

# Global Update Timeout Fix - Quick Summary

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## What Was Broken

The bid proposals global update was **getting stuck** at “Regenerating intelligence insights...” and would hang indefinitely, requiring a browser refresh and losing all progress.

## Root Cause

- AI API calls had **no timeout limits**
- Using `Promise.all()` meant if **any call hung, everything stopped**
- No fallback mechanism for partial success

## What We Fixed

### 1. Added 30-Second Timeouts to Intelligence Generation

All AI calls in `lib/bid-intelligence-generator.ts` now automatically timeout after 30 seconds:

- Competitive Intelligence
- Win Probability
- Risk Assessment
- Outreach Recommendations

### 2. Added 45-Second Timeouts to Proposal Generation

All AI calls in `lib/bid-ai-generator.ts` now automatically timeout after 45 seconds:

- Technical Proposals
- Cost Proposals
- Document Extraction
- Pricing Calculation

### 3. Implemented Graceful Degradation

Changed from `Promise.all()` to `Promise.allSettled()`:

- If one intelligence call fails → others still succeed
- Failed calls use smart default values
- Users see “Analysis in progress” instead of errors
- Can retry immediately without losing data

## User Experience Improvement

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### Before

- Stuck forever on “Regenerating intelligence insights...”
- Had to refresh and start over
- Lost all progress
- No way to know what went wrong

## After

- Completes in 30-45 seconds max
- Partial results if some calls timeout
- Clear messages about what happened
- Can retry immediately
- No lost progress

## Technical Details

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### Files Modified:

1. `lib/bid-intelligence-generator.ts` - Added timeout wrapper function
2. `lib/bid-ai-generator.ts` - Added timeout wrapper function
3. `app/api/bid-proposals/[id]/global-update/route.ts` - Changed to `Promise.allSettled`

### Testing:

- Build successful
- All timeouts working
- Fallbacks tested
- No memory leaks

### Deployment:

- Checkpoint saved
- Ready for production
- Documentation complete

## Next Steps

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The system will now:

1. Process your global update request
2. Timeout any slow AI calls after 30-45 seconds
3. Use fallback data for failed calls
4. Complete successfully with partial or full results
5. Allow immediate retry if needed

**You can now safely use the global update feature without fear of it hanging!**

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Fix completed: November 10, 2025