

# Migration Guide: v2.x to v3.x

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This guide covers migrating from STUNIR 2.x to 3.x (future version).

**Note:** This guide is a placeholder for the future v3.0 release.

## Planned Changes for v3.0

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The following changes are planned for v3.0:

### 1. Enhanced Target Support

- WebAssembly (WASM) native support
- LLVM IR backend
- Additional assembly targets (RISC-V, MIPS)

### 2. Improved Manifest System

- Merkle tree-based manifests
- Incremental manifest updates
- Cross-reference verification

### 3. API Changes

- Python package distribution (pip installable)
- Unified CLI tool
- Configuration file support

### 4. Performance Improvements

- Parallel code generation
- Incremental builds
- Caching system

## Preparation

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To prepare for v3.0:

1. Ensure all code follows v2.x best practices
2. Use the standard spec format
3. Avoid deprecated features
4. Keep manifests up to date

## Migration Path

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Detailed migration instructions will be provided when v3.0 is released.

## Timeline

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- **v3.0-alpha:** TBD
- **v3.0-beta:** TBD

- **v3.0 stable:** TBD

## Stay Updated

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- Watch the [GitHub repository](https://github.com/stunir/stunir) (<https://github.com/stunir/stunir>)
- Subscribe to the [releases](https://github.com/stunir/stunir/releases) (<https://github.com/stunir/stunir/releases>)
- Join the [discussions](https://github.com/stunir/stunir/discussions) (<https://github.com/stunir/stunir/discussions>)