Introduction to New Commercial Products

The Intelligent Use of Water.™

LEADERSHIP • EDUCATION • PARTNERSHIPS • PRODUCTS

Take Control

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New COM Products!

IQ4 Central Control

ESP LX-IVM Controller

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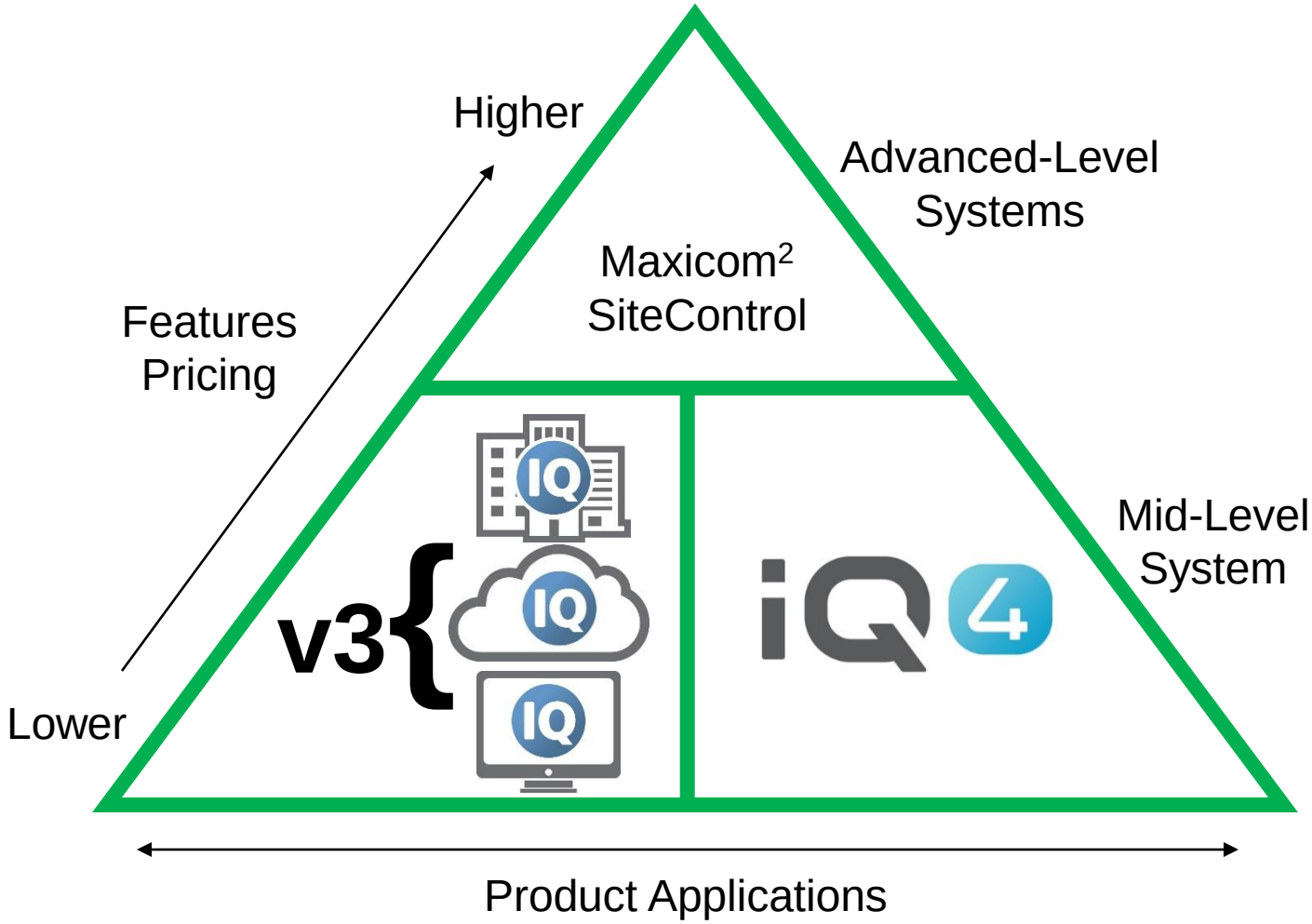
Rain Bird Central Control Family



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IQ4➔4 Things to Know

- **Easy setup and access – 100% Web Browser Based ➔ No more Remote Desktop**
  - Easy upgrade from IQ3
  - No time needed to train users
- **Complete control with mobile device**
  - Reporting and text notifications on phones
- **New features simplify programming and management of controllers**
- **Faster**

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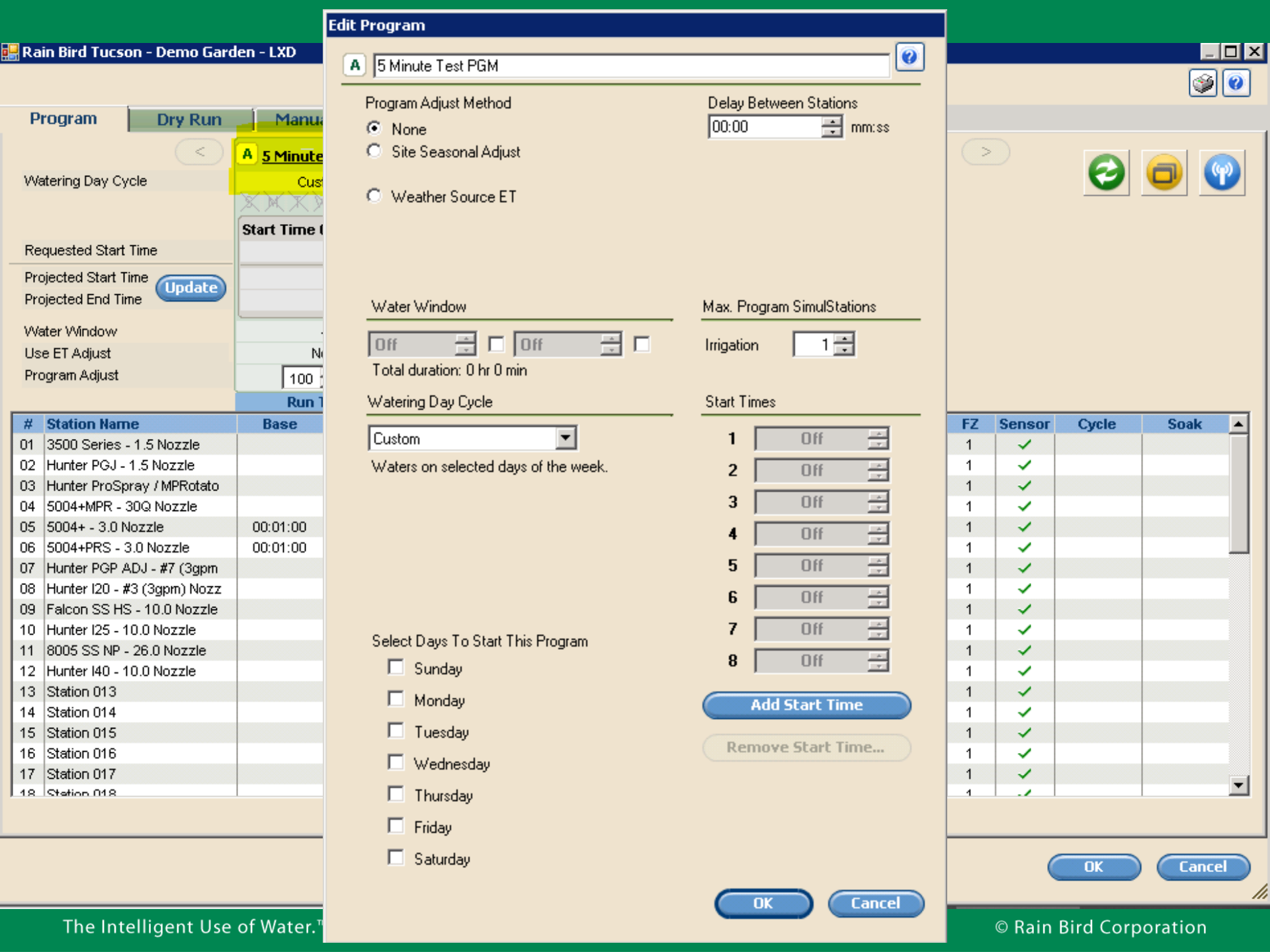
Rain Bird Tucson - Demo Garden - LXD
Program
Dry Run
Manua
A 5 Minute
Watering Day Cycle
Cust
Start Time
Requested Start Time
Projected Start Time
Projected End Time
Update
Water Window
Use ET Adjust
Program Adjust
100
Run T
Station Name Base
01 3500 Series - 1.5 Nozzle
02 Hunter PGJ - 1.5 Nozzle
03 Hunter ProSpray / MPRotato
04 5004+MPR - 30Q Nozzle
05 5004+ - 3.0 Nozzle 00:01:00
06 5004+PRS - 3.0 Nozzle 00:01:00
07 Hunter PGP ADJ - #7 (3gpm
08 Hunter I20 - #3 (3gpm) Nozz
09 Falcon SS HS - 10.0 Nozzle
10 Hunter I25 - 10.0 Nozzle
11 8005 SS NP - 26.0 Nozzle
12 Hunter I40 - 10.0 Nozzle
13 Station 013
14 Station 014
15 Station 015
16 Station 016
17 Station 017
FZ Sensor Cycle Soak
OK
Cancel
The Intelligent Use of Water.
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Edit Program
A 5 Minute Test PGM
Program Adjust Method
None
Site Seasonal Adjust
Weather Source ET
Delay Between Stations
00:00
mm:ss
Water Window
Off
Off
Total duration: 0 hr 0 min
Max. Program SimulStations
Irrigation
1
Watering Day Cycle
Custom
Waters on selected days of the week.
Start Times
1 Off
2 Off
3 Off
4 Off
5 Off
6 Off
7 Off
8 Off
Select Days To Start This Program
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Add Start Time
Remove Start Time...
OK
Cancel

New Features

- **Reduce time spent drilling down to each controller program and group edits. Build programs faster with station tags**
- **No need to set sync and log retrieval times**
  - Automatic synchronization outside the water window
  - IQ4 figures out when to perform synchronizations and log retrievals
  - Synchronization and log retrievals will not interrupt irrigation
- **Simple ET**
  - ET Programming without a complicated setup
  - Uses localized weather source or IQ Internet Weather
  - Provides daily ET adjustment of run times
  - Works like LNK-WIFI
- **Text Message Notifications & High Quality Reports**

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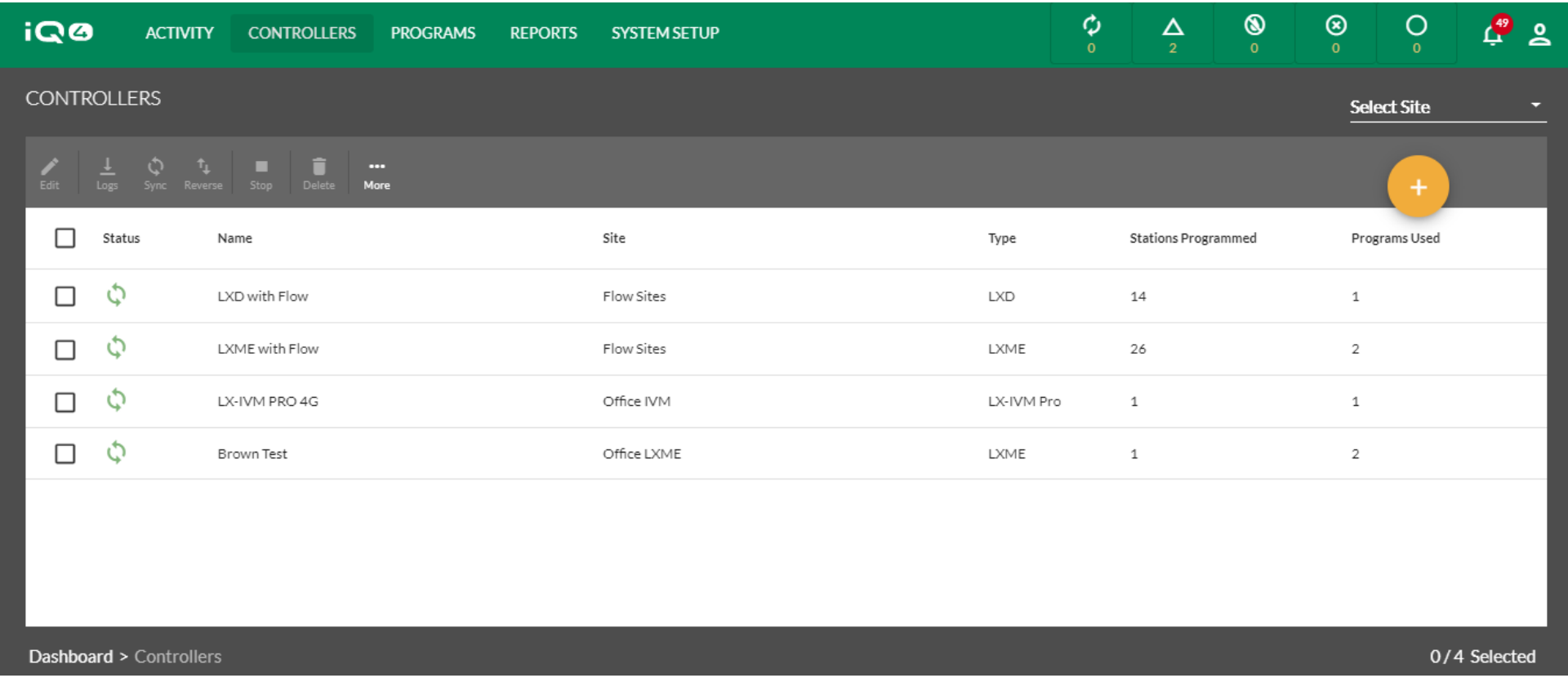
IQ4 Controllers Screen



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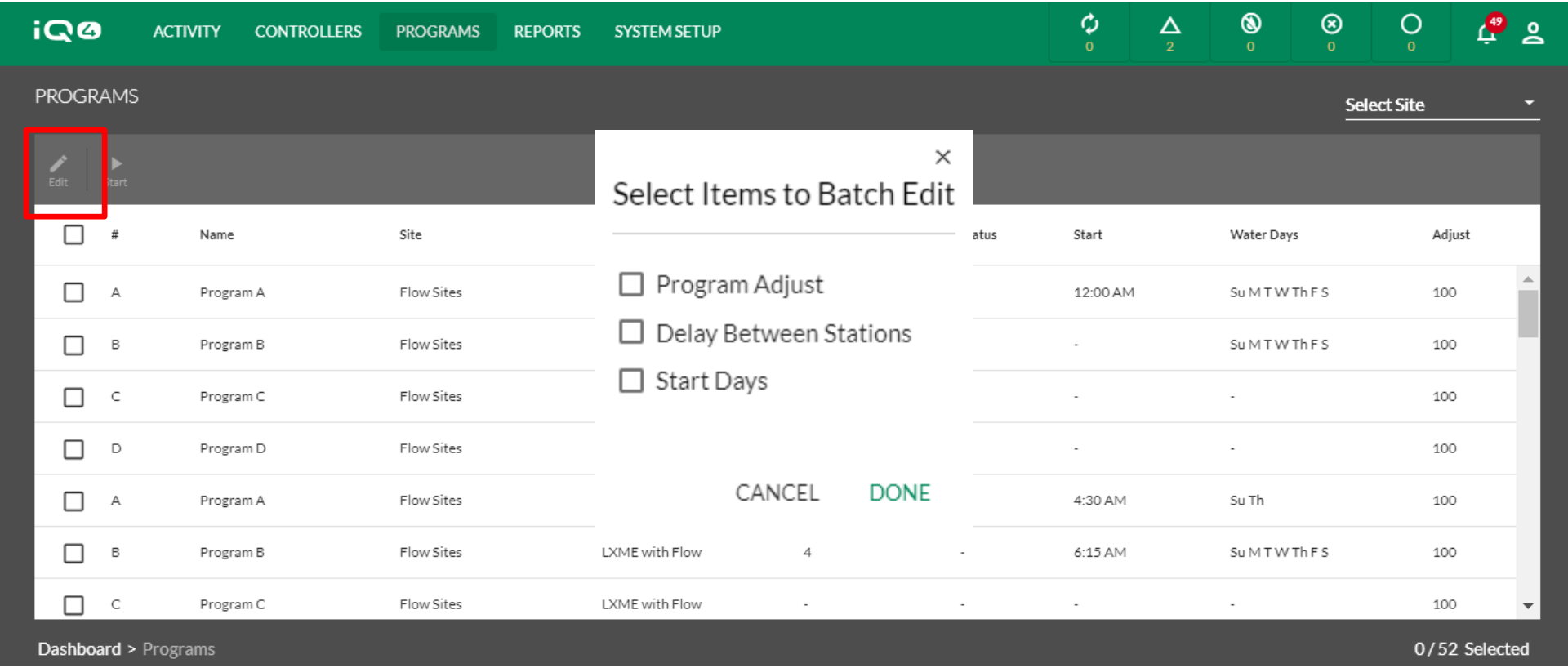
IQ4 Controller Program Screen



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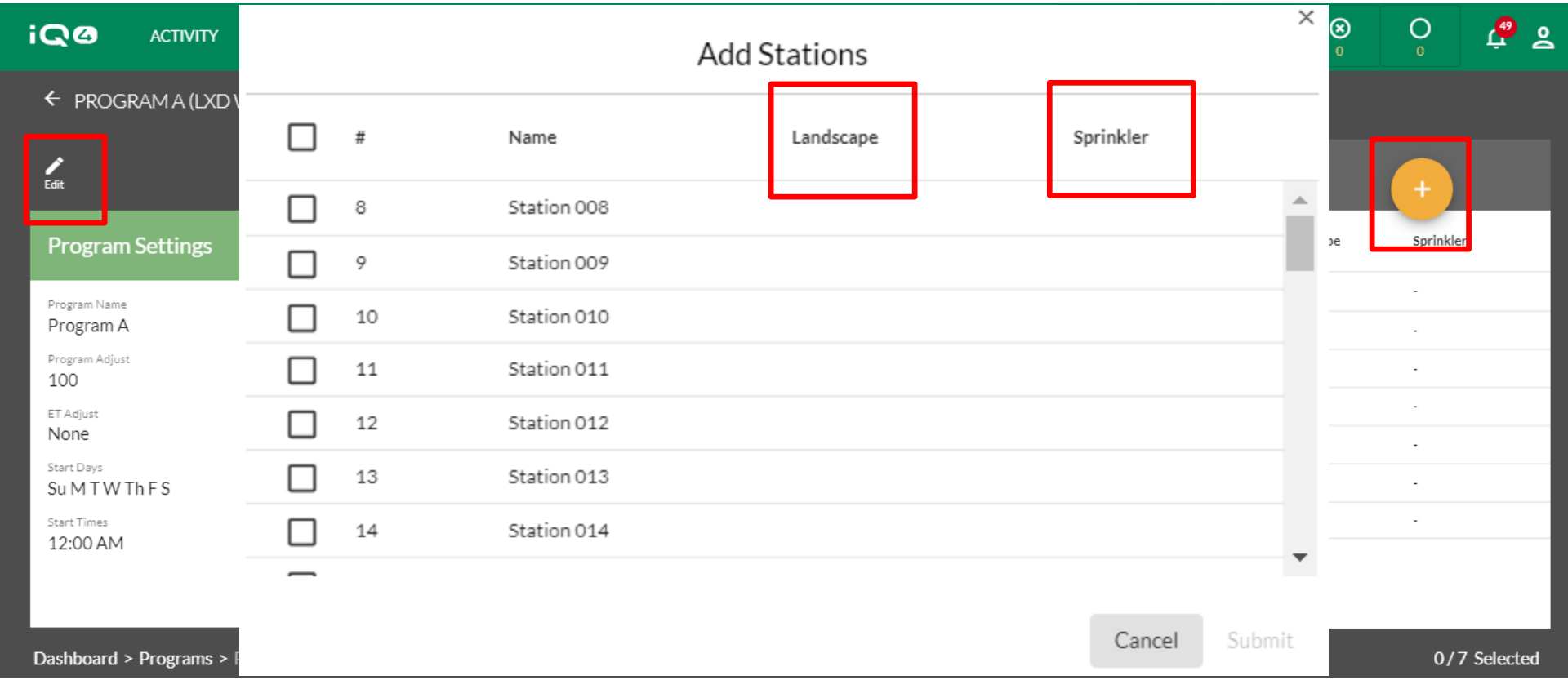
Edit Program Screen



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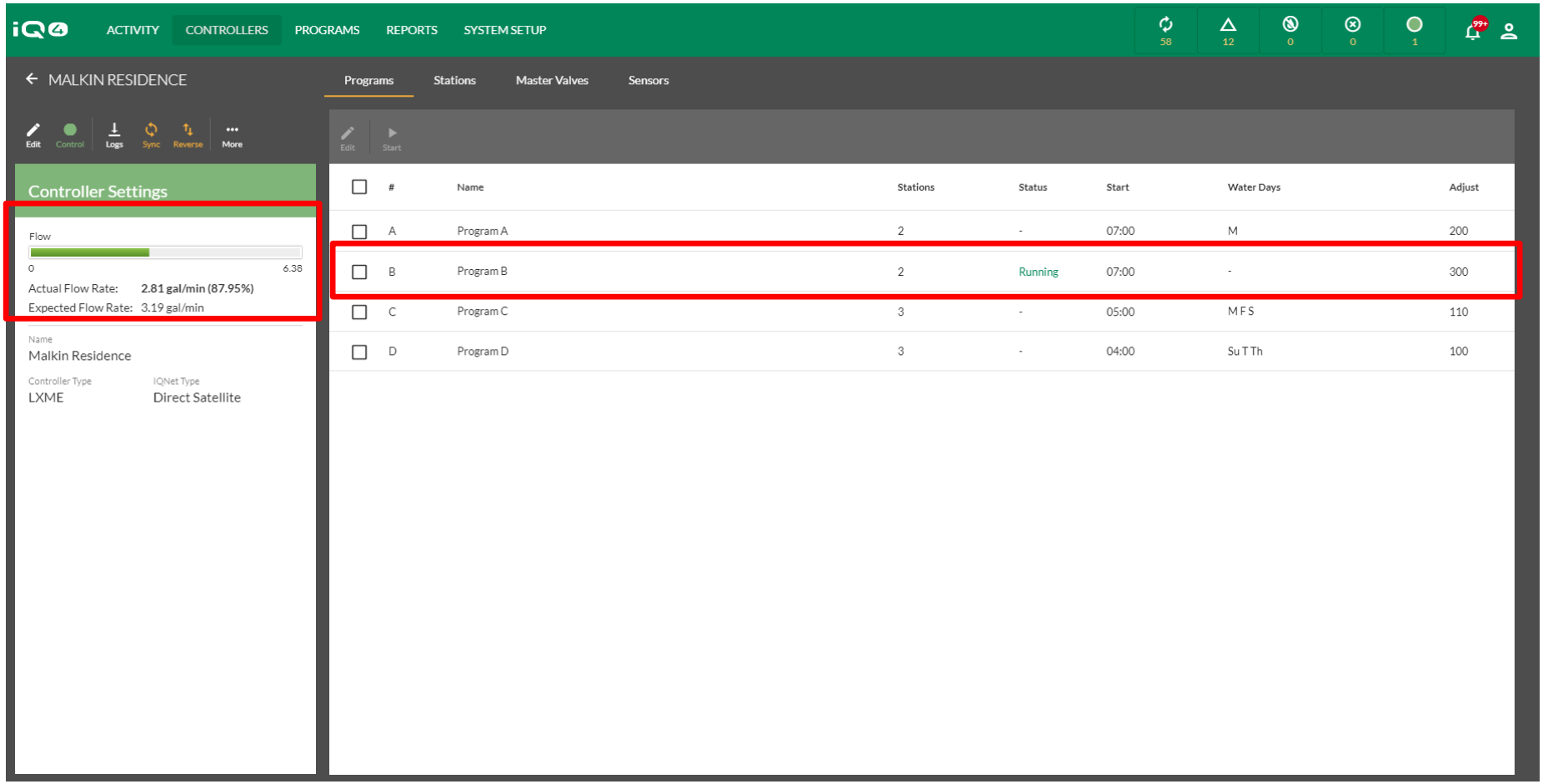
Manual Operations



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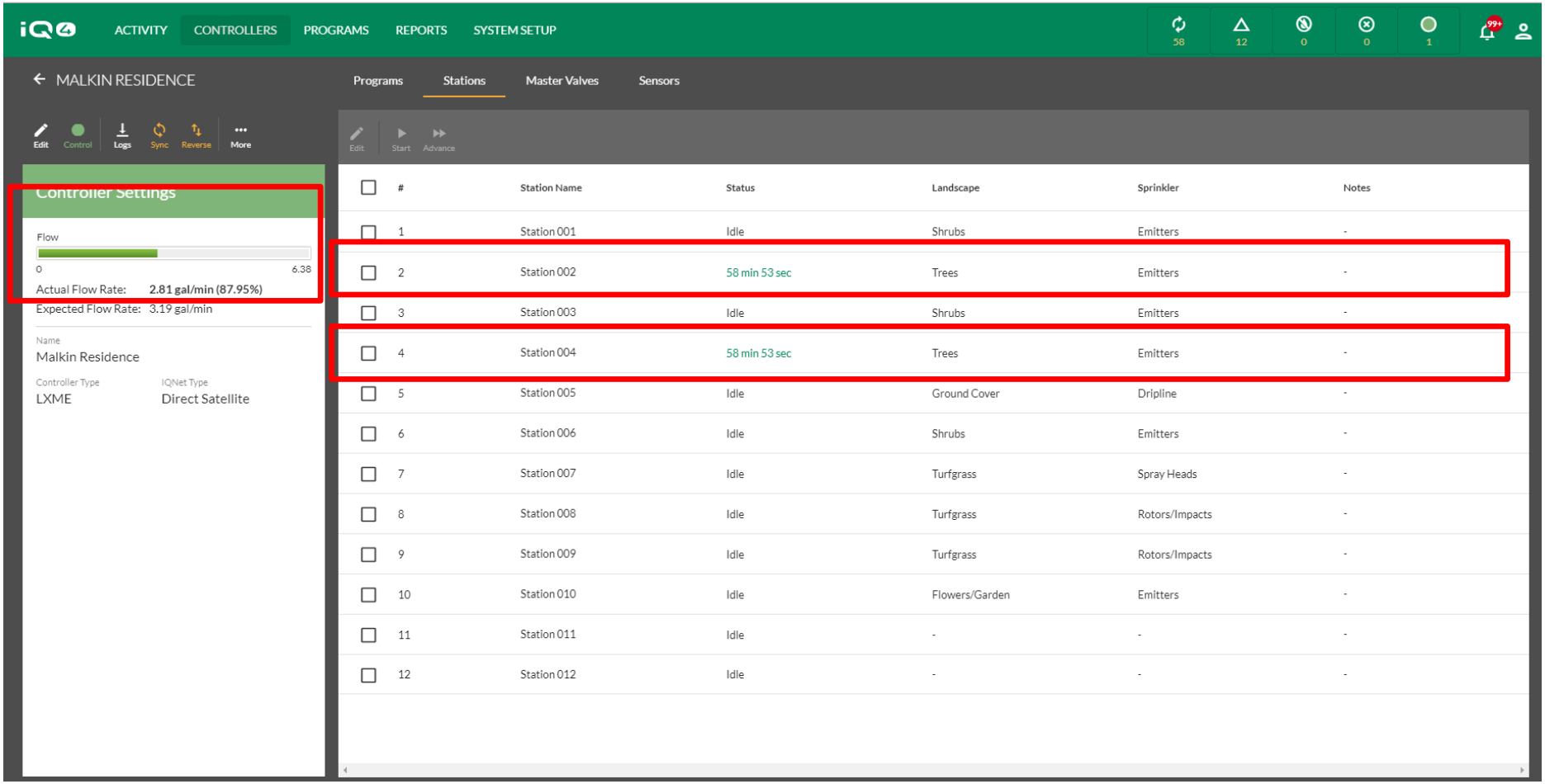
Manual Operations



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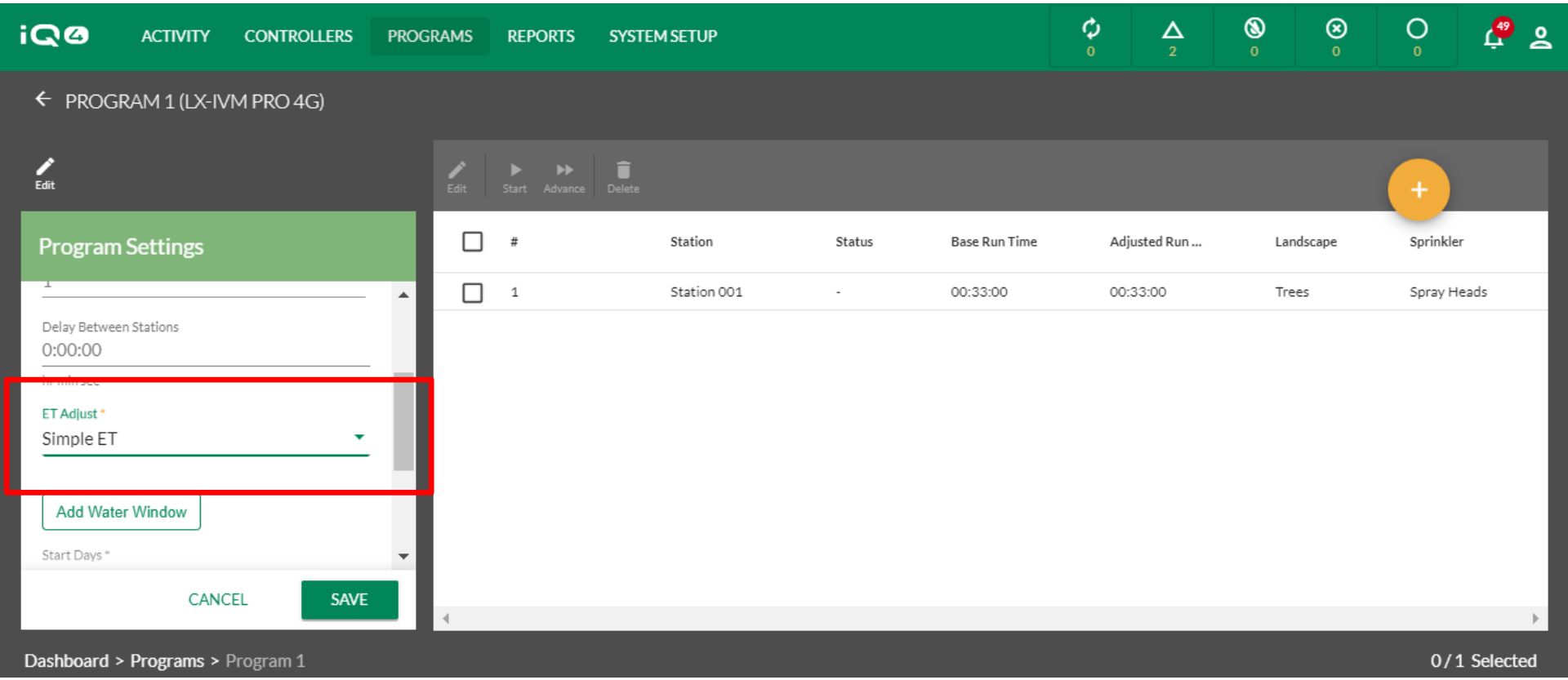
Simple ET



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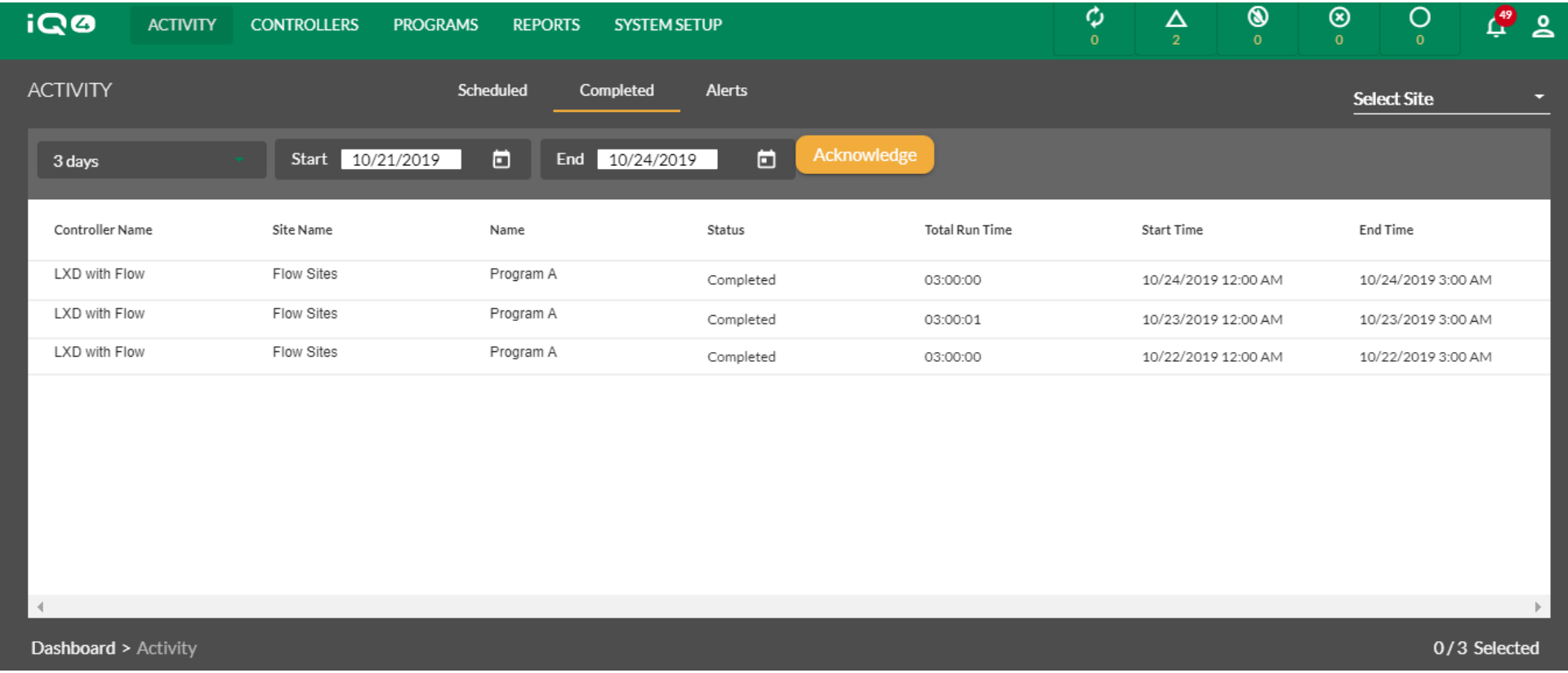
Activity Scren



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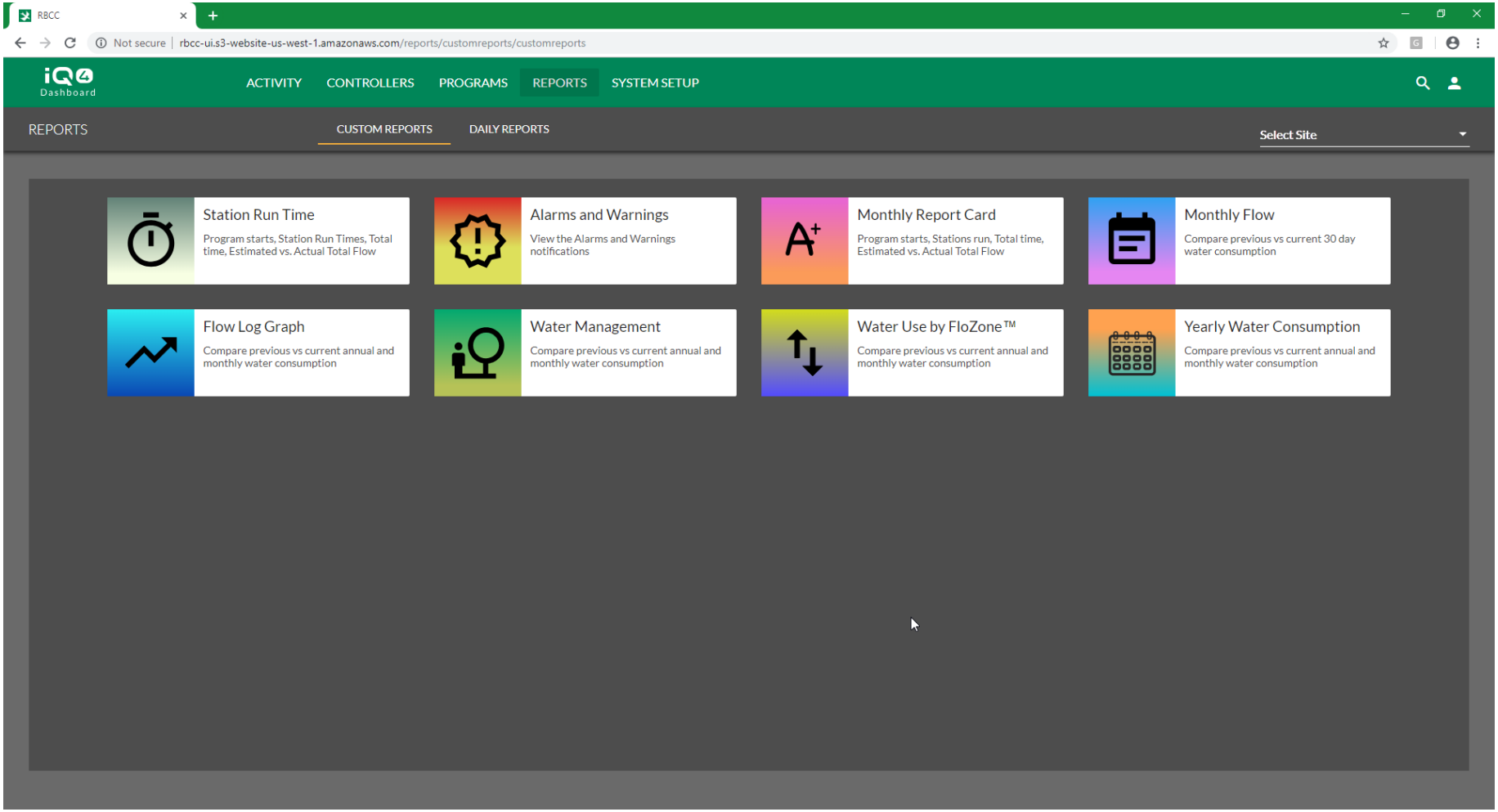
IQ4 Reports



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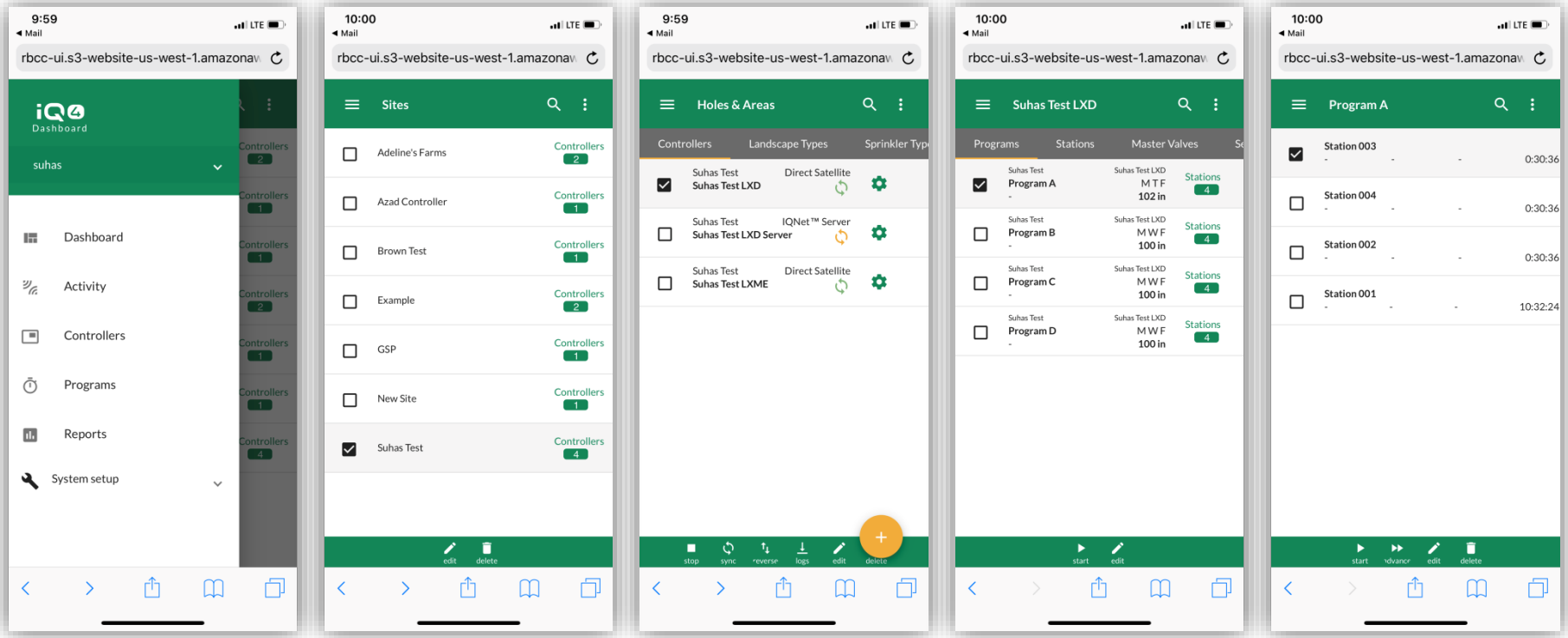
Mobile Accessibility



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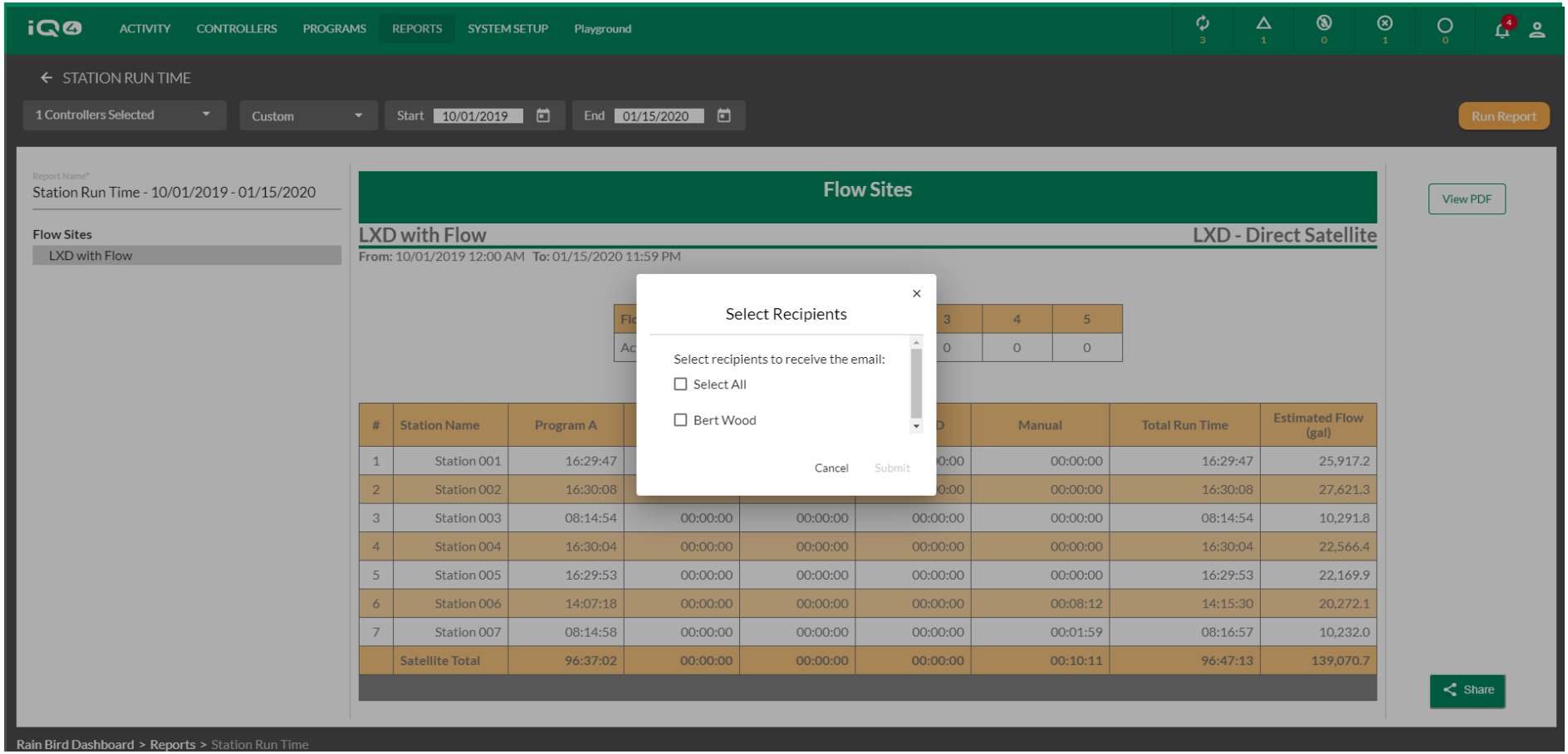
Example Report



#	Station Name	Program A				Manual	Total Run Time	Estimated Flow (gal)
1	Station 001	16:29:47			00:00	00:00:00	16:29:47	25,917.2
2	Station 002	16:30:08			00:00	00:00:00	16:30:08	27,621.3
3	Station 003	08:14:54	00:00:00	00:00:00	00:00:00	00:00:00	08:14:54	10,291.8
4	Station 004	16:30:04	00:00:00	00:00:00	00:00:00	00:00:00	16:30:04	22,566.4
5	Station 005	16:29:53	00:00:00	00:00:00	00:00:00	00:00:00	16:29:53	22,169.9
6	Station 006	14:07:18	00:00:00	00:00:00	00:00:00	00:08:12	14:15:30	20,272.1
7	Station 007	08:14:58	00:00:00	00:00:00	00:00:00	00:01:59	08:16:57	10,232.0
	Satellite Total	96:37:02	00:00:00	00:00:00	00:00:00	00:10:11	96:47:13	139,070.7

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	RAIN BIRD iQ4	Hunter CENTRALUS
App or Website	Mobile Compatible Website	Mobile Compatible Website
Supported Controllers	All LX Controllers	ICC2 and ACC2*
Edit Programs		
Days of Week	✓	✓
Start Time	✓	✓
Run Time	✓	✓
Edit Station Names	✓	X
Edit Program Names	✓	X
Set Station Delay	✓	✓
MV Assignment	✓	✓
Cycle & Soak	✓	✓
Station Tags	✓	X
Water Window	✓	X
Site Management		
Copy Controllers	✓	X
Move Controllers	✓	X
Site-Wide Adjustments	✓	X
Map		
See Location	X	✓
Make Adjustments	X	X
View Status	✓	✓
Create Test Controllers	✓	X
Change Settings		
Auto/Off	✓	✓
Seasonal Adjust	✓	✓
Flow Management	✓	X
Flow Watch	✓	X
Decoder Addresses	✓	X
Module Configuration	✓	X
Simulstation	✓	X
Manual Start		
Program	✓	✓
Station	✓	✓
Weather Adjustments		
ET Adjustments	Simple ET based on Internet Weather Data, can be combined with Rain Sensor	Can set automatic Rain Delay based off of forecasted rain, can be combined with Solar Sync
Internet Based Weather	✓	✓
Text Message Alerts	✓	✓
Reporting		
Run Time Reports	✓	X
Water Usage Reports	✓	X
User Account Settings		
Share Controller	✓	✓
Share Site	✓	X
Access Restrictions	✓	X

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New COM Products!

ESP LX-IVM Controller

IQ4 Central Control

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What is IVM?

- New two wire system ➔NO MORE DECODERS
- IVM – Integrated Valve Module eliminates decoder and 50% of wire connections
- Latching solenoid enables more simultaneous operations
- Two way communication with faster response times and enhanced diagnostics

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New LX Controller

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ESP LX-IVM Series 2-Wire Controllers

- **ESP LX-IVM**
  - 60 Stations
  - 5 Master Valves
  - 5 Flow Sensors
  - 4 Weather Sensors (1 local)
  - 8 SimulStations
  - 10 Programs

ESP LX-IVM

- **ESP LX-IVM PRO**
  - 240 Stations
  - 10 Master Valves
  - 10 Flow Sensors
  - 8 Weather Sensors (1 local)
  - 16 SimulStations
  - 40 Programs

ESP LX-IVM PRO

"No Expansion Modules"

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IVM-Series Field Devices

IVM-SOL

Commercial Valves interface – *not compatible with Contractor Valves*

AC vs DC Latching Solenoid

IVM-SEN

For weather and flow sensors

Same sensors used with ESP-LXD are compatible

IVM-OUT

Makes third party valves work like ours

IVM-SD

Surge Protection

Install every 500’ or 15 field devices.

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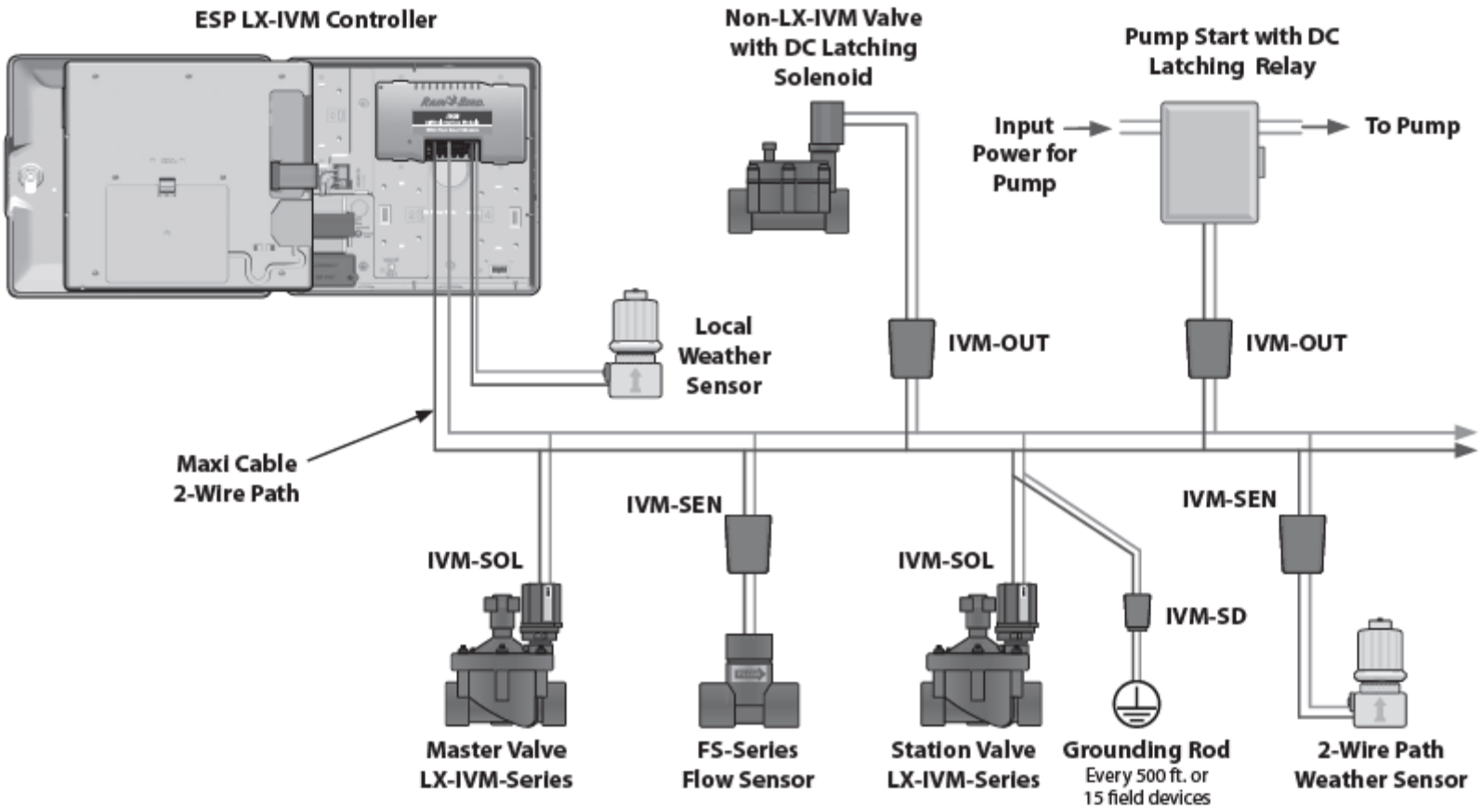
IVM System Layout



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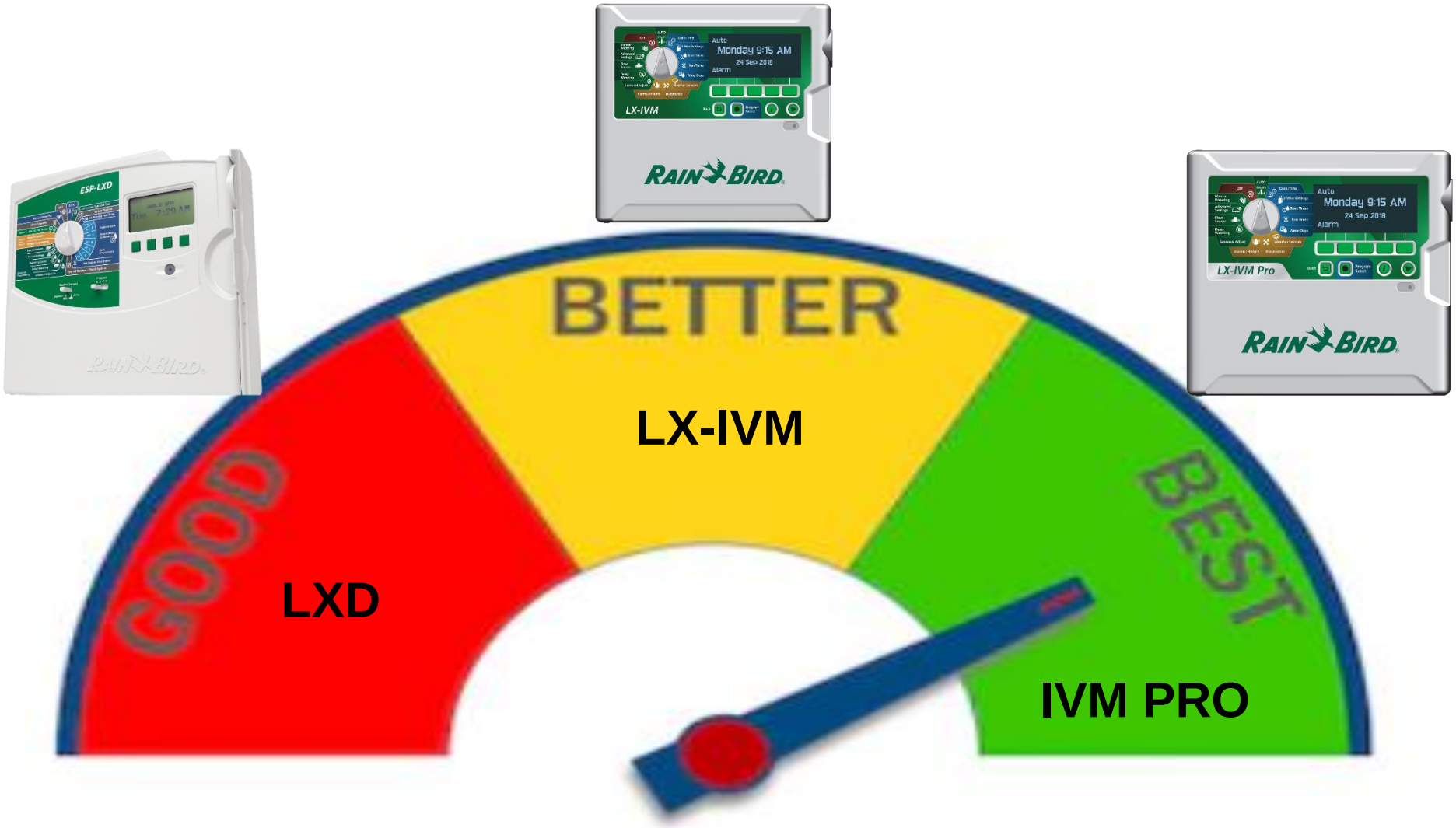
What about the LXD?



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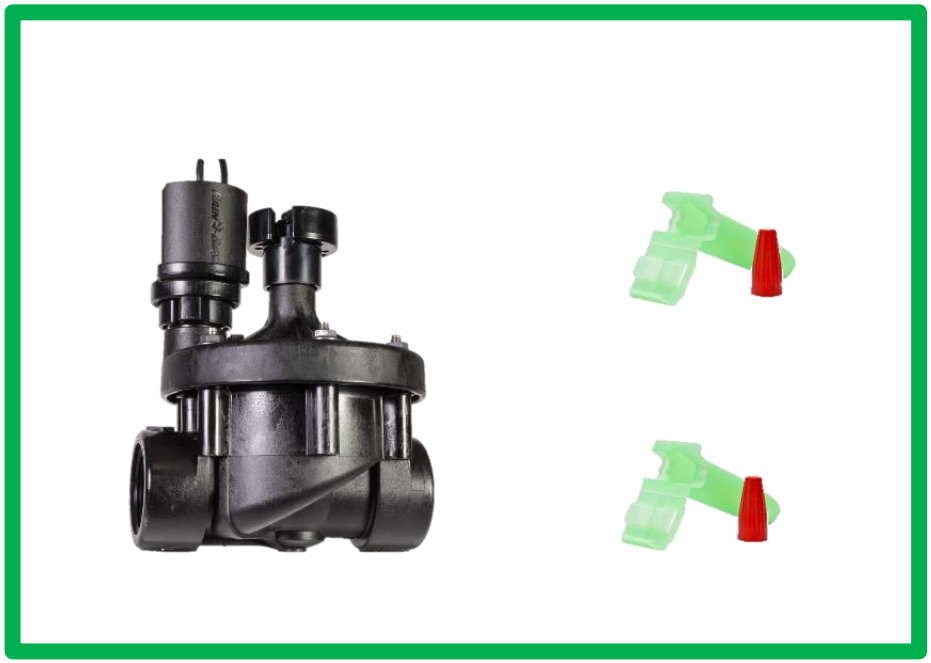
Us vs Them – Less Complicated

Hunter® or RAIN BIRD®



- Integrated & Preinstalled Solenoid eliminates 50% of wire splices (90% of failures)
- Less stuff to buy – fewer connectors and no expensive programming tools
- Faster to install and more reliable!

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Us vs Them – Familiar User-friendly Interface!

- Simplified version (half the dial positions) and familiar Rain Bird programming
- Screen is twice as large and back lit for high visibility anywhere
- Info button for assistance at any programming step
- Large backlit buttons that are actually usable

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Key Point – Best-in-Class Specs!

ESP LX-IVM PRO

- 40 Programs/240 Stations
- 16 Simulstations + MVs
- 10 Master Valves
- 10 Flow Sensors
- 8 Weather Sensors
- Up to 96 hr run times
- 20kV integrated surge protection
- Central Control with iQ4

ACC 2 Decoder

- 32 Programs/225 Stations
- 30 Simulstations
- 6 Master Valves
- 6 Flow Sensors
- 4 Weather Sensors
- Up to 12 hour run times
- Automotive fuses…?
- NO CENTRAL CONTROL

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Key Point – Diagnostics / Self-Healing!

- Can make solenoid chatter to help locate
- Wire Short Test
- Decoder List

- 4 Isolated Wire Paths ensure that shorts don't take down the full system
- 2-Wire Mapping and List-Not-Responding identifies device failures
- Trending 12-month electrical history reports and proactive action
- Self-healing and restart after 2-Wire shorts
- Two-Way Communication with devices activates self-shutoff when power is absent

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IVM – 4 Things to know

- **Controller**
  - This is the best and most advanced controller on the market
  - New User Interface is a lot easier to use
    - 2.5x Bigger screen, backlight
    - Less Dial Positions and backlit buttons
- **IVM SOL**
  - The IVM Technology is a game changer for two wire and will be the future
    - 50% less wire splices = 200% more reliable
    - Advanced diagnostics pinpoint problems
  - Can't be mixed with other decoder systems

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