

Tool Support — output-path.js

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## §4 Tool Support

### 4.1 `output-path.js` helper

**Location:** `~/system/tools/output-path.js`

**CLI interface:**

```bash
node ~/system/tools/output-path.js resolve \
 --client alai \
 --skill task-postflight \
 --mc 99292
```

Returns: absolute path to the run directory. Creates directory (and `evidence/` subdirectory) if

**Flags:**



Flag	Required	Description
`--client`	yes	Client slug or `alai`
`--skill`	yes	Skill name or `mc-` for builder evidence
`--mc`	yes	MC task id (numeric string)
`--model`	no	Model name for provenance (default: unknown)
`--agent`	no	Agent persona name for provenance (default: unknown)



**Idempotent contract:** Given identical `--client`, `--skill`, `--mc` arguments, the tool always

**Exit codes:** `0` = success + path printed to stdout. `1` = missing required flag (error to st

### 4.2 Node.js library counterpart

```js
const { resolve } = require('~/system/tools/output-path');

const runDir = resolve({
 client: 'alai',
 skill: 'task-postflight',
 mc: '99292',
 agent: 'codecraft',
 model: 'claude-sonnet-4-6'
});
// Returns: '/Users/makinja/projects/alai/task-postflight/2026-05-05-99292-a1b2c3'
// Side effects: mkdir -p, writes .provenance.json if not present
```
```

The library is a thin wrapper around the same logic as the CLI. It does not start a subprocess.

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### 4.3 No new infrastructure
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`output-path.js` uses only Node.js built-ins (`fs`, `path`, `crypto`). No npm dependencies. No r
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