Calrec Assist is an application that acts as a virtual desk. It has two implementations, online and offline:

- Calrec Assist Online can run in two ways:
 - It can be launched from the Console PC, allowing the current desk settings to be exported as a "Desk Package". A Desk Package contains a complete description of a particular console including channel counts, bus counts, number of faders, and all required I/O.
 - It can be accessed by an external PC or laptop connected to the console's control processor MAC or LAN port, allowing the control of a number of functions that would normally only be controlled from the console surface.
- Calrec Assist Offline runs within a virtual machine that can be installed to any external PC or laptop:
 - An exported Desk Package will allow the configuration of shows, memories, fader layouts, bus resources, patching and routing away from the console.
 - > Shows created offline can then be imported into the live console.

Calrec Assist (Online and Offline) runs within the Google Chrome web browser and is supported from Apollo and Artemis software version 9.0. There is no support for Summa or Brio consoles.

Calrec Assist Offline additionally utilises a virtual web server. As such, it can run on any Mac, Windows (Win7 or higher), or Linux device that can support Oracle's VM VirtualBox software.

N.B. There is currently no official release of VirtualBox that supports Macs which utilise Apple M1 or M2 processors.

This document specifically details the Calrec Assist Offline Windows 7 installation process, but the VM has also been tested successfully in Windows 10 and Windows 11 environments.

Additional steps are specified in line for Mac users, but the remaining process should be followed as per the equivalent Windows steps.

Full operational details can be found in the "Calrec Assist Manual (926-217)".

N.B. A minimum of 1.5GB free disk space is required for the Calrec Assist Offline installation. A PC or laptop with an I5 Intel or A10 AMD processor and 4GB Ram is also recommended.

All necessary files and documentation have been made available for download from the Calrec FTP server:

URL: <u>http://ingress.calrec.com</u> Username: Assist_Offline Password: N7IVM9X4

Configuring the Calrec Virtual Machine for Calrec Assist Offline

Install Oracle VM VirtualBox

- Download the latest version of VirtualBox and the corresponding Extension Pack from <u>https://www.virtualbox.org/</u> At the time of writing (22/02/23) the current version is: VirtualBox-7.0.6-155176-Win.exe / VirtualBox-7.0.6-155176-OSX.dmg and Oracle_VM_VirtualBox_Extension_Pack-7.0.6a-155176.vbox-extpack
- 2. Install VirtualBox to your host PC or laptop:



- 3. If the Open File Security Warning dialogue is displayed (above left), please select Run, then click Next to begin the installation (above right).
- 4. Install all VirtualBox components (below left).

The default install location is C:\Program Files\Oracle\VirtualBox.

To continue, select **Next**, or to change this location, click **Browse** and manually choose a different install location.

🕼 Oracle VM VirtualBox 7.0.4 Setup	×	岁 Oracle VM VirtualBox 5.0.14 Setup
Custom Setup Select the way you want features to be installed. Click on the icons in the tree below to change the way features will be installed. Click on the icons in the tree below to change the way features will be installed. Oracle VM VirtualBox 7.0.4 application. VirtualBox Networking VirtualBox Networking VirtualBox Networking VirtualBox Python Support VirtualBox Python Support Subfeatures selected. The subfeatures selected. The		Custom Setup Select the way you want features to be installed. Please choose from the options below: Image: Create a shortcut on the desktop Image: Create a shortcut in the Quick Launch Bar Image: Register file associations
Location: C:\Program Files\Oracle\VirtualBox\ Browse Version 7.0.4 Disk Usage < Back		Version 5.0.14 Cancel

5. Ensure all options are ticked (above right), then click Next.



- 6. With Virtual Box v7, you may receive a warning referring to "Missing Dependencies" relating to Python Core / win32api (right). There is no requirement to install Python or any other 3rd party software. Ignore this warning and click **yes** to continue with the install.
- 7. You will receive a warning that your PC or laptop's network adapter will be reset during the next stage of this installation. This is only a temporary interruption while VirtualBox installs a necessary virtual network adapter. Please select **yes** (below left), then Install (below centre).



· J Oracle VM VirtualBox 5.0.14	B Oracle VM VirtualBox 5.0.14 Setup	🖞 Oracle VM VirtualBox 5.0.14 Setup
Warning:	Ready to Install The Setup Wizard is ready to begin the Custom installation.	Oracle VM VirtualBox 5.0.14
Network Interfaces National of the oracle VM Virtualizor, 5.0,14 Networking feature will react your network connection and temporarily document you for the network. Proceed with installation now?	Click Install to begin the installation. If you want to review or change any of your installation settings, dick Back. Click Cancel to exit the wizard.	Please wait while the Setup Wizard installs Oracle VM VirtualBox 5.0.14. This may take several minutes. Status: Copying new files
Version 5.0.14 Yes No	Version 5.0.14 <back cancel<="" install="" th=""><th>Version 5.0.14 <back next=""> Cancel</back></th></back>	Version 5.0.14 <back next=""> Cancel</back>

8. You will then receive up to three **Windows** security warnings as the necessary Oracle drivers and network services are installed. In each case, please click Install.

- Windows Security	Windows Security	💓 Windows Security
Would you like to install this device software?	Would you like to install this device software?	Would you like to install this device software?
Name: Oracle Corporation Universal Serial Bus Vublisher: Oracle Corporation	Name: Oracle Corporation Network adapters Publisher: Oracle Corporation	Name: Oracle Corporation Network Service Publisher: Oracle Corporation
Always trust software from "Oracle Corporation". Install Don't Install	Always trust software from "Oracle Corporation". Install Don't Install	Always trust software from "Oracle Corporation". Install Don't Install
You should only install driver software from publishers you trust. <u>How can I decide</u> which device software is safe to install?	You should only install driver software from publishers you trust. <u>How can I decide</u> which device software is safe to install?	You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

- 9. Once the installation is complete (below left), do not immediately start Virtual Box.
- 10. Instead, now install the appropriate VirtualBox_Extension_Pack from the .vbox-extpack file.
- Once complete, it may be necessary to restart your PC / Laptop before VirtualBox can be run correctly. If this is the case, please ensure any open files are saved before selecting Yes (below right). This will cause Windows to reboot.





Additional steps for Mac users only

The following steps are necessary to de-restrict the IP address range that can be utilised by Virtual Box in a Mac environment:

Mac 1. From the Mac Launch bar run Terminal and type the following:

sudo mkdir /etc/vbox [ENT]

- Mac 2. Type in your password when requested.
- Mac 3. Create a blank config file by typing the following:

sudo nano /etc/vbox/networks.conf [ENT]

- Mac 4. Type only the following into this file:
 - * 0.0.0.0/0
- Mac 5. Press c_{ntrl+x} and follow the prompts at the bottom of the window to SAVE and EXIT.

Now continue as per the remaining Windows installation.

Configure Oracle VM VirtualBox

12. Launch VirtualBox. If all options were ticked in step 5, a shortcut will be located on the desktop.



13. The VirtualBox front page will open, presenting an empty list (below left). In the File -> Tools -> Network Manager, select the Host-only networks tab

9	Oracle VM VirtualBox Manager	- • ×
File Machine Network Help	Create Remove Properties	Importing appliance 😫
	Host only Networks NAT Networks Ocod Networks Pro- Iname Provide Provi	41% Anno man an a
	Adapter DHCP Server DHCP Server DHCP Server Server Address: 192.168.56.100	
	Server Mask: 253.253.253.0 Lower Address Bound: 192.163.56.101 Upper Address Bound: 192.163.56.254	Apply Reset

🧾 Host	Network	Manager			-		\times
Network							
Create	Remove	Properties					
Name		~		IPv4 Address/Mask	IPv6 Address/Mask	DHCP 9	Server
VirtualBo	x Host-Or	nly Ethernet A	Adapter	192.168.90.1/24		Enal	ble
						1	

14. In the Host-only networks tab (above right), if the list is empty click the Create button to create a new adapter, otherwise highlight the adapter VirtualBox Host-Only Ethernet Adapter, then click on the properties icon in order to configure the adapter's settings.

15. On the Adapter tab (below left), select Configure Adapter Manually and set the IPv4 Address as follows:

IPv4 Address = 172.29.69.42 IPv4 Network Mask = 255.255.0.0

16. On the DHCP server tab (below right), deselect (untick) the option Enable server, then click Apply.

🗐 Host Network Mana	iger		-		×
Network					
Create Remove Prop	perties				
Name		IPv4 Address/Mask	IPv6 Address/Mask	DHCP	Server
VirtualBox Host-Only Eth	hernet Adapter	172.29.69.42/16		🗹 Ena	able
Configure Adapter Au Configure Adapter Ma	utomatically Ianually				
IPv4 Address:	172.29.69.42				
IPv4 Network Mask:	255.255.0.0				
IPv6 Address:	fe80::39f2:64ce:8	3085:167f			
IPv6 Prefix Length:	64				
Reset			Apply	C	lose

N.B. The virtual adapter can also be configured in the Windows environment via the Network Connections window

Import the Calrec Virtual Machine

17. Either, open the downloaded Calrec Virtual Machine (below left) directly from the Windows file system; or from within Virtual Box, click File -> Import Appliance, then locate the Calrec Virtual Machine in the browser, then click Next.

The Calrec Virtual Machine image file is called Calrec Assist Offline.ova.

Organize 🔹 😗 Open	•	Share with 👻 E-mail	Bu	m New folder			j≡	- 🛯 0
☆ Favorites ■ Desktop ↓ Steve G Documents ↓ Downloads	1	Name Apollo+Artemis 5.0 Supporting Documentation Virtual Box	an		Date 03/03 03/03	modified //2016 14:26 //2016 15:02 //2016 14:57	Type File folder File folder File folder	Size
Dropbox Dropbox CalRectPlaces CalReC-FILE SharePoint Documents Music Pictures Videos		Calrec Assist Offline.ova	₩ ₩	Open Edit with Notepad++ Open with McAfee Share with Restore previous versions Send to Cut Cut Copy	• •	2016 13:59 2016 14:21	Open Virtualizatio Shortcut	1,275,455 KB 2 KB
Computer Local Disk (C:) Stevel: 0\calvec-file\ Calrec Assi Open Virtua	ist Or lizati	ffine.ova Date modifie on Format Archive Sc		Create shortcut Delete Rename				

- 18. The Import Virtual Appliance window (above right) will now appear, listing information about the Calrec Assist Offline virtual machine. These settings have been pre-configured by Calrec and do not require further configuration.
- 19. Click Import to begin the import of the virtual disk image. The progress of this import will be shown (right).



Configure the Calrec Virtual Machine

20. If more than one Virtual Machine is listed in the left-hand column, click once on the Calrec Assist Offline virtual machine to highlight it, then click settings (below).

Oracle VM VirtualBox Manager		
New Settings Discard Start		设 Details 💿 Snapshots
Calrec Assist Offline Powered Off	General Name: Calrec Assist Offine Operating System: Fedora (32-bit) System Base Memory: 1024 MB Boot Offer: Floppy, Optical, Hard Disk	Calrec Assist Offline
	Celeration: KVM Paravirtualization Sisplay Video Memory: 12 MB Remote Desktop Server: Disabled Video Capture: Disabled	
	Storage Controller: IDE IDE Primary Waster: Calrec Assist Offline-disk 1.vmdk (Normal, 7.63 GB) Controller: SATA	
	Audio Host Driver: Windows DirectSound Controller: ICH AC97	
	Network Adapter 1: Intel PRO/1000 MT Desktop (Host-only Adapter, VirtualBox Host-Only Ethernet Adapter - Packet : O USB	Scheduler Miniport')
N-1	UB Controller: OHCI Device Filters: 0 (0 active)	

21. In the Calrec Assist Offline - Settings window, select the Network view (below). Click on the Adapter 1 tab, then click the Advanced arrow to reveal further options.

6	🕽 Calı	ec Assist Offline	Settings	8 ×
		General	Network	
		System	Adapter 1 Adapter 2 Adapter 3 Adapter 4	
		Display	Imable Network Adapter	
	\bigcirc	Storage	Attached to: Host-only Adapter	
	Þ	Audio	Name: VirtualBox Host-Only Ethernet Ada	pter 🔻
	₽	Network	Adapter Type: Intel PRO/1000 MT Desktop (8254	0EM) 🔻
	٨	Serial Ports	Promiscuous Mode: Allow All	•
	Ø	USB	MAC Address: 000D07FFE93B	9
		Shared Folders	Cable Connected	
	:	User Interface		
			OF	Cancel Help

- 22. Ensure Enable Network Adapter is ticked, and that the name of the adapter selected is VirtualBox Host-Only Ethernet Adapter.
- 23. Ensure that **Promiscuous** mode is set to Allow All, then click ok.

Hardware Assisted Virtualisation

It is advised that Hardware Assisted Virtualisation (HAV) is enabled on the host machine, if supported. This is usually found in the BIOS settings of the computer that Calrec Assist Offline will be running on and may be referred to as "Intel VT-x"; "AMD-V"; or "ViA VT" depending on the Processor-Motherboard-BIOS combination. Often this is enabled by default.

For Windows 7:

Microsoft provide a "Hardware-Assisted Virtualization Detection Tool": <u>https://www.microsoft.com/en-</u> <u>GB/download/details.aspx?id=592</u> This will inform if the host machine does or does not

support HAV, and if it is currently enabled or not.

For Windows 8, 10 and 11:

Open the Windows Task Manager and view the Performance tab.

Under the CPU graph, the system will state if **Virtualisation** is Enabled or Disabled.



Exporting a Desk Package from a Live Console

Before running the Calrec Assist Offline editor, it is first necessary to export a "desk package" from a live console using the Calrec Assist Online UI. This desk package contains data specific to the console, including (but not limited to) channel counts, bus counts, number of faders, required I/O, databases and software version information.

Connecting to Calrec Assist Online from the Console PC

There are two ways to launch Calrec Assist Online from the Console PC:

1. In the Calrec Console PC Application, Navigate to Systems Settings -> Calrec Assist UI, then click show Calrec Assist. This will open a Google Chrome browser, automatically configured with the correct URL.

Calrec Art	emis Light 5.0 - Show: MASTER	_ 0 _ X
Calrec Assist UI	Calrec Assist UI	
Down Mix	Calrec Assist UI is used to export a desk package for use with Calrec Assist Offline. This lets you work with your show data without a connection to a live system.	
	To access the Calrec Assist UI from this PC, tap the button below, or use the desktop shortcut.	
Ext Control	Show Calrec Assist	
External	To access the Calrec Assist UI from an external PC or Mac, follow these steps:	
Inputs	1 - Connect to the Desk	
Inserts Setup	Connect a cable from your computer to the MAC 3, 4, or 5 socket on the primary control module.	
Patching	2 - Configure Static IP	
Surface	On your computer, set a static IP address which is compatible with one of the following primary control module aliases:.	
Illum	Address: 192.168.1.5 Subnet Mask: 255.255.255.0 Address: 192.168.1.6 Subnet Mask: 255.255.255.0	
Surface Layout	3 - Browse to the UI	
Sync	On your computer, open Chrome and enter the appropriate address for the Control Processor port to which your computer is connected.	
TX/REH		
	C States A & Operate JUO IMem Recht Tech Show Settings System Retrings Retr	System Status Everything is OK

2. Open Google Chrome and directly enter the appropriate URL. The URL will be the address of the primary control processor in the format a.b.1.0; where a.b is the console ID.

A bookmark can be saved in Google Chrome, or alternatively a shortcut can
be created on the desktop configured with the following settings:



Target:	"C:\Program File	es\Google\Chrome\Application\chrome.e	exe"app=http://a.b.1.0
Start In:	"C:\Program File	es\Google\Chrome\Application"	

Connecting to Calrec Assist Online remotely via MAC 3, MAC4 or MAC5 (ETX Control Processors)

Calrec Assist Online can also be accessed from a remote PC or laptop via a connection to one of the MAC ports on the active control processor (by default, the primary). This allows a desk package to be exported without interrupting the work flow of another person currently using the console.

A connection via a MAC port can be made via any user determined IP address, but requires the Control Processor's alias IP address to have previously been configured using the Calrec Backup & Restore utility. (See Backup & Restore Utility - User Guide.pdf for more details. This will be located in the C:/Calrec/Docs folder of a console PC).

If any alias IP addresses have already been pre-configured, these will be listed in the calrec Console PC Application, On the Systems Settings -> Ext Control page:

Calrec Art	emis Light 5.0 - Show: MASTER			
Calrec	EMBER Control		IP Aliases	
Assist UI	Show and memory recall	Enable Disable	atias 1 Primary Control Processor Address: 147,1.1.0 Alias Address: 192.168.1.5 Alias Netmask: 255.255.255.0	
Ext Control	Alias file selection	Enable Disable	atias2 Secondary Control Processor Address: 147,1.2.0 Alias Address: 192.168.1.6 Alias Netmask: 255.255.255.0	
External	Serial Control Interfaces			
Inputs	assist (CSCP v21) Primary Control Processor Address: 147.1.1.0	Enable Disable		
Inserts Setup	Secondary Control Processor Address: 147.1.2.0 Port: 49300			
Patching	CSCP Fader Override	Enable Disable		
Surface Illum				
Surface Layout				
Sync				
TX/REH				
CALRE	States ^ 🥵 Operate 📌 1/0	Mem Y Tech K Show	y System gs Settings W Hydra2 Settings Bettings Sync Primary Source	Everything is OK

- N.B. If a connection is direct from a PC or laptop, this can be made to any available MAC port. If a connection is via a corporate network or external (3rd party) switch, then this connection should only be made via the MAC 5 port.
- 1. Configure the PC or laptop's network adapter with a unique IP address in the same range as the control processor's IP alias address.
- 2. Connect the cable between the PC or laptop's network adapter and the primary control processor's MAC port.
- 3. Open Google Chrome and enter the URL that matches the chosen alias IP address

Connecting to Calrec Assist Online remotely via LAN1, LAN2, LAN3 (COMe Control Processors)

Calrec Assist Online can also be accessed from a remote PC or laptop via a connection to any one of the available LAN adapters on the active control processor (by default, the primary). This allows a desk package to be exported without interrupting the work flow of another person currently using the console.

A connection via a LAN port can be made via any user determined IP address, but requires the Control Processor's LAN port IP address to have previously been configured using the Calrec Backup & Restore utility. (See Backup & Restore Utility - User Guide.pdf for more details. This will be located in the C:/Calrec/Docs folder of a console PC).

If any IP addresses have already been pre-configured, these will be listed in the Calrec Console PC Application, On the Systems Settings -> Control Protocols -> CSCP page:

Calrec Ar	rtemis Beam Beta1 - Show: 61	th Aug (48 kHz)								- 0 ×
Control Protocols	CSCP	Ember/Em	ber+							
Down Mix	Setting Up CSCP					csc	P Interfaces			
External Inputs	Use the Port Number for The IP Address used for a which the controller is co	the appropriate CS a CSCP Connection onnected	depends on the	wn to the right LAN Port to		Por	t: 4	9300		
Fixed IO Inserts Setup	Control Processor 1 LAN 1 192.1 LAN 2 10.82 LAN 3 100.10	78.10.10 1.113.200 00.100.200	Control Proces LAN 1 LAN 2 LAN 3	ssor 2 192.178.10.20 10.82.113.201 100.100.200.200				-		
LAN Config Surface	CSCP Fader Override			Enable	Disable					
Surface Layout										
Sync										
TX/REH										
C A L R E	C States ^	Operate	al Vo	D Mem	Tech	Show Setting	s Syst	tem tings Kydra2 Settings	Sync Internal Primary Source	System Status e Everything is OK

- 1. Configure the PC or laptop's network adapter with a unique IP address in the same range as the LAN adapter's IP address.
- 2. Connect the cable between the PC or laptop's network adapter and the primary control processor's LAN adapter.
- 3. Open Google Chrome and enter the URL that matches the chosen LAN adapter's IP address.

Calrec Assist Online

Once connected, Calrec Assist Online will show the console Information page. This provides a breakdown of the active desk, including:

System:	the type of console (Apollo, Artemis Shine / Ray / Beam / Light)
Software Version:	the current software version
Label:	the client name (ie: as set in H2O)
No Faders:	number of faders (ie: as set by the active surface layout file)



Exporting a Desk Package

- 1. Clicking Export active desk at the bottom of the Console Information page (above), will begin the export of the desk package.
- 2. Depending on your settings within Google Chrome, either:
 - The package will download automatically to your default download location using the default file name.
 - Google Chrome will ask where you would like to save the package to and will also give you the opportunity to download the package with a user defined file name.
 - N.B. This option can be modified within the Google Chrome browser by entering the URL chrome://settings; clicking Show advanced settings...; scrolling down to Downloads; then modifying the Download location, or checking the box Ask where to save each file before downloading

The default file name uses the format Label-System-Software Version.CalrecDeskPackage For example, the desk package from the active desk displayed in the image above would be:

```
Studio 1-Artemis Light-v9.1.CalrecDeskPackage
```

The file extension will always be .CalrecDeskPackage

Exporting Shows from a Live Desk

Whilst a desk package will contain data specific to a particular console, a desk package exported via Calrec Assist Online (ie: from a live system) will **not** contain any shows other than the Calrec default show. This includes any other customer default shows.

If show files are required, for example to base a new setup on an existing show (user or default), then the relevant show files should also be exported from the console.

Exporting shows from the Calrec Console PC Application

Shows (including the memories within them and their relevant options files) can be backed up (exported) to the console PC HDD, or a USB drive connected to the console's upstand USB port using the calrec Console PC Application On the Mem -> Backup -> Show List page:

Aliases Output Aliases Presets	Rename Show Delete Selected Shows RTE RTE RTE RTE RTE RTE	Client / User 7376A c	Series / Project Artemis Commissioning Artemis STEVE G SAVE SHOW A Artemis Artemis	6 - 1 Factory Default IO Testing MASTER S MASTER SPECIAL EVENTS	6 - 1 MAST Blank Desk In, out and NEWS MAS NEWS MAS	Show Descriptio TER k d DSP tests	n Sample R 48 kHz 48 kHz 48 kHz	ate 28/02 16/11	Last /2016 19	Saved	Def	ault
Output Aliases Presets	Delete Selected Shows Calrec RTE RTE RTE RTE RTE RTE RTE	7376A c	Artemis Artemis Commissioning Artemis STEVE G SAVE SHOW A Artemis Artemis	6 - 1 Factory Default IO Testing MASTER SMASTER SPECIAL EVENTS	6 - 1 MAST Blank Desk In, out and NEWS MAS NEWS MAS	TER k d DSP tests	48 kHz 48 kHz 48 kHz	28/02	/2016 19	05:05	_	
Presets	Delete Selected Shows Calrec RTE RTE RTE RTE RTE RTE	7376A c	Artemis Commissioning Artemis STEVE G SAVE SHOW A Artemis Artemis	Factory Default IO Testing MASTER S MASTER SPECIAL EVENTS	Blank Desk In, out and NEWS MAS NEWS MAS	k d DSP tests ISTER	48 kHz 48 kHz	16/11				
Presets	Calrec Shows Calrec RTE RTE RTE RTE	c	Commissioning Artemis STEVE G SAVE SHOW A Artemis Artemis	IO Testing MASTER S MASTER SPECIAL EVENTS	In, out and NEWS MAS NEWS MAS	d DSP tests	48 kHz		/2015 19	:11:00		
Presets	RTE RTE RTE RTE		Artemis STEVE G SAVE SHOW A Artemis Artemis	MASTER IS MASTER SPECIAL EVENTS	NEWS MAS	STER		07/10	/2015 23	:33:46		
	RTE RTE RTE		STEVE G SAVE SHOW A Artemis Artemis	S MASTER SPECIAL EVENTS	NEWS MAS		48 kHz	03/03	/2016 13	:56:03		
	RTE RTE RTE		Artemis Artemis	SPECIAL EVENTS		STER	48 kHz	04/03	/2016 09	.48:54		
	RTE		Artemis		MASTER		48 kHz	29/02	/2016 11	:07:13		
	RTE			TRAINING	NEWS MAS	STER	48 kHz	25/02	/2016 11	:07:25		
			Artemis	Default	NEWS MAS	STER	48 kHz	23/09	/2015 22	:21:11	Defau	lt
	Select Backup Location	ion C:\Calrec_Arc	chive\Show_Backups\v5	_0 shows	BACKED UP SH	HOWS						
	Select Backup Location Client / User	ion C:\Calrec_Arc Series / Project	chive\Show_Backups\v5.	0 shows	BACKED UP SH	HOWS	Last Saved	Default	Error	Desk Type	Legacy Show	
	Select Backup Location Client / User	ion C:\Calrec_Arc Series / Project Artemis	chive\Show_Backups\v5 Show SPECIAL EVENTS	D showsShow Descr	BACKED UP SH	HOWS	Last Saved	Default	Error	Desk Type Artemis	Legacy Show	
	Select Backup Location Client / User RTE Art RTE STI	ion C:\Calrec_Arc Series / Project Artemis STEVE G SAVE SHOW	chive\Show_Backups\v5 Show SPECIAL EVENTS VAS MASTER	_D shows Show Descr MASTER NEWS MASTER	BACKED UP SH	HOWS	Last Saved 29/02/2016 11.07:13 03/03/2016 15:56:25	Default	Error	Desk Type Artemis Artemis	Legacy Show	
	Select Backup Location Client / User RTE Art RTE Art RTE Art	ion C:\Calrec_Arc Series / Project Artemis STEVE G SAVE SHOW Artemis	chive\Show_Backups\v5 Show SPECIAL EVENTS (AS MASTER Default	D shows Show Descr MASTER NEWS MASTER NEWS MASTER	BACKED UP SH	HOWS	Last Saved 29/02/2016 11:07:13 03/03/2016 15:56:25 23/09/2015 22:21:11	Default	Error	Desk Type Artemis Artemis Artemis	Legacy Show	-
	Select Backup Location Client / User RTE Art RTE Art RTE Art RTE Art	ion C:\Calrec_Arc Series / Project Artemis STEVE G SAVE SHOW Artemis Artemis	chive\Show_Backups\v5 Show SPECIAL EVENTS AS MASTER Default MASTER	D shows Show Descr MASTER NEWS MASTER NEWS MASTER NEWS MASTER	BACKED UP SH	HOWS	Last Saved 29/02/2016 11.07:13 03/03/2016 15:56:25 23/09/2015 22:21:11 03/03/2016 13:56:03	Default	Error	Desk Type Artemis Artemis Artemis Artemis	Legacy Show	
	Select Backup Location Client / User RTE Art RTE Art RTE Art RTE Art	ion C:\Calrec_Arc Series / Project Artemis STEVE G SAVE SHOW Artemis Artemis Commissioning	chive\Show_Backups\v5 Show SPECIAL EVENTS /AS MASTER Default MASTER IO Testing	D shows MASTER NEWS MASTER NEWS MASTER NEWS MASTER In, out and DSP tests	Eestore	HOWS	Last Saved 29/02/2016 11.07:13 03/03/2016 15:56:25 23/09/2015 22:21:11 03/03/2016 13:56:03 07/10/2015 23:33:46	Default Default	Error	Desk Type Artemis Artemis Artemis Artemis Artemis	Legacy Show	~
	Selact Backup Location Client / User RTE Arr RTE Arr RTE Arr Calrec Co	ion C:\Calrec_Arc Series / Project Artemis STEVE G SAVE SHOW Artemis Commissioning Artemis	chive\Show_Backupf\v5 Show SPECIAL EVENTS AS MASTER Default MASTER IO Testing Factory Default	D shows NASTER NEWS MASTER NEWS MASTER NEWS MASTER NEWS MASTER In, out and DSP tests Blank Desk	Eestore BACKED UP SH	HOWS	Last Saved 29/02/2016 11.07.13 03/03/2016 15.56/25 23/09/2015 22.21.11 03/03/2016 13.56.03 07/10/2015 23.33.46 15/11/2015 19/11.00	Default	Error	Desk Type Artemis Artemis Artemis Artemis Artemis	Legacy Show	-
	Select Backup Location Client / User RTE And RTE And RTE And Calrec Co RTE 47376A And RTE And RTE And Calrec And Calrec Co	ion C:\Calrec_Arr Series / Project Artemis STEVE G SAVE SHOW Artemis Commissioning Artemis Artemis	chivel/Show, Backups/v5 Show SPECIAL EVENTS AS MASTER Default NASTER ID Testing Factory Default TRAINING	D shows Show Descr MASTER NEWS MASTER NEWS MASTER NEWS MASTER NEWS MASTER Blank Desk NEWS MASTER	iption	HOWS	Last Saved 29/02/2016 11:0713 03/03/2016 15:56:25 29/09/2015 22:111 03/03/2016 13:56:03 07/10/2015 23:33:46 15/11/2015 19:11:00 15/12/2012 01:107:25	Default	Error	Desk Type Artemis Artemis Artemis Artemis Artemis Artemis	Legacy Show	~

- 1. The top table displays all the shows currently saved on the console. The lower list displays any exported shows in the currently selected backup location.
- 2. Press select Backup Location to change the currently selected backup location.
- 3. To export a show to the Selected Backup Location, press the Backup button.

An exported show will use the file format: Client/User-Series/Project-Show.CalrecShow For example:

Calrec-Commissioning-IO Testing.CalrecShow

The file extension will always be .CalrecShow

N.B. Any default shows will be listed with blue text.

Exporting shows via Calrec Assist Online

If connected to Calrec Assist Online, in the top left-hand corner of the console Information page, click the Menu button, then select Shows List from the drop-down menu.

This page provides a list of all shows (shows include the memories contained within them, plus their relevant options files), including an indication of the currently loaded show.

🚺 Shows List	×					
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	Irec Assist Tes	st Show			System St	atus 🧭 🕰
Templates 🗎			Currently Loaded Sho Calrec Assist Test Show - C	ow: Capacity U alrec - v9_1 - 48k	lsed: 4%	
Sample Rate	User/Client	Project/Series	Show Label	 Show Description 	Date Created	Date Modified
48k	Calrec	Defaults	01-Jan-2002 02-49-46	Blank Desk	2019 Aug 30 16:09:34	Today 09:28:09
48k	Calrec	Defaults	02-Aug-2019 10-52-45	Blank Desk	2019 Aug 02 10:52:39	Today 09:30:11
48k	Calrec	Defaults	48kHz Test	Blank Desk	2017 Sep 28 11:43:19	2017 Sep 29 14:56:04
96k	Calrec	Defaults	96kHz Test	Blank Desk	2017 Sep 28 11:43:04	2017 Sep 29 15:02:10
48k	Calrec	Defaults	BIG	BIG	2019 Jul 26 14:05:04	2019 Jul 26 14:05:04
48k	Calrec	Defaults	Bus OP delay memories	Blank Desk	2019 Jul 17 15:19:46	2019 Jul 19 11:48:50
48k	Calrec	v9_1	Calrec Assist Test Show	Live show to export	Today 09:30:11	Today 09:30:27
48k	Calrec	Defaults	cb large desk show2	Blank Desk	2019 Jul 19 11:38:36	2019 Jul 19 12:07:09
48k	Calrec	Defaults	Tom MADI 48		2017 Sep 27 16:13:48	2017 Sep 27 17:04:22
48k	Calrec	Defaults	widths	Blank Desk	2019 Jul 17 18:47:09	2019 Jul 26 12:45:54
+						ъ Г
New						Import Export

- 1. Highlight a show in the list.
- 2. Press the Export button.

An exported show will use the file format: Client/User-Series/Project-Show.CalrecShow For example:

Calrec-v9_1-Calrec Assist Test Show.CalrecShow

The file extension will always be .CalrecShow

N.B. As of v5.0, Apollo and Artemis consoles use an updated data structure for show files, making it easier to export and manage show files offline. As such an exported show file will now always use the file extension. CalrecShow

Any old format (pre v5.0) shows imported into a console running software version 5.0 or later will be automatically converted to the latest format upon import.

Calrec Assist can only utilise shows in the new format. As such, any old format shows must first be imported into a console running software version 9.1 or later in order to carry out the data conversion before it can be re-exported for use with Calrec Assist.





Calrec Assist Offline

Accessing Calrec Assist Offline on a PC or laptop

- 1. Launch VirtualBox. A shortcut should be located on the desktop.
- 2. In the VirtualBox front page, double click on calrec Assist Offline in the left-hand column. The virtual machine will now begin to boot, and a new window will open. This is the VM and the window will be named Calrec Assist Offline [Running] - Oracle VM VirtualBox. Please wait approximately 45 seconds, until the VM displays:

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То	use	Calrec	Assist	browse	to	172.29.1.0	

Calrec Assist Offline [Running] - Oracle VM VirtualBox	_ 0	22
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Load Complete To use Calmer Assist browse to 172–29 1 0		
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3. Open an instance of the Google Chrome browser and enter the URL 172.29.1.0

A bookmark can be saved in Google Chrome, or alternatively a shortcut can be created on the desktop configured with the following settings:



Target: "C:\Program Files\Google\Chrome\Application\chrome.exe" --app=http://172.29.1.0 Start In: "C:\Program Files\Google\Chrome\Application"

N.B. The VirtualBox front page can be closed at any time, however it is important that the Calrec Virtual Machine (ie: the window named Calrec Assist Offline [Running] – Oracle VM VirtualBox) remains open, otherwise Google Chrome will be unable to connect to Calrec Assist Offline.

If the Calrec Virtual Machine is closed, the Close Virtual Machine window will be displayed:

Power off the machine will instantly close the VM. This is safe. No data will be lost as any changes made within Calrec Assist Offline are saved to the local PC or laptop in the location:

C:\Users\[name]\VirtualBox VMs\Calrec Assist Offline Save the machine state dumps the current VM session to disk, allowing the Calrec Virtual Machine to boot much quicker next time (<5s).



Importing a Desk Package

Once connected, Calrec Assist Offline will show the Desk Information page. This provides a breakdown of the current active desk, including:

System:	the type of console (Apollo, Artemis Shine / Ray / Beam / Light)
Software Version:	the current software version
Label:	the client name (ie: as set in H2O)
No Faders:	number of faders (ie: as set by the active surface layout file)
Package Created:	the date that the current active desk package was originally exported from the live system

On the first running of Calrec Assist Offline, the active desk will default to an 80 fader Apollo console. This should not be used for creating a setup as it will not relate to your console. Instead you should first import a desk package exported from a live desk (via Calrec Assist Online).

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complete description	of the desk's configuration and feature set, and will include	of the desk from which the package was created. This will overwrite the cu	epiica irrent
all of its shows. It is r	not necessary to separately export shows when exporting a	desk package and all of its shows. Ensure you have a backup of the curren	it desk
Dackup from Callec A	issist offine.	data by exporting a desk package before importing a new one.	
Export active des	к []	Import Desk Package	

- 1. Click Import Desk Package (above right).
- 2. Select a desk package via the open window (below), then click open.

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File	name: art lite-Artemis Light-v5.0.CalrecDeskPackage		 ▼ (*.calrecdeskpackage Open ▼ 	e 🔹



3. Depending on the size of the desk package, the import can take up to 3 minutes. During this time, the loading widget will be displayed (below).



4. Please note that during this import, the Calrec Virtual Machine will restart (by design), causing the Calrec Assist Offline UI screen (ie: Google Chrome browser) to temporarily lose connection.

This commonly manifests itself as the Calrec Assist Offline UI screen changing to the Track buss setup page (below), appearing that the package import process has completed. Please ignore this and wait until the Calrec Virtual Machine has restarted and the Calrec Assist Offline reconnects automatically.

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Track 3	0/P Level								
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Track 4	0/P Level								
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Track 7	0.01 (0.01								

5. You will then be returned to the **Desk Information** page which will now display the correct information for the imported desk package.

Import Shows into Calrec Assist Offline

- 1. On the top left corner of the page, click on the Menu button, then select **Shows List** from the drop- down menu.
- 2. To create a new show from the Calrec Default Show, click **New** on the footer bar.
- 3. To edit an existing show, highlight the show in the list and click **Load** on the footer bar.
- 4. To import a show that has been exported from a live desk, click Import on the footer bar (below)

MENU
 Console Information
 Fader Surface
• Shows List
Accessed Path Processing

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New			Import Export

- 5. Locate the show you would like to import and click Open.
- 6. The show will now be imported. This may take up to a minute depending on the size of the show (ie: the number of memories contained within the show).
- 7. The imported show can now be edited by highlighting the show in the shows list, then clicking Load on the footer bar.
- 8. Upon loading a show (or creating a new show), you will now be taken to the Memories page. The Last Loaded memory is indicated above the table of memories.

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To load a different memory, simply highlight the memory in the lost and click Load.
 Otherwise, in the top left-hand corner, click the Menu button in order to navigate elsewhere and begin configuring / modifying this memory.

Exporting a Show from Calrec Assist Offline

1. Once you are happy with your edited show; in the top left-hand corner, click the Menu button, then select shows List from the drop-down menu.

Shows List	× +						– ø ×
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Sample Rate	User/Client	Project/Series	Show Label		Show Description	Date Created	Date Modified
48k	Calrec	Defaults	12-Sep-2019 16-58-38		Blank Desk	2019 Sep 12 16:58:40	Today 14:20:09
48k	Calrec Offline	Sports OB	All Sports		5_1 Show Defaults	Today 14:19:34	Today 14:23:45
48k	Calree Offline	Sports	Live Sport		5_1 show defaults 2019	Today 14:20:40	Today 14:20:52
+ New	Fdit Label Load	Dundicate Delete					mport Export

2. Highlight the show you wish to export, then in the bottom right corner of the screen, click the Export button.

An exported show will use the file format: Client/User-Series/Project-Show.CalrecShow For example:

```
Calrec-Commissioning-IO Testing.CalrecShow
```

The file extension will always be .CalrecShow

Exporting a Package from Calrec Assist Offline

A desk package **cannot** be re-imported back onto a real console. The desk package is used only for the offline simulation of the console.

The Calrec Virtual Machine can only contain information from a single console / package at one time. If you wish use Calrec Assist Offline with a desk package from a different console, you should first export the current desk package before importing the new package. This is effectively saving your work.

N.B. A desk package exported from Calrec Assist Offline will contain **all** shows.

- 1. In the top left-hand corner, click the Menu button, then select Console Information
- 2. Click Export Active Desk.

The default file name uses the format Label-System-Software Version.CalrecDeskPackage For example:

```
Studio 1-Artemis Light-v9.1.CalrecDeskPackage
```

The file extension will always be .CalrecDeskPackage

Importing Shows to a Live Desk

Importing shows into the Calrec Console PC Application

Shows that have been edited offline can be restored (imported) to the console's control processors.

- 1. Connect the USB drive containing the shows to the console's upstand USB port.
- 2. In the Calrec Console PC Application Navigate to the Mem -> Backup -> Show List page:

Aliases	Rename	Client / User	Series / Project	Show	Show Descriptio	n Sample Rate		Last S	iaved	Defa	sult
	Snow	RTF	Artemis	6-1	6 - 1 MASTER	48 kHz	28/02/	2016 19:0	05:05	-	-
Aliases	Delete	RTE 47376A	litemis	Factory Default	Blank Desk	48 kHz	16/11/	2015 19:1	11:00		
	Shows	Calrec	Commissioning	10 Testing	In, out and DSP tests	48 kHz	07/10/	2015 23:3	33:46		
Presets	F	RTE 4	Artemis	MASTER	NEWS MASTER	48 kHz	03/03/	2016 13:5	56:03		
Tresets	F	RTE	TEVE G SAVE SHOW AS	MASTER	NEWS MASTER	48 kHz	04/03/	2016 09:4	48:54		
	F	RTE A	Artemis	SPECIAL EVENTS	MASTER	48 kHz	29/02/	2016 11:0	07:13		
	F	RTE A	Artemis	TRAINING	NEWS MASTER	48 kHz	25/02/	2016 11:0	07:25		
	F	RTE 4	Artemis	Default	NEWS MASTER	48 kHz	23/09/	2015 22:2	21:11	Defaul	t.
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- 3. The upper table displays all the shows currently saved on the console. The lower list displays any exported shows in the currently selected backup location.
- 4. Press select Backup Location to change the currently selected backup location.
- 5. To import a show from the Selected Backup Location, press the Restore button.
- 6. Once imported, the show can now be loaded from the Mem -> shows & Mems page.