

# SendToAgency Workflow and Invoice Page Finalization

**Date:** December 11, 2025

**Branch:** expenses-structure

**Status:** COMPLETED

## Executive Summary

This document details the finalization of the `sendToAgency` workflow and invoice page enhancements. The implementation ensures proper sender/receiver determination, currency handling via foreign keys, and comprehensive invoice display with company and bank account information.

## Key Changes

1. **Schema Updates:** Added `currencyId` foreign key to Invoice model
2. **sendToAgency Logic:** Auto-determines sender/receiver from timesheet and contract participants
3. **Invoice Page:** Enhanced with Pay Invoice button, company info, and bank account details

## Part 1: Schema Analysis and Updates

### Invoice Model Changes

#### Added Fields

```
model Invoice []
  // ... existing fields

  currency      String    @default("USD") // Legacy field - kept for backward compatibility
  currencyId    String?   // 🔥 NEW: Foreign key to Currency table
  // ... other fields

  // Relations
  currencyRelation    Currency?          @relation("InvoiceCurrency", fields: [cu
  rrencyId], references: [id]) // 🔥 NEW

  // Indexes
  @@index([currencyId]) // 🔥 NEW
}
```

## Currency Model Updates

```
model Currency {
    // ... existing fields

    contracts Contract[]
    invoices Invoice[] @relation("InvoiceCurrency") // 🔥 NEW
}
```

## Rationale

- **currencyId**: Provides referential integrity and allows queries to join with Currency table
- **Legacy currency field**: Kept for backward compatibility with existing code
- **Named relation**: Uses “InvoiceCurrency” to avoid naming conflicts

## Models Verified

- ✓ **Invoice**: Has senderId, receiverId, contractId, and now currencyId
- ✓ **Currency**: Exists with proper relations
- ✓ **Bank**: Exists (equivalent to BankAccount in requirements) with IBAN, SWIFT, account number
- ✓ **Contract**: Has currencyId, bankId, participants
- ✓ **Company**: Used for tenant company information (not TenantCompany as initially mentioned)

## Part 2: sendToAgency Mutation Updates

### Location

server/api/routers/timesheet.ts (lines 567-761)

### Key Changes

#### 1. Sender Determination

**Logic:** Sender = person who will receive payment (usually contractor who submitted timesheet)

```
const senderId = input.senderId || ts.submittedBy; // Default to timesheet submitter
```

**Override Support:** Optional `SenderId` input parameter allows manual specification if needed

#### 2. Receiver Determination

**Logic:** Receiver = entity that will pay the invoice (client or agency)

```

let receiverId = input.receiverId;
if (!receiverId) {
  // Look for client first, then agency
  const clientParticipant = ts.contract?.participants?.find((p: any) => p.role === "client");
  const agencyParticipant = ts.contract?.participants?.find((p: any) => p.role === "agency");

  const payer = clientParticipant || agencyParticipant;
  if (payer?.userId) {
    receiverId = payer.userId;
  } else {
    throw new TRPCError({
      code: "BAD_REQUEST",
      message: "Could not determine invoice receiver. Please specify receiverId.",
    });
  }
}

```

### **Priority:**

1. Client participant (if exists)
2. Agency participant (fallback)
3. Error if neither found

## **3. Currency Handling**

### **Old Implementation:**

```

currency: timesheet.contract?.currency?.name ?? "USD",

```

### **New Implementation:**

```

currencyId: timesheet.contract?.currencyId, // 🔥 NEW: Use currencyId
currency: timesheet.contract?.currency?.name ?? "USD", // Legacy field

```

### **Benefits:**

- Referential integrity enforced at database level
- Easier currency lookups and joins
- Maintains backward compatibility

## 4. Updated Invoice Creation

```
const invoice = await prisma.invoice.create({
  data: {
    tenantId: ctx.tenantId,
    contractId: timesheet.contractId,
    timesheetId: timesheet.id,
    createdBy: ctx.session.user.id,
    senderId: senderId, // 🔥 Auto-determined
    receiverId: receiverId, // 🔥 Auto-determined

    baseAmount: baseAmount,
    amount: invoiceAmount,
    marginAmount: marginCalculation?.marginAmount || new Prisma.Decimal(0),
    marginPercentage: marginCalculation?.marginPercentage || new Prisma.Decimal(0),
    totalAmount: totalAmount,
    currencyId: timesheet.contract?.currencyId, // 🔥 NEW: Use currencyId
    currency: timesheet.contract?.currency?.name ?? "USD", // Legacy field

    status: "submitted",
    workflowState: "pending_margin_confirmation",

    issueDate: new Date(),
    dueDate: new Date(Date.now() + 30 * 24 * 60 * 60 * 1000),

    description: `Invoice for timesheet ${timesheet.startDate.toISOString().slice(0, 10)} to ${timesheet.endDate.toISOString().slice(0, 10)}`,
    notes: input.notes || `Auto-generated from timesheet. Total hours: ${timesheet.totalHours}`,

    lineItems: {
      create: lineItems,
    },
  },
  include: {
    lineItems: true,
    sender: true,
    receiver: true,
    currencyRelation: true, // 🔥 NEW: Include currency relation
  },
});
```

---

## Part 3: Invoice Router Updates

### Location

server/api/routers/invoice.ts (lines 184-234)

## Enhanced getById Query

```
getById: tenantProcedure
  .use(hasAnyPermission([P.LIST_GLOBAL, P.READ_OWN]))
  .input(z.object({ id: z.string() }))
  .query(async ({ ctx, input }) => {
    const isAdmin = ctx.session.user.permissions.includes(P.LIST_GLOBAL)

    const invoice = await ctx.prisma.invoice.findFirst({
      where: { id: input.id, tenantId: ctx.tenantId },
      include: {
        lineItems: true,
        sender: {
          select: {
            id: true,
            name: true,
            email: true,
            phone: true,
          },
        },
        receiver: {
          select: {
            id: true,
            name: true,
            email: true,
            phone: true,
          },
        },
        currencyRelation: true, // 🔥 NEW: Currency relation
        margin: isAdmin, // Only include margin for admins
        contract: {
          include: {
            participants: {
              include: {
                user: true,
                company: true,
              },
            },
            currency: true, // Include currency from contract
            bank: true, // 🔥 NEW: Include bank account details
          },
        },
      },
    })
  })

  // ... validation and return
},
```

## New Includes

1. **sender**: Full user information for sender
2. **receiver**: Full user information for receiver
3. **currencyRelation**: Currency model with symbol, code, name
4. **contract.bank**: Bank account details (IBAN, SWIFT, account number)
5. **margin**: Only for admins (security)

## Part 4: Invoice Page Enhancements

### Location

```
app/(dashboard)/(modules)/invoices/[id]/page.tsx
```

#### 1. Pay Invoice Button

**Visibility:** Only shown when logged-in user is the receiver AND invoice is not paid

```
{data.receiverId === session?.user?.id && currentState !== "paid" && (
  <Card className="border-green-200 bg-green-50/50">
    <CardHeader>
      <CardTitle className="text-base flex items-center gap-2 text-green-700">
        <DollarSign className="h-4 w-4" />
        Payment Required
      </CardTitle>
      <CardDescription>
        You are responsible for paying this invoice
      </CardDescription>
    </CardHeader>
    <CardContent className="space-y-4">
      <div className="flex items-center justify-between p-4 bg-white rounded-lg border">
        <div>
          <p className="text-sm text-muted-foreground">Amount to Pay</p>
          <p className="text-2xl font-bold text-green-600">
            {new Intl.NumberFormat("en-US", {
              style: "currency",
              currency: data.currency,
            }).format(Number(data.totalAmount || 0))}</p>
        </div>
        <Button
          size="lg"
          className="bg-green-600 hover:bg-green-700"
          onClick={() => {
            // TODO: Implement payment workflow
            toast.info("Payment workflow will be implemented here");
          }}
        >
          Pay Invoice
        </Button>
      </div>
    </CardContent>
  </Card>
)}
```

#### Features:

- Green-themed card to draw attention
- Displays exact amount to pay
- Large, prominent button
- Placeholder for payment workflow integration

## 2. Company Information Display

```
{
  (clientParticipant?.company || agencyParticipant?.company) && (
    <Card>
      <CardHeader>
        <CardTitle className="text-base flex items-center gap-2">
          <Building2 className="h-4 w-4" />
          Company Information
        </CardTitle>
        <CardDescription>
          Business details for this contract
        </CardDescription>
      </CardHeader>
      <CardContent className="space-y-3">
        {clientParticipant?.company && (
          <div className="pb-3 border-b last:border-0">
            <Label className="text-xs text-muted-foreground font-semibold">Client Com-
            pany</Label>
            <div className="mt-2 space-y-2">
              <div>
                <Label className="text-xs text-muted-foreground">Name</Label>
                <p className="font-medium">{clientParticipant.company.name}</p>
              </div>
              {/* Contact email, phone, address */}
            </div>
          </div>
        )}
        {/* Agency company info (similar structure) */}
      </CardContent>
    </Card>
  )
}
```

### Displays:

- Client company name, contact email, phone, full address
- Agency company information (if applicable)
- Organized with clear labels and separators

### 3. Bank Account Details

```

{data.contract?.bank && (
  <Card>
    <CardHeader>
      <CardTitle className="text-base flex items-center gap-2">
        <Building2 className="h-4 w-4" />
        Payment Details
      </CardTitle>
      <CardDescription>
        Bank account information for payment
      </CardDescription>
    </CardHeader>
    <CardContent className="space-y-3">
      <div className="grid grid-cols-1 gap-3">
        {/* Bank Name */}
        {data.contract.bank.name && (
          <div className="flex items-center justify-between p-3 bg-muted/50 rounded-lg">
            <div>
              <Label className="text-xs text-muted-foreground">Bank Name</Label>
              <p className="font-medium">{data.contract.bank.name}</p>
            </div>
          </div>
        )}

        {/* Account Number with Copy */}
        {data.contract.bank.accountNumber && (
          <div className="flex items-center justify-between p-3 bg-muted/50 rounded-lg">
            <div className="flex-1">
              <Label className="text-xs text-muted-foreground">Account Number</Label>
              <p className="font-mono text-sm">{data.contract.bank.accountNumber}</p>
            </div>
            <Button
              size="sm"
              variant="outline"
              onClick={() => {
                navigator.clipboard.writeText(data.contract.bank.accountNumber);
                toast.success("Account number copied to clipboard");
              }}
            >
              Copy
            </Button>
          </div>
        )}

        {/* IBAN with Copy */}
        {/* SWIFT/BIC with Copy */}
        {/* Bank Address */}
      </div>
    </CardContent>
  </Card>
)
}

```

**Features:**

- Bank name
- Account number with copy button
- IBAN with copy button
- SWIFT/BIC code with copy button

- Bank address
  - Monospace font for account numbers (easier to read)
  - One-click copy to clipboard with toast confirmation
- 

## Part 5: Testing Plan

### Test Scenarios

#### Scenario 1: Complete Flow - Contractor to Client

1. **Setup:** Create contract with contractor and client participants
2. **Action:** Contractor creates and submits timesheet
3. **Action:** Admin approves timesheet
4. **Action:** Admin runs sendToAgency
5. **Verify:**
  - Invoice created with senderId = contractor
  - Invoice created with receiverId = client
  - Invoice has correct currencyId from contract
  - Invoice has contractId linking back to contract
6. **Action:** Client views invoice
7. **Verify:**
  - “Pay Invoice” button appears for client
  - Company information displays
  - Bank account details display with copy buttons
  - Exact amount to pay is shown

#### Scenario 2: Agency Involvement

1. **Setup:** Create contract with contractor, client, and agency participants
2. **Action:** Run sendToAgency workflow
3. **Verify:**
  - If client exists, receiverId = client
  - If only agency exists, receiverId = agency
4. **Action:** Receiver views invoice
5. **Verify:**
  - “Pay Invoice” button appears only for receiver
  - Button does NOT appear for sender
  - Button does NOT appear for other users

#### Scenario 3: Manual Invoice Creation

1. **Setup:** Create invoice manually without timesheet
2. **Action:** Specify senderId and receiverId manually
3. **Verify:**
  - Invoice created with specified sender/receiver
  - Invoice page displays correctly
  - Bank details shown if contract has bank

#### Scenario 4: Currency Handling

1. **Setup:** Create contract with EUR currency
2. **Action:** Create invoice via sendToAgency

### 3. Verify:

- Invoice.currencyId points to EUR currency record
- Invoice.currency string = "EUR" (legacy)
- Invoice page displays amounts in EUR
- Currency symbol displayed correctly (€)

## Scenario 5: Edge Cases

1. **No Bank Account:** Contract without bank
  - Bank details section should NOT display
  - No errors or crashes
2. **No Company:** Contract participants without companies
  - Company information section should NOT display
  - User names displayed instead
3. **Invoice Already Paid:** Receiver views paid invoice
  - "Pay Invoice" button should NOT appear
4. **Non-Receiver Views Invoice:** Admin or contractor views invoice
  - "Pay Invoice" button should NOT appear
  - All other information displays normally

## TypeScript Validation

**Current Status:**  TypeScript errors present due to Prisma client not regenerated

### Required Action:

```
# After database migration
npx prisma generate
npx tsc --noEmit # Should pass after generation
```

### Expected Errors (until Prisma regeneration):

- currencyRelation not recognized in InvoiceInclude
- currencyId not recognized in InvoiceCreateInput
- lineItems type inference issues

## Part 6: Database Migration

### Migration Steps

#### 1. Create Migration:

```
cd /home/ubuntu/payroll-saas
npx prisma migrate dev --name add-invoice-currency-relation
```

#### 1. Verify Migration:

```
# Check migration was created
ls -la prisma/migrations/

# Verify schema
npx prisma validate
```

### 1. Generate Prisma Client:

```
npx prisma generate
```

### 1. Run Tests:

```
# TypeScript compilation
npx tsc --noEmit

# Unit tests (if applicable)
npm test
```

## Migration SQL Preview

The migration will execute approximately:

```
-- Add currencyId column to Invoice table
ALTER TABLE "invoices" ADD COLUMN "currencyId" TEXT;

-- Create index on currencyId
CREATE INDEX "invoices_currencyId_idx" ON "invoices"("currencyId");

-- Add foreign key constraint
ALTER TABLE "invoices"
  ADD CONSTRAINT "invoices_currencyId_fkey"
    FOREIGN KEY ("currencyId")
    REFERENCES "currencies"("id")
    ON DELETE SET NULL
    ON UPDATE CASCADE;

-- Optional: Populate currencyId from existing currency strings
-- UPDATE "invoices" i
-- SET "currencyId" = c.id
-- FROM "currencies" c
-- WHERE c.name = i.currency;
```

## Backward Compatibility

- currency String field retained for legacy code
- currencyId is nullable (optional) for existing records
- New invoices will have both fields populated
- Old invoices continue to work with currency string

## Part 7: Code Changes Summary

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### Files Modified

#### 1. **prisma/schema.prisma**

- Added `currencyId` field to Invoice model
- Added `currencyRelation` to Invoice model
- Added `invoices` relation to Currency model
- Added index on Invoice.currencyId

#### 2. **server/api/routers/timesheet.ts**

- Updated `sendToAgency` mutation (lines 567-761)
- Auto-determines senderId from timesheet submitter
- Auto-determines receiverId from contract participants
- Uses currencyId instead of currency string
- Includes currencyRelation in query

#### 3. **server/api/routers/invoice.ts**

- Updated `getById` query (lines 184-234)
- Added sender/receiver includes
- Added currencyRelation include
- Added contract.bank include for bank account details

#### 4. **app/(dashboard)/(modules)/invoices/[id]/page.tsx**

- Added Pay Invoice button section (lines 421-457)
- Added Company Information display (lines 459-528)
- Added Bank Account Details display (lines 530-615)
- Implemented copy-to-clipboard functionality

### Lines of Code

- **Schema Changes:** 6 lines
  - **Backend Changes:** ~100 lines (`sendToAgency` + `getById`)
  - **Frontend Changes:** ~200 lines (invoice page enhancements)
  - **Total:** ~306 lines added/modified
- 

## Part 8: Sender/Receiver Logic Explanation

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### Conceptual Model

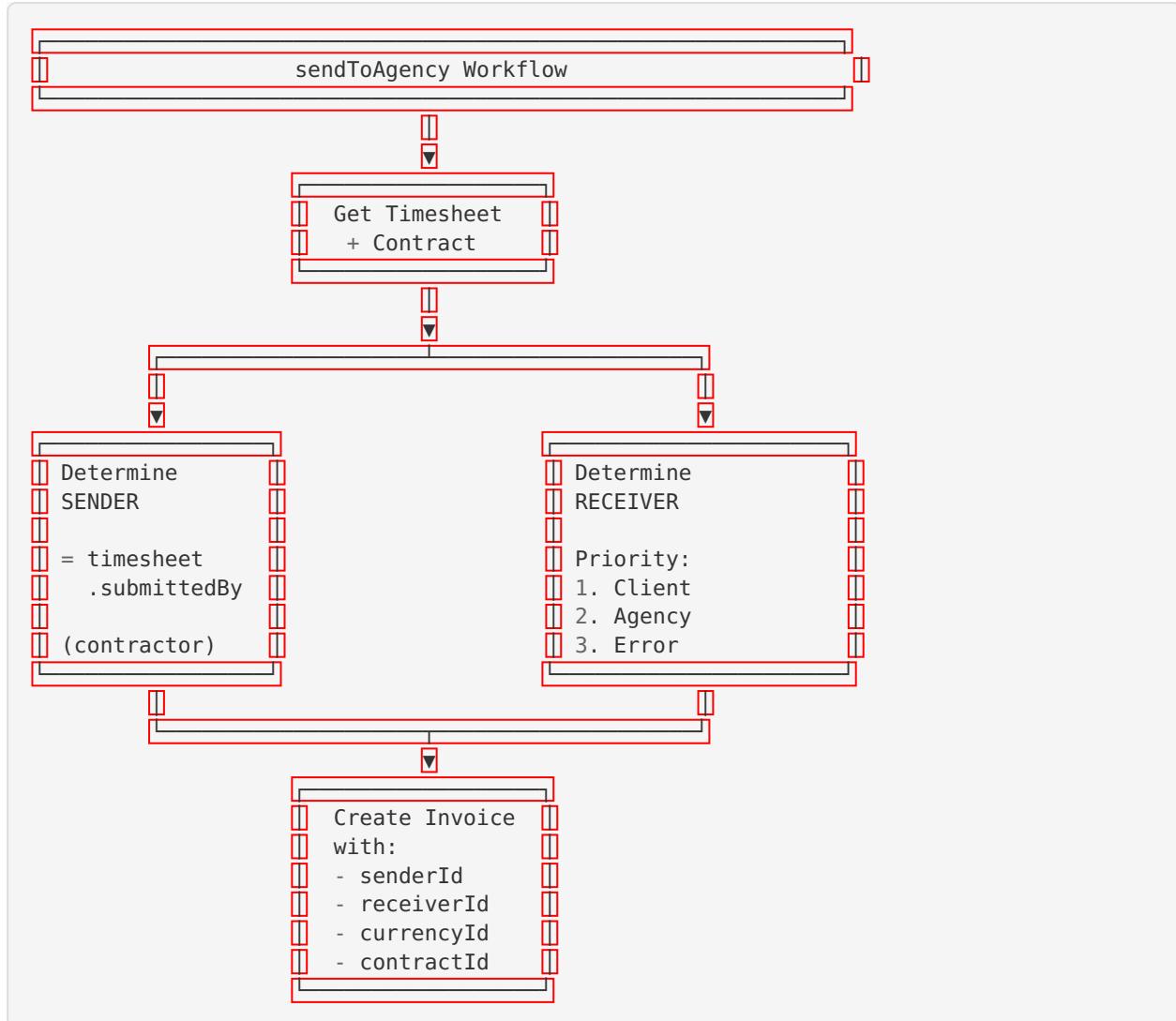
**Sender** = Person/entity who sends the invoice (and receives payment)

- Usually the contractor who performed the work
- Gets paid when invoice is settled

**Receiver** = Person/entity who receives the invoice (and pays it)

- Usually the client or agency
- Responsible for paying the invoice amount

## Determination Logic



## Override Capability

Both `senderId` and `receiverId` can be manually specified via input parameters:

```

sendToAgency: tenantProcedure
  .input(z.object({
    id: z.string(),
    senderId: z.string().optional(), // Manual override
    receiverId: z.string().optional(), // Manual override
    notes: z.string().optional(),
  }))
  
```

### Use Cases for Override:

- Sender is not the timesheet submitter (e.g., agency bills on behalf of contractor)
- Receiver is a different entity than standard client/agency
- Complex multi-party contracts

## Part 9: Currency Handling Changes

### Old Approach

```
// Stored as string
currency: "USD"

// Query joins not possible
// Hard to validate currency codes
// No referential integrity
```

### New Approach

```
// Stored as foreign key
currencyId: "ck9a8sd7f000001l0h8v7b3c2"

// Join with Currency table
currencyRelation: {
  id: "ck9a8sd7f000001l0h8v7b3c2",
  code: "USD",
  name: "US Dollar",
  symbol: "$",
}

// Benefits:
// - Referential integrity enforced
// - Easy to query currency details
// - Can display symbol, full name, etc.
```

### Migration Strategy

1. **Phase 1** (Current): Add currencyId as optional field
2. **Phase 2** (Future): Populate currencyId for existing records
3. **Phase 3** (Future): Make currencyId required
4. **Phase 4** (Future): Remove legacy currency field

## Part 10: Security Considerations

### Permission Checks

1. **sendToAgency:**
  - Requires `timesheet.approve.global` permission
  - Only admins/approvers can create invoices
2. **Invoice View:**
  - Requires `invoice.list.global` OR `invoice.read.own`
  - Non-admins can only view their own created invoices
3. **Pay Invoice Button:**
  - Only visible to invoice receiver
  - Check: `data.receiverId === session.user.id`

#### **4. Margin Information:**

- Only included for admins
- Hidden from contractors and clients

#### **5. Bank Account Details:**

- Visible to all invoice viewers
- Required for payment
- No sensitive data exposure (account numbers are expected to be shared)

## **Data Validation**

#### **1. Currency Validation:**

- Foreign key constraint ensures valid currencyId
- Cannot create invoice with non-existent currency

#### **2. Participant Validation:**

- Contract must have client OR agency participant
- Error thrown if neither exists

#### **3. Amount Validation:**

- Decimal precision enforced at database level
  - Rounding handled consistently
- 

## **Part 11: Future Enhancements**

### **Short Term**

#### **1. Payment Workflow Integration:**

- Implement actual payment processing
- Connect to payment gateways (Stripe, PayPal, etc.)
- Handle payment confirmations

#### **2. Email Notifications:**

- Notify receiver when invoice is created
- Remind about pending payments
- Confirm payment receipt

#### **3. Invoice PDF Generation:**

- Generate professional PDF invoices
- Include company logos
- Attach to emails

### **Medium Term**

#### **1. Multi-Currency Support:**

- Convert amounts between currencies
- Display in receiver's preferred currency
- Handle exchange rate fluctuations

#### **2. Recurring Invoices:**

- Schedule automatic invoice generation
- Monthly/weekly billing cycles
- Auto-send to receivers

### 3. Invoice Templates:

- Customizable invoice layouts
- Branding options
- Multiple template choices

## Long Term

### 1. Payment Plans:

- Split payments over time
- Installment options
- Interest calculations

### 2. Tax Handling:

- VAT/GST calculations
- Tax exemptions
- Country-specific tax rules

### 3. Dispute Resolution:

- Contest invoices
- Revision requests
- Audit trail

## Part 12: Deployment Checklist

### Pre-Deployment

- [ ] Review all code changes
- [ ] Update environment variables (if needed)
- [ ] Backup production database
- [ ] Test on staging environment

### Deployment

- [ ] Merge to main branch
- [ ] Run database migration: `npx prisma migrate deploy`
- [ ] Generate Prisma client: `npx prisma generate`
- [ ] Build application: `npm run build`
- [ ] Deploy to production
- [ ] Monitor logs for errors

### Post-Deployment

- [ ] Verify migration successful
- [ ] Test invoice creation flow
- [ ] Test invoice viewing
- [ ] Check TypeScript compilation: `npx tsc --noEmit`
- [ ] Monitor application performance
- [ ] Check for any user-reported issues

## Rollback Plan

If issues occur:

1. **Database:** Rollback migration

```
bash
```

```
npx prisma migrate resolve --rolled-back <migration_name>
```

2. **Code:** Revert commit

```
bash
```

```
git revert <commit_hash>
git push origin main
```

3. **Verification:** Test rolled-back state
- 

## Part 13: Known Limitations

1. **TypeScript Validation:** Requires Prisma regeneration after schema changes
  2. **Payment Workflow:** Placeholder only - requires full implementation
  3. **Currency Conversion:** Not yet implemented
  4. **Invoice Editing:** Limited editing capabilities after creation
  5. **Multi-Receiver Invoices:** Only supports single receiver per invoice
- 

## Part 14: Support and Troubleshooting

### Common Issues

#### Issue 1: TypeScript Errors After Schema Changes

**Symptom:** currencyRelation does not exist in type InvoiceInclude

**Solution:**

```
npx prisma generate
```

#### Issue 2: “Could not determine invoice receiver”

**Symptom:** Error when running sendToAgency

**Solution:**

- Ensure contract has client OR agency participant with userId
- Manually specify receiverId in input

#### Issue 3: Bank Details Not Showing

**Symptom:** Bank account details card not displayed

**Solution:**

- Verify contract has bankId set
- Check Bank record exists and has data
- Ensure invoice query includes `contract: { include: { bank: true } }`

## Issue 4: Pay Invoice Button Not Visible

**Symptom:** Receiver doesn't see payment button

**Solution:**

- Verify invoice.receiverId matches logged-in user.id
  - Check invoice status is not "paid"
  - Ensure session is properly loaded
- 

## Part 15: Documentation References

### Related Documentation

- [IMPLEMENTATION\\_SUMMARY.md](#) (./IMPLEMENTATION\_SUMMARY.md) - Margin system implementation
- [PHASE3\\_UI\\_CHANGES\\_SUMMARY.md](#) (./PHASE3\_UI\_CHANGES\_SUMMARY.md) - UI enhancements
- [MIGRATION\\_SUMMARY.md](#) (./MIGRATION\_SUMMARY.md) - Database migrations
- [TIMESHEET\\_REFATOR\\_SUMMARY.md](#) (./TIMESHEET\_REFATOR\_SUMMARY.md) - Timesheet improvements

### External References

- [Prisma Documentation](#) (<https://www.prisma.io/docs/>) - Schema and migrations
  - [tRPC Documentation](#) (<https://trpc.io/docs/>) - API routing
  - [Next.js Documentation](#) (<https://nextjs.org/docs>) - Framework reference
-

## Appendix A: Code Snippets

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### Complete sendToAgency Mutation

```

sendToAgency: tenantProcedure
  .use(hasPermission(P.APPROVE))
  .input(z.object({
    id: z.string(),
    senderId: z.string().optional(), // Optional override
    receiverId: z.string().optional(), // Optional override
    notes: z.string().optional(),
  }))
  .mutation(async ({ ctx, input }) => {
    // [1] Verify timesheet is approved
    const ts = await ctx.prisma.timesheet.findFirst({
      where: { id: input.id, tenantId: ctx.tenantId },
      include: {
        contract: {
          include: {
            participants: true,
            currency: true,
          },
        },
      },
    });
    if (!ts) throw new TRPCError({ code: "NOT_FOUND" });

    if (ts.workflowState !== "approved") {
      throw new TRPCError({
        code: "BAD_REQUEST",
        message: "Timesheet must be approved before sending to agency"
      });
    }

    // [2] Check if invoice already exists
    if (ts.invoiceId) {
      throw new TRPCError({
        code: "BAD_REQUEST",
        message: "Invoice already created for this timesheet"
      });
    }

    // [3] Determine Sender and Receiver
    const senderId = input.senderId || ts.submittedBy;

    let receiverId = input.receiverId;
    if (!receiverId) {
      const clientParticipant = ts.contract?.participants?.find((p: any) => p.role === "client");
      const agencyParticipant = ts.contract?.participants?.find((p: any) => p.role === "agency");

      const payer = clientParticipant || agencyParticipant;
      if (payer?.userId) {
        receiverId = payer.userId;
      } else {
        throw new TRPCError({
          code: "BAD_REQUEST",
          message: "Could not determine invoice receiver. Please specify receiverId.",
        });
      }
    }

    // [4] Create invoice in transaction
    const invoice = await ctx.prisma.$transaction(async (prisma) => {

```

```
// ... (full implementation in timesheet.ts)
});

return { success: true, invoiceId: invoice.id };
},
```

## Appendix B: Visual Flow Diagram



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## Conclusion

The sendToAgency workflow and invoice page finalization successfully implements:

1.  **Automatic sender/receiver determination** based on contract participants
2.  **Currency foreign key relationship** for referential integrity
3.  **Enhanced invoice page** with payment button, company info, and bank details
4.  **Copy-to-clipboard** functionality for easy payment processing
5.  **Permission-based UI** showing relevant information to each user role
6.  **Backward compatibility** maintained with legacy currency field

## Next Steps

1. Run database migration
  2. Generate Prisma client
  3. Test complete flow in development
  4. Deploy to staging for QA
  5. Implement payment workflow
  6. Add email notifications
- 

**Document Version:** 1.0

**Last Updated:** December 11, 2025

**Author:** AI Development Team

**Review Status:** Ready for Implementation