

# GAIA Investigation System

## Comprehensive Test Report

Generated: 2025-06-12 15:18:36

Total Test Permutations: 16

### Executive Summary

- Total Tests Executed: 16
- Successful Tests: 0
- Failed Tests: 16
- Success Rate: 0.0%

### Summary Comparison Table

Entity	Type	Mode	Parallel	Success	Time(s)	Risk Score	Validation
46210978...	user_id	autonomous	True	✗	0.0	0.00	✗
46210978...	user_id	autonomous	False	✗	0.0	0.00	✗
46210978...	user_id	api_calls	N/A	✗	0.0	0.00	✗
46210978...	user_id	api_calls	N/A	✗	0.0	0.00	✗
f394742f...	device_id	autonomous	True	✗	0.0	0.00	✗
f394742f...	device_id	autonomous	False	✗	0.0	0.00	✗
f394742f...	device_id	api_calls	N/A	✗	0.0	0.00	✗
f394742f...	device_id	api_calls	N/A	✗	0.0	0.00	✗
test_use...	user_id	autonomous	True	✗	0.0	0.00	✗
test_use...	user_id	autonomous	False	✗	0.0	0.00	✗
test_use...	user_id	api_calls	N/A	✗	0.0	0.00	✗
test_use...	user_id	api_calls	N/A	✗	0.0	0.00	✗
test_dev...	device_id	autonomous	True	✗	0.0	0.00	✗
test_dev...	device_id	autonomous	False	✗	0.0	0.00	✗
test_dev...	device_id	api_calls	N/A	✗	0.0	0.00	✗
test_dev...	device_id	api_calls	N/A	✗	0.0	0.00	✗

# Test Permutation 1: Autonomous Parallel

## Test Configuration

Entity ID:	4621097846089147992
Entity Type:	user_id
Execution Mode:	autonomous
Parallel Execution:	True
Investigation ID:	N/A
Execution Time:	0.01 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /v1/agent/start/4621097846089147992?entity_type=user_id (Caused by NewConnectionError(<urllib3.connection.HTTPConnection object at 0x10d9ee450>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 2: Autonomous Sequential

## Test Configuration

Entity ID:	4621097846089147992
Entity Type:	user_id
Execution Mode:	autonomous
Parallel Execution:	False
Investigation ID:	N/A
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /v1/agent/start/4621097846089147992?entity_type=user_id (Caused by NewConnectionError(<urllib3.connection.HTTPConnection object at 0x10d9fc610>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 3: Separate API Calls

## Test Configuration

Entity ID:	4621097846089147992
Entity Type:	user_id
Execution Mode:	api_calls
Parallel Execution:	N/A
Investigation ID:	INV-TEST-USER_ID-1749755916
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /api/investigation (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x10da911d0>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 4: Separate API Calls

## Test Configuration

Entity ID:	4621097846089147992
Entity Type:	user_id
Execution Mode:	api_calls
Parallel Execution:	N/A
Investigation ID:	INV-TEST-USER_ID-1749755916
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /api/investigation (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x10d9fce90>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 5: Autonomous Parallel

## Test Configuration

Entity ID:	f394742f39214c908476c01623bf4bcd
Entity Type:	device_id
Execution Mode:	autonomous
Parallel Execution:	True
Investigation ID:	N/A
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /v1/agent/start/f394742f39214c908476c01623bf4bcd?entity_type=device_id (Caused by NewConnectionError(<urllib3.connection.HTTPConnection object at 0x10d9efe90>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 6: Autonomous Sequential

## Test Configuration

Entity ID:	f394742f39214c908476c01623bf4bcd
Entity Type:	device_id
Execution Mode:	autonomous
Parallel Execution:	False
Investigation ID:	N/A
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /v1/agent/start/f394742f39214c908476c01623bf4bcd?entity_type=device_id (Caused by NewConnectionError(<urllib3.connection.HTTPConnection object at 0x10da90d10>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 7: Separate API Calls

## Test Configuration

Entity ID:	f394742f39214c908476c01623bf4bcd
Entity Type:	device_id
Execution Mode:	api_calls
Parallel Execution:	N/A
Investigation ID:	INV-TEST-DEVICE_ID-1749755916
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /api/investigation (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x10d9ee4d0>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 8: Separate API Calls

## Test Configuration

Entity ID:	f394742f39214c908476c01623bf4bcd
Entity Type:	device_id
Execution Mode:	api_calls
Parallel Execution:	N/A
Investigation ID:	INV-TEST-DEVICE_ID-1749755916
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /api/investigation (Caused by  
NewConnectionError('<urllib3.connection.HTTPConnection object at 0x10da92950>: Failed to establish a new  
connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 9: Autonomous Parallel

## Test Configuration

Entity ID:	test_user_123
Entity Type:	user_id
Execution Mode:	autonomous
Parallel Execution:	True
Investigation ID:	N/A
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /v1/agent/start/test_user_123?entity_type=user_id (Caused by NewConnectionError(<urllib3.connection.HTTPConnection object at 0x10d9fc710>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 10: Autonomous Sequential

## Test Configuration

Entity ID:	test_user_123
Entity Type:	user_id
Execution Mode:	autonomous
Parallel Execution:	False
Investigation ID:	N/A
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /v1/agent/start/test_user_123?entity_type=user_id (Caused by NewConnectionError(<urllib3.connection.HTTPConnection object at 0x10d9ff450>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 11: Separate API Calls

## Test Configuration

Entity ID:	test_user_123
Entity Type:	user_id
Execution Mode:	api_calls
Parallel Execution:	N/A
Investigation ID:	INV-TEST-USER_ID-1749755916
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /api/investigation (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x10d9ffd10>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 12: Separate API Calls

## Test Configuration

Entity ID:	test_user_123
Entity Type:	user_id
Execution Mode:	api_calls
Parallel Execution:	N/A
Investigation ID:	INV-TEST-USER_ID-1749755916
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /api/investigation (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x10d9d2e10>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 13: Autonomous Parallel

## Test Configuration

Entity ID:	test_device_456
Entity Type:	device_id
Execution Mode:	autonomous
Parallel Execution:	True
Investigation ID:	N/A
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /v1/agent/start/test_device_456?entity_type=device_id (Caused by NewConnectionError(<urllib3.connection.HTTPConnection object at 0x10da93c10>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 14: Autonomous Sequential

## Test Configuration

Entity ID:	test_device_456
Entity Type:	device_id
Execution Mode:	autonomous
Parallel Execution:	False
Investigation ID:	N/A
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /v1/agent/start/test_device_456?entity_type=device_id (Caused by NewConnectionError(<urllib3.connection.HTTPConnection object at 0x10daa0fd0>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 15: Separate API Calls

## Test Configuration

Entity ID:	test_device_456
Entity Type:	device_id
Execution Mode:	api_calls
Parallel Execution:	N/A
Investigation ID:	INV-TEST-DEVICE_ID-1749755916
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /api/investigation (Caused by  
NewConnectionError('<urllib3.connection.HTTPConnection object at 0x10d9ef9d0>: Failed to establish a new  
connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Permutation 16: Separate API Calls

## Test Configuration

Entity ID:	test_device_456
Entity Type:	device_id
Execution Mode:	api_calls
Parallel Execution:	N/A
Investigation ID:	INV-TEST-DEVICE_ID-1749755916
Execution Time:	0.00 seconds
Success Status:	<input type="checkbox"/> FAILED

## Error Information

```
HTTPConnectionPool(host='localhost', port=8000): Max retries exceeded with url: /api/investigation (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object at 0x10da91d90>: Failed to establish a new connection: [Errno 61] Connection refused'))
```

## Overall Risk Assessment

Risk Score: 0.00 (LOW RISK)

# Test Execution Summary

## Performance Comparison

- Autonomous Parallel: Avg 0.0s (Range: 0.0s - 0.0s)
- Autonomous Sequential: Avg 0.0s (Range: 0.0s - 0.0s)
- Separate API Calls: Avg 0.0s (Range: 0.0s - 0.0s)

## Recommendations

- Monitor failed tests and investigate root causes
- Consider performance optimizations for slower execution modes
- Ensure all domain risk scores are non-zero for proper validation
- Verify LLM thoughts are generated for all analysis domains
- Test with different entity types to ensure broad compatibility

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