

Engineering Note: EN0093 - Upgrading Hydro-Control VI Software

Summary:This note describes a faster method for upgrading systems running Hydro-Control VI
Software.Products affected:Hydro-Control VI (HC06)Revision Date:01/08/2018Author:G Perry

Summary

Some systems that have previously exhibited slow boot times running Hydro-Control VI software and have long mix times, may take several hours to upgrade the software. This may also happen if the maximum mix log records parameter has been set very high.

In order to avoid a lengthy upgrade process the mix log should be backed up and cleaned using a Windows PC running the HC06 Database editor. This clean database can be restored to the Hydro-Control VI prior to upgrading. This will reduce the upgrade process to around 7 minutes. This note describes how to do this.

Procedure

1 Creating a back-up database

To use the Database Editor a back-up of the Hydro-Control VI database has to be completed first.

1.1 Backing up the database

To back up the Hydro-Control database install a USB memory stick into the side of the Hydro-Control VI.

Select Menu from the Hydro-Control VI overview screen (Figure 1).

Fine	Coarse			2	Mode: Calculation
Recipe Mix Ph	Name: Unname ase: Standby	ed	15	1014 11:12:02 Target: 10%	Recipe / Mode
			Moisture %	Moisturo	Auto Loop Tune Display Unscaled
-100	Time		0	8.7%	Cohenereite
6	Dry Weight	4409kg	Trim:	0.0L	Mix Time:
J	0 of 0s Initial Mix	0.0 of 0.0 Prewet Wate	r Prewe	0 of 0s atMix	0s
				Accen	

Figure 1: Hydro-Control VI Overview Screen



Select System Parameters (Figure 2).



Figure 2: Hydro-Control VI Main Menu

On page one of the system parameters (Figure 3), select Backup/Restore. A message box will be displayed, select Backup. The unit will now create an SDF file saved to the root of the memory stick.

SAVE A COPY OF THIS DATABASE IF MIX LOG DATA MUST BE RETAINED.

Water Setup			System Auto Control Setu	p	
Water Mode:	Metered		Proportional Gain:	3	
Pulses Per Litre:	2		Integral Gain:	0	
Water Meter Timeout	5	5	Derivative Gain:	0	
Fine Delivery:	6	L	System Auto-track Setting:		
Fine Valve Inflight	0	L	Initial Mix Deviation:	0.1	
Coarse Valve Infight	0	-	Initial Mix Time:	10	
Fine Valve On Time:	0.5	5	Pre-wet Mix Deviation: Pre-wet Mix Time:	0.1	- ;
Fine Valve Off Time:	0.5	8	Dry Mix Deviation:	0.1	
Use Fine Valve Only:			Dry Mix Time:	10	
Averaging Time:	10	5	Wet Mix Deviation:	0.1	-
Cycle Loops:	1		Wet Mix Time:	10	
Save	Backup	1	Next	Me	mu

Figure 3: Hydro-Control VI System Parameters Screen

For details about the back-up process see the Hydro-Control VI installation guide HD0455 and the Hydro-Control VI user guide HD0456.

2 Delete MixLog Data

Start the database editor software and the Open Database screen will be displayed (Figure 4).







There are two options available to clean the Database (Delete Mixlogs).

2.1 Option 1: Delete all Mixlog Data from the Open Database Screen.

Click 'Delete All Mix Log Data' on the Open Database Screen (Figure 5). Select the database and confirm the deletion of the data.

Once the data has been deleted copy the file back to a USB stick and insert in the Hydro-Control VI.

Using this option will remove all data from the Mixlog, this includes any Mixlogs used to calibrate the Hydro-Control VI recipes. The calibration data for the recipe will be retained and the Hydro-Control VI will operate normally, however, if the Mixlog data used to generate the calibration is required this option should not be used.



Figure 5: Delete all Mixlog Data Option 1

2.2 Option 2: Delete all MixLog Data Retaining the Calibration MixLogs

If the calibration Mixlog data needs to be retained the database can be cleaned using the 'Delete all Mix Logs and Traces' facility.

Click 'Open Database' from the Open Database screen and select the required database (Figure 6).







Select 'Log in' from the main tab. Enter password 0336 and click 'Enter' (Figure 7).

iyatem	Ma	Log	Users	Recipes	Log in	
			Logged Or			
1	2	3				
4	5	6				
7	8	9				
	0					
	Enter					
	Clear		1			

Figure 7: Log in

Select 'Mixlog' from the main tab (Figure 8).

Traces 7257	Display Recipe Display Group	 Al Pecan Al 	- :				0	eplay Moisture	Determine	I Mix Lege and Traces	Seve To Fil	4
Draty Term	Fector Number	Bech Norther	Presset Candrol Matheat	Caretal	Aro-Teck	Ado-Task Partitet	Alto-TextA	Am-Task Wet	Proved Nat Value	Perspect Ma Deventor	And Ma	Т
	3	42	Fresel	Calculation	0	-		0	0.00	0.00	0.09	Т
29 March 2017 17 25:17	3	41	Preset	Calculation					0.00	0.00	0.00	
29 March 2017 17:24:20	3	42	Preset	Calculation					0.00	0.00	0.00	
29 March 2017 17:22-25	3	39	Preset	Calculation					0.00	0.00	0.00	
29 March 2017 17:20:30	3	38	Prest	Calculation					0.00	0.00	0.00	
20 March 2017 17 18:05	3	37	Preset	Celosistion					0.00	0.00	0.00	
29 March 2017 17:10:40	3	35	Fread	Calculation					0.00	0.00	0.00	
29 March 2017 17:14:40	3	35	Frank	Calculation					0.00	0.00	0.00	
29 March 2017 17:12:47	3	34	Preset.	Calculation					0.00	0.00	6.00	
29 March 2017 12:10:51	3	33	Frend	Calculation					6.00	0.00	0.00	
29 Merch 2017 17:00:57	3	32	Frank	Celouistion					6.00	0.00	6.00	
29 March 2017 17:07:01	3	31	Frend	Celculation					0.00	0.00	0.00	
29 March 2017 17:05:04	3	30	Freed	Celculation					0.00	0.00	0.00	
29 March 2017 17:03:07	3	29	Fread	Calculator					0.00	0.00	0.00	
29 Math 2017 1201:14	3	28	Freset	Calculation					6.00	0.00	0.00	
29 March 2017 16:59 III	3	21	Preset	Calculation					0.00	0.00	0.00	
29 March 2017 16:57:22	3	28	Prevet	Calculation					0.00	0.00	0.00	
29 March 2017 16:55:25	3	25	Preset	Calculation					0.00	0.00	0.00	
29 March 2017 16:50.28	3	24	Preset	Calculation					00.0	0.00	0.00	
23 March 2017 16:51 33	3	23	Frend	Celulation					0.00	0.00	0.00	
			Dear	Calerbaras	1 00			191	0.00	1.04	0.00	

Figure 8: Mixlog Tab

Click 'Delete all Mix Logs and Traces'.

The following dialog option box will appear (Figure 9). If the Calibration Mixlog data needs to be retained select 'Retain Calibration Mix Logs' and click OK.

40	Preset	Calculation				0.00
39	Preset	Preset Calculation				0.00
38	Ponnet	Chiculation		191		0.00
37	Dele	ete all Mix Logs			23	0.00
36	1 0	alard Barris and Incode	ain the Calibratic	n Melon		0.00
35	-	piect a you mark to re-	arrene calorado	an max boga		0.00
34	F 0	Delete all Mix Logs				0.00
33						0.00
32	1) Retain Calibration N	for Logs			0.00
31	-			-	_	0.00
30	F	OK		Cano	el	0.00
29						0.00
28	Preset	Calculation	-			0.00
27	Present	Celosiation				0.00

Figure 9: Delete all Mixlog Options

If the amount of data in the mix log is large it can take several minutes to complete the clean-up.

Once the deletion has been finished copy this file back to a USB stick and insert in the Hydro-Control VI.

If all Mixlog data is to be deleted, including Calibration Mixlogs, it is recommended to use the delete all mix log facility on the Open Database screen (Option 1).



3 Restore Database to the Hydro-Control VI

To restore the Hydro-Control VI with the edited database switch on the Hydro-Control VI and insert the USB memory stick into the side of the unit.



From main menu select System Parameters.

On page one of the system parameters, select Backup/Restore. The Hydro-Control VI will ask if you want to backup or restore (Figure 10). Select restore and the unit will re-boot.

Water Setup		Sy	stem Auto Control S	etup	
Nater Mode:	Metered	- Pro	oponional Gain:	3	-
Pulses Per Litre	12			0	
Nater Meter Tir	ackup/Restore			0	
Fine Delivery:	o you wish to backup	or restore?			
Eng Value Infer				0.1	
Coarse Value in				10	
Juaise varre in				0.1	
-ine Valve On				10	1
Fine Valve Off	Backup	Restore	Cance	0.1	
Jse Fine Valve				10	
Averaging Time:	In	- W	er mix Deviation:	0.1	
	1	101	at Mry Timer	10	

Figure 10: Backup/Restore Selector

The Hydro-Control VI can now be upgraded in the normal way