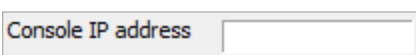


Output window.

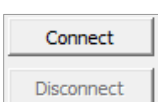
All information, progress will be output to this window



Console IP address

The utility will automatically complete this field if it is run from the ConsolePC. It will also attempt to automatically complete this when run on a PC that has a LAN adaptor named CalrecDeskConnection. When manually entering the address, this should be the target address of the LAN/MAC port that is configured on the connected console processor card. If you are connecting using a MAC/Surface port this will be an alias or the native console IP. If you are connecting using a LAN port this will be a pre-configured IP of LAN 1-3

The Backup&Restore utility does not need to know the actual console IP. It will identify the actual console IP once the initial connection has been made.



Connect/Disconnect

An attempt will be made to connect to the IP detailed above. The utility will then collect console information. Disconnect will abandon the current connection and remove all data from the information fields.



Backup

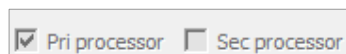
The user will be asked to specify a location to save the backup file. A compressed .tgz file will be saved in the selected destination directory. The filename will be in the format:

```
Backup_cust.consoleID.proc.0_day-month-year_hr-min-sec.tgz
```

For example:

```
Backup_53.11.1.0_31-05-2018_8-49-58.tgz
```

The date and time format will follow the regional settings of the PC, so the order may be different to the filename shown here depending on the PC from which the utility is run.



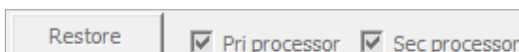
These check boxes represent which processor will be backed up. The checked box will automatically follow the active processor.

If a valid secondary connection is detected, the 'Sec Processor' checkbox will be enabled. With both checked, this will allow simultaneous backup of both primary and secondary processors.

Note

The Backup&Restore utility can connect either via an alias IP (ETX control processor); LAN adaptor IP (ComE control processor); or a direct ConsolePC connection. As such, it allows for connections to multiple consoles / cores if the console processors are connected via corporate LAN/network, allowing backups to be collected from one location.

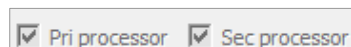
Although the backup process is a non-intrusive, as a precaution, backups should NOT be taken when the console is live on air.



Restore

When restoring a backup, the process will accept either a .zip backup file taken using the older 'Customer Data Backup Utility' or a .tgz file taken using this Backup&Restore. When a backup file is selected an initial check is done on the file to verify that:

- It is either a .zip or .tgz file
- The file itself contains genuine backup data



These check boxes detail which of the currently detected control processors the backup will be restored to. They also indicate that the control processor will be rebooted after the restore process.

The active control processor will automatically be checked and cannot be unchecked. Care should be taken when restoring to the **active card only** when both primary and secondary cards are plugged in. If the secondary or inactive card is detected on start-up the 'Sec processor' checkbox will automatically be checked, this can however be unchecked, but precautions should be taken to avoid the secondary card overwriting the primary configuration.

There are further considerations relating to these check boxes when restoring a backup file in 'Admin' mode.

There are two modes of operation when restoring a backup file:

User mode - Restore

This mode will cover 99% of all customer requirements. When the user selects a backup file to restore the utility compares the actual console software version and DSP pack size to that of the backup file being restored. If these both match exactly, the restore process is allowed to continue. If they are different, a notification is posted in the output window detailing why the file cannot be restored.

Admin mode - Restore

This mode is enabled by typing the password into the console IP address field and then pressing the 'Admin' button. When restoring a backup file in admin mode, only the type and backup file contents are checked. ALL software and DSP comparisons are disabled.

When Admin mode is active the following checkboxes are also enabled:

<input type="checkbox"/>	Restore system configuration files
<input type="checkbox"/>	Restore only the Hydra2 database

Restore system configuration files

Enabling this will restore the `Console.Config` and `rc.local` file from the selected backup file. If the 'Sec processor' option is checked these files will also be copied to the secondary processor.

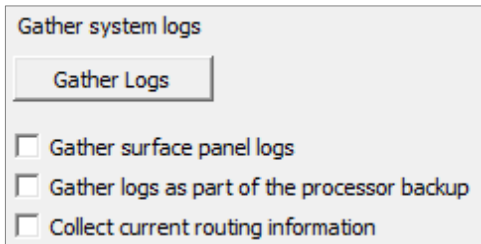
Restore only the Hydra2 database

Only the Hydra2 database is restored. All other configuration files, user data, show and memories are excluded from the restore process. This is mainly of use for master router cores, but has useful service applications.

Connection status	PRIMARY
Console	Artemis Shine
Processor version	8.2.82994
Processor type	ETX
Active processor	PRIMARY

Information fields

Connection status	This indicates which processor the utility is currently connected to (primary / secondary)
Console	Details the console type that the utility is connected to. The BackupRestore utility will recognise: Apollo Artemis Shine; Artemis Ray; Artemis Beam; Artemis Light Summa 180; Summa 128 VP2 240; VP2 180; VP2 128
Processor version	Details the absolute software version of the connected control processor (Master Control)
Processor type	Details the hardware type of control processor: This can either be the earlier 'ETX' or later 'ComeE'
Active processor	Details which control processor is the currently active card (primary / secondary)



Gather logs

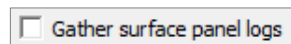
When collecting the console logs the user will be prompted initially for a directory to save the logs file to. A compressed `.tgz` file will be saved in the selected destination directory. The filename will be in the format:

```
CalrecLogs_cust.consoleID.proc.0_day-month-year_hr-min-sec.tgz
```

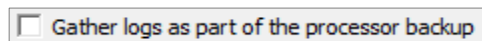
For example:

```
CalrecLogs_53.11.1.0_31-05-2018_8-49-58.tgz
```

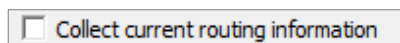
The date and time format will follow the regional settings of the PC, so the order may be different to the filename shown here depending on the PC from which the utility is run.



Selecting this checkbox will include surface panel logs when collecting the logs from the console. The utility will only collect logs from panels that have a configured panel connection (ie: it exists in the console's Surface Layout).



This option will disable the 'Gather Logs' button, logs will then be collected from the console when the user takes a backup of the console data. This option does not combine the backup and log files, but simply collects both at the same time. Two compressed `.tgz` files are still created, one for the console backup and one for the console logs.

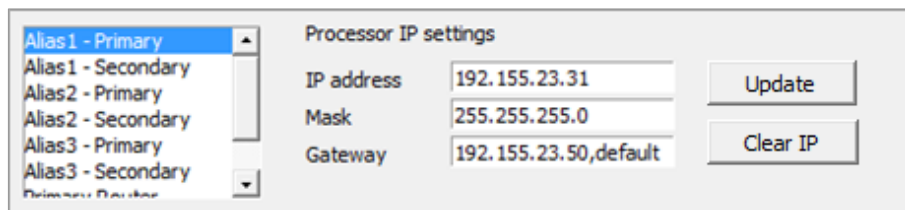


When the 'Gather Logs' button is pressed, this option will collect an up to date static copy of all routing information at the current time, and print it to the current H2Router log prior to extracting the log files.

Processor/Router IP settings

This section allows you to configure the external facing network ports on the front of the primary/secondary control processors and primary/secondary router cards. These can be alias IP address if the control processor is the older ETX variant (with MAC 3,4, 5 ports) or independent LAN addresses if the control processor is the newer ComE variant (with LAN1, 2, 3 ports). Router card IP settings will always be alias IP. The utility will automatically display the correct options to match the type of control processor.

Alias IP for ETX processors



Alias IP addresses are added/amended by selecting the appropriate alias, then filling out the 'IP address' and 'Mask' fields opposite. Once complete, click 'Update' to commit the new settings to the control processor. If selecting another Alias before clicking 'Update', any changes entered will be lost.

The 'gateway' field is optional. When a gateway address is required, the following format should be used:

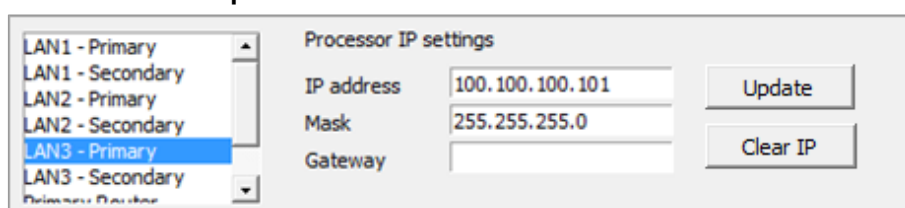
aaa.bbb.ccc.ddd, aaa.bbb.ccc.ddd <gatewayIP>, <targetIP> (with a space after the comma)
Or:
aaa.bbb.ccc.ddd,default <gateway>,default (no space after the comma)

The processor IP settings section provides tooltips. Tools tips will pop up when the mouse is left stationary over the IP address, mask or gateway input fields.

The 'Clear IP' button will remove any existing settings from the currently selected alias.

NOTE: Alias IP setting changes will require a reboot of the control processor for the settings to be applied.

LAN IP for ComE processors



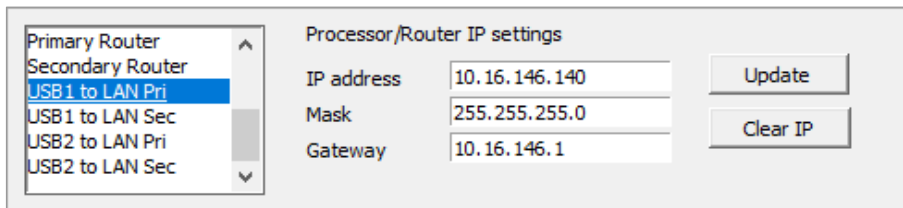
IP addresses are added/amended by selecting the appropriate LAN adapter, then filling out the 'IP address' and Mask' fields opposite. Once complete, click 'Update' to commit the new settings to the control processor. If selecting another LAN adapter before clicking 'Update', any changes entered will be lost.

The 'gateway' field is optional. In this instance, just the IP address of the gateway should be entered.

The 'Clear IP' button will remove any existing settings from the currently selected LAN adapter.

NOTE: LAN IP setting changes are effective immediately after pressing 'Update'. A reboot of the control processor is not required in this instance.

D-Link USB to Ethernet adapters for control processors



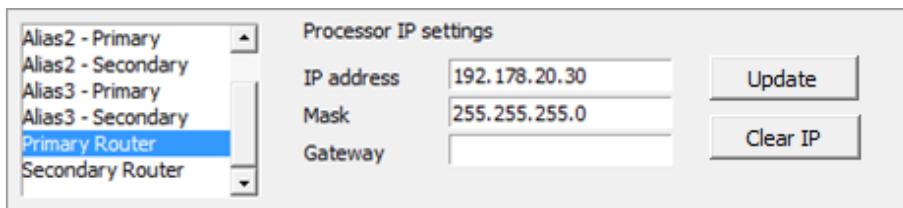
In the instance that D-Link USB to Ethernet adapters are installed in the control processor USB ports, IP addresses are added/amended by selecting the appropriate LAN adapter, then filling out the 'IP address' and 'Mask' fields opposite. Once complete, click 'Update' to commit the new settings to the control processor. If selecting another USB / LAN adapter / alias before clicking 'Update', any changes entered will be lost.

The 'gateway' field is optional. In this instance, just the IP address of the gateway should be entered.

The 'Clear IP' button will remove any existing settings from the currently selected USB adapter.

NOTE: USB adapter setting changes are effective immediately after pressing 'Update'. A reboot of the control processor is not required in this instance.

Alias IP for router cards




Router alias IP addresses are added/amended by selecting the appropriate router, then filling out the 'IP address' and 'Mask' fields opposite. Once complete, click 'Update' to commit the new settings to the router card. If selecting another Alias before clicking 'Update', any changes entered will be lost.

The 'gateway' field is optional. In this instance, just the IP address of the gateway should be entered.

The 'Clear IP' button will remove any existing settings from the currently selected router alias.

NOTE: Router alias IP setting changes will require a reboot of the router cards for the settings to be applied.

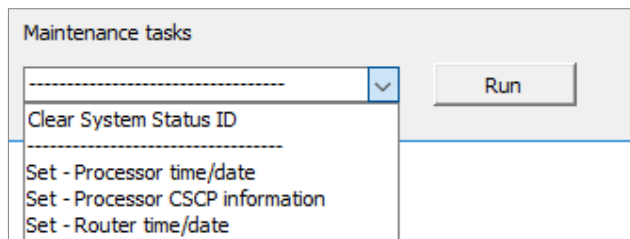
Master/Slave router status



This section will allow you to set the Master or Slave status of the router cards fitted to the connected rack. Pressing the appropriate 'Master' or 'Slave' button will configure the router as required. This action will restart the router cards and the user will be advised as such before committing to the operation.

The router Master/Slave status can only be changed when 'Admin' mode is selected.

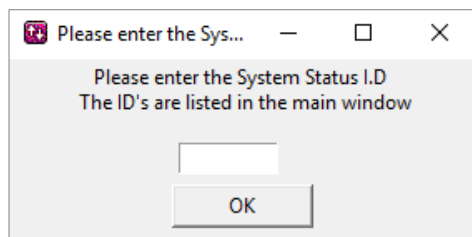
Maintenance tasks



Clear System Status ID

Allows 'stuck' System Status messages to be cleared. For example, these may be Console or IO box offline messages following the disconnection of a temporary OB truck network.

NOTE. This process does not resolve any legitimate faults, it simply clears the warning message. If a fault still exists, a new message will be generated for the fault following a control processor restart.



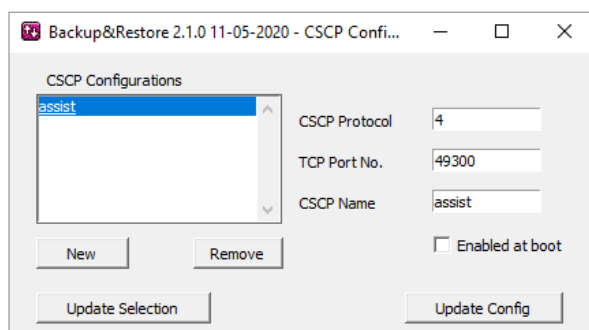
Running Clear System Status ID will open the above dialogue box. All open system status messages will be listed in the main window alongside their ID. Simply enter the ID of the system status message to be cleared and click 'OK'

Set – Processor time/date

Sets both primary and secondary processor time/date to that of the PC from which the utility is run. This also syncs the hardware clock to the system clock.

Set – Processor CSCP information

CSCP interfaces can be added/amended to allow remote control of certain console functions via the Calrec Assist iPad applications, or other third-party controllers.



There is no limit to the number of CSCP interfaces that can be created per console, and each CSCP interface will automatically apply to both primary and secondary control processors. By default, most consoles will already contain one CSCP Configuration with the name 'assist' (unless other user specific configurations have previously been created)

Each CSCP interface has the following four properties:

CSCP Protocol	Valid options are: 2 = Version 1 (Ross Compatible) 3 = Version 20 (Version 1 + Auxiliary send routing extensions) 4 = Version 21 (Version 20 + Channel/Group routing to mains extensions)
TCP Port No.	The following TCP ports are reserved and should not be used for CSCP: 0 – 1023, 3050, 3333, 4444, 41010, 49152 – 49199, 55000, 55100, 55555, 60001, 60002, 61000, 61001, 62000, 62001, 63000 Common default = 49200 or 49300
CSCP Name	A text string that will identify the interface in the console PC application
Enabled at Boot	Yes (checked) = always enabled at boot, can be disabled in the console PC application No (unchecked) = never enabled at boot, must be manually enabled in the console PC app

Once all details for all CSCP interfaces are completed, click “Update Config” Update’ to commit the new settings to the control processor.

NOTE: CSCP configuration changes will require a reboot of the control processor for the settings to be applied.

Set – Router time/date

Sets both primary and secondary and expander router card time/date to that of the PC from which the utility is run. This also syncs the hardware clock to the system clock.

Further Maintenance tasks are available when logged in as Admin.

For advice on further admin tasks, please contact Calrec Customer Support at support@calrec.com

Misc features

- Verifies against invalid IP addresses/mask/gateway for the alias/LAN settings
- Provides feedback if hardware cannot be detected
- Alerts the user if they are connected to the inactive card
- Reboots the processors after the restore of a backup file
- Provides a warning before restoring a backup file
- Provides a user warning before promoting/demoting router cards
- When restoring a backup file ALL user data is wiped prior to the restore. This ensures that the only files to exist on the control processor are the ones contained in the backup file being restored
- Provides hover ‘Tooltips’ for certain GUI options. These are displayed after the mouse has been static over the object for 2 or more seconds
- Does not require/rely on external Windows software applications (zip, plink etc)
- Preserves any surface layout file named `support_default.slo` when restoring a backup
- Allows System Status ID’s to be cleared
- Allows all control processors(s) time and date clocks to be sync’d to the PC clock
- Allows all router card(s) time and date clocks to be sync’d to the PC clock
- Verifies that you have permission to write to the specified location before taking a backup or console logs
- Creates a log file either in C:\Calrec\logs or in the directory the utility is run from if C:\Calrec\Logs does not exist
- Allows Summa core running levels to be configured (Admin mode)
- Allows Summa to globally enable/disable EMBER (Admin mode)
- Allows Console Type (Apollo, Artemis Light etc) to be set (Admin mode)
- Allows the Console ID to be set (Admin mode)
- Allows control processor debug to be switched on/off (Admin mode)
- Allows router card debug to be switched on/off (Admin mode)
- Allows dump routing info (Admin mode)