

TEST 2: DEBUG LOGGER TEST - Instructions

Version: Phase 2 - Test 2

Date: 2026-01-19

Status: Ready for Testing

What Was Changed

1. AV_Core_v2.1_COMPLETE.bas

- InitDebugFlags reads "ON"/"OFF" from GlobalDebugOptions table
- GetAutoValidationMap uses DebugMessage for detailed logging
- Progress logging uses AV_UI.AppendUserLog (always visible)
- Error #450 fixed (added Set keyword)

2. AV_UI_v2.1_Test2.bas (NEW)

- Removed DEBUG_MODE constant
- All logging now uses AV_Core.DebugMessage
- Respects GlobalDebugOn setting

3. Test2_DebugLogger.bas (NEW)

- Comprehensive test module
 - Tests both ON and OFF states
 - Clear pass/fail criteria
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How GlobalDebugOn Works

Default State:

- GlobalDebugOn = False (VBA default)
- No debug messages print

At Validation Start:

- RunFullValidationMaster calls InitDebugFlags
- InitDebugFlags reads GlobalDebugOptions table
- Sets GlobalDebugOn based on table value

During Validation:

- DebugMessage checks GlobalDebugOn
- If ON: prints to Immediate Window
- If OFF: silent (no debug output)

Progress Logging:

- AV_UI.AppendUserLog always displays in UserForm
 - Not affected by GlobalDebugOn setting
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Test Procedure

Setup

1. Import updated modules:
 - AV_Core_v2.1_COMPLETE.bas (replace old)
 - AV_UI_v2.1_Test2.bas (replace old AV_UI)
 - Test2_DebugLogger.bas (new)

2. Compile project (Ctrl+K)

Part 1: Test with GlobalDebugOn = ON

1. Open GlobalDebugOptions table
2. Set GlobalDebugOn value to: **ON**
3. Clear Immediate Window (Ctrl+G, Ctrl+A, Del)
4. Run: Test2_Part1_GlobalDebugON

Expected Output:

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TEST 2 - PART 1: GlobalDebugOn = ON

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Current setting in table: ON

Step 1: Initializing debug flags...

Step 2: Checking AV_Core.GlobalDebugOn variable...

AV_Core.GlobalDebugOn = True

Step 3: Testing DebugMessage function...

EXPECTED: You should see [DEBUG] messages below

[DEBUG] Test2_Part1 :: Test message 1 - This should appear

[DEBUG] AV_Core :: Test message 2 - This should also appear

[DEBUG] AV_Engine :: Test message 3 - This one too

Step 4: Testing GetAutoValidationMap logging...

(This should show detailed row-by-row processing)

[DEBUG] AV_Core :: Row 1 Processing: Validate_Column_GIWQuantity

[DEBUG] AV_Core :: Row 2 Processing: Validate_Column_GIWIncluded

[DEBUG] AV_Core :: Row 3 Processing: Validate_Column_Electricity

[DEBUG] AV_Core :: Success: 9 | Skipped: 0

Map loaded: 9 items

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TEST 2 - PART 1 COMPLETE

If you saw debug messages, PART 1 PASSED

Now set GlobalDebugOn to 'OFF' and run Part 2

Pass Criteria: [DEBUG] messages appeared

Row processing messages appeared

AV_Core.GlobalDebugOn = True

Part 2: Test with GlobalDebugOn = OFF

1. Open GlobalDebugOptions table
2. Set GlobalDebugOn value to: **OFF**
3. Clear Immediate Window (Ctrl+G, Ctrl+A, Del)
4. Run: Test2_Part2_GlobalDebugOFF

Expected Output:

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TEST 2 - PART 2: GlobalDebugOn = OFF

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Current setting in table: OFF

Step 1: Initializing debug flags...

Step 2: Checking AV_Core.GlobalDebugOn variable...

AV_Core.GlobalDebugOn = False

Step 3: Testing DebugMessage function...

EXPECTED: NO [DEBUG] messages should appear below

(If you see NO messages between the dashes above, that's correct)

Step 4: Testing GetAutoValidationMap logging...

(Should show minimal logging - only progress in UserForm)

Map loaded: 9 items

(No row-by-row debug messages should have appeared)

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TEST 2 - PART 2 COMPLETE

EXPECTED RESULTS:

- NO [DEBUG] messages appeared
- NO row processing messages appeared
- Only this test output visible

If you saw NO debug messages, PART 2 PASSED

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Pass Criteria: NO [DEBUG] messages appeared

NO row processing messages

AV_Core.GlobalDebugOn = False

Only test framework output visible

Troubleshooting

Issue: Part 1 shows no debug messages

Cause: InitDebugFlags not reading table correctly

Solution:

1. Check GlobalDebugOptions table exists
2. Check value is exactly "ON" (uppercase)
3. Run `Test2_ShowStatus` to diagnose

Issue: Part 2 still shows debug messages

Cause: GlobalDebugOn not updating

Solution:

1. Check value is exactly "OFF" (uppercase)
2. Verify Test2_Part2 calls InitDebugFlags(True)
3. Run `Test2_ShowStatus` to check sync

Issue: "Object required" error

Cause: DebugFlags not initialized

Solution: AV_Core.InitDebugFlags checks and initializes

Utility Function

Check Current Status:

vba

`Test2_ShowStatus`

Shows:

- Table setting (ON/OFF)
 - Variable value (True/False)
 - Synchronized status
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Files Delivered

1. `AV_Core_v2.1_COMPLETE.bas` - Updated with ON/OFF checks
 2. `AV_UI_v2.1_Test2.bas` - Updated with DebugMessage
 3. `Test2_DebugLogger.bas` - Complete test suite
 4. `Test2_Instructions.md` - This file
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Next Steps After Test 2

If Test 2 passes: GlobalDebugOn system working

Ready to test RunFullValidationMaster (Test 3)

If Test 2 fails: Review error messages

Run `Test2_ShowStatus`

Share output for diagnosis

Summary

Test 2 verifies:

- InitDebugFlags reads table correctly
- GlobalDebugOn = "ON" shows debug messages
- GlobalDebugOn = "OFF" hides debug messages
- Progress logging always visible in UserForm
- No impact on actual validation logic

Expected Duration: 2-3 minutes