

# CTB Flash Integration

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# CTB Integration as part of FLASH

at this document we will define how CTB will be integrated as part of FLASH TRACE CONVERSION FLOW.

## Introduction

to scale CTT technology, CTT atomic patterns are required to be easily generated for all content type and flows, based no MPE current pattern-generation flow, integrating CTB as part of trace convert flow & TRC2ATE is the best approach to accomplish this, since there are several trace-generation flows but a single pattern generation flow, therefore, integrating CTB tool as part of TRACE-CONVERT flow will encapsulate the differences and make the marking flow simpler & eaiser.

## CTB-WRAPPER Version integration into FLASH

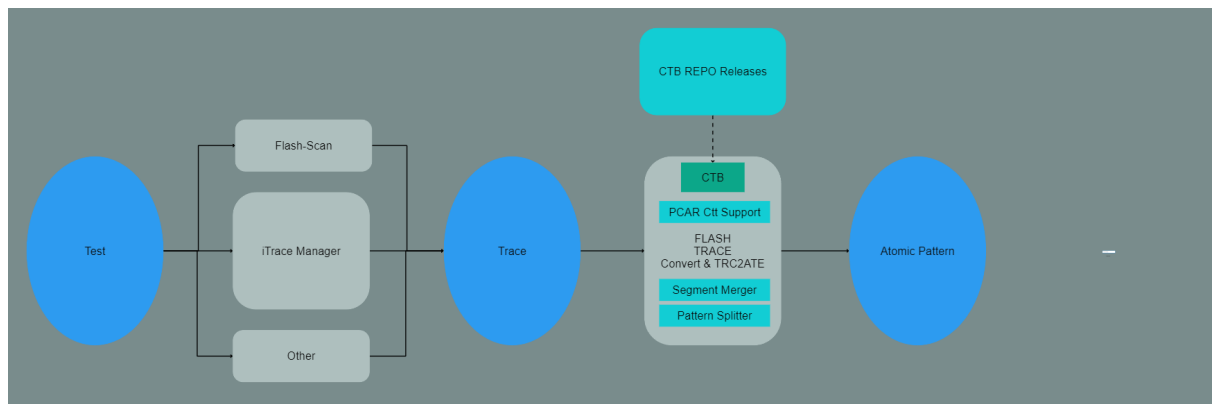
TRACE\_CONVERT/TRACE2ATE will call a "ctb-wrapper" tool providing Project & Step as well, the wrapper will resolve the acutal CTB version to be executed and perform the execution, the motivation of using ctb-wrapper tool is to encapsulate CTB releases from FLASH and keep the product teams to be the decesion makers.

## Pre Requisite

users must have access to CTB CRT releases area Group Permissions: **soc**

## Flow Diagram

CTB will be integrated at the pattern conversion tools and will handle all the traces regardless of the trace-generated flow (iTraceMgr,FlashScan, other..)



high\_level\_flow.png

## CTB integration in details

```
ctb-wrapper mark --cfg [CFG_FILE JSON] --stil [STIL] --metadata [METADATA JSON] --rundir [RUNDIR] --result_name [ctb_mark_result.json]
```

## Inputs

### CFG File

the configuration file will include all parameters required for CTB to be executed, as follows:

```
{
  "product": "LNL",
  "step": "B0",
  "tag" : null,
  "version_override": null,
  "custom_marker": "MARKER_ALIAS_NAME",
  "backdoor1": "value1"
}
```

### STIL

full path to the stil file to be marked

### METADATA File

the metadata file will contain the pattern name disassemble information in both bit & full value

```
{
  "naming_metadata": {
    "namefield1": {
      "bit": "bit_value",
      "full": "full_value"
    },
    "namefield2": {
      "bit": "bit_value2",
      "full": "full_value2"
    }
  }
}
```

```
}  
}
```

## RUNDIR

full path to a folder where CTB can create logs and other files required for the transformation

## Result Name

the name of the file that will hold the result information of the marking - default: `ctb_mark_result.json` the file will be located at the supplied RUNDIR (e.g. `RUNDIR/ctb_mark_result.json`)

## Outputs

CTB will create a JSON file that contains full path to the marked STIL, exit-status and error message incase of any issue

Exit Codes:

Exit Code	Description
0	SUCCESS
Other	FAILURE

## Output Json structure

in-case of success run:

```
{  
  "preMarkInputFile": "FULL_PATH_TO_INPUT_FILE",  
  "postMarkInputFile": "FULL_PATH_TO_OUTPUT_FILE",  
  "exitStatus" : 0,  
  "errorMessage" : null  
}
```

in-case of failure run:

```
{  
  "preMarkInputFile": "FULL_PATH_TO_INPUT_FILE",  
  "postMarkInputFile": null,  
  "exitStatus" : "4",  
}
```

```
"errorMessage" : "Failed to find a marker script to handle the input  
stimulus"  
}
```

## Opens

- define how CTB version override will be supported?
- define how CTB backdoor flags can be supplied from the user