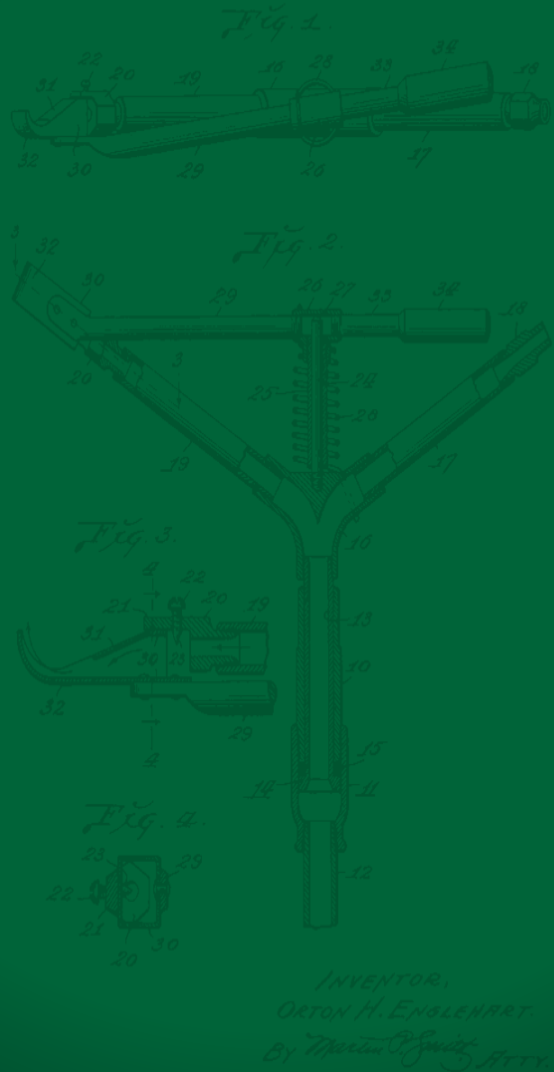


April 16, 1935

G. H. ENLEHART
WATER SPRINKLER
FILM No. 19, 190

1,997,901



IQ4 New Features-2021

New features added on March 23, 2021

The Intelligent Use of Water™

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Products

New Features Overview

- **NEW!** A new feature called table edit is available under the stations tab of controllers. This allows for faster entry of data like station addresses and flow rates
- **NEW!** In the controller tab, a red ! icon will be displayed if the controller had a flow alarm present in the last log retrieval
- **NEW!** You can now schedule synchronization and log retrieval times in addition to the previously available auto or manual options
- **NEW!** Weather forecasts are visible for each controller with a weather source assigned.
- **NEW!** LX-IVM Controllers can resume previously started firmware updates
- Ability to see acknowledged alarms and filter by alarm type on activity screen
- Improved filters for selected reports to set hour and minute for start/end of report
- The water management report now has a total field for manual and scheduled irrigation
- Cellular Troubleshooting link in the About page
- Numerous fixes improving speed, reliability and navigation

Table Edit

- A new feature called table edit is available under the stations tab of controllers. This allows for faster entry of data like station addresses and flow rates
- Table edit is available on the Stations page
- A Save button is located on the bottom right corner of the table page

Table Edit

Activity CONTROLLERS PROGRAMS REPORTS SYSTEM SETUP

ESP LXIVM PRO SERVER (IQ4-4G TEST S... Programs Dryrun™ Stations Master Valves Sensors Clients

Table Edit Start Stop All Advance

Controller Settings

Name
ESP LXIVM Pro Server (IQ4-4G Test Stand)

Controller Type
LX-IVM Pro

IQNet Type
IQNet™ Server

Tucson, Arizona USA
Mon 04/05/2021 - 2:48 PM

90°F
Partly Cloudy High 88° - Low 67°

	Station Name	Address	Status	Landscape	Sprinkler	Notes
<input type="checkbox"/>	1 Soccer Fields	12657	-	Hybrid Bermuda Turfgrass	8005 Rotors	-
<input type="checkbox"/>	2 Baseball Fields	14191	-	Hybrid Bermuda Turfgrass	Rotors/Impacts	-
<input type="checkbox"/>	3 Softball Fields	15213	-	Hybrid Bermuda Turfgrass	Rotors/Impacts	-
<input type="checkbox"/>	4 Lacrosse Fields	6080	-	Hybrid Bermuda Turfgrass	Rotors/Impacts	-
<input type="checkbox"/>	5 Football Field	14380	-	Hybrid Bermuda Turfgrass	Rotors/Impacts	-
<input type="checkbox"/>	6 Common Areas	13043	-	Hybrid Bermuda Turfgrass	Rotors/Impacts	-
<input type="checkbox"/>	7 Concession Stand Area	15216	-	Hybrid Bermuda Turfgrass	Rotors/Impacts	-
<input type="checkbox"/>	8 Station 008	1853	-	Shrubs	Spray Heads	-
<input type="checkbox"/>	9 Station 009	-	-	Shrubs	Spray Heads	-
<input type="checkbox"/>	10 Station 010	-	-	Shrubs	Spray Heads	-
<input type="checkbox"/>	11 Station 011	-	-	Shrubs	Spray Heads	-
<input type="checkbox"/>	12 Station 012	-	-	Shrubs	Spray Heads	-
<input type="checkbox"/>	13 Station 013	-	-	Shrubs	Spray Heads	-
<input type="checkbox"/>	14 Station 014	-	-	Shrubs	Spray Heads	-
<input type="checkbox"/>	15 Station 015	-	-	Shrubs	Spray Heads	-
<input type="checkbox"/>	16 Station 016	-	-	Shrubs	Spray Heads	-

Rain Bird Dashboard > Controllers > ESP LXIVM Pro Server (IQ4-4G Test Stand)

0 / 240 Selected

Table Edit

The screenshot displays the 'Station Editor' interface for an ESP LXIVM Pro Server. The interface includes a top navigation bar, a left sidebar with controller settings and weather information, a central table of stations, and a right sidebar for notes. A yellow arrow points from the bottom of the table to a 'SAVE' button in the bottom right corner.

#	Station Name	Address	Priority	Flow Rate	Default Runtime	Cycle
1	Soccer Fields	12657	High	78.00 gpm	0:00:00	0:29:00
2	Baseball Fields	14191	High	25.00 gpm	0:00:00	0:29:00
3	Softball Fields	15213	High	25.00 gpm	0:00:00	0:29:00
4	Lacrosse Fields	6080	High	25.00 gpm	0:00:00	0:29:00
5	Football Field	14380	High	25.00 gpm	0:00:00	0:29:00
6	Common Areas	13043	High	25.00 gpm	0:00:00	0:29:00
7	Concession Stand Area	15216	High	25.00 gpm	0:00:00	0:29:00
8	Station 008	1853	Low	25.00 gpm	0:00:00	0:00:00
9	Station 009	0	Low	25.00 gpm	0:00:00	0:10:00
10	Station 010	0	Low	25.00 gpm	0:00:00	0:10:00
11	Station 011	0	Low	25.00 gpm	0:00:00	0:10:00
12	Station 012	0	Low	25.00 gpm	0:00:00	0:10:00
13	Station 013	0	Low	25.00 gpm	0:00:00	0:10:00
14	Station 014	0	Low	25.00 gpm	0:00:00	0:10:00
15	Station 015	0	Low	25.00 gpm	0:00:00	0:10:00
16	Station 016	0	Low	25.00 gpm	0:00:00	0:10:00

Controller Settings:
 Name: ESP LXIVM Pro Server (IQ4-4G Test Stand)
 Controller Type: LX-IVM Pro | IQNet Type: IQNet™ Server
 Location: Tucson, Arizona USA
 Date/Time: Mon 04/05/2021 - 2:53 PM
 Weather: Partly Cloudy, 90°F, High 88° - Low 67°
 Forecast: Tue 84°F, Wed 84°F, Thu 87°F, Fri 87°F, Sat 85°F, Sun 86°F

SAVE

Flow Alarm Icon

- In the controller tab, a red ! icon will be displayed if the controller had a flow alarm present in the last log retrieval
- The Flow Alarm(s) can be dismissed in the Control page when connected to a controller

Flow Alarm Icon

iq4 ACTIVITY CONTROLLERS PROGRAMS REPORTS SYSTEM SETUP

41 15 0 11 1 99+

CONTROLLERS Select Site IQ4-4G Test Stand Test

Edit Logs Sync Reverse Stop More

Status	Name	Site	Last Log Retrieve	Type	Stations Programmed	Programs Used
<input type="checkbox"/>	ESP LXI Client (IQ4-4G Test Stand)	IQ4-4G Test Stand Test Controllers	9 hours ago	LXI	1	1
<input type="checkbox"/>	ESP LXIVM Pro Server (IQ4-4G Test Stand)	IQ4-4G Test Stand Test Controllers	27 days ago	LX-IVM Pro	7	4
<input type="checkbox"/>	ESP LXME Client (IQ4-4G Test Stand)	IQ4-4G Test Stand Test Controllers	56 days ago	LXME	28	3
<input type="checkbox"/>	Kino Sports Park - East Soccer Fields	IQ4-4G Test Stand Test Controllers	4 hours ago	LXI	113	2
<input type="checkbox"/>	Kino Sports Park - West Soccer Fields	IQ4-4G Test Stand Test Controllers	7 hours ago	LXI	108	3
<input type="checkbox"/>	NCC 4G International Test Controller	IQ4-4G Test Stand Test Controllers	42 days ago	LXME	10	0
<input type="checkbox"/>	Malkin Residence - Test Controller	Malkin Residence - Test Controller	5 hours ago	LXME	10	4



Schedule Synchs and Log Retrievals

- You can now schedule synchronization and log retrieval times in addition to the previously available auto or manual options
- The Controller Settings edit page now has four sub-menus:
 - Connection
 - Synchronization
 - Log Retrieval
 - Advanced Settings
- For Synchronization and Log Retrieval, there are now three settings in the sub-menu:
 - Manual
 - Automatic
 - Scheduled

Schedule Synchronizations

- Synchronization functionality:
 - Manual: A synchronization will only take place when the user clicks on the Sync icon and initiates the synchronization
 - Automatic: IQ4 will determine when to synchronize with the controller. This normally takes place one hour after a change to a controller has been made in IQ4
 - Scheduled: The user sets a particular time for IQ4 to synchronize with the controller each day. There is a checkbox that will allow IQ4 to ignore a synchronization if there are no changes to the controller
- Best Practices:
 - Scheduled Synchronizations need to be set BEFORE the first irrigation event each day (use Dryrun™ to determine first irrigation times)
 - CAUTION: Scheduled synchronizations that interrupt irrigation will cancel all further irrigation until the next scheduled start that takes place after the sync

Scheduled Synchronizations

The screenshot displays the Rain Bird iQ4 interface. On the left, the 'Controller Settings' panel is open for the 'Malkin Residence - Test Controller'. A yellow circle highlights the 'Synchronization' setting, which is currently set to 'Manual'. A yellow arrow points from this setting to the 'Scheduled Synchronizations' table on the right.

Controller Settings

- Connection: 10.70.191.4
- Synchronization: Manual
- Log Retrieval: Scheduled
- Advanced Settings

Scheduled Synchronizations Table

#	Name	Stations	Status	Start	Water Days	Adjust
A	Shrubs - Point Source Drip	2	-	7:00 AM	Su M T W Th F S	100
B	Trees - Point Source Drip	2	-	7:00 AM	Su M T W Th F S	100
C	Planters - Pots	3	-	5:00 AM	Su M T W Th F	100
D	Turfgrass	3	-	4:00 AM	Su M W F	100

Scheduled Synchronizations

The screenshot displays the Rain Bird dashboard interface. At the top, a green navigation bar contains the Rain Bird logo and menu items: ACTIVITY, CONTROLLERS, PROGRAMS, REPORTS, and SYSTEM SETUP. On the right side of this bar are several status icons: a refresh icon with '41', a triangle icon with '15', a clock icon with '0', a gear icon with '11', a circle icon with '1', and a notification bell icon with '99+'. Below the navigation bar, the main content area is titled 'MALKIN RESIDENCE - TEST CONTROLL...'. A secondary navigation bar includes 'Programs', 'Dryrun™', 'Stations', 'Master Valves', and 'Sensors'. The 'Programs' tab is active, showing a table of scheduled synchronizations. To the left, a 'Controller Settings' sidebar is open, showing options for 'Manual', 'Automatic', and 'Scheduled'. A yellow circle highlights the 'Manual' option, and a yellow arrow points from it towards the synchronization table.

Controller Settings
LXME Direct

Synchronization

- Manual
- Automatic
- Scheduled

Scheduled Synchronizations Table:

#	Name	Stations	Status	Start	Water Days	Adjust
A	Shrubs - Point Source Drip	2	-	7:00 AM	Su M T W Th F S	100
B	Trees - Point Source Drip	2	-	7:00 AM	Su M T W Th F S	100
C	Planters - Pots	3	-	5:00 AM	Su M T W Th F	100
D	Turfgrass	3	-	4:00 AM	Su M W F	100

Scheduled Synchronizations

The screenshot displays the Rain Bird dashboard interface. At the top, a green navigation bar contains the logo and menu items: ACTIVITY, CONTROLLERS, PROGRAMS, REPORTS, and SYSTEM SETUP. On the right side of this bar are several status icons: a refresh icon with '41', a triangle icon with '15', a circle with slash icon with '0', a circle with X icon with '11', a circle with dot icon with '1', and a notification bell icon with '99+'. Below the navigation bar, the breadcrumb path reads: MALKIN RESIDENCE - TEST CONTROLL... > Programs > Dryrun™ > Stations > Master Valves > Sensors. The main content area is split into two panels. The left panel, titled 'Controller Settings' for 'LXME Direct', shows 'Synchronization' options: Manual, Automatic, and Scheduled (selected). Under 'Scheduled', the time is set to '8:15 PM' and the checkbox 'Only synchronize if there are changes.' is checked. A yellow circle highlights this section, with an arrow pointing to the table on the right. The right panel shows a table of scheduled synchronizations with columns: #, Name, Stations, Status, Start, Water Days, and Adjust.

#	Name	Stations	Status	Start	Water Days	Adjust
A	Shrubs - Point Source Drip	2	-	7:00 AM	Su M T W Th F S	100
B	Trees - Point Source Drip	2	-	7:00 AM	Su M T W Th F S	100
C	Planters - Pots	3	-	5:00 AM	Su M T W Th F	100
D	Turfgrass	3	-	4:00 AM	Su M W F	100

Schedule Log Retrievals

- Log Retrieval functionality:
 - Manual: A log retrieval will only take place when the user clicks on the Logs icon and initiates the log retrieval
 - Automatic: IQ4 will determine when to retrieve logs from the controller. This normally takes place six hours after the first start time for the controller. If irrigation is still occurring, IQ4 will wait one hour and retry the log retrieval. It will continue this pattern until the logs are fully retrieved
 - Scheduled: The user sets a particular time for IQ4 to retrieve logs from the controller each day. The user can set up to 24 log retrieval times each day

Schedule Log Retrievals

The screenshot displays the Rain Bird dashboard interface. On the left, the 'Controller Settings' panel is open for the 'Malkin Residence - Test Controller'. A yellow circle highlights the 'Log Retrieval' setting, which is currently set to 'Scheduled'. A yellow arrow points from this setting to the 'Log Retrieval' column in the table on the right.

The main table lists irrigation programs with the following data:

#	Name	Stations	Status	Start	Water Days	Adjust
A	Shrubs - Point Source Drip	2	-	7:00 AM	Su M T W Th F S	100
B	Trees - Point Source Drip	2	-	7:00 AM	Su M T W Th F S	100
C	Planters - Pots	3	-	5:00 AM	Su M T W Th F	100
D	Turfgrass	3	-	4:00 AM	Su M W F	100

Schedule Log Retrievals

The screenshot shows the Rain Bird controller interface. On the left, a 'Controller Settings' panel is open for 'LXME Direct'. The 'Log Retrieval' section is highlighted with a yellow circle, and a yellow arrow points to the 'Manual' radio button, which is selected. Below it are 'Automatic' and 'Scheduled' options. A 'Back' button is at the bottom of the panel.

The main area displays a table of programs under the 'Programs' tab. The table has columns for #, Name, Stations, Status, Start, Water Days, and Adjust.

#	Name	Stations	Status	Start	Water Days	Adjust	
<input type="checkbox"/>	A	Shrubs - Point Source Drip	2	-	7:00 AM	Su M T W Th F S	100
<input type="checkbox"/>	B	Trees - Point Source Drip	2	-	7:00 AM	Su M T W Th F S	100
<input type="checkbox"/>	C	Planters - Pots	3	-	5:00 AM	Su M T W Th F	100
<input type="checkbox"/>	D	Turfgrass	3	-	4:00 AM	Su M W F	100

Schedule Log Retrievals

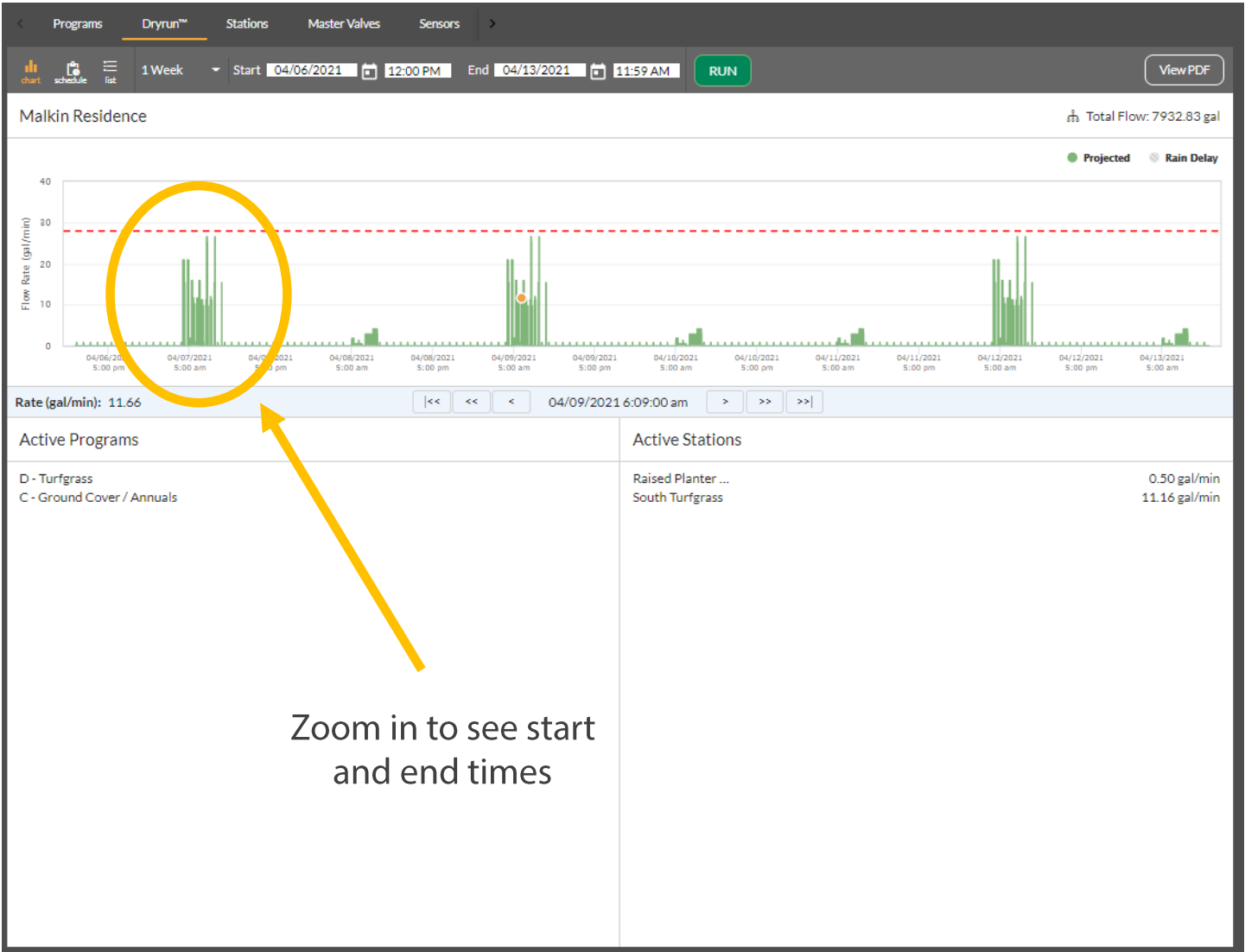
The screenshot displays the Rain Bird controller interface. On the left, the 'Controller Settings' panel is open to 'Log Retrieval'. The 'Scheduled' option is selected, and a list of times is shown: 10:00 AM, 3:00 AM, 9:00 AM, 4:00 PM, and 8:00 PM. A yellow circle highlights this list, and a yellow arrow points from it towards the main table. The main table lists four irrigation programs (A, B, C, D) with their respective stations, status, start times, water days, and adjustment values.

#	Name	Stations	Status	Start	Water Days	Adjust
A	Shrubs - Point Source Drip	2	-	7:00 AM	SuMTWThFS	100
B	Trees - Point Source Drip	2	-	7:00 AM	SuMTWThFS	100
C	Planters - Pots	3	-	5:00 AM	SuMTWThF	100
D	Turfgrass	3	-	4:00 AM	SuMWF	100

Schedule Log Retrievals

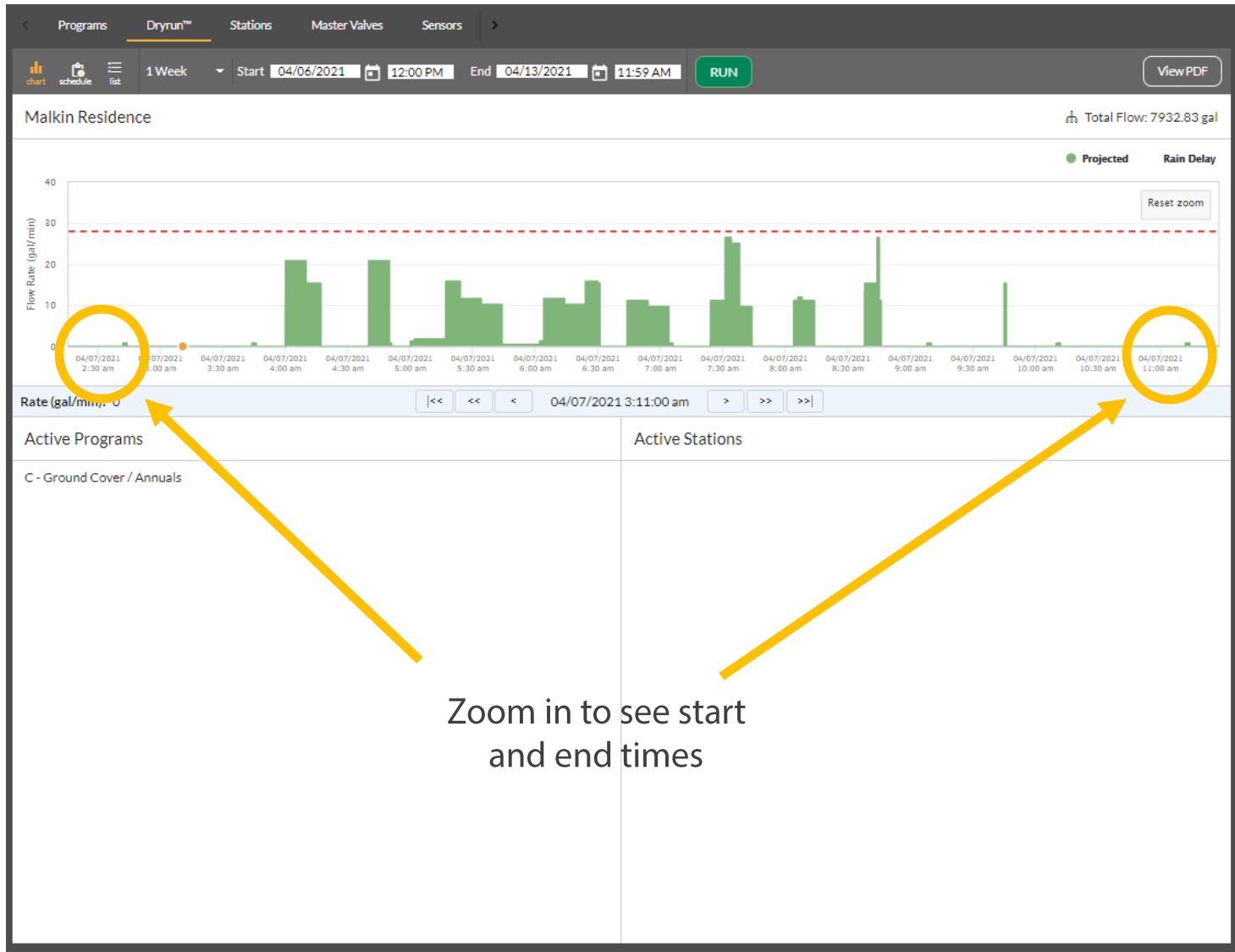
- Best Practices
 - Log retrieval times need to be set AFTER all irrigation has completed. Reports may be incomplete if irrigation is still running when log retrievals are done
 - To assist with selecting good log retrieval times, the new Dryrun™ feature (coming soon) can show you when irrigation will end so you can properly schedule log retrieval times
 - Chart view
 - List view
 - Schedule view
 - Example: In the following slides, you can see both the start and end times with a Dryrun™ to allow for correct scheduling of the synchronization and log retrieval times

Schedule Log Retrievals



Zoom in to see start and end times

Schedule Log Retrievals



Schedule Log Retrievals

Programs Dryrun™ Stations Master Valves Sensors

schedule 1 Week Start 04/06/2021 12:00 PM End 04/13/2021 11:59 AM RUN View PDF

Main Residence Total Flow: 7932.83 gal

Type	Scheduled Start	Projected Start	Projected End		
Ground Cover / Annuals	5:00 am	04/06/2021 5:00 am	04/07/2021 4:51 am		
		04/07/2021 5:00 am	04/08/2021 3:45 am		
		04/08/2021 5:00 am	04/09/2021 4:51 am		
		04/09/2021 5:00 am	04/10/2021 3:45 am		
		04/10/2021 5:00 am	04/11/2021 4:47 am		
		04/11/2021 5:00 am	04/12/2021 4:51 am		
		04/12/2021 5:00 am	04/13/2021 3:45 am		
Shrubs	7:00 am	04/06/2021 8:06 am	04/06/2021 8:47 am		
		04/08/2021 8:06 am	04/08/2021 8:47 am		
		04/10/2021 8:06 am	04/10/2021 8:47 am		
		04/11/2021 8:06 am	04/11/2021 8:47 am		
		04/13/2021 8:06 am	04/13/2021 8:47 am		
		Trees	7:00 am	04/06/2021 7:00 am	04/06/2021 8:06 am
				04/08/2021 7:00 am	04/08/2021 8:06 am
04/10/2021 7:00 am	04/10/2021 8:06 am				
04/11/2021 7:00 am	04/11/2021 8:06 am				
04/13/2021 7:00 am	04/13/2021 8:06 am				
Turfgrass	4:00 am	04/07/2021 4:00 am	04/07/2021 9:45 am		

Select Schedule button

Easily see start and end times

Schedule Log Retrievals

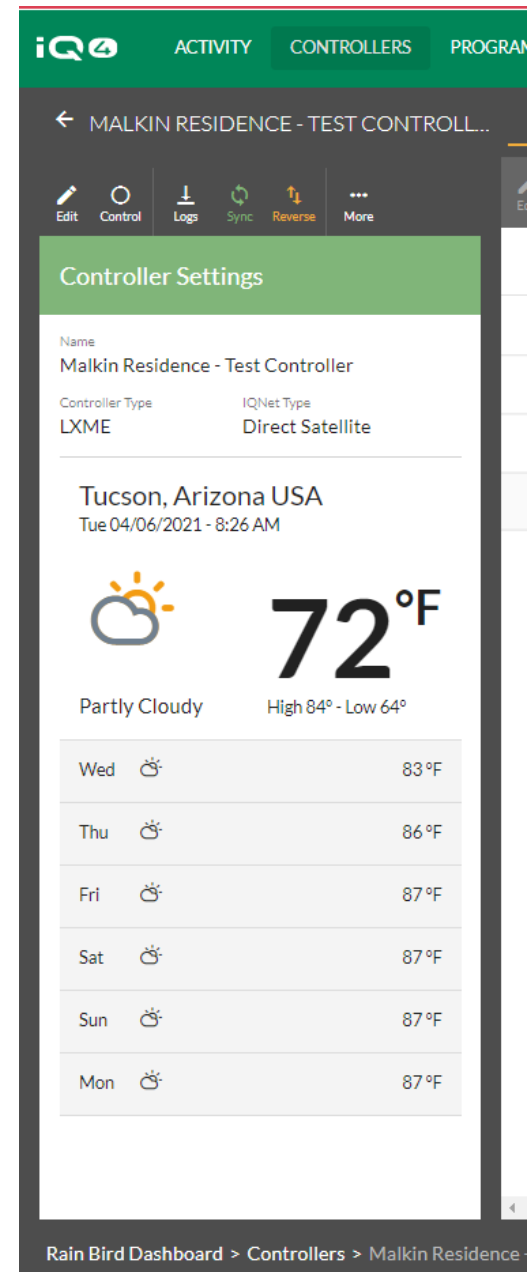
Select List button

Filter the Time column then find the start and end times

Type	Name	Event	Date	Time
Program	Ground Cover / Annuals	Completed	04/08/2021	3:45 am
Program	Ground Cover / Annuals	Completed	04/10/2021	3:45 am
Program	Ground Cover / Annuals	Completed	04/13/2021	3:45 am
Program	Turfgrass	Started	04/07/2021	4:00 am
Program	Turfgrass	Started	04/09/2021	4:00 am
Program	Turfgrass	Started	04/12/2021	4:00 am
Program	Ground Cover / Annuals	Completed	04/11/2021	4:47 am
Program	Ground Cover / Annuals		10/21	4:51 am
Program	Ground Cover / Annuals		10/21	4:51 am
Program	Ground Cover / Annuals		10/21	4:51 am
Program	Ground Cover / Annuals		10/21	5:00 am
Program	Ground Cover / Annuals		10/21	5:00 am
Program	Ground Cover / Annuals	Started	04/08/2021	5:00 am
Program	Ground Cover / Annuals	Started	04/09/2021	5:00 am
Program	Ground Cover / Annuals	Started	04/10/2021	5:00 am
Program	Ground Cover / Annuals	Started	04/11/2021	5:00 am
Program	Ground Cover / Annuals	Started	04/12/2021	5:00 am
Program	Ground Cover / Annuals	Started	04/13/2021	5:00 am
Program	Trees	Started	04/06/2021	7:00 am

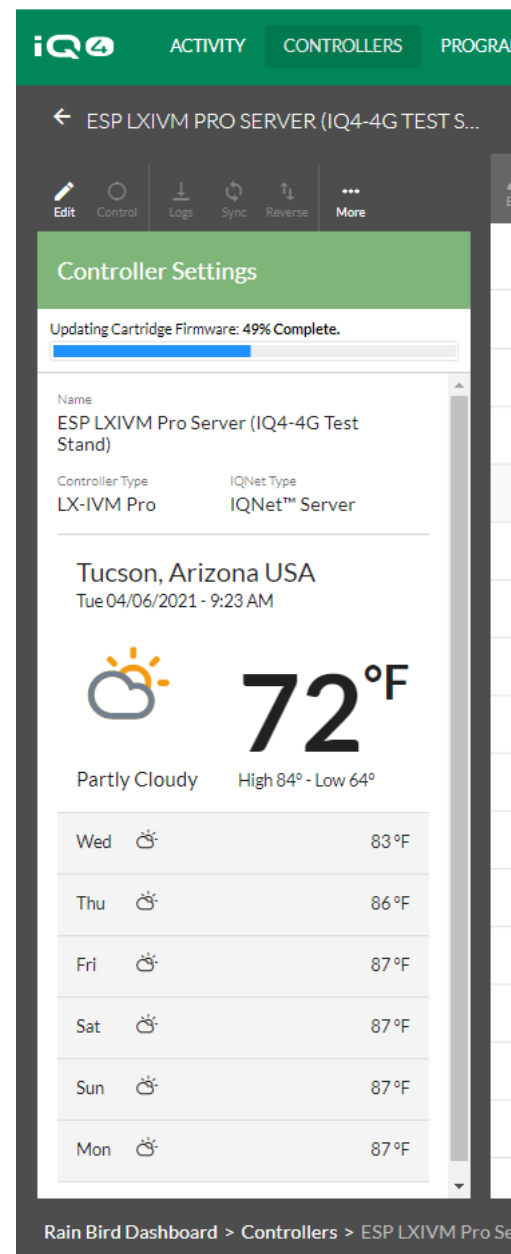
Weather Widget

- Weather Widget:
 - Provides a weather forecast for the next seven days for the controller weather source
 - If the controller does not have a weather source, the display will be blank
 - The weather forecast is update every time you update the controller page



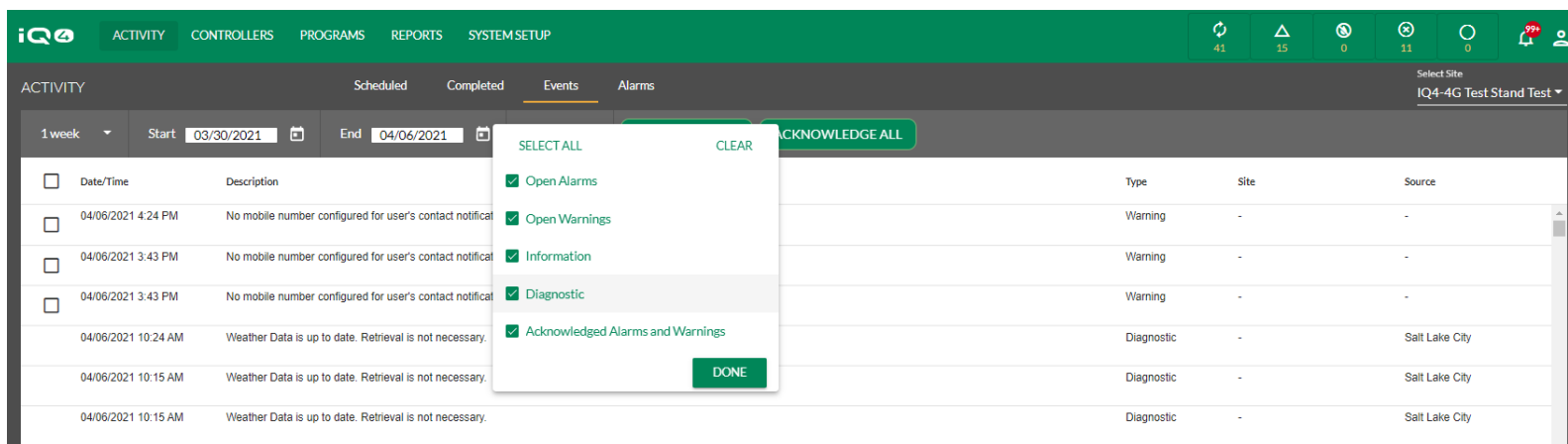
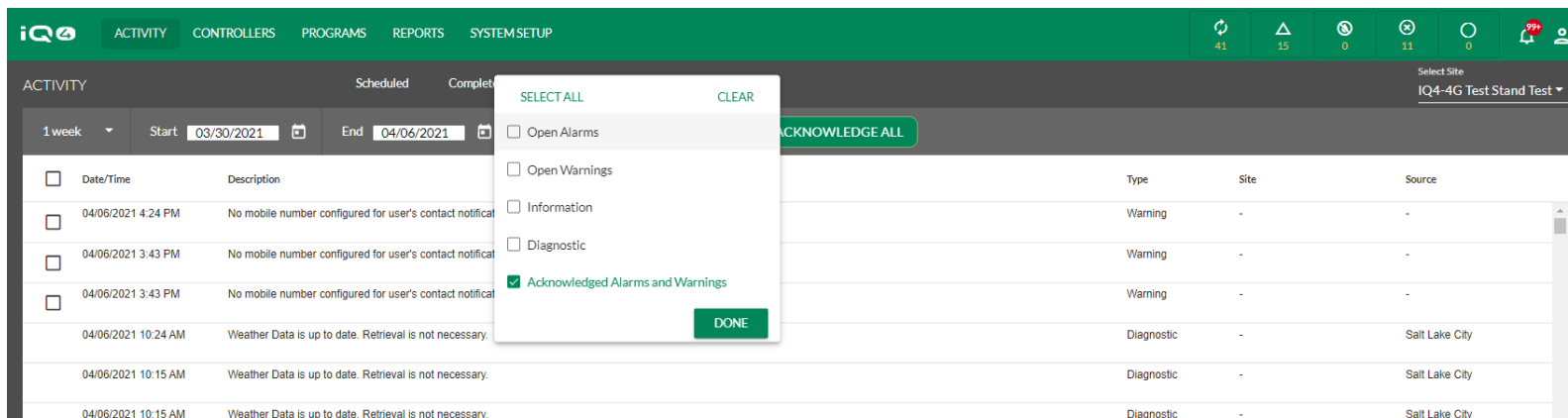
Firmware Restart

- LX-IVM Controllers can resume previously started firmware updates where the update left off
- The controller will automatically reconnect after 1-2 minutes and resume the Update Firmware process. When it resumes, it will first display 0% then jump to 10% (or wherever it failed) within another 1-2 minutes
- If you manually restart the Update Firmware process it will start over at 0%



Alarm Activity Features

- Ability to see acknowledged alarms and filter by alarm type on activity screen



Report Time Selection

- Improved filters for selected reports to set hour and minute for start/end of report

The screenshot displays the 'Station Run Time' report configuration interface. The top navigation bar includes 'iQO', 'ACTIVITY', 'CONTROLLERS', 'PROGRAMS', 'REPORTS', and 'SYSTEM SETUP'. The main header shows 'STATION RUN TIME' with a back arrow. Below this, there are filters for '1 Controllers Selected', '30 days', and a date range from '03/07/2021 12:00 AM' to '04/06/2021 9:06 AM'. A yellow circle highlights these date and time selection fields. A yellow arrow points to the 'RUN REPORT' button.

The report title is 'Malkin Residence - Test Controller'. The report details include 'Malkin Residence - Test Controller' and 'Malkin Residence - Test Controller'. The report period is 'From: 03/07/2021 12:00 AM To: 04/06/2021 9:06 AM'. The report is for 'Flo-Zone # 1' and shows an 'Actual Flow (gal)' of 14906.6.

The 'Station Run Time' table is as follows:

#	Station Name	Program A	Program B	Program C	Program D	Manual	Total Run Time	Estimated Flow (gal)
1	Shrubs - Garage	05:48:15	00:00:00	00:00:00	00:00:00	02:09:41	07:57:56	477.3
2	Trees - Garage	00:00:00	06:25:21	00:00:00	00:00:00	02:11:46	08:37:07	516.4
3	Shrubs - Entry	05:48:14	00:00:00	00:00:00	00:00:00	00:06:36	05:54:50	989.9
4	Trees - Entry	00:00:00	06:25:21	00:00:00	00:00:00	00:00:13	06:25:34	501.1
6	Pots - Planters	00:00:00	00:00:00	02:29:09	00:00:00	00:06:00	02:35:09	154.9
7	Turfgrass - Pool Area	00:00:00	00:00:00	00:00:00	02:55:05	00:00:00	02:55:05	2,483.7
8	Turfgrass - North	00:00:00	00:00:00	00:00:00	06:37:02	00:00:00	06:37:02	3,568.2
9	Turfgrass - South	00:00:00	00:00:00	00:00:00	06:38:02	00:00:00	06:38:02	4,138.7
10	Raised Planter - South	00:00:00	00:00:00	08:00:54	00:00:00	00:00:00	08:00:54	1,105.3
Satellite Total		11:36:29	12:50:42	10:30:03	16:10:09	04:34:16	55:41:39	13,935.4

Water Management Report

- The water management report now has a total field for manual and scheduled irrigation

Report Name:
Water Management - 01/06/2021 - 04/05/2021

Malkin Residence - Test Controller
Malkin Residence - Test Controller

Malkin Residence - Test Controller

Malkin Residence - Test Controller

LXME - Direct Satellite

Weather Source: Oro Valley, Arizona, United States of America Last Weather Retrieve Date: 04/06/2021 08:56:31 AM

	Current Period	Previous Period	Difference	% Change
	01/06/2021 - 04/05/2021 11:59:59 PM	10/08/2020 - 01/05/2021 11:59:59 PM		
	Hrs:Min:Sec	Hrs:Min:Sec	Hrs:Min:Sec	
PGM A Total Run Time	18:43:27	49:07:58	30:24:31	-62%
PGM B Total Run Time	22:51:20	67:23:25	44:32:05	-66%
PGM C Total Run Time	22:16:34	67:03:15	44:46:41	-67%
PGM D Total Run Time	17:57:07	28:05:42	10:08:35	-36%
Total Manual Run Time	14:33:09	01:00:22	13:32:47	1346%
Total Run Time	96:21:37	212:40:42	116:19:05	-55%
Actual Flow	20,763.7 gal	36,393.7 gal	-15,630.1 gal	-43%
Estimated Flow *	19,618.0 gal	35,171.4 gal	-15,553.4 gal	-44%
Evapotranspiration:	12.8 in	18.9 in	-6.1 in	-32%
Rainfall	1.3 in	0.5 in	0.8 in	156%

* Based on current Station Flow Rates

Cellular Troubleshooting Link

ABOUT

RAIN BIRD
IQ Cloud

US and Canada 1-866-477-9778 gsp@rainbird.com	Europe 00800-555-72477 gsp@rainbird.eu	Australia 1800 225 512 info@rainbird.com.au	International 1-520-434-6216 gsp@rainbird.com
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App Version 4.0.5026	Core 1.0.2648.0	Service 3.0.4533.999
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[Version History](#)
Cellular Connectivity Issues

FAQ

**<under
construction>**

RAIN  ***BIRD*** [®]