Agrinet Integration: Critical Issues and Next Steps

Status Report June 22

✓ Agrinet Integration Status Summary (as of June 17, 2025)

★ SYSTEM COMPONENTS & CONNECTION PATHS *⊘*

Component	Status	Notes
Wix Frontend (NTARI.org Network Theory Applied Resea rch Institute)	✓ Online	Live and rendering forms/data
Backend Node (54.211.206.117)	✓ Online	API reachable, PM2 active
Registry Node (18.234.49.114)	A Partially Online	PM2 logs ok, but port binding/debug issues still blocking Federation Sync
MongoDB (both nodes)	✓ Connected	Logs show successful connections
Wix ↔ Backend Integration	✓ Verified	API test calls successful via frontend
Backend ↔ Registry Federation	X Not Functional	POST /federation/users fails; registry not listening or route not active
Wix Frontend ↔ Federation Data	× Not Functional	Registry not serving real-time federated content yet

REMAINING TASKS / NEXT STEPS (Simplified) @

- 🧵 1. Fix Registry Node Port Binding 🖉
- V server.listen(PORT, '0.0.0.0', ...) is correctly set
- X Port 3000 not bound 1sof shows nothing listening
- ✓ PM2 logs confirm boot
- 6 PM2 error log showed duplicate imports, recently fixed
- **X NEXT**: Confirm app runs *without* PM2 to isolate PM2-related issues:

1 bash

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node server.js

2. Check EC2 Security Group (Registry Node) ∂

- Inbound rules must allow TCP on port 3000
- X If not allowed, the backend node can't reach registry node
- **X NEXT**: Update Security Group to allow TCP:3000 from anywhere temporarily:
 - Type: Custom TCP
 - o Port: 3000
 - o Source: 0.0.0.0/0

3. Re-test Federation Sync (from backend node) ∅

1 bash

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curl -X POST http://18.234.49.114:3000/federation/users \ -H "x-api-key: secret-key-1234" \ -H "Content-Type:
application/json" \ -d '{"name":"Test User","email":"test@ntari.org","location":"KY","role":"farmer"}'

- V Should return User federated or User already exists
- X Fails if server not bound, route not defined, or key mismatch

\nearrow 4. Verify Health Endpoint from Backend $\mathscr O$

1 bash

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curl http://18.234.49.114:3000/health

• Confirms if server is live and routes load before .listen()

■ RECOMMENDATIONS *②*

Area	Fix	
PM2 Debugging	Run node server.js manually to isolate crash causes before using pm2 again	
Logs	Always check both stdout and stderr logs with pm2 logs	
CORS	Registry CORS is correctly limited to https://www.ntari.org 🗸	
Routes Order	Ensure app.use("/federation", federationRoutes) comes before authMiddleware	
Crash Recovery	Use pm2 delete all before restarting if stuck in error loop	

▼ TL;DR: Are All Critical Integrations Working?

Integration	Status	Action
Wix ↔ Backend Node (API)	V	All frontend → backend calls working
Backend Node ↔ Registry Node	×	Federation sync blocked — fix Registry binding
Registry Federation Services	×	Port 3000 unreachable — binding or firewall issue