

How-to

A separate log area can be listed by selecting the appropriate header from the log pane. Alternatively, the table will contain log search results by selecting Search and filling out appropriate criteria. The Show All button below the log listing will clear the search criteria and revert to the listing on an entire category.

Inputs

Input Name	Type	Description
Show All	button	Resets the search criteria and reverts to a listing of all logs from the previous category selected.
Next	button	Navigates the display to the next page of logs.
Previous	button	Navigates the display to the prior page of logs.
Export CSV	button	Sends the current CSV log view from the GPAC System® for local storage.
Search	button	Selects and presents the search page for filtering through logs.

Log Category

Description

Alters the view in the log table by a specific category and allows searches.

How-to

Select a button corresponding to the category of logs that the display table should show. The search function will apply criteria-specific filters to this view.

Inputs

Input Name	Type	Description
Alarm	button	Selects and presents the category of Alarm logs indicating when the system was in an alarm state.
Communication	button	Selects and presents the category of Communication logs containing information about GPAC transmissions.
Data	button	Selects and presents the category of Data logs containing values from devices that are being monitored directly.
System	button	Selects and presents the category of System logs containing the actions the GPAC has performed based on input criteria.
Manual	button	Selects and presents the category of Manual logs showing any manual activity occurring on the GPAC.
Authentication	button	Selects and presents the category of Authentication logs showing both GPAC and system level access.

Log Search

Inputs

Input Name	Type	Description
Start Year	text	Search for logs starting from this year.
Start Month	list	Search for logs starting from this calendar month.
Start Day	list	Search for logs starting from this calendar day.
Start Hour	list	Search for logs starting from this hour of the day.
Start Minute	list	Search for logs starting from this minute of the hour.
Start Second	list	Search for logs starting from this second of the minute.
End Year	text	Search for logs before this year.

End Month	list	Search for logs before this calendar month.
End Day	list	Search for logs before this calendar day.
End Hour	list	Search for logs before this hour of the day.
End Minute	list	Search for logs before this minute of the hour.
End Second	list	Search for logs before this second of the minute.
Log Level	list	Search for logs with this log level.
Classification Level	list	Search for logs with this classification level.
Log Type	list	The category of logs to search within.
Camera	list	Search for video logs on this camera.
Plot Device	list	Allows the selection of an analog device for which plotting is enabled.
Plot	button	Displays a graphical representation of activity encountered on the selected analog device.
Search Strings	text	Search for logs containing this string.
Reset	button	Clears and resets the input fields to their defaults.
Search	button	Starts the GPAC searching for logs based on the criteria entered.

Plot Search

Description

A graphical representation of input data will be drawn after applying search criteria to a device specified here.

How-to

Select the device for which data capture has been enabled from the list and then Plot. The graph will be visible in the left pane.

Inputs

Input Name	Type	Description
Plot Device	list	The device to display a graph of input values for.
Plot	button	Filters through data logs for input values for the selected device and draws a graph in the left pane.

Log Book

Description

A summary listing of the user created log entries.

How-to

To create a new entry, select Add An Entry from the right and complete the form that appears below. To view an entry, select the specific entry for more detail. Note that log entries cannot be edited or deleted once added.

Inputs

Input Name	Type	Description
Show All	button	Resets the search parameters and lists all logs.
Search	button	Scans through the logs and presents only those with the search parameters.
Export CSV	button	Opens a file save dialog for a CSV file containing log book entries.
Add An Entry	button	Opens the Log Entry panel for new log records to be saved.

Log Entry

Description

The properties of a new entry to the log book.

How-to

Enter the details as desired and select Add to complete the entry.

Inputs

Input Name	Type	Description
Title	text	The title will be shown in the summary listing of the log book entries.
Entry	text	The descriptive text to assign to this log. The entry can span multiple lines if needed.
Log Level	list	A hierarchical measure of the severity of the log, ranging from info (informational message), notice (normal but significant condition), warning (warning conditions), error (error conditions), critical (critical conditions), alert (action must be taken immediately) and emergency (system is unusable).
Classification Level	list	The classification level required to view this log entry.
Clear	button	Clears and resets the input fields on the log entry.
add	button	Commits this log entry to the GPAC System®.

View Log

Description

A detailed listing of the log under selection.

Inputs

Input Name	Type	Description
Date and Time	text	The timestamp indicating when the log was made.
Title	text	The title assigned to the log when entered.
Username	text	The user account that entered the log.
Entry	text	The contents of the log.
Log Level	text	The severity assigned to the log when the entry was made.

Classification Level	text	The classification level assigned to the log entry.
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Log Search

Inputs

Input Name	Type	Description
Start Year	text	Search for logs starting from this year.
Start Month	list	Search for logs starting from this calendar month.
Start Day	list	Search for logs starting from this calendar day.
Start Hour	list	Search for logs starting from this hour of the day.
Start Minute	list	Search for logs starting from this minute of the hour.
Start Second	list	Search for logs starting from this second of the minute.
End Year	text	Search for logs before this year.
End Month	list	Search for logs before this calendar month.
End Day	list	Search for logs before this calendar day.
End Hour	list	Search for logs before this hour of the day.
End Minute	list	Search for logs before this minute of the hour.
End Second	list	Search for logs before this second of the minute.
Log Level	list	Search for logs with this log level.
Classification Level	list	Search for logs with this classification level.
Log Type	list	The category of logs to search within.
Camera	list	Search for video logs on this camera.
Plot Device	list	Allows the selection of an analog device for which plotting is enabled.

Plot	button	Displays a graphical representation of activity encountered on the selected analog device.
Search Strings	text	Search for logs containing this string.
Reset	button	Clears and resets the input fields to their defaults.
Search	button	Starts the GPAC searching for logs based on the criteria entered.

Video Log Table

Description

A listing of the video streams that have been recorded by cameras configured in the GPAC System®. The action column indicates the reason the video was saved.

How-to

To watch a video log, select the stream from the listing and select View Video, or Download Video to save it to your computer.

Inputs

Input Name	Type	Description
Previous	button	Moves the log listing to the previous page.
Next	button	Moves the log listing to the next page.
show all	button	Resets the search parameters filtering the table.
search	button	Opens the search panel for filtering through video logs.

View Video Log

Description

A detailed listing of the video log under selection.

How-to

The saved video streams can be viewed by selecting View Video when appropriate web browser plugins are installed for AVI files. Alternatively, the streams can be exported from the GPAC and saved by selecting Download Video.

Inputs

Input Name	Type	Description
Date and Time	text	The timestamp indicating when the video stream was saved.
Camera Name	text	The name assigned to the camera when the video stream was saved.
IP Address	text	The IPv4 Address assigned to the camera when the video stream was saved.
Environment	list	The environment to which the camera belonged when the video stream was saved.
Classification Level	text	The classification level assigned to the camera when the video stream was saved.

Administration

Archive

Description

Archive GPAC System® logs to external media.

How-to

Attach external storage media directly to a USB port on the GPAC System®. Ensure that the media is large enough for the transfer, and has the first partition formatted as the FAT filesystem. Wait a few moments for the device to settle and select the device from the Target Archive list. If your external device is not found in the list click on the Recheck button. Select the type of records to be archived, a start and end date, click the Archive button to begin the process.

Inputs

Input Name	Type	Description
Target archive device	list	Contains a list of all connected external USB media. Select the device to be used for archiving
Archive Mode	list	Select mode for archive process. Archive Only will copy logs to the specified external media. Archive and Delete will move the logs to the specified external media. Delete only, will remove the logs from the GPAC System® (No external media required)
Video Log	checkbox	Include Video Logs in the log archive.
Alarm Log	checkbox	Include Alarm Logs in the log archive.
Comms Log	checkbox	Include Comms Logs in the log archive.
Data Log	checkbox	Include Data Logs in the log archive.
System Log	checkbox	Include System Logs in the log archive.
Manual Log	checkbox	Include Manual Logs in the log archive.
Auth Log	checkbox	Include Auth Logs in the log archive.
Start Year	text	Archive logs starting from this year.
Start Month	list	Archive log starting from this calendar month.

Start Day	list	Archive logs starting from this calendar day.
Calendar	button	Opens a calendar dialog to aid in date selection.
Start Hour	list	Archive logs starting from this hour of the day.
Start Minute	list	Archive logs starting from this minute of the hour.
Start Second	list	Archive logs starting from this second of the minute.
End Year	text	Archive logs before this year.
End Month	list	Archive logs before this calendar month.
End Day	list	Archive logs before this calendar day.
Calendar	button	Opens a calendar dialog to aid in date selection.
End Hour	list	Archive logs before this hour of the day.
End Minute	list	Archive logs before this minute of the hour.
End Second	list	Archive logs before this second of the minute.
Log Level	list	Archive logs of a certain GPAC log level.
Classification Level	list	Archive logs of a certain GPAC classification.
Archive	button	Archive button initiates the archiving process.

Classification Level Table

Description

The current list of classification levels is displayed in table format.

How-to

Select the add button to create additional classification levels, or select an individual classification level within the table to edit or remove it. The list can be sorted by selecting the title you wish to sort by.

Inputs

Input Name	Type	Description
Add Classification Level	button	Creates a new classification level.

Classifications

Classification Select

Description

Displays the current user classification level selected.

How-to

If the level is to be deleted, select the Delete button. Otherwise, select the Edit button to modify this classification level. To cancel modification, select the Classification Configuration from the menu bar.

Inputs

Input Name	Type	Description
Edit Classification Level	button	Edits the selected classification level.
Delete Classification Level	button	Delete the selected classification level.

Classification Edit

Description

An edit dialog for the user classification level.

Inputs

Input Name	Type	Description
Name to assign	text	An input text box for the classification name.
Level to assign	number	An input list box for the classification level.

Clear Classification Fields	button	Clear the information entered in the selected classification level.
Add Classification Level	button	Add the information entered as a classification level.
Update Classification Level	button	Update the information entered in the selected classification level.

Communications Centre

Contact Set Table

Description

The listing shows the sets of contacts that are notified. Within these sets are the individual contacts who will receive notifications by mobile short message service (SMS) or Electronic Mail (EMail).

How-to

Select Create New Contact Set. This will display the contact set configuration on the right panel. Enter the details for this contact set and select Add and confirm the addition.

Select the contact set to configure from the contact set table. An overview will appear in the right panel. The contact set can be removed by selecting Delete at this point, provided there are no trigger actions on that contact. If there are any previously configured contacts, they can be imported in to this set by selecting the contact and then Append to set.

Select the contact set to configure from the contact set table. An overview will appear in the right panel. The addition of individual contacts is achieved by selecting Add Contact. The contact can also be edited or removed from the GPAC by selecting Edit or Delete respectively. If a new contact is to be added that is not already listed, select Create New Contact. Enter the details and complete the process by selecting Add.

Inputs

Input Name	Type	Description
Add Contact Set	button	Allows the creation of additional contact sets.

Contact Set Configuration

Description

The configuration panel displaying properties of a contact set.

How-to

Modify or enter the contact set configuration as needed. Select Add (if this is a new contact set) or Update to commit changes after confirming the modifications.

Inputs

Input Name	Type	Description
Name	text	A descriptive name to give for the contact set.
Description	text	A descriptive text to give this contact set that will assist in identifying at a glance the category of alerts that are received by this group.
Attempts	text	Number of times to retry a particular contact when a communications failure has occurred or the alarm condition continues without acknowledgement. By default the number of attempts is set to 3.
Duration	text	The amount of time in seconds between notifications of the contact set if the alarm is not acknowledged. By default the duration is set to a 30 second interval.
Classification Level	list	The classification level to assign to this contact set.
Add Classification	button	Allows the creation of additional classification levels.
Clear Fields	button	Resets and clears the input fields of the contact set properties.
Edit	button	Allows modification of this contact set.
Delete	button	Removes this contact set from the system configuration.
Add Contact	button	Adds a new contact to this contact set.

Contact Table

Description

A summary listing of the individual contacts in the parent contact set.

How-to

A contact can be assigned to a set by selecting Add Contact and can appear in multiple contact sets. A contact can be added to this set by selecting a contact from the listing. If the contact to be added to this set is new, select Create New Contact. Fill out the details as desired, then select Add. Confirm the addition. This contact can be added to the contact set being edited at this point or left aside to be appended to other contact sets. Appending a contact to a contact set requires a priority setting. This will determine the order in communicating of individual contacts within a set.

A contact can be removed from a contact set by selecting the contact to be modified from the table and choosing Remove. The contact is still registered with the GPAC System® at this point, however. Changing the individual contact is done by selecting Add Contact, choosing the contact to be managed and either modifying the details by selecting Edit or removing the contact by selecting Delete and confirming the operation.

Inputs

Input Name	Type	Description
Name	text	A descriptive name of the contact.
Type	list	Specifies the manner in which the GPAC System® will communicate with this contact.
Attach Video	checkbox	This requires a trigger action configured with both a contact set and a camera as a dependent device. Contacts within that set configured to receive attachments will then be sent video clips when the trigger condition is met. The resulting video as well as the standard alarm condition message is then delivered to video attached enabled email contacts.
Email	text	The registered email address of the contact.
Phone Number	text	The phone number of the contact. Spaces are permissible for increased readability, they are subsequently ignored.
Classification Level	list	The classification level this contact is assigned to.
Add Classification	button	Creates a new classification level.

Enable	checkbox	A toggle that determines if this contact is active or not.
Priority	list	The priority assigned to the contact. The highest priority contacts are the ones with the lowest number and will be notified first when alerting contact sets.
Clear Fields	button	Clears and resets the input fields from the contact properties.
Back	button	Navigates back to the previous page.
Add	button	Adds this contact to the list of registered contacts in the GPAC System®.
Create New Contact	button	Opens the properties dialog for the creation of a new contact.

Network Configuration

Enterprise Network

Description

This is the accessible IP address of the GPAC System®. Users can connect by entering this IP address in to a web browser. The IP address and subnet should be provided by the network administrator.

How-to

To update the network enter in the network details and select Update.

Inputs

Input Name	Type	Description
Enterprise IP Address	text	The Internet Protocol (IP) address is analogous to a postal address, used to uniquely identify any network device.
Enterprise Subnet Mask	text	The subnet mask is used to split IP networks in to series of subgroups.

Control Network

Inputs

Input Name	Type	Description
Control IP Address	text	The Internet Protocol (IP) address is analogous to a postal address, used to uniquely identify any network device.
Control Subnet Mask	text	The subnet mask is used to split IP networks in to series of subgroups.

General Network

Description

Network settings that allow the GPAC System® to communicate with other services and networks are placed here. These settings can be obtained from a network administrator.

Inputs

Input Name	Type	Description
Gateway IP Address	text	The Internet Protocol (IP) address is analogous to a postal address, used to uniquely identify any network device. This IP refers to the route to take when accessing networks other than the one localDNS will fail. Most operations related to the GPAC System® do not rely on this service.
Primary DNS	text	The Internet Protocol (IP) address is analogous to a postal address, used to uniquely identify any network device. A Domain Name Resolution (DNS) Server maps a name (such as www.embedtechcorp.com) and returns the corresponding IP address. This is the address of the primary server to use. If this server fails to respond, the secondary server will DNS will fail. Most operations related to the GPAC System® do not rely on this service.
Secondary DNS	text	The Internet Protocol (IP) address is analogous to a postal address, used to uniquely identify any network device. A Domain Name Resolution (DNS) Server maps a name (such as www.embedtechcorp.com) and returns the corresponding IP address. This is the address of the secondary server to use. If this server also fails to respond, DNS will fail. Most operations related to the GPAC System® do not rely on this service..

Update Network

Inputs

Input Name	Type	Description
Clear Fields	button	Clear all the fields in the table.
Update	button	Update the system network configuration using the values given.
Undo	button	Revert the displayed settings to the existing configuration.

Network Test

Description

A ping packet sent on the local network may help determine if the network has been properly configured.

Inputs

Input Name	Type	Description
Host to Ping	text	The host name or IP address to run a ping test on. If the ping is returned, this will verify network connectivity.
Submit Ping Test	button	This will initiate the test

System Configuration

Devices/Alerts

Description

System wide configuration items relating to device gathering and device alerts.

How-to

Edit the properties and select Update Settings. If no changes are desired, navigate away from this page.

Inputs

Input Name	Type	Description
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Data Acquisition	text	Number of seconds between device accesses for data gathering. Lower time slices will increase accuracy but require more computing power. Higher time slices may decrease accuracy but will ease server load.
SMTP Server Host	text	Simple Mail Transfer Protocol (SMTP) is the de facto standard for e-mail transmissions across the Internet. This field should point the GPAC Server® in the direction of the mail server on the installed network for relaying messages through.
Sender Email	text	To readily identify the GPAC server as the sender of emails, this field can be defined. Any emails from the GPAC will then be from this address.
Server requires authentication	list	If the SMTP server requires authentication to send outgoing emails, select Yes enter the username and password to be used in the following fields.
Username	text	The username to pass through to the SMTP server for servers requiring outgoing mail authentication.
Password	text	The password to pass through to the SMTP server for servers requiring outgoing mail authentication.
Confirm Password	text	A confirmation of the password to pass through to the SMTP server for servers requiring outgoing mail authentication.

User

Description

System wide configuration items relating to GPAC and User interaction.

How-to

Edit the properties and select Update Settings. If no changes are desired, navigate away from this page.

Inputs

Input Name	Type	Description
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Login Attempts	text	Maximum number of times to allow a single user to attempt authenticating. If they exceed this number, they will lock their account and will require unlocking before a future login will be allowed from that user account
Max Users	text	The maximum number of simultaneous users to accept in the GPAC System®.
Page Refresh	text	Time between page refreshes that a logged in client will receive.
Session Expiry	text	Idle time of a logged in user before their session is expired and becomes invalid. The user will need to log in again to continue interacting with the GPAC System®.
Update Settings	button	Applies the entered system configuration settings to the GPAC server.

System

Description

System wide configuration items relating to GPAC functionality.

How-to

Edit the properties and select Update Settings. If no changes are desired, navigate away from this page.

Inputs

Input Name	Type	Description
Status	list	The accessibility status of the system. When in lockdown, the GPAC Administrator user is allowed access only when logging in locally from the GPAC. Otherwise, all other defined active user accounts can log in.

Server Time

Description

Time and date properties of the GPAC System®.

How-to

Change the GPAC server time to the current timezone's time and date and select Update Date/Time.

Inputs

Input Name	Type	Description
Hour	list	The present hour of the day in 24 hour (or military) format.
Minute	list	The present minute of the day.
Sec	list	The present second of the day.
Year	list	The present calendar year.
Month	list	The present calendar month.
Day	list	The present calendar day.
Calendar	button	Opens a calendar dialog to aid in date selection.
Update Date/Time	button	Applies the entered date and time fields to the GPAC server.

System Information

Users

Description

Lists information about users currently interacting with the GPAC System® and allows an administrator to free user slots for other users.

How-to

To terminate a user session, locate and select the 'Kick' button adjacent to the user information.

Inputs

Input Name	Type	Description
Username	text	The name of the user logged in to the GPAC.

IP Address	text	The IPv4 address of the user logged in to the GPAC.
Last Action	text	The time the user last interacted with the GPAC.
Kick	button	Terminates a user log in session.

Usage

Description

Displays memory and storage usage parameters.

How-to

This area is a diagnostic and debugging console for the GPAC. If high usage is noticed in the log device area, then an archive should be performed. Otherwise, no direct interaction is required or expected.

Inputs

Input Name	Type	Description
CPU Usage	text	The amount of central processing unit (CPU) cycles in use at the moment by the GPAC System®.
Network Status	text	Indicates the status of the control, enterprise and any other networks attached to the GPAC server. Text associated with a particular network card will change colour depending on the status of that card. Green text indicates network link is detected. Red text indicates the link is down. Orange text will appear when the link status is indeterminate. This may aid to identify network layout on GPAC Systems®.
Memory Size	text	The total amount of memory detected and available for use by the GPAC System®.
Memory Used	text	The amount of the memory currently in use by the GPAC System®. Note that a high value is expected and normal.
Usage	text	A percentage of the usage of system memory by the GPAC System®. A high value is expected and normal.
Mount Point	text	A mount point is a term used to describe where the computer puts the files in a file system on Unix-like systems. A device can be mounted anywhere on the directory structure. Users will typically only be

		interested in the log mount point capacity.
Size	text	The total capacity of the mount. This is expressed in the unit most appropriate to the size (small drives will be listed in megabytes for example).
Used Space	text	The percentage of free space on that device.

Upgrade

File Upload

Description

Accepts a GPAC upgrade file for application to the system.

How-to

Prior to upgrading, the system should be locked and isolated to prevent shared usage conflicts. Select an upgrade file for the GPAC system, which will be in Debian format (.deb), or a gzipped tarball (.tar.gz or .tgz) by using the browse mechanism. Select upload and the file will be stored locally on the GPAC. Once successfully uploaded, the upgrade can be applied by selecting Upgrade GPAC. Any errors will be reported once the upgrade is attempted.

Inputs

Input Name	Type	Description
Upgrade File	text	Contains the local path to the file to be used in the GPAC upgrade.
Browse	button	Opens a file selection dialog to aid in locating the GPAC upgrade file.
Upload	button	Performs the transfer of the upgrade file to the GPAC.
Upgrade GPAC	button	Performs the GPAC upgrade procedure.

User Levels

Create User Level

Description

Allows the creation of new User Levels.

How-to

Enter a unique User Level name to assign and select Create.

Inputs

Input Name	Type	Description
Add	text	A text input area for the name of new User Levels.

User Level Table

Description

A table of all the user levels currently configured.

How-to

Adjacent to each user level is a button that can be selected to edit or delete that user level.

Inputs

Input Name	Type	Description
Edit		A button to edit the corresponding user level.
Delete		A button to remove the corresponding user level.

Edit User Level

Description

This area allows an administrator to grant permissions to the user level being edited to areas of the GPAC System®.

How-to

Once in edit mode, the pages available for access control will become visible. The specific permissions that apply to this user level for the area of the GPAC being modified can be changed. Changes can be made by placing a check in the selection box for the permission that is to be granted, or in the title bar for a global change in all fields beneath the title. Any areas unchecked imply that permission is denied. Once editing is complete, the Save Changes button must be selected to commit modifications.

Inputs

Input Name	Type	Description
Check All		Select every item in the edit pane.
Uncheck All		Deselect every item in the edit pane.
Revert		Restore to previously stored configuration.
Update		Commit modifications of the user level being edited.

User Manager

User Table

Description

Provides a condensed list of users who are currently configured in the GPAC System®.

How-to

Adding a user to the GPAC System® is accomplished by selecting the add button. This will display the user properties dialog. To edit an existing user and their associated properties, select that user from the list. The properties dialog will also be displayed in edit mode but with the user information completed.

Inputs

Input Name	Type	Description
Add User	button	Opens the user properties dialog for the creation of new users for the GPAC System®

User Properties

Description

A list of all the attributes that users contain.

How-to

When adding a new user, fill out the fields as they apply to the new user being created and select Add. In the case of an existing user, you will first be presented with an overview of their current properties. To modify the properties, select edit. The user properties dialog is then presented for modification, and the user password can be changed by selecting Change Password. To remove a user, select delete from the overview.

Inputs

Input Name	Type	Description
Username	text	The name that this user will use to log in to the GPAC System® with.
Status	checkbox	Determines whether the user account is currently enabled or disabled.
First Name	text	The first name of the user account.
Last Name	text	The last name (or surname) of the user account.
Address	text	The address of the user account. This only includes street number and name, other information has separate fields.
State	text	The current residential state of the user. This can either be abbreviated or spelled out in full.
City	text	The current residential city of the user.

Zipcode	text	The current zip or post code of the user.
Country	text	The residential country of the user.
Language	list	The language setting this user will interact to the GPAC System® with.
Department	text	The name of the department this user is assigned to.
Classification Level	list	The classification level to assign to this user.
Add Classification	button	Create a new classification level.
User Level	list	The user level to assign to this user.
Add User Level	button	Create a new user level.
New Password	text	The password to create for this user. Choose an unguessable, unrelated password for stronger security.
Confirm New Password	text	To ensure the new password was entered correctly, it must be entered twice exactly the same in both password fields.
Clear Fields	button	Clears the fields on the user account form.
Add User	button	Validates the information in the form and creates this user in the GPAC System®
Change password	button	Allows an administrator to reset a user password to a known value.

Help

About

Description

Lists general GPAC System® information.

How-to

The licence for this software can be viewed by selecting the GPAC System Licence button. This area otherwise contains version information.

Inputs

Input Name	Type	Description
GPAC System Licence	button	Opens the GPAC licence agreement.
Export Version List	button	Export a file containing a list of all installed GPAC applications and their versions.
Back	button	Returns to the previous page.

Help

Description

The contents menu displays the topics available for users to easily access and view help documentation.

How-to

The buttons along the top will lead to different sections within help. The contents button will present a list of subjects that relate to pages in the system. Once a page has been selected, the Description and Section buttons will present detailed information on that specific page. The Related button will present topics that are linked with the concepts on the page selected.

Inputs

Input Name	Type	Description
Contents	button	Lists all the help topics available.
Description	button	Displays information about the page selected.
Section	button	Displays information about the fields on the page selected.
Related	button	Lists topics which are related to the page selected.

Licence Information

Description

Displays the specific areas the GPAC is licenced for.

How-to

Licences will be deducted from the corresponding areas as they are consumed, and will be reflected on this page.

Inputs

Input Name	Type	Description
I/O Licence	text	Displays the total licence count for Input/Output devices.
I/Os Available	text	Displays the free licence count for Input/Output devices.
Camera Licence	text	Displays the total licence count for cameras.
Cameras Available	text	Displays the free licence count for cameras.
Licence Expiry	text	Indicates the amount of time left for this licence. A value of zero indicates there is no expiry.

Support

Description

The contact details for further help and support.

How-to

For questions, problems, reports sales please contact Embedded Technologies for assistance.