

MAKEFILE_README.md

1.0 Introduction

This Makefile drives the **C2M API V2 developer workflow**: converting **EBNF** → **OpenAPI**, integrating with **Postman** (APIs, collections, environments, mocks), generating/serving **docs**, running **tests**, and providing end-to-end **orchestration targets**.

2.0 Variables

Below are variables detected from the Makefile. Environment variables typically come from `.env` and Make variables are defined inline.

Name	Operator	Value
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<code>`VARS_OLD`</code>	<code> `:=`</code>	<code> `\$(.VARIABLES)`</code>
<code>`SHELL`</code>	<code> `:=`</code>	<code> `bash`</code>
<code>`V`</code>	<code> `?=`</code>	<code> `0`</code>
<code>`Q`</code>	<code> `:=`</code>	<code> `\$(if \$(filter 1,\$(V)),,@)`</code>
<code>`say`</code>	<code> `= `</code>	<code> `@printf "%b\n" "\$(1)"`</code>
<code>`ok`</code>	<code> `= `</code>	<code> `\$(call say,█ \$(1))`</code>
<code>`err`</code>	<code> `= `</code>	<code> `\$(call say,█ \$(1))`</code>
<code>`guard-file`</code>	<code> `= `</code>	<code> `test -f "\$(1)" { echo "█ Missing file: \$(1)"; exit 1; }`</code>
<code>`guard-var`</code>	<code> `= `</code>	<code> `test -n "\$\$(1)" { echo "█ Missing var: \$(1)"; exit 1; }`</code>
<code>`C2MAPIV2_POSTMAN_API_NAME_PC`</code>	<code> `:=`</code>	<code> `C2mApiV2`</code>
<code>`C2MAPIV2_POSTMAN_API_NAME_CC`</code>	<code> `:=`</code>	<code> `c2mApiV2`</code>
<code>`C2MAPIV2_POSTMAN_API_NAME_SC`</code>	<code> `:=`</code>	<code> `c2mapiv2`</code>
<code>`C2MAPIV2_POSTMAN_API_NAME_KC`</code>	<code> `:=`</code>	<code> `c2mapiv2`</code>
<code>`POSTMAN_API_NAME`</code>	<code> `:=`</code>	<code> `\$(C2MAPIV2_POSTMAN_API_NAME_PC)`</code>
<code>`POSTMAN_DIR`</code>	<code> `:=`</code>	<code> `postman`</code>
<code>`POSTMAN_ENV_FILE`</code>	<code> `:=`</code>	<code> `\$(POSTMAN_DIR)/mock-env.json`</code>
<code>`POSTMAN_BASE_URL`</code>	<code> `:=`</code>	<code> `https://api.getpostman.com`</code>
<code>`LOCALHOST_URL`</code>	<code> `:=`</code>	<code> `http://127.0.0.1`</code>
<code>`POSTMAN_CUSTOM_DIR`</code>	<code> `:=`</code>	<code> `\$(POSTMAN_DIR)/custom`</code>
<code>`POSTMAN_GENERATED_DIR`</code>	<code> `:=`</code>	<code> `\$(POSTMAN_DIR)/generated`</code>
<code>`SDKS_DIR`</code>	<code> `:=`</code>	<code> `sdks`</code>
<code>`SCRIPTS_DIR`</code>	<code> `:=`</code>	<code> `scripts`</code>
<code>`DOCS_DIR`</code>	<code> `:=`</code>	<code> `docs`</code>
<code>`DATA_DICT_DIR`</code>	<code> `:=`</code>	<code> `data_dictionary`</code>
<code>`TEMPLATES_DIR`</code>	<code> `:=`</code>	<code> `\$(DOCS_DIR)/templates`</code>

```
| `DD_EBNF_FILE` | `:=` | `$(DATA_DICT_DIR)/$(C2MAPIV2_POSTMAN_API_NAME_SC)-dd.ebnf` |
| `REDOC_HTML_OUTPUT` | `:=` | `$(DOCS_DIR)/index.html` |
| `DOCS_PID_FILE` | `:=` | `$(DOCS_DIR)/http_pid.txt` |
| `POSTMAN_API_UID_FILE` | `:=` | `$(POSTMAN_DIR)/postman_api_uid.txt` |
| `POSTMAN_API_VERSION_FILE` | `:=` | `$(POSTMAN_DIR)/postman_api_version.txt` |
| `POSTMAN_APIS_URL` | `:=` | `$(POSTMAN_BASE_URL)/apis` |
| `OPENAPI_DIR` | `:=` | `openapi` |
| `C2MAPIV2_OPENAPI_SPEC` | `:=` |
`$(OPENAPI_DIR)/$(C2MAPIV2_POSTMAN_API_NAME_KC)-openapi-spec-final.yaml` |
| `C2MAPIV2_MAIN_SPEC_PATH` | `:=` | `origin/main:$(C2MAPIV2_OPENAPI_SPEC)` |
| `POSTMAN_SPEC_ID_FILE` | `:=` | `$(POSTMAN_DIR)/postman_spec_uid.txt` |
| `C2MAPIV2_OPENAPI_SPEC_WITH_EXAMPLES` | `:=` | `$(basename
$(C2MAPIV2_OPENAPI_SPEC))-with-examples$(suffix $(C2MAPIV2_OPENAPI_SPEC))` |
| `PREVIOUS_C2MAPIV2_OPENAPI_SPEC` | `:=` | `$(OPENAPI_DIR)/tmp-previous-spec.yaml` |
| `POSTMAN_SPECS_URL` | `:=` | `$(POSTMAN_BASE_URL)/specs` |
| `POSTMAN_SCHEMA_V2` | `:=` |
`https://schema.getpostman.com/json/collection/v2.1.0/collection.json` |
| `POSTMAN_SCHEMA_UID_FILE` | `:=` | `$(POSTMAN_DIR)/schema_uid.txt` |
| `OPENAPI_OVERLAYS_DIR` | `:=` | `$(OPENAPI_DIR)/overlays` |
| `OPENAPI_AUTH_OVERLAY` | `:=` | `$(OPENAPI_OVERLAYS_DIR)/auth.tokens.yaml` |
| `C2MAPIV2_OPENAPI_SPEC_BASE` | `:=` |
`$(OPENAPI_DIR)/$(C2MAPIV2_POSTMAN_API_NAME_KC)-openapi-spec-base.yaml` |
| `OPENAPI_BUNDLED_FILE` | `:=` | `$(OPENAPI_DIR)/bundled.yaml` |
| `POSTMAN_COLLECTION_RAW` | `:=` |
`$(POSTMAN_GENERATED_DIR)/$(C2MAPIV2_POSTMAN_API_NAME_KC)-collection.json` |
| `POSTMAN_TEST_COLLECTION_NAME` | `:=` |
`$(C2MAPIV2_POSTMAN_API_NAME_PC)TestCollection` |
| `POSTMAN_TEST_COLLECTION_TMP` | `:=` | `$(POSTMAN_GENERATED_DIR)/$(C2MAPIV2_P
OSTMAN_API_NAME_KC)-test-collection-tmp.json` |
| `POSTMAN_TEST_COLLECTION_FIXED` | `:=` | `$(POSTMAN_GENERATED_DIR)/$(C2MAPIV2_
POSTMAN_API_NAME_KC)-test-collection-fixed.json` |
| `POSTMAN_TEST_COLLECTION_MERGED` | `:=` | `$(POSTMAN_GENERATED_DIR)/$(C2MAPIV
2_POSTMAN_API_NAME_KC)-test-collection-merged.json` |
| `POSTMAN_TEST_COLLECTION_FINAL` | `:=` | `$(POSTMAN_GENERATED_DIR)/$(C2MAPIV2_
POSTMAN_API_NAME_KC)-test-collection-final.json` |
| `POSTMAN_TEST_COLLECTION_UID_FILE` | `:=` | `$(POSTMAN_DIR)/test_collection_uid.txt` |
| `POSTMAN_TEST_COLLECTION_UID` | `:=` | `$(shell cat
$(POSTMAN_TEST_COLLECTION_UID_FILE) 2>/dev/null || echo "")` |
| `POSTMAN_TEST_COLLECTION_WITH_EXAMPLES` | `:=` | `$(POSTMAN_GENERATED_DIR)/$(
C2MAPIV2_POSTMAN_API_NAME_KC)-test-collection-with-examples.json` |
| `POSTMAN_TEST_COLLECTION_WITH_TESTS` | `:=` | `$(POSTMAN_GENERATED_DIR)/$(C2M
APIV2_POSTMAN_API_NAME_KC)-test-collection-with-tests.json` |
```

```
| `POSTMAN_TEST_COLLECTION_FIXED_WITH_TESTS` | `:=` | `$(basename  
$(POSTMAN_TEST_COLLECTION_FIXED))-with-tests.json` |  
| `POSTMAN_LINKED_COLLECTION_UID_FILE` | `:=` |  
`$(POSTMAN_DIR)/postman_linked_collection_uid.txt` |  
| `POSTMAN_LINKED_COLLECTION_UID` | `:=` | `$(shell cat  
$(POSTMAN_LINKED_COLLECTION_UID_FILE))` |  
| `POSTMAN_LINKED_COLLECTION_TMP` | `:=` | `$(POSTMAN_GENERATED_DIR)/$(C2MAPIV2_  
POSTMAN_API_NAME_KC)-linked-collection-tmp.json` |  
| `POSTMAN_LINKED_COLLECTION_NAME` | `:=` | `C2mApiClientCollectionLinked` |  
| `POSTMAN_COLLECTIONS_URL` | `:=` | `$(POSTMAN_BASE_URL)/collections` |  
| `POSTMAN_IMPORT_DEBUG` | `:=` | `$(POSTMAN_DIR)/import-debug.json` |  
| `POSTMAN_LINK_PAYLOAD` | `:=` | `$(POSTMAN_DIR)/link-payload.json` |  
| `POSTMAN_LINK_DEBUG` | `:=` | `$(POSTMAN_DIR)/link-debug.json` |  
| `POSTMAN_VERSION_PAYLOAD` | `:=` | `$(POSTMAN_DIR)/version-payload.json` |  
| `POSTMAN_VERSION_DEBUG` | `:=` | `$(POSTMAN_DIR)/version-debug.json` |  
| `POSTMAN_IMPORT_PAYLOAD` | `:=` | `$(POSTMAN_DIR)/import-payload.json` |  
| `POSTMAN_FULL_PAYLOAD` | `:=` | `$(POSTMAN_DIR)/full-publish-payload.json` |  
| `POSTMAN_FULL_RESPONSE` | `:=` | `$(POSTMAN_DIR)/api-full-publish-response.json` |  
| `POSTMAN_ENV_NAME` | `:=` | `$(C2MAPIV2_POSTMAN_API_NAME_PC)Env` |  
| `POSTMAN_ENV_FILE_TEMP` | `:=` | `$(POSTMAN_DIR)/mock-env-temp.json` |  
| `POSTMAN_ENV_FILE_NEW` | `:=` | `$(POSTMAN_DIR)/mock-env-new.json` |  
| `POSTMAN_ENV_UID_FILE` | `:=` | `$(POSTMAN_DIR)/postman_env_uid.txt` |  
| `POSTMAN_ENV_UID` | `:=` | `$(shell cat $(POSTMAN_ENV_UID_FILE))` |  
| `POSTMAN_ENV_UPLOAD_DEBUG` | `:=` | `$(POSTMAN_DIR)/env-upload-debug.json` |  
| `POSTMAN_ENVIRONMENTS_URL` | `:=` | `$(POSTMAN_BASE_URL)/environments` |  
| `POSTMAN MOCK_NAME` | `:=` | `$(POSTMAN_API_NAME)MockServer` |  
| `POSTMAN MOCK_PAYLOAD` | `:=` | `$(POSTMAN_DIR)/mock-payload.json` |  
| `POSTMAN MOCK_DEBUG` | `:=` | `$(POSTMAN_DIR)/mock-debug.json` |  
| `POSTMAN MOCK_VALIDATE` | `:=` | `$(POSTMAN_DIR)/mock-validate.json` |  
| `POSTMAN MOCK_UID_FILE` | `:=` | `$(POSTMAN_DIR)/postman_mock_uid.txt` |  
| `POSTMAN MOCK_LINK_DEBUG_FILE` | `:=` | `$(POSTMAN_DIR)/postman-mock-link-debug.json`  
|  
| `POSTMAN MOCK_UID` | `:=` | `$(shell cat $(POSTMAN MOCK_UID_FILE) 2>/dev/null || echo "")` |  
| `POSTMAN MOCK_URL_FILE` | `:=` | `$(POSTMAN_DIR)/postman_mock_url.txt` |  
| `POSTMAN MOCKS_URL` | `:=` | `$(POSTMAN_BASE_URL)/mocks` |  
| `POSTMAN MOCK_URL` | `:=` | `$(shell cat $(POSTMAN MOCK_URL_FILE) 2>/dev/null || echo  
"https://mock.api")` |  
| `POSTMAN MOCK_ID_FILE` | `:=` | `$(POSTMAN_DIR)/postman_mock_id.txt` | | |
| `POSTMAN MOCK_ID` | `:=` | `$(shell cat $(POSTMAN MOCK_ID_FILE) 2>/dev/null || echo "")` |  
| `PRISM_LOG` | `:=` | `$(POSTMAN_DIR)/prism.log` |  
| `PRISM_PID_FILE` | `:=` | `$(POSTMAN_DIR)/prism_pid.txt` |
```

```

| `PRISM MOCK TEST` | `?` = | `$(POSTMAN_DIR)/prism-mock-test-results.json` |
| `PRISM MOCK TEST REPORT` | `?` = | `$(POSTMAN_DIR)/prism-mock-test-report.html` |
| `PRISM_PORT` | `?` = | `4010` |
| `PRISM_HOST` | `?` = | `127.0.0.1` |
| `PRISM MOCK URL FILE` | `?` = | `$(POSTMAN_DIR)/prism_mock_url.txt` |
| `PRISM MOCK URL` | `?` = | `$(shell cat $(PRISM MOCK URL FILE) 2>/dev/null || echo
"$(LOCALHOST_URL):$(PRISM_PORT)")` |
| `PRISM_SPEC` | `?` = | `$(C2MAPIV2_OPENAPI_SPEC_WITH_EXAMPLES)` |
| `POSTMAN_OVERRIDES_FILE` | `:=` | `$(POSTMAN_CUSTOM_DIR)/overrides.json` |
| `POSTMAN_UPLOAD_TEST_DEBUG` | `:=` | `$(POSTMAN_DIR)/upload-test-debug.json` |
| `TEST_DATA_DIR` | `:=` | `test-data` |
| `REPORT_HTML` | `:=` | `$(POSTMAN_DIR)/newman-report.html` |
| `SECURITY_POSTMAN_SCRIPTS_DIR` | `:=` | `c2m-api-v2-security/postman/scripts` |
| `SECURITY_POSTMAN_SCRIPTS_DIR` | `:=` | `../c2m-api-v2-security/postman/scripts` |
| `POSTMAN_ALLOWED_CODES` | `?` = | `200,201,204,400,401,403,404,429` |
| `TEST_COLLECTION_WITH_JWT_TESTS` | `:=` |
`$(POSTMAN_DIR)/generated/c2mapiv2-test-collection-jwt.json` |
| `JQ_DIR` | `:=` | `scripts/jq` |
| `JQ_ADD_INFO_FILE` | `:=` | `$(JQ_DIR)/add_info.jq` |
| `JQ_FIX_URLS_FILE` | `:=` | `$(JQ_DIR)/fix_urls.jq` |
| `JQ_AUTO_FIX_FILE` | `:=` | `$(JQ_DIR)/auto_fix.jq` |
| `JQ_VERIFY_URLS_FILE` | `:=` | `$(JQ_DIR)/verify_urls.jq` |
| `JQ_SANITIZE_COLLECTION_FILE` | `:=` | `$(JQ_DIR)/sanitize_collection.jq` |
| `jqf` | `=` | `jq -f $(1) $(2)` |
| `jqx` | `=` | `jq $(1) $(2)` |
| `ADD_EXAMPLES_TO_OPENAPI_SPEC` | `:=` |
`$(SCRIPTS_DIR)/test_data_genertor_for_openapi_specs/add_examples_to_spec.py
$(C2MAPIV2_OPENAPI_SPEC)` |
| `ADD_TESTS_SCRIPT` | `:=` | `$(SCRIPTS_DIR)/active/add_tests.js` |
| `EBNF_TO_OPENAPI_SCRIPT` | `:=` | `$(SCRIPTS_DIR)/active/ebnf_to_openapi_dynamic_v3.py` |
| `FIX_COLLECTION_URLS` | `:=` | `$(SCRIPTS_DIR)/active/fix_collection_urls_v2.py` |
| `FIX_PATHS_SCRIPT` | `:=` | `$(SCRIPTS_DIR)/jq/fix_paths.jq` |
| `JQ_ADD_INFO` | `:=` | `--arg name "$$(POSTMAN_LINKED_COLLECTION_NAME)" '. as $$c | {info:
{name: $$name, schema: "$$(POSTMAN_SCHEMA_V2)", item: $$c.item}}` |
| `JQ_AUTO_FIX` | `:=` | `jq 'walk(if type == "object" and (has("name") and (has("request") | not) and
(has("item") | not)) then . + { "item": [] } else . end)` |
| `JQ_FIX_URLS` | `:=` | `jq 'walk(if type == "object" and has("url") and (.url | type) == "object" and
.url.raw then .url.raw |= sub("http://localhost"; "{baseUri}") else . end)` |
| `JQ_VERIFY_URLS` | `:=` | `jq -r '.. | objects | select(has("url")) | .url.raw? // empty` |
| `MERGE_POSTMAN_OVERRIDES` | `:=` | `$(SCRIPTS_DIR)/jq/merge_overrides.jq` |
| `MERGE_SCRIPT` | `:=` | `$(SCRIPTS_DIR)/jq/merge.jq` |

```

```

| `NODE_COLLECTION_VALIDATE` | `:=` | `node -e "const {Collection}=require('postman-collection');
const fs=require('fs'); const
data=JSON.parse(fs.readFileSync('${POSTMAN_TEST_COLLECTION_FIXED}','utf8')); try { new
Collection(data); console.log('■ Collection is valid.');" } catch(e) { console.error('■ Validation failed:',
e.message); process.exit(1); }" |
| `POSTMAN_VALIDATOR` | `:=` | `${SCRIPTS_DIR}/active/validate_collection.js` |
| `INSTALL_PYTHON_MODULES` | `:=` | `install -r ${SCRIPTS_DIR}/python_env/requirements.txt` |
| `ADD_EXAMPLES_TO_COLLECTION_SCRIPT` | `:=` | `node
${SCRIPTS_DIR}/test_data_generator_for_collections/addRandomDataToRaw.js` |
| `ADD_EXAMPLES_TO_COLLECTION_ARGS` | `:=` | `--input ${POSTMAN_COLLECTION_RAW}
--output ${POSTMAN_TEST_COLLECTION_WITH_EXAMPLES}` |
| `ADD_EXAMPLES_TO_COLLECTION` | `:=` | `${ADD_EXAMPLES_TO_COLLECTION_SCRIPT}
${ADD_EXAMPLES_TO_COLLECTION_ARGS}` |
| `PYTHON_ENV_DIR` | `:=` | `${SCRIPTS_DIR}/python_env` |
| `VENV_DIR` | `:=` | `${PYTHON_ENV_DIR}/e2o.venv` |
| `VENV_PIP` | `:=` | `${VENV_DIR}/bin/pip` |
| `VENV_PYTHON` | `:=` | `${VENV_DIR}/bin/python` |
| `PYTHON3` | `:=` | `python3` |
| `PYTHON` | `:=` | `${PYTHON3}` |
| `GENERATOR_OFFICIAL` | `:=` | `npx openapi-to-postmanv2` |
| `PRISM` | `:=` | `npx @stoplight/prism-cli` |
| `NEWMAN` | `:=` | `npx newman` |
| `REDOCLY` | `:=` | `npx @redocly/cli` |
| `SPECTRAL` | `:=` | `npx @stoplight/spectral-cli` |
| `SWAGGER` | `:=` | `npx swagger-cli` |
| `WIDDERSHINS` | `:=` | `npx widdershins` |
| `OPENAPI_DIFF` | `:=` | `npx openapi-diff` |
| `SERRAO_WS` | `:=` | `d8a1f479-a2aa-4471-869e-b12feea0a98c` |
| `C2M_WS` | `:=` | `c740f0f4-0de2-4db3-8ab6-f8a0fa6fbeb1` |
| `POSTMAN_WS` | `:=` | `${(or ${POSTMAN_WORKSPACE_OVERRIDE},${SERRAO_WS})}` |
| `POSTMAN_API_KEY` | `:=` | `${(or ${POSTMAN_API_KEY_OVERRIDE},${POSTMAN_SERRAO_A
PI_KEY},${POSTMAN_C2M_API_KEY})}` |
| `TOKEN_RAW` | `:=` | `${(shell [ -f ${POSTMAN_ENV_FILE} ] && jq -r '.environment.values[] |
select(.key=="token") | .value' ${POSTMAN_ENV_FILE} 2>/dev/null || echo "")}` |
| `TOKEN` | `:=` | `${(if ${TOKEN_RAW},${TOKEN_RAW},dummy-token)}` |
| `POSTMAN_HEADER_API_KEY` | `:=` | `--header "X-Api-Key: ${POSTMAN_API_KEY}"` |
| `POSTMAN_HEADER_CONTENT_TYPE` | `:=` | `--header "Content-Type: application/json"` |
| `POSTMAN_HEADER_ACCEPT` | `:=` | `--header "Accept: application/vnd.api.v10+json"` |
| `POSTMAN_HEADER_AUTH` | `:=` | `--header "Authorization: Bearer ${POSTMAN_API_KEY}"` |
| `POSTMAN_CURL_HEADERS_XC` | `:=` | `${POSTMAN_HEADER_API_KEY}
${POSTMAN_HEADER_CONTENT_TYPE}` |

```

```
| `POSTMAN_CURL_HEADERS_AA` | `:=` | `$(POSTMAN_HEADER_ACCEPT)
$(POSTMAN_HEADER_AUTH)` |
| `POSTMAN_CURL_HEADERS_ACA` | `:=` | `$(POSTMAN_HEADER_ACCEPT)
$(POSTMAN_HEADER_CONTENT_TYPE) $(POSTMAN_HEADER_AUTH)` |
| `POSTMAN_Q_ID` | `:=` | `?workspaceId=$(POSTMAN_WS)` |
| `POSTMAN_Q` | `:=` | `?workspace=$(POSTMAN_WS)` |
| `POSTMAN_LINKED_COLLECTION_FLAT` | `:=` | `$(POSTMAN_GENERATED_DIR)/$(C2MAPIV2
_POSTMAN_API_NAME_KC)-linked-collection-flat.json` |
| `POSTMAN_TEST_COLLECTION_FLAT` | `:=` | `$(POSTMAN_GENERATED_DIR)/$(C2MAPIV2_P
OSTMAN_API_NAME_KC)-test-collection-flat.json` |
| `CUR-DIR` | `:=` | `$(shell pwd)` |
| `LOG-DIR` | `:=` | `$(CUR-DIR)/make-logs` |
```

2.1 Notes on Variables & Helpers

- **Verbosity**: Use `V=1` to show underlying commands.
- **Guard helpers**: If present (e.g., `guard-file`, `guard-var`), they ensure required files/vars exist.
- **Shell**: Many Makefiles use `SHELL` and strict flags; commands shown below reflect what runs.

3.0 Orchestration Targets

These targets primarily **call other make targets** and orchestrate multi-step workflows. They typically contain recipes that only invoke `\$(MAKE)`/`make`, with minimal direct shell commands.

3.6 `postman-docs-build-and-serve-up`

Type: Orchestration

Depends on: _None_

Usage:

```
make postman-docs-build-and-serve-up
```

Invokes:

```
# Generate and serve documentation
$(MAKE) docs-build
# use docs-serve-bg if you don't want blocking here
$(MAKE) docs-serve
```

4.0 Functional Targets (Grouped)

Below are all functional targets, grouped by purpose. Each includes a usage example and the underlying commands executed.

4.1 OpenAPI

4.1.1 `ADD_EXAMPLES_TO_OPENAPI_SPEC`

****Depends on:**** =,
\$(SCRIPTS_DIR)/test_data_genertor_for_openapi_specs/add_examples_to_spec.py,
\$(C2MAPIV2_OPENAPI_SPEC)

****Usage:****

make ADD_EXAMPLES_TO_OPENAPI_SPEC

No underlying shell commands found in this target.

4.1.2 `C2MAPIV2_OPENAPI_SPEC`

****Depends on:**** =,
\$(OPENAPI_DIR)/\$(C2MAPIV2_POSTMAN_API_NAME_KC)-openapi-spec-final.yaml

****Usage:****

make C2MAPIV2_OPENAPI_SPEC

No underlying shell commands found in this target.

4.1.3 `C2MAPIV2_OPENAPI_SPEC_BASE`

****Depends on:**** =,
\$(OPENAPI_DIR)/\$(C2MAPIV2_POSTMAN_API_NAME_KC)-openapi-spec-base.yaml

****Usage:****

make C2MAPIV2_OPENAPI_SPEC_BASE

No underlying shell commands found in this target.

4.1.4 `C2MAPIV2_OPENAPI_SPEC_WITH_EXAMPLES`

****Depends on:**** =, \$(basename, \$(C2MAPIV2_OPENAPI_SPEC))-with-examples\$(suffix,
\$(C2MAPIV2_OPENAPI_SPEC))

****Usage:****

make C2MAPIV2_OPENAPI_SPEC_WITH_EXAMPLES

No underlying shell commands found in this target.

4.1.5 `DD_EBNF_FILE`

****Depends on:**** =, \$(DATA_DICT_DIR)/\$(C2MAPIV2_POSTMAN_API_NAME_SC)-dd.ebnf

****Usage:****

make DD_EBNF_FILE

No underlying shell commands found in this target.

4.1.6 `EBNF_TO_OPENAPI_SCRIPT`

****Depends on:**** =, \$(SCRIPTS_DIR)/active/ebnf_to_openapi_dynamic_v3.py

****Usage:****

make EBNF_TO_OPENAPI_SCRIPT

No underlying shell commands found in this target.

4.1.7 `OPENAPI_AUTH_OVERLAY`

****Depends on:**** =, \$(OPENAPI_OVERLAYS_DIR)/auth.tokens.yaml

****Usage:****

make OPENAPI_AUTH_OVERLAY

No underlying shell commands found in this target.

4.1.8 `OPENAPI_BUNDLED_FILE`

****Depends on:**** =, \$(OPENAPI_DIR)/bundled.yaml

****Usage:****

make OPENAPI_BUNDLED_FILE

No underlying shell commands found in this target.

4.1.9 `OPENAPI_DIFF`

****Depends on:**** =, npx, openapi-diff

****Usage:****

make OPENAPI_DIFF

No underlying shell commands found in this target.

4.1.10 `OPENAPI_DIR`

****Depends on:**** =, openapi

****Usage:****

make OPENAPI_DIR

No underlying shell commands found in this target.

4.1.11 `OPENAPI_OVERLAYS_DIR`

****Depends on:**** =, \$(OPENAPI_DIR)/overlays

****Usage:****

make OPENAPI_OVERLAYS_DIR

No underlying shell commands found in this target.

4.1.12 `PREVIOUS_C2MAPIV2_OPENAPI_SPEC`

****Depends on:**** =, \$(OPENAPI_DIR)/tmp-previous-spec.yaml

****Usage:****

make PREVIOUS_C2MAPIV2_OPENAPI_SPEC

No underlying shell commands found in this target.

4.2 Postman

4.2.1 `C2MAPIV2_POSTMAN_API_NAME_CC`

****Depends on:**** =, c2mApiV2

****Usage:****

make C2MAPIV2_POSTMAN_API_NAME_CC

No underlying shell commands found in this target.

4.2.2 `C2MAPIV2_POSTMAN_API_NAME_KC`

****Depends on:**** =, c2mapiv2

****Usage:****

make C2MAPIV2_POSTMAN_API_NAME_KC

No underlying shell commands found in this target.

4.2.3 `C2MAPIV2_POSTMAN_API_NAME_PC`

****Depends on:**** =, C2mApiV2

****Usage:****

make C2MAPIV2_POSTMAN_API_NAME_PC

No underlying shell commands found in this target.

4.2.4 `C2MAPIV2_POSTMAN_API_NAME_SC`

****Depends on:**** =, c2mapiv2

****Usage:****

make C2MAPIV2_POSTMAN_API_NAME_SC

No underlying shell commands found in this target.

4.2.5 `MERGE_POSTMAN_OVERRIDES`

****Depends on:**** =, \$(SCRIPTS_DIR)/jq/merge_overrides.jq

****Usage:****

make MERGE_POSTMAN_OVERRIDES

No underlying shell commands found in this target.

4.2.6 `POSTMAN_APIS_URL`

****Depends on:**** =, \$(POSTMAN_BASE_URL)/apis

****Usage:****

make POSTMAN_APIS_URL

No underlying shell commands found in this target.

4.2.7 `POSTMAN_API_KEY`

****Depends on:**** =, \$(or, \$(POSTMAN_API_KEY_OVERRIDE),\$(POSTMAN_SERRAO_API_KEY),\$(POSTMAN_C2M_API_KEY))

****Usage:****

make POSTMAN_API_KEY

No underlying shell commands found in this target.

4.2.8 `POSTMAN_API_NAME`

****Depends on:**** =, \$(C2MAPIV2_POSTMAN_API_NAME_PC)

****Usage:****

make POSTMAN_API_NAME

No underlying shell commands found in this target.

4.2.9 `POSTMAN_API_UID_FILE`

****Depends on:**** =, \$(POSTMAN_DIR)/postman_api_uid.txt

****Usage:****

make POSTMAN_API_UID_FILE

No underlying shell commands found in this target.

4.2.10 `POSTMAN_API_VERSION_FILE`

****Depends on:**** =, \$(POSTMAN_DIR)/postman_api_version.txt

****Usage:****

make POSTMAN_API_VERSION_FILE

No underlying shell commands found in this target.

4.2.11 `POSTMAN_BASE_URL`

****Depends on:**** =, <https://api.getpostman.com>

****Usage:****

make POSTMAN_BASE_URL

No underlying shell commands found in this target.

4.2.12 `POSTMAN_COLLECTIONS_URL`

****Depends on:**** =, \$(POSTMAN_BASE_URL)/collections

****Usage:****

make POSTMAN_COLLECTIONS_URL

No underlying shell commands found in this target.

4.2.13 `POSTMAN_COLLECTION_RAW`

****Depends on:**** =,
\$(POSTMAN_GENERATED_DIR)/\$(C2MAPIV2_POSTMAN_API_NAME_KC)-collection.json

****Usage:****

make POSTMAN_COLLECTION_RAW

No underlying shell commands found in this target.

4.2.14 `POSTMAN_CURL_HEADERS_AA`

****Depends on:**** =, \$(POSTMAN_HEADER_ACCEPT), \$(POSTMAN_HEADER_AUTH)

****Usage:****

make POSTMAN_CURL_HEADERS_AA

No underlying shell commands found in this target.

4.2.15 `POSTMAN_CURL_HEADERS_ACA`

****Depends on:**** =, \$(POSTMAN_HEADER_ACCEPT), \$(POSTMAN_HEADER_CONTENT_TYPE),
\$(POSTMAN_HEADER_AUTH)

****Usage:****

make POSTMAN_CURL_HEADERS_ACA

No underlying shell commands found in this target.

4.2.16 `POSTMAN_CURL_HEADERS_XC`

****Depends on:**** =, \$(POSTMAN_HEADER_API_KEY), \$(POSTMAN_HEADER_CONTENT_TYPE)

****Usage:****

make POSTMAN_CURL_HEADERS_XC

No underlying shell commands found in this target.

4.2.17 `POSTMAN_CUSTOM_DIR`

****Depends on:**** =, \$(POSTMAN_DIR)/custom

****Usage:****

make POSTMAN_CUSTOM_DIR

No underlying shell commands found in this target.

4.2.18 `POSTMAN_DIR`

****Depends on:**** =, postman

****Usage:****

make POSTMAN_DIR

No underlying shell commands found in this target.

4.2.19 `POSTMAN_ENVIRONMENTS_URL`

****Depends on:**** =, \$(POSTMAN_BASE_URL)/environments

****Usage:****

make POSTMAN_ENVIRONMENTS_URL

No underlying shell commands found in this target.

4.2.20 `POSTMAN_ENV_FILE`

****Depends on:**** =, \$(POSTMAN_DIR)/mock-env.json

****Usage:****

make POSTMAN_ENV_FILE

No underlying shell commands found in this target.

4.2.21 `POSTMAN_ENV_FILE_NEW`

****Depends on:**** =, \$(POSTMAN_DIR)/mock-env-new.json

****Usage:****

make POSTMAN_ENV_FILE_NEW

No underlying shell commands found in this target.

4.2.22 `POSTMAN_ENV_FILE_TEMP`

****Depends on:**** =, \$(POSTMAN_DIR)/mock-env-temp.json

****Usage:****

make POSTMAN_ENV_FILE_TEMP

No underlying shell commands found in this target.

4.2.23 `POSTMAN_ENV_NAME`

****Depends on:**** =, \$(C2MAPIV2_POSTMAN_API_NAME_PC)Env

****Usage:****

make POSTMAN_ENV_NAME

No underlying shell commands found in this target.

4.2.24 `POSTMAN_ENV_UID`

****Depends on:**** =, \$(shell, cat, \$(POSTMAN_ENV_UID_FILE))

****Usage:****

make POSTMAN_ENV_UID

No underlying shell commands found in this target.

4.2.25 `POSTMAN_ENV_UID_FILE`

****Depends on:**** =, \$(POSTMAN_DIR)/postman_env_uid.txt

****Usage:****

make POSTMAN_ENV_UID_FILE

No underlying shell commands found in this target.

4.2.26 `POSTMAN_ENV_UPLOAD_DEBUG`

****Depends on:**** =, \$(POSTMAN_DIR)/env-upload-debug.json

****Usage:****

make POSTMAN_ENV_UPLOAD_DEBUG

No underlying shell commands found in this target.

4.2.27 `POSTMAN_FULL_PAYLOAD`

****Depends on:**** =, \$(POSTMAN_DIR)/full-publish-payload.json

****Usage:****

make POSTMAN_FULL_PAYLOAD

No underlying shell commands found in this target.

4.2.28 `POSTMAN_FULL_RESPONSE`

****Depends on:**** =, \$(POSTMAN_DIR)/api-full-publish-response.json

****Usage:****

make POSTMAN_FULL_RESPONSE

No underlying shell commands found in this target.

4.2.29 `POSTMAN_GENERATED_DIR`

****Depends on:**** =, \$(POSTMAN_DIR)/generated

****Usage:****

make POSTMAN_GENERATED_DIR

No underlying shell commands found in this target.

4.2.30 `POSTMAN_HEADER_ACCEPT`

****Depends on:**** =, --header, "Accept:, application/vnd.api.v10+json"

****Usage:****

make POSTMAN_HEADER_ACCEPT

No underlying shell commands found in this target.

4.2.31 `POSTMAN_HEADER_API_KEY`

****Depends on:**** =, --header, "X-API-Key:, \$(POSTMAN_API_KEY)"

****Usage:****

make POSTMAN_HEADER_API_KEY

No underlying shell commands found in this target.

4.2.32 `POSTMAN_HEADER_AUTH`

****Depends on:**** =, --header, "Authorization:, Bearer, \$(POSTMAN_API_KEY)"

****Usage:****

make POSTMAN_HEADER_AUTH

No underlying shell commands found in this target.

4.2.33 `POSTMAN_HEADER_CONTENT_TYPE`

****Depends on:**** =, --header, "Content-Type:, application/json"

****Usage:****

make POSTMAN_HEADER_CONTENT_TYPE

No underlying shell commands found in this target.

4.2.34 `POSTMAN_IMPORT_DEBUG`

****Depends on:**** =, \$(POSTMAN_DIR)/import-debug.json

****Usage:****

make POSTMAN_IMPORT_DEBUG

No underlying shell commands found in this target.

4.2.35 `POSTMAN_IMPORT_PAYLOAD`

****Depends on:**** =, \$(POSTMAN_DIR)/import-payload.json

****Usage:****

make POSTMAN_IMPORT_PAYLOAD

No underlying shell commands found in this target.

4.2.36 `POSTMAN_LINKED_COLLECTION_FLAT`

****Depends on:**** =, \$(POSTMAN_GENERATED_DIR)/\$(C2MAPIV2_POSTMAN_API_NAME_KC)-linked-collection-flat.json

****Usage:****

make POSTMAN_LINKED_COLLECTION_FLAT

No underlying shell commands found in this target.

4.2.37 `POSTMAN_LINKED_COLLECTION_NAME`

****Depends on:**** =, C2mApiCollectionLinked

****Usage:****

make POSTMAN_LINKED_COLLECTION_NAME

No underlying shell commands found in this target.

4.2.38 `POSTMAN_LINKED_COLLECTION_TMP`

****Depends on:**** =, \$(POSTMAN_GENERATED_DIR)/\$(C2MAPIV2_POSTMAN_API_NAME_KC)-linked-collection-tmp.json

****Usage:****

make POSTMAN_LINKED_COLLECTION_TMP

No underlying shell commands found in this target.

4.2.39 `POSTMAN_LINKED_COLLECTION_UID`

****Depends on:**** =, \$(shell, cat, \$(POSTMAN_LINKED_COLLECTION_UID_FILE))

****Usage:****

make POSTMAN_LINKED_COLLECTION_UID

No underlying shell commands found in this target.

4.2.40 `POSTMAN_LINKED_COLLECTION_UID_FILE`

****Depends on:**** =, \$(POSTMAN_DIR)/postman_linked_collection_uid.txt

****Usage:****

make POSTMAN_LINKED_COLLECTION_UID_FILE

No underlying shell commands found in this target.

4.2.41 `POSTMAN_LINK_DEBUG`

****Depends on:**** =, \$(POSTMAN_DIR)/link-debug.json

****Usage:****

make POSTMAN_LINK_DEBUG

No underlying shell commands found in this target.

4.2.42 `POSTMAN_LINK_PAYLOAD`

****Depends on:**** =, \$(POSTMAN_DIR)/link-payload.json

****Usage:****

make POSTMAN_LINK_PAYLOAD

No underlying shell commands found in this target.

4.2.43 `POSTMAN MOCKS_URL`

****Depends on:**** =, \$(POSTMAN_BASE_URL)/mocks

****Usage:****

make POSTMAN MOCKS_URL

No underlying shell commands found in this target.

4.2.44 `POSTMAN MOCK_DEBUG`

****Depends on:**** =, \$(POSTMAN_DIR)/mock-debug.json

****Usage:****

make POSTMAN MOCK_DEBUG

No underlying shell commands found in this target.

4.2.45 `POSTMAN MOCK_ID`

****Depends on:**** =, \$(shell, cat, \$(POSTMAN MOCK_ID_FILE), 2>/dev/null, ||, echo, "")

****Usage:****

make POSTMAN MOCK_ID

No underlying shell commands found in this target.

4.2.46 `POSTMAN MOCK_ID_FILE`

****Depends on:**** =, \$(POSTMAN_DIR)/postman_mock_id.txt

****Usage:****

make POSTMAN MOCK_ID_FILE

No underlying shell commands found in this target.

4.2.47 `POSTMAN MOCK_LINK_DEBUG_FILE`

****Depends on:**** =, \$(POSTMAN_DIR)/postman-mock-link-debug.json

****Usage:****

make POSTMAN MOCK_LINK_DEBUG_FILE

No underlying shell commands found in this target.

4.2.48 `POSTMAN MOCK_NAME`

****Depends on:**** =, \$(POSTMAN_API_NAME)MockServer

****Usage:****

make POSTMAN MOCK_NAME

No underlying shell commands found in this target.

4.2.49 `POSTMAN MOCK_PAYLOAD`

****Depends on:**** =, \$(POSTMAN_DIR)/mock-payload.json

****Usage:****

make POSTMAN MOCK_PAYLOAD

No underlying shell commands found in this target.

4.2.50 `POSTMAN MOCK_UID`

****Depends on:**** =, \$(shell, cat, \$(POSTMAN MOCK_UID_FILE), 2>/dev/null, ||, echo, "")

****Usage:****

make POSTMAN MOCK_UID

No underlying shell commands found in this target.

4.2.51 `POSTMAN MOCK_UID_FILE`

****Depends on:**** =, \$(POSTMAN_DIR)/postman_mock_uid.txt

****Usage:****

make POSTMAN MOCK_UID_FILE

No underlying shell commands found in this target.

4.2.52 `POSTMAN MOCK_URL`

****Depends on:**** =, \$(shell, cat, \$(POSTMAN MOCK_URL_FILE), 2>/dev/null, ||, echo, "https://mock.api")

****Usage:****

make POSTMAN MOCK_URL

No underlying shell commands found in this target.

4.2.53 `POSTMAN MOCK_URL_FILE`

****Depends on:**** =, \$(POSTMAN_DIR)/postman_mock_url.txt

****Usage:****

make POSTMAN MOCK_URL_FILE

No underlying shell commands found in this target.

4.2.54 `POSTMAN MOCK_VALIDATE`

****Depends on:**** =, \$(POSTMAN_DIR)/mock-validate.json

****Usage:****

make POSTMAN MOCK_VALIDATE

No underlying shell commands found in this target.

4.2.55 `POSTMAN_OVERRIDES_FILE`

****Depends on:**** =, \$(POSTMAN_CUSTOM_DIR)/overrides.json

****Usage:****

make POSTMAN_OVERRIDES_FILE

No underlying shell commands found in this target.

4.2.56 `POSTMAN_Q`

****Depends on:**** =, ?workspace=\$(POSTMAN_WS)

****Usage:****

make POSTMAN_Q

No underlying shell commands found in this target.

4.2.57 `POSTMAN_Q_ID`

****Depends on:**** =, ?workspaceId=\$(POSTMAN_WS)

****Usage:****

make POSTMAN_Q_ID

No underlying shell commands found in this target.

4.2.58 `POSTMAN_SCHEMA_UID_FILE`

****Depends on:**** =, \$(POSTMAN_DIR)/schema_uid.txt

****Usage:****

make POSTMAN_SCHEMA_UID_FILE

No underlying shell commands found in this target.

4.2.59 `POSTMAN_SCHEMA_V2`

****Depends on:**** =, <https://schema.getpostman.com/json/collection/v2.1.0/collection.json>

****Usage:****

make POSTMAN_SCHEMA_V2

No underlying shell commands found in this target.

4.2.60 `POSTMAN_SPECS_URL`

****Depends on:**** =, \$(POSTMAN_BASE_URL)/specs

****Usage:****

make POSTMAN_SPECS_URL

No underlying shell commands found in this target.

4.2.61 `POSTMAN_SPEC_ID_FILE`

****Depends on:**** =, \$(POSTMAN_DIR)/postman_spec_uid.txt

****Usage:****

make POSTMAN_SPEC_ID_FILE

No underlying shell commands found in this target.

4.2.62 `POSTMAN_TEST_COLLECTION_FINAL`

****Depends on:**** =,

\$(POSTMAN_GENERATED_DIR)/\$(C2MAPIV2_POSTMAN_API_NAME_KC)-test-collection-final.json

****Usage:****

make POSTMAN_TEST_COLLECTION_FINAL

No underlying shell commands found in this target.

4.2.63 `POSTMAN_TEST_COLLECTION_FIXED`

****Depends on:**** =, \$(POSTMAN_GENERATED_DIR)/\$(C2MAPIV2_POSTMAN_API_NAME_KC)-test-collection-fixed.json

****Usage:****

make POSTMAN_TEST_COLLECTION_FIXED

No underlying shell commands found in this target.

4.2.64 `POSTMAN_TEST_COLLECTION_FIXED_WITH_TESTS`

****Depends on:**** =, \$(basename, \$(POSTMAN_TEST_COLLECTION_FIXED))-with-tests.json

****Usage:****

make POSTMAN_TEST_COLLECTION_FIXED_WITH_TESTS

No underlying shell commands found in this target.

4.2.65 `POSTMAN_TEST_COLLECTION_FLAT`

****Depends on:**** =,
\$(POSTMAN_GENERATED_DIR)/\$(C2MAPIV2_POSTMAN_API_NAME_KC)-test-collection-flat.json

****Usage:****

make POSTMAN_TEST_COLLECTION_FLAT

No underlying shell commands found in this target.

4.2.66 `POSTMAN_TEST_COLLECTION_MERGED`

****Depends on:**** =, \$(POSTMAN_GENERATED_DIR)/\$(C2MAPIV2_POSTMAN_API_NAME_KC)-test-collection-merged.json

****Usage:****

make POSTMAN_TEST_COLLECTION_MERGED

No underlying shell commands found in this target.

4.2.67 `POSTMAN_TEST_COLLECTION_NAME`

****Depends on:**** =, \$(C2MAPIV2_POSTMAN_API_NAME_PC)TestCollection

****Usage:****

make POSTMAN_TEST_COLLECTION_NAME

No underlying shell commands found in this target.

4.2.68 `POSTMAN_TEST_COLLECTION_TMP`

****Depends on:**** =,
\$(POSTMAN_GENERATED_DIR)/\$(C2MAPIV2_POSTMAN_API_NAME_KC)-test-collection-tmp.json

****Usage:****

make POSTMAN_TEST_COLLECTION_TMP

No underlying shell commands found in this target.

4.2.69 `POSTMAN_TEST_COLLECTION_UID`

```
**Depends on:** =, $(shell, cat, $(POSTMAN_TEST_COLLECTION_UID_FILE), 2>/dev/null, ||, echo,
"")
```

```
**Usage:**
```

```
make POSTMAN_TEST_COLLECTION_UID
```

```
_No underlying shell commands found in this target._
```

```
#### 4.2.70 `POSTMAN_TEST_COLLECTION_UID_FILE`
```

```
**Depends on:** =, $(POSTMAN_DIR)/test_collection_uid.txt
```

```
**Usage:**
```

```
make POSTMAN_TEST_COLLECTION_UID_FILE
```

```
_No underlying shell commands found in this target._
```

```
#### 4.2.71 `POSTMAN_TEST_COLLECTION_WITH_EXAMPLES`
```

```
**Depends on:** =, $(POSTMAN_GENERATED_DIR)/$(C2MAPIV2_POSTMAN_API_NAME_KC)-test
-collection-with-examples.json
```

```
**Usage:**
```

```
make POSTMAN_TEST_COLLECTION_WITH_EXAMPLES
```

```
_No underlying shell commands found in this target._
```

```
#### 4.2.72 `POSTMAN_TEST_COLLECTION_WITH_TESTS`
```

```
**Depends on:** =, $(POSTMAN_GENERATED_DIR)/$(C2MAPIV2_POSTMAN_API_NAME_KC)-test
-collection-with-tests.json
```

```
**Usage:**
```

```
make POSTMAN_TEST_COLLECTION_WITH_TESTS
```

```
_No underlying shell commands found in this target._
```

```
#### 4.2.73 `POSTMAN_UPLOAD_TEST_DEBUG`
```

```
**Depends on:** =, $(POSTMAN_DIR)/upload-test-debug.json
```

```
**Usage:**
```

```
make POSTMAN_UPLOAD_TEST_DEBUG
```

```
_No underlying shell commands found in this target._
```

```
#### 4.2.74 `POSTMAN_VALIDATOR`
```

```
**Depends on:** =, $(SCRIPTS_DIR)/active/validate_collection.js
```

```
**Usage:**
```

```
make POSTMAN_VALIDATOR
```

```
_No underlying shell commands found in this target._
```

```
#### 4.2.75 `POSTMAN_VERSION_DEBUG`
```

****Depends on:**** =, \$(POSTMAN_DIR)/version-debug.json

****Usage:****

make POSTMAN_VERSION_DEBUG

No underlying shell commands found in this target.

4.2.76 `POSTMAN_VERSION_PAYLOAD`

****Depends on:**** =, \$(POSTMAN_DIR)/version-payload.json

****Usage:****

make POSTMAN_VERSION_PAYLOAD

No underlying shell commands found in this target.

4.2.77 `POSTMAN_WS`

****Depends on:**** =, \$(or, \$(POSTMAN_WORKSPACE_OVERRIDE),\$(SERRAO_WS))

****Usage:****

make POSTMAN_WS

No underlying shell commands found in this target.

4.2.78 `SECURITY_POSTMAN_SCRIPTS_DIR`

****Depends on:**** =, ../c2m-api-v2-security/postman/scripts

****Usage:****

make SECURITY_POSTMAN_SCRIPTS_DIR

No underlying shell commands found in this target.

4.3 Docs

4.3.1 `DOCS_DIR`

****Depends on:**** =, docs

****Usage:****

make DOCS_DIR

No underlying shell commands found in this target.

4.3.2 `DOCS_PID_FILE`

****Depends on:**** =, \$(DOCS_DIR)/http_pid.txt

****Usage:****

make DOCS_PID_FILE

No underlying shell commands found in this target.

4.3.3 `REDOCLY`

****Depends on:**** =, npx, @redocly/cli

****Usage:****

make REDOCLY

No underlying shell commands found in this target.

4.3.4 `REDOC_HTML_OUTPUT`

****Depends on:**** =, \$(DOCS_DIR)/index.html

****Usage:****

make REDOC_HTML_OUTPUT

No underlying shell commands found in this target.

4.3.5 `SWAGGER`

****Depends on:**** =, npx, swagger-cli

****Usage:****

make SWAGGER

No underlying shell commands found in this target.

4.4 SDK

4.4.1 `SDKS_DIR`

****Depends on:**** =, sdks

****Usage:****

make SDKS_DIR

No underlying shell commands found in this target.

4.7 Testing & QA

4.7.1 `ADD_TESTS_SCRIPT`

****Depends on:**** =, \$(SCRIPTS_DIR)/active/add_tests.js

****Usage:****

make ADD_TESTS_SCRIPT

No underlying shell commands found in this target.

4.7.2 `NEWMAN`

****Depends on:**** =, npx, newman

****Usage:****

make NEWMAN

No underlying shell commands found in this target.

4.7.3 `PRISM`

****Depends on:**** =, npx, @stoplight/prism-cli

****Usage:****

make PRISM

No underlying shell commands found in this target.

4.7.4 `TEST_COLLECTION_WITH_JWT_TESTS`

****Depends on:**** =, \$(POSTMAN_DIR)/generated/c2mapiv2-test-collection-jwt.json

****Usage:****

make TEST_COLLECTION_WITH_JWT_TESTS

No underlying shell commands found in this target.

4.7.5 `TEST_DATA_DIR`

****Depends on:**** =, test-data

****Usage:****

make TEST_DATA_DIR

No underlying shell commands found in this target.

4.8 Environment & Install

4.8.1 `INSTALL_PYTHON_MODULES`

****Depends on:**** =, install, -r, \$(SCRIPTS_DIR)/python_env/requirements.txt

****Usage:****

make INSTALL_PYTHON_MODULES

No underlying shell commands found in this target.

4.8.2 `VENV_DIR`

****Depends on:**** =, \$(PYTHON_ENV_DIR)/e2o.venv

****Usage:****

make VENV_DIR

No underlying shell commands found in this target.

4.8.3 `VENV_PIP`

****Depends on:**** =, \$(VENV_DIR)/bin/pip

****Usage:****

make VENV_PIP

No underlying shell commands found in this target.

4.8.4 `VENV_PYTHON`

****Depends on:**** =, \$(VENV_DIR)/bin/python

****Usage:****

make VENV_PYTHON

No underlying shell commands found in this target.

4.9 Miscellaneous

4.9.1 `ADD_EXAMPLES_TO_COLLECTION`

****Depends on:**** =, \$(ADD_EXAMPLES_TO_COLLECTION_SCRIPT),
\$(ADD_EXAMPLES_TO_COLLECTION_ARGS)

****Usage:****

make ADD_EXAMPLES_TO_COLLECTION

No underlying shell commands found in this target.

4.9.2 `ADD_EXAMPLES_TO_COLLECTION_ARGS`

****Depends on:**** =, --input, \$(POSTMAN_COLLECTION_RAW), --output,
\$(POSTMAN_TEST_COLLECTION_WITH_EXAMPLES)

****Usage:****

make ADD_EXAMPLES_TO_COLLECTION_ARGS

No underlying shell commands found in this target.

4.9.3 `ADD_EXAMPLES_TO_COLLECTION_SCRIPT`

****Depends on:**** =, node,
\$(SCRIPTS_DIR)/test_data_generator_for_collections/addRandomDataToRaw.js

****Usage:****

make ADD_EXAMPLES_TO_COLLECTION_SCRIPT

No underlying shell commands found in this target.

4.9.4 `C2MAPIV2_MAIN_SPEC_PATH`

****Depends on:**** =, origin/main:\$(C2MAPIV2_OPENAPI_SPEC)

****Usage:****

make C2MAPIV2_MAIN_SPEC_PATH

No underlying shell commands found in this target.

4.9.5 `C2M_WS`

****Depends on:**** =, c740f0f4-0de2-4db3-8ab6-f8a0fa6fbeb1

****Usage:****

make C2M_WS

No underlying shell commands found in this target.

4.9.6 `CUR-DIR`

****Depends on:**** =, \$(shell, pwd)

****Usage:****

make CUR-DIR

No underlying shell commands found in this target.

4.9.7 `DATA_DICT_DIR`

****Depends on:**** =, data_dictionary

****Usage:****

make DATA_DICT_DIR

No underlying shell commands found in this target.

4.9.8 `FIX_COLLECTION_URLS`

****Depends on:**** =, \$(SCRIPTS_DIR)/active/fix_collection_urls_v2.py

****Usage:****

make FIX_COLLECTION_URLS

No underlying shell commands found in this target.

4.9.9 `FIX_PATHS_SCRIPT`

****Depends on:**** =, \$(SCRIPTS_DIR)/jq/fix_paths.jq

****Usage:****

make FIX_PATHS_SCRIPT

No underlying shell commands found in this target.

4.9.10 `GENERATOR_OFFICIAL`

****Depends on:**** =, npx, openapi-to-postmanv2

****Usage:****

make GENERATOR_OFFICIAL

No underlying shell commands found in this target.

4.9.11 `JQ_ADD_INFO`

****Depends on:**** =, --arg, name, "\$\$(POSTMAN_LINKED_COLLECTION_NAME)", '., as, \$\$c, |, {info:, {name:, \$\$name, schema:, "\$\$(POSTMAN_SCHEMA_V2)"}, item:, \$\$c.item}'

****Usage:****

make JQ_ADD_INFO

No underlying shell commands found in this target.

4.9.12 `JQ_ADD_INFO_FILE`

****Depends on:**** =, \$(JQ_DIR)/add_info.jq

****Usage:****

make JQ_ADD_INFO_FILE

No underlying shell commands found in this target.

4.9.13 `JQ_AUTO_FIX`

****Depends on:**** =, jq, 'walk(if, type, ==, "object", and, (has("name"), and, (has("request"), |, not), and, (has("item"), |, not)), then, ., +, {, "item":, [], }, else, ., end)'

****Usage:****

make JQ_AUTO_FIX

No underlying shell commands found in this target.

4.9.14 `JQ_AUTO_FIX_FILE`

****Depends on:**** =, \$(JQ_DIR)/auto_fix.jq

****Usage:****

make JQ_AUTO_FIX_FILE

No underlying shell commands found in this target.

4.9.15 `JQ_DIR`

****Depends on:**** =, scripts/jq

****Usage:****

make JQ_DIR

No underlying shell commands found in this target.

4.9.16 `JQ_FIX_URLS`

****Depends on:**** =, jq, 'walk(if, type, ==, "object", and, has("url"), and, (.url, |, type), ==, "object", and, .url.raw, then, .url.raw, |=, sub("http://localhost";, "{baseUrl}"), else, ., end)'

****Usage:****

make JQ_FIX_URLS

No underlying shell commands found in this target.

4.9.17 `JQ_FIX_URLS_FILE`

****Depends on:**** =, \$(JQ_DIR)/fix_urls.jq

****Usage:****

make JQ_FIX_URLS_FILE

No underlying shell commands found in this target.

4.9.18 `JQ_SANITIZE_COLLECTION_FILE`

****Depends on:**** =, \$(JQ_DIR)/sanitize_collection.jq

****Usage:****

make JQ_SANITIZE_COLLECTION_FILE

No underlying shell commands found in this target.

4.9.19 `JQ_VERIFY_URLS`

****Depends on:**** =, jq, -r, '...', |, objects, |, select(has("url")), |, .url.raw?, //, empty'

****Usage:****

make JQ_VERIFY_URLS

No underlying shell commands found in this target.

4.9.20 `JQ_VERIFY_URLS_FILE`

****Depends on:**** =, \$(JQ_DIR)/verify_urls.jq

****Usage:****

make JQ_VERIFY_URLS_FILE

No underlying shell commands found in this target.

4.9.21 `LOCALHOST_URL`

****Depends on:**** =, http://127.0.0.1

****Usage:****

make LOCALHOST_URL

No underlying shell commands found in this target.

4.9.22 `LOG-DIR`

****Depends on:**** =, \$(CUR-DIR)/make-logs

****Usage:****

make LOG-DIR

No underlying shell commands found in this target.

4.9.23 `MERGE_SCRIPT`

****Depends on:**** =, \$(SCRIPTS_DIR)/jq/merge.jq

****Usage:****

make MERGE_SCRIPT

No underlying shell commands found in this target.

4.9.24 `NODE_COLLECTION_VALIDATE`

```
**Depends on:** =, node, -e, "const, {Collection}=require('postman-collection');, const, fs=require('fs');, const, data=JSON.parse(fs.readFileSync('${POSTMAN_TEST_COLLECTION_FIXED}','utf8'));, try, {, new, Collection(data);, console.log('■, Collection, is, valid.');
```

```
**, catch(e), {, console.error('■, Validation, failed:', e.message);, process.exit(1);, }"
```

```
**Usage:**  
make NODE_COLLECTION_VALIDATE
```

No underlying shell commands found in this target.

4.9.25 `PYTHON`

```
**Depends on:** =, $(PYTHON3)
```

```
**Usage:**
```

```
make PYTHON
```

No underlying shell commands found in this target.

4.9.26 `PYTHON3`

```
**Depends on:** =, python3
```

```
**Usage:**
```

```
make PYTHON3
```

No underlying shell commands found in this target.

4.9.27 `PYTHON_ENV_DIR`

```
**Depends on:** =, $(SCRIPTS_DIR)/python_env
```

```
**Usage:**
```

```
make PYTHON_ENV_DIR
```

No underlying shell commands found in this target.

4.9.28 `Q`

```
**Depends on:** =, $(if, $(filter, 1,$(V)),,@)
```

```
**Usage:**
```

```
make Q
```

No underlying shell commands found in this target.

4.9.29 `REPORT_HTML`

```
**Depends on:** =, $(POSTMAN_DIR)/newman-report.html
```

```
**Usage:**
```

```
make REPORT_HTML
```

No underlying shell commands found in this target.

4.9.30 `SCRIPTS_DIR`

****Depends on:**** =, scripts

****Usage:****

make SCRIPTS_DIR

No underlying shell commands found in this target.

4.9.31 `SERRAO_WS`

****Depends on:**** =, d8a1f479-a2aa-4471-869e-b12feea0a98c

****Usage:****

make SERRAO_WS

No underlying shell commands found in this target.

4.9.32 `SHELL`

****Depends on:**** =, bash

****Usage:****

make SHELL

No underlying shell commands found in this target.

4.9.33 `SPECTRAL`

****Depends on:**** =, npx, @stoplight/spectral-cli

****Usage:****

make SPECTRAL

No underlying shell commands found in this target.

4.9.34 `TEMPLATES_DIR`

****Depends on:**** =, \$(DOCS_DIR)/templates

****Usage:****

make TEMPLATES_DIR

No underlying shell commands found in this target.

4.9.35 `TOKEN`

****Depends on:**** =, \$(if, \$(TOKEN_RAW),\$(TOKEN_RAW),dummy-token)

****Usage:****

make TOKEN

No underlying shell commands found in this target.

4.9.36 `TOKEN_RAW`

```
**Depends on:** =, $(shell, [, -f, $(POSTMAN_ENV_FILE), ], &&, jq, -r, 'environment.values[], |,
select(.key=="token"), |, .value', $(POSTMAN_ENV_FILE), 2>/dev/null, ||, echo, "")
```

```
**Usage:**
```

```
make TOKEN_RAW
```

```
_No underlying shell commands found in this target._
```

```
#### 4.9.37 `VARS_OLD`
```

```
**Depends on:** =, $(.VARIABLES)
```

```
**Usage:**
```

```
make VARS_OLD
```

```
_No underlying shell commands found in this target._
```

```
#### 4.9.38 `WIDDERSHINS`
```

```
**Depends on:** =, npx, widdershins
```

```
**Usage:**
```

```
make WIDDERSHINS
```

```
_No underlying shell commands found in this target._
```

5.0 Usage Examples

- Full pipeline:

```
make postman-instance-build-and-test
```

- Generate OpenAPI spec:

```
make openapi-build
```

- Serve docs locally:

```
make docs-serve
```

6.0 Getting Started Walkthrough

1. ****Install prerequisites****

```
make install
```

2. ****Build spec & lint****

```
make openapi-build
```

```
make openapi-spec-lint
```

3. ****Import to Postman & create resources****

```
make postman-import-openapi-spec
```

```
make postman-create-linked-collection
```

```
make postman-create-test-collection
```

```
make postman-env-create
```

```
make postman-mock-create
```

4. ****Run tests****

```
make run-postman-and-prism-tests
```

5. ****Generate & serve docs****

```
make docs-build  
make docs-serve
```

7.0 Troubleshooting

- ****Unauthorized Postman calls****: Check `POSTMAN_*_API_KEY` values in `.env`.
- ****Prism not found****: `npm install -g @stoplight/prism-cli`.
- ****Docs build errors****: Validate YAML and overlays, and ensure Redocly is installed: `npm i -g @redocly/cli`.
- ****Lint failures****: Run `make openapi-spec-lint` and fix reported issues.

8.0 Tips & Tricks

- Run with verbose output: `make V=1 target`.
- Chain multiple targets: `make lint docs-build deploy-docs`.
- Clean selectively: `make cleanup-openapi`, `make cleanup-docs`, or all: `make cleanup-all`.

9.0 CI/CD Integration Guide

Create `.github/workflows/build.yml`:

```
name: C2M API V2 Build & Deploy  
on:  
  push:  
    branches: ["main"]  
  pull_request:  
    branches: ["main"]  
jobs:  
  build:  
    runs-on: ubuntu-latest  
    steps:  
      - uses: actions/checkout@v4  
      - uses: actions/setup-node@v4  
        with:  
          node-version: '20'  
      - uses: actions/setup-python@v5  
        with:  
          python-version: '3.11'  
      - name: Install dependencies  
        run: make install  
      - name: Full pipeline  
      env:  
        POSTMAN_SERRAO_API_KEY: ${ secrets.POSTMAN_SERRAO_API_KEY }
```

```

    POSTMAN_C2M_API_KEY: ${ secrets.POSTMAN_C2M_API_KEY }
    run: make postman-instance-build-and-test
- name: Deploy docs
  if: github.ref == 'refs/heads/main'
  run: make deploy-docs

```

10.0 Local Development Quickstart

Add this to your Makefile for a convenient local flow:

```

dev: install openapi-build openapi-spec-lint postman-import-openapi-spec postman-create-linked-coll
  @echo "■ Local environment ready. Docs served, Postman collections & mocks available."

```

Run:

```
make dev
```

11.0 Diagrams

11.1 Dependency Map (All-in-one)

```

graph TD;
    A[postman-instance-build-and-test]
      --> B[openapi-build]
      --> C[postman-import-openapi-spec]
      --> D[postman-create-linked-collection]
      --> E[postman-create-test-collection]
      --> F[postman-env-create]
      --> G[postman-mock-create]
      --> H[docs-build]
      --> I[run-postman-and-prism-tests]

```

11.2 OpenAPI Workflow

```

graph TD;
    A[ebnf-dd-to-openapi-spec] --> B[openapi-build];
    B --> C[openapi-spec-lint];
    B --> D[openapi-spec-diff];

```

11.3 Postman Workflow

```

graph TD;
    I[postman-import-openapi-spec] --> J[postman-create-linked-collection];
    J --> K[postman-linked-collection-upload];
    I --> M[postman-create-test-collection];
    I --> Q[postman-env-create];
    I --> T[postman-mock-create];

```

11.4 Docs Workflow


```
graph TD;
    U[docs-build] --> V[docs-serve];
    U --> X[deploy-docs];
    U --> Y[cleanup-docs];
```

11.5 CI/CD Orchestration

```
graph TD;
    Z[postman-instance-build-and-test] --> U[docs-build];
    Z --> I[run-postman-and-prism-tests];
```

11.6 make dev Flow

```
graph TD;
    A[make dev] --> B[install];
    B --> C[openapi-build];
    C --> D[openapi-spec-lint];
    D --> E[postman-import-openapi-spec];
    E --> F[postman-create-linked-collection];
    E --> G[postman-create-test-collection];
    G --> H[postman-env-create];
    H --> I[postman-mock-create];
    I --> J[docs-build];
    J --> K[docs-serve];
```

11.7 Target Groups Overview

```
graph LR;
    subgraph OpenAPI
        A1[openapi-build]; A2[openapi-spec-lint]; A3[openapi-spec-diff];
    end
    subgraph Postman
        B1[postman-import-openapi-spec]; B2[postman-create-linked-collection]; B3[postman-create-test-c];
        B4[postman-env-create]; B5[postman-mock-create];
    end
    subgraph Docs
        C1[docs-build]; C2[docs-serve]; C3[deploy-docs]; C4[cleanup-docs];
    end
    subgraph SDK
        D1[generate-sdk]; D2[generate-sdk-all]; D3[clean-sdk];
    end
    subgraph Cleanup
        E1[cleanup-all]; E2[cleanup-openapi]; E3[postman-cleanup-all];
    end
```

11.8 Troubleshooting Flow

```
graph TD;
    A[Error Occurs] --> B{Type of Error?};
    B --> C[OpenAPI Lint Failure];
    B --> D[Postman API Error];
    B --> E[Prism Mock Server Fails];
```

```

B --> F[Docs Build Error];
C --> C1[Run make openapi-spec-lint];
C1 --> C2[Fix schema/formatting];
D --> D1[Check API keys in .env];
D --> D2[Run make postman-apis to validate];
E --> E1[Install prism-cli];
E --> E2[Verify spec with linter];
F --> F1[Check Redocly installation];
F --> F2[Run make docs-build V=1];

```

11.9 Release Process

```

graph TD;
  A[Develop] --> B[Version Bump & Changelog];
  B --> C[Tag Release];
  C --> D[Push Tag];
  D --> E[CI/CD: Build, Test, Docs];
  E --> F[GitHub Release + Artifacts];

```

11.10 Hotfix Process

```

graph TD;
  A[Main] --> B[hotfix/X.Y.Z+1];
  B --> C[Fix & Validate];
  C --> D[Tag & Push];
  D --> E[CI/CD Release];
  E --> F[Merge to Main & Develop];

```

12.0 Glossary

- **EBNF**: Grammar used to define the API data dictionary.
- **OpenAPI**: Specification describing REST APIs (YAML/JSON).
- **Postman API**: Postman entity holding specs, collections, etc.
- **Prism**: Mock server & validator for OpenAPI.
- **Newman**: CLI for running Postman collections.
- **Redocly**: CLI/Docs tooling for OpenAPI.
- **Swagger UI**: Browser-based UI for OpenAPI docs.
- **Workspace**: Postman container for APIs, collections, envs.

13.0 Onboarding Checklist

1. Clone repo and run `make install`.
2. Create `.env` with Postman API keys.
3. Build & lint the OpenAPI spec.
4. Import into Postman; create collections/envs/mocks.
5. Run tests; build/serve docs.

14.0 Maintenance Guide

- Update Node/Python deps periodically.
- Rotate Postman API keys and update ``.env``.
- Clean old Postman resources with cleanup targets.
- Validate spec regularly with lint and diff.

15.0 Roadmap (Ideas)

- Add ``make update`` for dependency refresh.
- Parallelize CI steps and cache dependencies.
- Add security linting and secret scanning.
- Versioned docs and automated SDK publishing.

16.0 Versioning Strategy

- Keep versioned directories under ``openapi/vN/``.
- Version Postman collections/environments per API version.
- Use matrix CI for building multiple versions.

17.0 Release Management

- Follow SemVer (MAJOR.MINOR.PATCH).
- Generate changelog from spec diffs.
- Tag releases and publish GitHub Releases with artifacts.

18.0 Post-Release Monitoring

- Track usage, errors, and feedback via Postman Analytics and logs.
- Schedule periodic health checks via CI to run mock tests.

19.0 Hotfix Workflow

- Branch from ``main``, patch, bump PATCH version, tag, release, merge back to ``main`` and ``develop``.

20.0 Appendices

20.1 References & Resources

- OpenAPI: <https://spec.openapis.org/>
- Postman API: <https://learning.postman.com/docs/developer/intro-api/>
- Prism: <https://github.com/stoplighio/prism>
- Redocly: <https://redocly.com/docs/cli/>
- Swagger UI: <https://github.com/swagger-api/swagger-ui>
- Newman: <https://learning.postman.com/docs/collections/using-newman-cli/>
- GitHub Actions: <https://docs.github.com/en/actions>
- SemVer: <https://semver.org/>

20.2 `.env.example`

```
POSTMAN_SERRAO_API_KEY=your-postman-api-key-here
POSTMAN_C2M_API_KEY=your-alt-postman-api-key-here
OPENAPI_VERSION=v2
DOCS_OUTPUT_DIR=docs/v2
BASE_URL=https://api.example.com
MOCK_SERVER_URL=https://mock.example.com
AWS_PROFILE=default
AWS_REGION=us-east-1
```

20.3 Cheatsheet (Most-used Targets)

- `make openapi-build` – build spec
- `make openapi-spec-lint` – lint spec
- `make postman-import-openapi-spec` – import into Postman
- `make postman-create-test-collection` – create test collection
- `make postman-mock-create` – create mock
- `make run-postman-and-prism-tests` – run tests
- `make docs-build && make docs-serve` – docs
- `make postman-cleanup-all` – cleanup

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