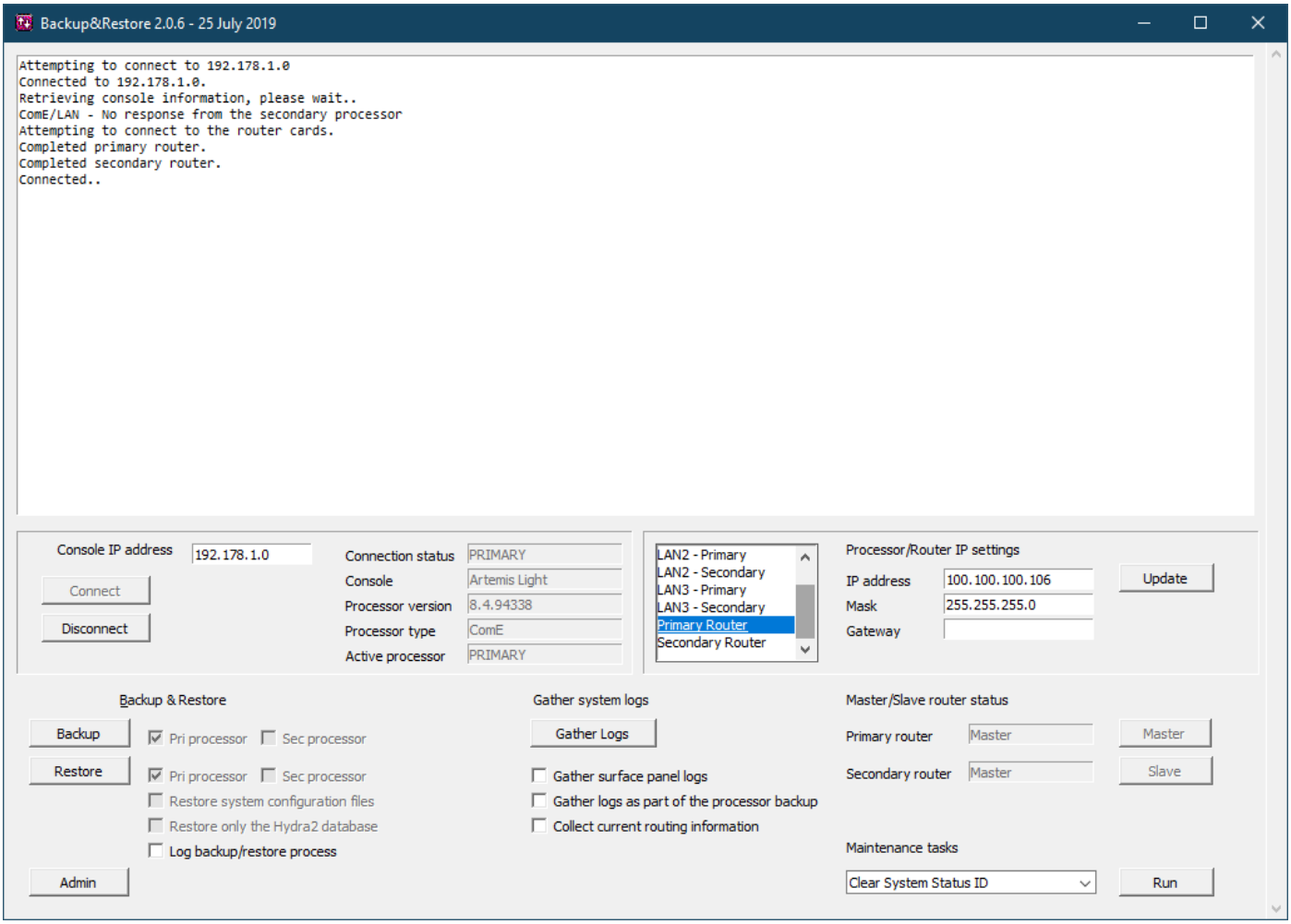
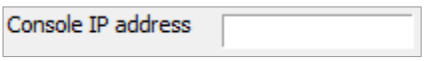
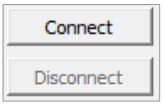
BACKUP & RESTORE USER GUIDE



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 P.C that has a LAN adaptor named CalrecDeskConnection. When manually entering the address this should be the address of the LAN/MAC port that is configured on the 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 in item 2. The utility will then collect console information. Disconnect will abandon the current connection and remove information from all information fields.

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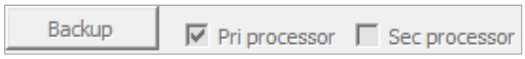
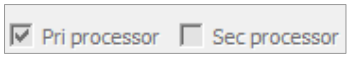


Backup The user will be be asked to specify a location to save the backup file. A compressed 'tgz' file will be saved in the selected destination directory. The filename applied will be in the format:

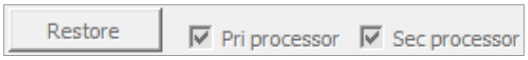
Backup_cust.consoleID.proc.0_day-month-year_hr-min-sec.tgz
e.g.
Backup_53.11.1.0_31-05-2018_8-49-58.tgz

The date and time format will follow the regional settings of the P.C so the order may be different to the filename shown here depending on the P.C the utility is ran from.



These check boxes represent which processor will be backed up. The checked box will follow the active processor.
If a valid secondary connection is detected, either via a ConsoleP.C or network switch connection the 'Sec Processor checkbox will be enabled. When checked this will allow simultaneous backup of both primary and secondary processors.

Note
As the Backup&Restore utility can connect either via the alias IP, LAN adaptor IP in the case of a newer ComE or a direct ConsolePC processor connection it does therefore allow multiple console backups to be completed if the console processors are connected via corporate LAN/network. **Although the backup process is a non-intrusive process 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 previous CustomerDataBackupUtility.jar 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 control processors the backup will be restored to. They also indicate if the 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:

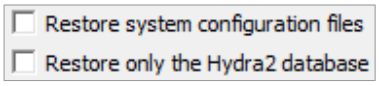
User mode - Restore

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 size to that of the backup file being restored. If these 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 this 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:



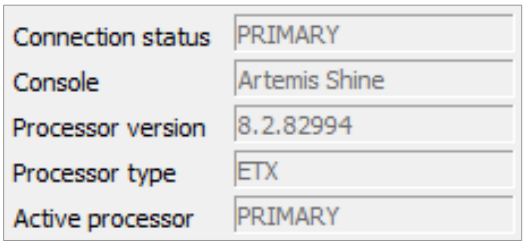
Restore system configuration files

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.

Information fields



Connection status This indicates which processor the utility is connected to.

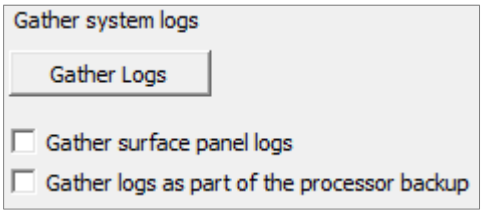
Console Details the console type the utility is connected to. The BackupRestore utility will recognise:
Apollo
Artemis Beam, Artemis Shine, Artemis Light. Artemis Ray
Summa 128, Summa 180

Processor version Details the software version of the connected control processor.

Processor type Details the type of control processor. This can either be the earlier ETX or later ComE.

Active processor Details which processor is the active card.

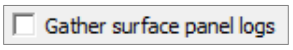
Gather logs



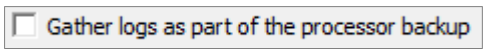
Gather Logs When collecting the console logs the user will be prompted initially for a directory to save the logs file to. A compressed .tgz file will be saved containing all of the system logs. The tgz filename format will be in the format:

CalrecLogs_cust.consoleID.proc.0_day-month-year_hr-min-sec.tgz
e.g.
CalrecLogs_53.11.1.0_31-05-2018_8-49-58.tgz

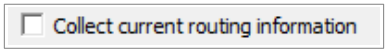
The date and time format will follow the regional settings of the P.C so the order may be different to the filename shown here depending on the P.C the utility is ran from.



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, I.e. it exists in the console configuration (Surface Layout).



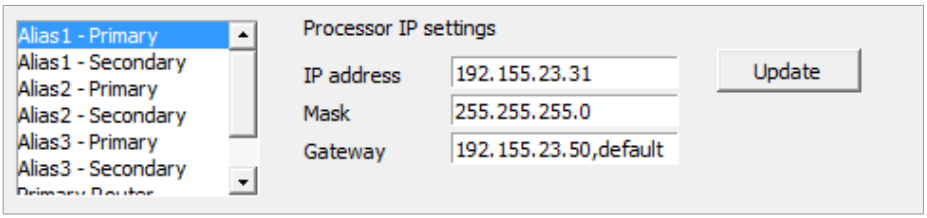
This option will disable the Gather Logs button, logs will then be collected from the console when the user takes a backup of the console data. This option does not combine the backup and log files but simply collects both at the same time. Two compressed tgz files are still created, one for the console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



When the 'Gather Logs' button is pressed this option when selected will provide a static copy of all routing information and place it into the current H2Router log.

Processor/Router IP settings
This section allows you to configure the front network ports on the primary/secondary control processors and primary/secondary router cards. These can be alias IP address if the processor is the ETX variant or independent LAN addresses if the newer ComE processors are fitted. Router card IP settings will always be alias IP. The utility will automatically update the list depending on the type of processor that is fitted.

Alias IP for ETX processors

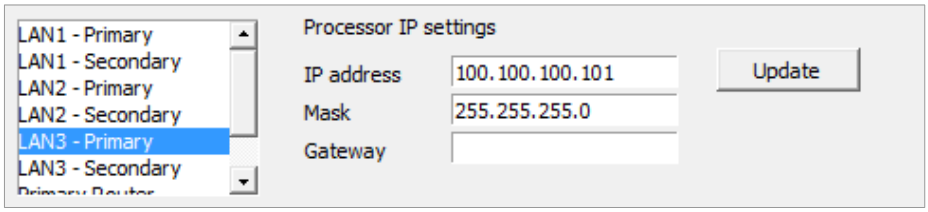


When entering alias IP and gateway addresses the following format should be used.

Alias gw = aaa.bbb.ccc.ddd, aaa.bbb.ccc.ddd - (gateway, target)
or
Alias gw = aaa.bbb.ccc.ddd,default - (gateway,default)

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

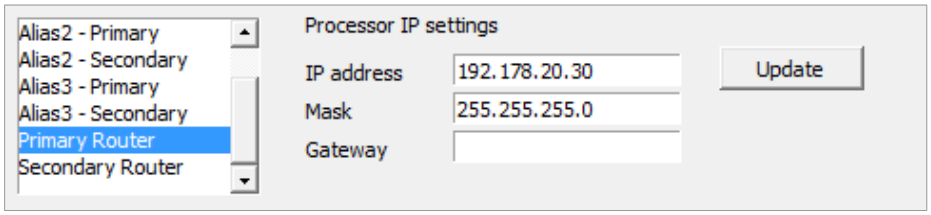
LAN IP for ComE processors



IP addresses are added/amended by selecting the appropriate LAN port/alias and then filling out the IP address/mask and gateway fields opposite. Once complete click 'Update' to commit the new settings to the control processors(s)

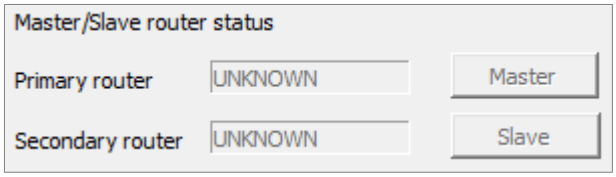
NOTE: LAN IP settings are effective immediately after pressing Update and a confirmation is displayed in the output window. Alias IP settings will require a reboot of the control processors for the settings to be applied.

Alias IP for router cards



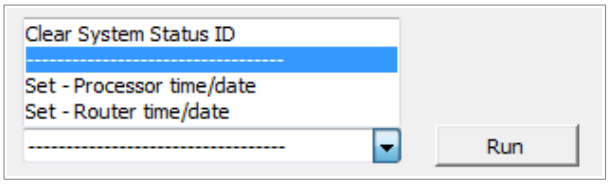
NOTE: Router alias IP settings will require a reboot of the router cards for the settings to be applied.

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. NOTE. This does not remove the fault. If the fault still exists the message will return on the next processor restart.

Set – Processor time/date: Sets both primary and secondary processor time/date to that of the P.C from which the utility is ran from. This also syncs the hardware clock to the system clock.

Set – Router time/date: Sets both primary and secondary and expander router card time/date to that of the P.C from which the utility is ran from. This also syncs the hardware clock to the system clock.

Further Maintenance tasks are available when logged in as Admin. For advise on this section please contact Calrec Customer Support at support@calrec.com

Misc features

- Checks 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 a MCS restore
- 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 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 a surface layout file called support_default.slo when restoring a backup.
- Allows System Status ID's to be cleared (Admin mode)
- Allows Summa core default configurations to be set (Admin mode)
- Allows control processor debug to be switched on/off
- Allows router card debug to be switched on/off
- Allows all control processors(s) time and date clocks to be sync'd to the P.C time
- Allows all router card(s) time and date clocks to be syn'd to the P.C time
- Allows Console Type (Apollo, Artemis Light etc) to be settings
- Allows the Console ID to be set
- 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.