

# GitHub Push Success Report - STUNIR Semantic IR Implementation

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## Push Status: SUCCESS

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**Date:** January 31, 2026

**Repository:** emstar-en/STUNIR

**Branch:** devsite

**Commits Pushed:** 2

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## Summary

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Successfully removed the workflow file from commits and pushed Phase 1 and Phase 2 Semantic IR changes to GitHub. The workflow file was excluded due to GitHub App permission limitations and must be added manually via the GitHub web interface.

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## Commit URLs

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### Phase 1: Schema Design & Validation

- **Commit:** `ed6a4e3` (Phase 1 Complete: Semantic IR Schema Design & Validation)
- **URL:** <https://github.com/emstar-en/STUNIR/commit/ed6a4e3>
- **Files Changed:** 77 files
- **Additions:** +7,635 lines
- **Deletions:** -1 line

#### Key Additions:

- Semantic IR JSON schemas (8 files in `schemas/semantic_ir/` )
- Python implementation (8 files in `tools/semantic_ir/` )
- Ada SPARK implementation (10 files in `tools/spark/src/semantic_ir/` )
- Rust implementation (8 files in `tools/rust/semantic_ir/` )
- Haskell implementation (7 files in `tools/haskell/src/STUNIR/SemanticIR/` )
- Test suite (6 files in `tests/semantic_ir/` )
- Example IR files (5 files in `examples/semantic_ir/` )
- Documentation (8 PDF and Markdown files)

### Phase 2: Parser Implementation

- **Commit:** `017be57` (Phase 2: Complete Semantic IR Parser Implementation)
- **URL:** <https://github.com/emstar-en/STUNIR/commit/017be57>
- **Files Changed:** 58 files
- **Additions:** +8,563 lines
- **Deletions:** -464 lines

**Key Additions:**

- Semantic IR parser ( `tools/semantic_ir/parser.py` )
- Updated schemas and implementations across all languages
- Enhanced documentation and examples
- Updated test suite

## Workflow File Management

### File Removed from Commits

- **Original Path:** `.github/workflows/semantic_ir_validation.yml`
- **Reason:** GitHub App lacks workflows permission (cannot be changed by users)
- **Solution:** Manual addition via GitHub web interface

### Backup Locations

1. **Repository Root:** `WORKFLOW_FILE_FOR_MANUAL_ADDITION.yml`
  - Ready-to-use copy with header comments explaining the situation
2. **External Backup:** `/home/ubuntu/stunir_workflow_backup/semantic_ir_validation.yml`
  - Original file preserved for reference



## Manual Workflow Addition Instructions

### Quick Steps (Recommended Method)

1. **Navigate to GitHub**
  - Go to: `https://github.com/emstar-en/STUNIR`
  - Switch to branch: `devsite`
2. **Navigate to Workflows Folder**
  - Click: `.github` → `workflows`
3. **Create New File**
  - Click “Add file” → “Create new file”
  - Filename: `semantic_ir_validation.yml`
4. **Copy Content**
  - Open `WORKFLOW_FILE_FOR_MANUAL_ADDITION.yml` from the repository
  - Copy content starting from line 7 (skip header comments)
  - Paste into GitHub editor
5. **Commit**
  - Message: `Add Semantic IR validation workflow`
  - Commit directly to `devsite` branch

### Detailed Instructions

See: `MANUAL_WORKFLOW_ADDITION_INSTRUCTIONS.md` for comprehensive guide

## Verification Results

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### ✓ Workflow File Removed

- Verified in Phase 1 commit (ed6a4e3): ✓ No `semantic_ir_validation.yml`
- Verified in Phase 2 commit (017be57): ✓ No `semantic_ir_validation.yml`

### ✓ All Other Changes Preserved

- Phase 1: 77 files (originally 78, minus workflow file)
- Phase 2: 58 files (all preserved)
- Key files verified:
  - ✓ Schemas: `schemas/semantic_ir/*.json` (8 files)
  - ✓ Python tools: `tools/semantic_ir/*.py` (9 files)
  - ✓ SPARK sources: `tools/spark/src/semantic_ir/*.ads/adb` (10 files)
  - ✓ Rust sources: `tools/rust/semantic_ir/src/*.rs` (8 files)
  - ✓ Haskell sources: `tools/haskell/src/STUNIR/SemanticIR/*.hs` (7 files)
  - ✓ Tests: `tests/semantic_ir/*.py` (6 files)
  - ✓ Examples: `examples/semantic_ir/*.json` (5 files)

### ✓ Push Successful

To <https://github.com/emstar-en/STUNIR.git>  
 2ae8dce..017be57 devsite -> devsite

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## Workflow File Overview

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The Semantic IR validation workflow provides comprehensive CI/CD validation:

### Jobs

1. **Python Validation** - pytest, coverage, example validation
2. **Rust Validation** - cargo check, cargo test
3. **Schema Validation** - JSON schema validation
4. **Ada SPARK Validation** - GNAT compilation checks
5. **Haskell Validation** - cabal build checks
6. **Integration Tests** - Round-trip serialization tests
7. **Report Generation** - Validation report artifacts

### Triggers

- **Push** to: main, develop, devsite
  - **Pull Request** to: main, develop, devsite
  - **Paths**: Changes to Semantic IR files only
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## Next Steps

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### 1. Add Workflow File

- Follow instructions in `MANUAL_WORKFLOW_ADDITION_INSTRUCTIONS.md`
- Use GitHub web interface (recommended)
- Or use GitHub CLI/API with personal access token

### 2. Verify Workflow

- Check: <https://github.com/emstar-en/STUNIR/actions>
- Should see “Semantic IR Validation” workflow
- May trigger automatically on next commit

### 3. Test Workflow

- Make a small change to Semantic IR files
  - Commit and push to `devsite`
  - Verify workflow runs successfully
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## File Locations

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### In Repository

- **Push Report:** `GITHUB_PUSH_SUCCESS_REPORT.md` (this file)
- **Workflow File:** `WORKFLOW_FILE_FOR_MANUAL_ADDITION.yml`
- **Instructions:** `MANUAL_WORKFLOW_ADDITION_INSTRUCTIONS.md`
- **Phase 1 Report:** `PHASE_1_COMPLETION_REPORT.md`
- **Phase 2 Report:** `PHASE_2_COMPLETION_REPORT.md`

### External Backups

- **Workflow Backup:** `/home/ubuntu/stunir_workflow_backup/semantic_ir_validation.yml`
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## Important Notes

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### GitHub App Permissions

- The Abacus.AI GitHub App lacks `workflows` permission at the app level
- This cannot be changed by individual users
- Workflows must be managed using:
  - GitHub web interface
  - Personal access tokens with `repo` and `workflow` scopes
  - GitHub CLI with appropriate permissions

### Workflow File Security

- The workflow file contains no secrets or credentials
- It uses standard GitHub Actions syntax
- All dependencies are public packages
- Safe to add manually via web interface

## Future Workflow Changes

- For future workflow modifications:
  - Edit directly on GitHub web interface, or
  - Use personal access token with workflow permissions
  - Cannot push workflow changes via Abacus.AI GitHub App
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## Troubleshooting

### If Workflow Doesn't Run

1. Check Actions tab: <https://github.com/emstar-en/STUNIR/actions>
2. Verify workflow file syntax (YAML validation)
3. Check trigger conditions (paths, branches)
4. Review workflow run logs for errors

### If Validation Fails

1. Check job logs in Actions tab
2. Common issues:
  - Missing Python dependencies
  - Schema validation errors
  - Test failures
3. Fix issues and push again


### Permission Issues

- Use personal access token for workflow management
  - Contact repository admin for org-level permissions
  - GitHub App cannot manage workflows
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## Documentation References

- **Semantic IR Schema:** `docs/SEMANTIC_IR_SCHEMA_GUIDE.md`
  - **Validation Guide:** `docs/SEMANTIC_IR_VALIDATION_GUIDE.md`
  - **Examples:** `docs/SEMANTIC_IR_EXAMPLES.md`
  - **Phase 1 Report:** `PHASE_1_COMPLETION_REPORT.md`
  - **Phase 2 Report:** `PHASE_2_COMPLETION_REPORT.md`
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## Summary

**Status:**  All changes successfully pushed to GitHub

**Commits:** 2 commits on devsite branch

**Files Changed:** 135 files total (77 in Phase 1, 58 in Phase 2)

**Lines Added:** 16,198 lines

**Lines Removed:** 465 lines

**Action Required:** Add workflow file manually via GitHub web interface

**Instructions:** See `MANUAL_WORKFLOW_ADDITION_INSTRUCTIONS.md`

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**Generated:** January 31, 2026

**Repository:** <https://github.com/emstar-en/STUNIR>

**Branch:** devsite

**Last Commit:** 017be57