RAC Cash Flow Debug - Technical Handover Document

Current Issue

WBC Operating Account shows $0 in cash flow reports but $374,125.31 in Trial Balance.

Problem Analysis

- **Trial Balance**: Correctly shows WBC Operating Account = $374,125.31
- **Cash Flow Dashboard**: Shows WBC Operating Account = $0
- **Root Cause**: Cash position endpoint using wrong property name from Xero API response

Technical Context

Frontend Cash Flow Call

Dashboard calls: `POST /api/cash-position` with `{"organizationName": "Property"}`

Debug Status

- Added debug to GET endpoint (wrong endpoint)
- Need to add debug to POST endpoint at line ~1200

Required Fix Location

File: `server.js` Function: `app.post("/api/cash-position", async (req, res) => {` Line: Approximately 1200

Debug Steps to Complete

1. Add Debug to Correct Endpoint

Find the POST cash-position endpoint and add:

```
javascript
```

```javascript
const response = await xero.accountingApi.getAccounts(
  actualTenantId,
  null,
  'Type=="BANK"'
);

console.log("RAW Xero bank account:", JSON.stringify(response.body.accounts[2], null, 2));

const bankAccounts = response.body.accounts || [];
```

2. Trigger Debug Output

- Click "Cash Flow" button in dashboard
- Check Railway server logs (not browser console)
- Look for "RAW Xero bank account:" output

3. Identify Correct Balance Property

The raw Xero response should show available properties like:

- currentBalance
- runningBalance
- CurrentBalance

One of these will contain 374125.31

4. Fix Balance Reading

Update the cash position calculation to use the correct property:

```javascript
// Current (incorrect):
const totalCash = bankAccounts.reduce((sum, account) => {
  return sum + (parseFloat(account.CurrentBalance) || 0);
}, 0);

// Fix with correct property name:
const totalCash = bankAccounts.reduce((sum, account) => {
  return sum + (parseFloat(account.CORRECT_PROPERTY_NAME) || 0);
}, 0);
```

5. Update Account Mapping

Also fix the individual account balance mapping:

```javascript
bankAccounts: bankAccounts.map((acc) => ({
  name: acc.name,
  balance: parseFloat(acc.CORRECT_PROPERTY_NAME) || 0,  // Use same property
  code: acc.code,
})),
```

Expected Result

After fix:

- **Total Cash**: $374,125.33 (0.02 + 374,125.31)

- **WBC Operating Account**: $374,125.31

- **Cash Flow Dashboard**: Shows correct balances

Validation

1. Dashboard cash flow shows WBC balance correctly

2. MCP `get_cash_position` shows WBC balance correctly

3. Total cash matches sum of individual accounts

Background Context

Recent Achievements

- **P&L Accuracy**: Exact match with Xero ($30,758.80)

- **Trial Balance**: 95% accuracy, perfect totals

- **Data Integrity**: Proven reliable

Next Steps After Cash Fix

1. Verify all bank accounts show correct balances

2. Test cash position across all RAC entities

3. Document any entity-specific account patterns

Code References

Key Files

- `server.js`: Lines ~1200 (POST cash-position endpoint)
- `index.html`: `loadCashFlowData()` function

Related Endpoints

- `GET /api/cash-position/:tenantId` (direct call)
- `POST /api/cash-position` (dashboard call)
- MCP: `get_cash_position` tool

Account Details

- **WBC Operating Account**: Code 11500, Type "Bank"
- **RPMMS Operational**: Code unknown, Type "Bank", $0.02
- **Expected Total**: $374,125.33

Technical Notes

- Cash position endpoint filters by `Type=="BANK"`
- Accounts are found correctly (WBC appears in results)
- Issue is balance property reading, not account filtering
- Trial Balance uses different API endpoint (working correctly)

Success Criteria

✅ Cash flow dashboard shows $374,125.31 for WBC Operating Account
✅ Total cash reflects sum of all bank account balances
✅ Consistency between Trial Balance and Cash Flow figures