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SSB Retuning Automations - User Guide



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Technical User Guide — SSB Retuning Automations

1 Tool overview

SSB Retuning Automations is an automation platform for SSB retuning projects that can run in GUI or CLI mode or through a Web Interface (using a server/client infrastructure) and orchestrates five functional modules:

- **Module 0:** Update Network Frequencies.
- **Module 1:** Configuration Audit & Logs Parser.
- **Module 2:** Consistency Check (manual Pre/Post).
- **Module 3:** Consistency Check Bulk (automatic Pre/Post detection by market).
- **Module 4:** Final Clean-Up.

The main execution lives in "src/SSB_RetuningAutomations.py", where CLI arguments, GUI, configuration persistence, input resolution (folders/ZIP), per-module execution, and artifact versioning are managed.

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2 Repository technical architecture

2.1 Main files

2.1.1 Orchestration core

- "src/SSB_RetuningAutomations.py": entry point, CLI/GUI parsing, module routing, batch/bulk execution, and versioning.

2.1.2 Main modules files

- "src/modules/ConfigurationAudit/ConfigurationAudit.py": log parsing and audit workbook construction (Excel + PPT).
- "src/modules/ConfigurationAudit/ca_summary_excel.py": assembly of "SummaryAudit" and discrepancy dataframes.
- "src/modules/ConsistencyChecks/ConsistencyChecks.py": PRE/POST loading, relation comparison, discrepancies, and output export.
- "src/modules/ProfilesAudit/ProfilesAudit.py": profiles audit (integrated into module 1).
- "src/modules/CleanUp/FinalCleanUp.py": final clean-up (base implementation for extension).

2.1.3 Common layer and utilities

- "src/modules/Common/*.py": correction command logic and shared functions.
- "src/utils/*.py": IO, parsing, frequency handling, Excel, pivots, sorting, infrastructure, and timing.

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3 Inputs, outputs, and content per module

3.1 Module 0 — Update Network Frequencies

3.1.1 Input

- Input folder (may contain subfolders/ZIPs already supported by the IO layer).
- Logs with an "NRFrequency" table and the "arfcnValueNRDI" column.

3.1.2 Process

1. Scan logs and detects "NRFrequency" blocks.
2. Extracts numeric values from "arfcnValueNRDI".
3. Removes duplicates and sorts frequencies.
4. Updates the persisted "Network frequencies" configuration for GUI/CLI.

3.1.3 Output

- Does not generate Excel/PPT.
- Updates the persisted network frequency value used for filtering and selection in later runs.

3.1.4 Detailed implementation notes

- The module reuses the same input resolver used by the other modules ("ensure_logs_available"), so it can consume either plain folders or folders containing ZIPs without changing operator workflow.
- It scans **all** detected logs, slices each "SubNetwork" block, and processes only blocks where MO name is exactly "NRFrequency".
- Inside each "NRFrequency" block, it reads "arfcnValueNRDI", keeps only strictly numeric values, deduplicates, and sorts numerically.
- The resulting list is persisted to "config.cfg" in "network_frequencies" and also loaded in-memory into the "NETWORK_FREQUENCIES" global list.
- In practice, this module should be executed after collecting representative logs from the network and then only when new frequencies are introduced. For stable markets, running it once is usually enough.

3.1.5 Impact on GUI and Web Interface

- **Desktop GUI:** when launching in GUI mode (no CLI args), the app loads "network_frequencies" from "config.cfg" and uses that list as the selectable values shown to users.

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- **Web Interface:** the backend endpoint loading defaults first tries persisted "network_frequencies"; if empty, it falls back to parsing the hardcoded defaults from "SSB_RetuningAutomations.py".
- This means Module 0 is the canonical mechanism to keep both interfaces aligned with real network frequency inventory.

3.2 Module 1 — Configuration Audit & Logs Parser

3.2.1 Inputs

- Input folder with logs ("log", ".logs", ".txt") or ZIPs resolvable by utilities.
- Frequency parameters:
 - "n77_ssbb_pre"
 - "n77_ssbb_post"
 - "n77b_ssbb"
 - allowed SSB/ARFCN lists pre/post.
- Flags:
 - "profiles_audit"
 - "frequency_audit"
 - "export_correction_cmd"
 - "fast_excel_export".

3.2.2 Process

1. Parses files and extracts MO tables by "SubNetwork" blocks.
2. Generates one sheet per detected table.
3. Builds "SummaryAudit" + pivots/auxiliary summaries.
4. Runs profiles audit if enabled.
5. Exports CA correction commands if requested.
6. Generates the summary PPT.

3.2.3 Outputs

- Folder "ConfigurationAudit_<timestamp>_v<version>/".
- Excel file "ConfigurationAudit_<timestamp>_v<version>.xlsx":

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- Sheets for each parsed MO table.
- "SummaryAudit".
- NR/LTE parameter discrepancy sheets.
- Summary/pivot sheets by frequencies and relations.
- PPT file "ConfigurationAudit_<timestamp>_v<version>.pptx".
- Optional folder "Correction_Cmd_CA/" with AMOS commands.

3.2.4 Main semantic content

- **SummaryAudit** contains rows with:
- "Category", "SubCategory", "Metric", "Value", "ExtraInfo",
- and execution context fields (stage, module, etc. depending on the flow).
- "Value" usually represents a count of impacted nodes/cells/relations.
- "ExtraInfo" contains the NodeId list or a compact discrepancy detail.

3.3 Module 2 — Consistency Check (Pre/Post)

3.3.1 Inputs

- "input_pre" and "input_post" (or equivalent resolved structure).
- Frequencies "n77_ssbb_pre" and "n77_ssbb_post".
- Optional reference to PRE and POST "ConfigurationAudit" to enrich target classification.
- Optional list of frequency filters ("cc_freq_filters").

3.3.2 Process

1. Loads relation tables ("GUtranCellRelation", "NRCellRelation").
2. Normalizes columns/keys and selects the most recent snapshots by date.
3. Detect:
 - new relations,
 - missing relations,
 - parameter discrepancies,
 - frequency discrepancies,

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- summary by PRE/POST frequency pair.
4. Classify destination targets as "SSB-Pre", "SSB-Post" or "Unknown".
5. Exports detailed Excel outputs and correction commands.

3.3.3 Outputs

- "CellRelation_<timestamp>_v<version>.xlsx" (end-to-end relations view).
- "ConsistencyChecks_CellRelation_<timestamp>_v<version>.xlsx" with:
 - "Summary"
 - "SummaryAuditComparisson" (if there is PRE/POST SummaryAudit)
 - "Summary_CellRelation"
- GU blocks: "GU_relations", "GU_param_disc", "GU_freq_disc", "GU_freq_disc_unknown", "GU_missing", "GU_new"
- NR blocks: "NR_relations", "NR_param_disc", "NR_freq_disc", "NR_freq_disc_unknown", "NR_missing", "NR_new"
- optional "GU_all", "NR_all".
- "Correction_Cmd_CC/" with commands per type (new/missing/discrepancies).

3.4 Module 3 — Consistency Check Bulk

3.4.1 Inputs

- Root folder with subfolders like "yyyymmdd_hhmm_step0" (optionally nested by market).

3.4.2 Process

1. Detects PRE/POST candidates by the most appropriate date/time.
2. Excludes folders using a blacklist ("ignore", "old", "bad", "partial", "incomplete", "discard", etc.).
3. Runs Module 2 for each detected market.

3.4.3 Outputs

- Same output structure as module 2, per market.
- Traceability file "FoldersCompared.txt".

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3.5 Module 4 — Final Clean-Up

3.5.1 Inputs

- Final retune working folder.

3.5.2 Process

- Executes final cleanup policies (structure prepared to expand rules).

3.5.3 Outputs

- Versioned cleanup directory according to the active implementation.

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4 Execution Modes and Versioning

- **GUI mode:** run without CLI arguments.
- **CLI mode:** run with explicit module and options.
- **Web Interfacee:** the tool can be run in a server/client infrastructure, accessing the server through a Web Interface where you can upload your inputs, enqueue different tasks and export the results when finish..

All Generated artifacts include a versioned suffix: "<timestamp>_v<TOOL_VERSION>".

This guarantees traceability and avoids collisions between runs.

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5 Configuration Audit module in detail

5.1 SummaryAudit checks philosophy

SummaryAudit sheet contains a high-level checks table by categories. The flow:

1. Excludes "UNSYNCHRONIZED" nodes based on "MeContext".
2. Evaluates NR, LTE, ENDC, Externals, TermPoints, cardinalities, and profiles.
3. Records each check as a row ("Category/SubCategory/Metric/Value/ExtraInfo").

5.2 Operational meaning of SummaryAudit rows

- **Category:** audited technical domain (NR/LTE/ENDC/MeContext/etc.).
- **SubCategory:** type of analysis (Audit/Inconsistencies/Profiles).
- **Metric:** specific rule evaluated.
- **Value:**
 - Integer: number of affected nodes/relations/cells.
 - "N/A": not evaluable due to missing columns.
 - Text: captured status or error.
- **ExtraInfo:** list of nodes or bounded detail for troubleshooting.

5.3 SummaryAudit checks catalog

MeContext Audit

Source tables: "MeContext".

Main checks:

- Total unique nodes.
- Nodes with syncStatus="UNSYNCHRONIZED" (excluded from the rest of the audits).

Complete Checks List:

Category	SubCategory	Metric	Tips
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MeContext	MeContext Audit	Total unique nodes	MeContext table to create lists of sites for implementation
MeContext	MeContext Audit	Nodes with syncStatus="UNSYNCHRONIZED" (being excluded in all Audits)	Unsynch nodes excluded in Audits and Implementation

5.5 NR Frequency Audit / NR Frequency Inconsistencies

Source tables: "NRCellIDU", "NRFrequency", "NRFreqRelation", "NRSectorCarrier", "NRCellRelation", "ExternalNRCellCU", "TermPointToGNodeB", "TermPointToGNB".

Main checks:

- Detection of NR nodes with N77 SSB (band 646600–660000).
- Classification of NR nodes as LowMidBand / mmWave / mixed.
- Nodes whose N77 SSBs are fully within allowed PRE or POST lists.
- Nodes with N77 SSB outside allowed lists.
- Old/new SSB presence per node (only old, only new, both).
- Nodes with NRFreqRelationId in an unexpected format (auto-created outside convention).
- NR relations to old/new SSB.
- NR externals and termpoints pointing to old/new/unknown.

Typical triggering:

- Each check is enabled if the table and minimum required columns exist.
- If columns are missing, a "N/A" status row is added.
- If the table is empty or not found, an informative row "Table not found or empty" is added.

Interpretation:

- "Value > 0" in inconsistencies indicates a real deviation that requires investigation.
- "ExtraInfo" typically lists affected nodes for operational targeting.

Complete Checks List:

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Category	SubCategory	Metric	Tips
NRCellIDU	NR Frequency Audit	NR Nodes with ssbFrequency	
NRCellIDU	NR Frequency Audit	NR LowMidBand Nodes	
NRCellIDU	NR Frequency Audit	NR mmWave Nodes	
NRCellIDU	NR Frequency Audit	NR nodes with N77 SSB in band (646600-660000)	
NRCellIDU	NR Frequency Audit	NR nodes with N77 SSB in Pre-Retune allowed list (648672, 653952)	Nodes with Step2b pending
NRCellIDU	NR Frequency Audit	NR nodes with N77 SSB in Post-Retune allowed list (647328, 653952)	Nodes with Step2b completed
NRCellIDU	NR Frequency Inconsistencies	NR nodes with N77 SSB not in Pre/Post Retune allowed lists	These nodes must be checked in preparation phase and confirm if any special action needed
NRSectorCarrier	NR Frequency Audit	NR nodes with N77 ARCFN in band (646600-660000)	
NRSectorCarrier	NR Frequency Audit	NR nodes with N77 ARCFN in Pre-Retune allowed list (650006, 654652, 655324, 655984, 656656)	Nodes with Step2b pending
NRSectorCarrier	NR Frequency Audit	NR nodes with N77 ARCFN in Post-Retune allowed list (650006, 654648, 655320, 655980, 656652)	Nodes with Step2b completed
NRSectorCarrier	NR Frequency Inconsistencies	NR nodes with N77 ARCFN not in Pre/Post Retune allowed lists	These nodes must be checked in preparation phase and confirm if any special action needed
NRFreqRelation	NR Frequency Audit	NR nodes with the old N77 SSB (648672)	
NRFreqRelation	NR Frequency Audit	NR nodes with the new N77 SSB (647328)	

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NRFreqRelation	NR Frequency Audit	NR nodes with both, the old N77 SSB (648672) and the new N77 SSB (647328)	
NRFreqRelation	NR Frequency Audit	NR nodes with the old N77 SSB (648672) but without the new N77 SSB (647328)	Need to run Step1 on these nodes
NRFreqRelation	NR Frequency Audit	NR nodes with some cells missing relations to new SSB (647328)	Nodes with any relations Step1 pending
NRFreqRelation	NR Frequency Audit	NR nodes with the new N77 SSB (647328) NRFreqRelation pointing to mcpcPCellNrFreqRelProfileRef containing new SSB name (cloned) or Other	Nodes with Step1 completed
NRFreqRelation	NR Frequency Inconsistencies	NR nodes with the N77 SSB not in (648672, 647328)	
NRFreqRelation	NR Frequency Inconsistencies	NR nodes with Auto-created NRFreqRelationId to new N77 SSB (647328) but not following VZ naming convention (e.g. with extra characters: "auto_647328")	
NRFreqRelation	NR Frequency Inconsistencies	NR Nodes with the new N77 SSB (647328) and NRFreqRelation reference to McpcPCellNrFreqRelProfile with old SSB before "_" (648672_xxxx)	Need to review Step2b execution
NRFreqRelation	NR Frequency Inconsistencies	NR nodes with the old N77 SSB (648672) and the new SSB (647328) NRFreqRelation pointing to same mcpcPCellNrFreqRelProfileRef containing old SSB name	Need to run Step1 on these nodes
NRFreqRelation	NR Frequency Inconsistencies	NR nodes with mismatching params (cell-level) between old N77 SSB (648672) and the new N77 SSB (647328)	Need to review. Step1 run could solve most cases
NRCellRelation	NR Frequency Audit	NR cellRelations to old N77 SSB (648672)	Post Step2 some relations pointing to other Mkts could be on

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			old SSB. See details in table
NRCellRelation	NR Frequency Audit	NR cellRelations to new N77 SSB (647328)	
ExternalNRCelICU	NR Frequency Audit	External cells to old N77 SSB (648672)	PN and DAS might have no External relations defined
ExternalNRCelICU	NR Frequency Audit	External cells to new N77 SSB (647328)	PN and DAS might have no External relations defined

5.6 LTE Frequency Audit / LTE Frequency Inconsistencies

Source tables: "GUtranSyncSignalFrequency", "GUtranFreqRelation", "GUtranCellRelation", "ExternalGUtranCell", "TermPointToENodeB".

Main checks:

- LTE nodes with old/new SSB.
- Nodes with both old/new or old without new.
- SSB outside the expected pre/post set.
- LTE relations to old/new and parameter discrepancies per cell relation.
- LTE externals OUT_OF_SERVICE for old/new.

Complete Checks List:

Category	SubCategory	Metric	Tips
GUtranFreqRelation	LTE Frequency Audit	LTE nodes with the old N77 SSB (648672)	Need to run Step1 on these nodes
GUtranFreqRelation	LTE Frequency Audit	LTE nodes with the new N77 SSB (647328)	
GUtranFreqRelation	LTE Frequency Audit	LTE nodes with both, the old N77 SSB (648672) and the new N77 SSB (647328)	Nodes with Step1 completed

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GUtranFreqRelation	LTE Frequency Audit	LTE nodes with the old N77 SSB (648672) but without the new SSB (647328)	Need to run Step1 on this nodes
GUtranFreqRelation	LTE Frequency Audit	LTE nodes with some cells missing relations to new SSB (647328)	
GUtranFreqRelation	LTE Frequency Inconsistencies	LTE nodes with the N77 SSB not in (648672, 647328)	
GUtranFreqRelation	LTE Frequency Inconsistencies	LTE nodes with Auto-created GUtranFreqRelationId to new N77 SSB (647328) but not following VZ naming convention (647328-30-20-0-1)	Not an issue, unless other inconsistencies raised
GUtranFreqRelation	LTE Frequency Inconsistencies	LTE nodes with same endcB1MeasPriority in old N77 SSB (648672) and new N77 SSB (647328)	Need to review and fix with Step1 or Step2c
GUtranFreqRelation	LTE Frequency Inconsistencies	LTE nodes with mismatching params between GUtranFreqRelationId 648672 and 647328	Parameters qQualMin, qRxLevMin, threshXHigh agreed to set to fixed values on new freqs and inconsistencies should be reported to VZ. Other inconsistent parameters would require review for further actions.
GUtranCellRelation	LTE Frequency Audit	LTE cellRelations to old N77 SSB (648672)	Post Step2 some relations pointing to other Mkts could be on old SSB. See details in table
GUtranCellRelation	LTE Frequency Audit	LTE cellRelations to new N77 SSB (647328)	
ExternalGUtranCell	LTE Frequency Audit	External cells to old N77 SSB (648672)	
ExternalGUtranCell	LTE Frequency Audit	External cells to new N77 SSB (647328)	

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ExternalGUtranCell	LTE Frequency Audit	External cells to old N77 SSB (648672) with serviceStatus=OUT_OF_SERVICE	Externals with unavailable TermPoints are not operational for ENDC and might not be updated immediately after Step2
ExternalGUtranCell	LTE Frequency Audit	External cells to new N77 SSB (647328) with serviceStatus=OUT_OF_SERVICE	

5.7 Termpoint Audit / Termpoint Inconsistencies

Source tables: "TermPointToGNodeB", "TermPointToENodeB", "TermPointToGNB".

Complete Checks List:

Category	SubCategory	Metric	Tips
TermPointToGNodeB	NR Termpoint Audit	NR to NR TermPoints with administrativeState=LOCKED	
TermPointToGNodeB	NR Termpoint Audit	NR to NR TermPoints with operationalState=DISABLED	
TermPointToENodeB	X2 Termpoint Audit	NR to LTE TermPoints with administrativeState=LOCKED	Helpful to troubleshoot External updates
TermPointToENodeB	X2 Termpoint Audit	NR to LTE TermPoints with operationalState=DISABLED	Helpful to troubleshoot External updates
TermPointToGNB	X2 Termpoint Audit	LTE to NR TermPoints with administrativeState=LOCKED	Helpful to troubleshoot External updates
TermPointToGNB	X2 Termpoint Audit	LTE to NR TermPoints with operationalState=DISABLED	Helpful to troubleshoot External updates
TermPointToGNB	X2 Termpoint Audit	LTE to NR TermPoints with usedIpAddress=0.0.0.0/::	Helpful to troubleshoot External updates

5.8 ENDC Audit / ENDC Inconsistencies

Source tables: "EndcDistrProfile", "FreqPrioNR".

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Main checks:

- "gUtranFreqRef" and "mandatoryGUtranFreqRef" with old/new + N77B combinations.
- Nodes that do not contain the expected frequency combination.
- In "FreqPrioNR": old without new, both present, and parameter mismatch per cell.

Complete Checks List:

Category	SubCategory	Metric	Tips
EndcDistrProfile	ENDC Audit	Nodes with gUtranFreqRef containing the old N77 SSB (648672) and the N77B SSB (653952)	Need to run Step2c on this nodes
EndcDistrProfile	ENDC Audit	Nodes with gUtranFreqRef containing the new N77 SSB (647328) and the N77B SSB (653952)	Nodes with Step2c completed
EndcDistrProfile	ENDC Audit	Nodes with mandatoryGUtranFreqRef containing the old N77 SSB (648672) and the N77B SSB (653952)	Need to run Step2c on this nodes
EndcDistrProfile	ENDC Audit	Nodes with mandatoryGUtranFreqRef containing the new N77 SSB (647328) and the N77B SSB (653952)	Nodes with Step2c completed
EndcDistrProfile	ENDC Inconsistencies	Nodes with gUtranFreqRef not containing N77 SSBS (648672 or 647328) together with N77B SSB (653952)	Need to run Step1 on this nodes
EndcDistrProfile	ENDC Inconsistencies	Nodes with mandatoryGUtranFreqRef not empty and not containing N77 SSBS (648672 or 647328)	These nodes must be checked in preparation phase and confirm if any special action needed

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		together with N77B SSB (653952)	
FreqPrioNR	ENDC Audit	LTE nodes with the old N77 SSB (648672) but without the new N77 SSB (647328)	Need to run Step1 on this nodes
FreqPrioNR	ENDC Audit	LTE nodes with both, the old N77 SSB (648672) and the new N77 SSB (647328)	Nodes with Step1 completed
FreqPrioNR	ENDC Audit	NR nodes with RATFreqPrioId = "fwa" in N77 band	
FreqPrioNR	ENDC Audit	NR nodes with RATFreqPrioId = "publicsafety" in N77 band	
FreqPrioNR	ENDC Inconsistencies	LTE nodes with mismatching params (cell-level) between FreqPrioNR 648672 and 647328	
FreqPrioNR	ENDC Inconsistencies	NR nodes with RATFreqPrioId different from "fwa"/"publicsafety" in N77 band	These nodes must be checked in preparation phase and confirm if any special action needed

5.9 Cardinalities Audit / Inconsistencies

Cardinality checks per relation table (per node and/or per cell) to detect overprovisioning or gaps versus expected limits.

Complete Checks List:

Category	SubCategory	Metric	Tips
Cardinality NRFrequency	Cardinality Audit	Max NRFrequency definitions per node (limit 64)	These nodes must be checked in preparation phase and confirm if any

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			special action needed
Cardinality NRFrequency	Cardinality Inconsistencies	NR nodes with NRFrequency definitions at limit 64	These nodes must be checked in preparation phase and confirm if any special action needed
Cardinality NRFreqRelation	Cardinality Audit	Max NRFreqRelation per NR cell (limit 16)	These cells must be checked in preparation phase and confirm if any special action needed
Cardinality NRFreqRelation	Cardinality Inconsistencies	NR cells with NRFreqRelation count at limit 16	These cells must be checked in preparation phase and confirm if any special action needed
Cardinality GUtranSyncSignalFrequency	Cardinality Audit	Max GUtranSyncSignalFrequency definitions per node (limit 24)	These nodes must be checked in preparation phase and confirm if any special action needed
Cardinality GUtranSyncSignalFrequency	Cardinality Inconsistencies	LTE nodes with GUtranSyncSignalFrequency definitions at limit 24	These nodes must be checked in preparation phase and confirm if any special action needed
Cardinality GUtranFreqRelation	Cardinality Audit	Max GUtranFreqRelation per LTE cell (limit 16)	These cells must be checked in preparation phase and confirm if any special action needed
Cardinality GUtranFreqRelation	Cardinality Inconsistencies	LTE cells with GUtranFreqRelation count at limit 16	These cells must be checked in preparation phase and confirm if any special action needed

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5.10 Profiles Audit (if enabled)

- Compares PRE/POST profiles by supported profile MO.
- Detects parameter discrepancies between old/new variants.
- Adds results to SummaryAudit and auxiliary detail sheets.

Complete Checks List:

Category	SubCategory	Metric	Tips
McpcPCellNrFreqRelProfileUeCfg	Profiles Inconsistencies	Profiles with old N77 SSB (xxxx_648672) but not new N77 SSB (xxxx_647328)	Need to review profile consistency before/after retune
McpcPCellNrFreqRelProfileUeCfg	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672_xxxx) but not new N77 SSB (647328_xxxx)	Need to review profile consistency before/after retune
McpcPCellNrFreqRelProfileUeCfg	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune
TrStSaNrFreqRelProfileUeCfg	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672_xxxx) but not new N77 SSB (647328_xxxx)	Need to review profile consistency before/after retune
TrStSaNrFreqRelProfileUeCfg	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672_xxxx) but not new N77 SSB (647328_xxxx)	Need to review profile consistency before/after retune
TrStSaNrFreqRelProfileUeCfg	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune

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McpcPCellProfileUeCfg	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672) but not new N77 SSB (647328)	Need to review profile consistency before/after retune
McpcPCellProfileUeCfg	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune
McpcPSCellProfileUeCfg	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672) but not new N77 SSB (647328)	Need to review profile consistency before/after retune
McpcPSCellProfileUeCfg	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune
UIQualMcpcMeasCfg	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672) but not new N77 SSB (647328)	Need to review profile consistency before/after retune
UIQualMcpcMeasCfg	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune
McfbCellProfile	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672) but not new N77 SSB (647328)	Need to review profile consistency before/after retune
McfbCellProfile	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune

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McfbCellProfileUeCfg	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672) but not new N77 SSB (647328)	Need to review profile consistency before/after retune
McfbCellProfileUeCfg	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune
TrStSaCellProfile	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672) but not new N77 SSB (647328)	Need to review profile consistency before/after retune
TrStSaCellProfile	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune
TrStSaCellProfileUeCfg	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672) but not new N77 SSB (647328)	Need to review profile consistency before/after retune
TrStSaCellProfileUeCfg	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune
CaCellProfile	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672) but not new N77 SSB (647328)	Need to review profile consistency before/after retune
CaCellProfile	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune

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CaCellProfileUeCfg	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672) but not new N77 SSB (647328)	Need to review profile consistency before/after retune
CaCellProfileUeCfg	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune
McpcPCellEUTRANFreqRelProfile	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672) but not new N77 SSB (647328)	Need to review profile consistency before/after retune
McpcPCellEUTRANFreqRelProfile	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune
McpcPCellEUTRANFreqRelProfileUeCfg	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672) but not new N77 SSB (647328)	Need to review profile consistency before/after retune
McpcPCellEUTRANFreqRelProfileUeCfg	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune
UeMCEUTRANFreqRelProfile	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672) but not new N77 SSB (647328)	Need to review profile consistency before/after retune
UeMCEUTRANFreqRelProfile	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune

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UeMCEUtranFreqRelProfileUeCfg	Profiles Inconsistencies	Retuned nodes and Profiles with old N77 SSB (648672) but not new N77 SSB (647328)	Need to review profile consistency before/after retune
UeMCEUtranFreqRelProfileUeCfg	Profiles Discrepancies	Retuned nodes and Profiles with old N77 SSB (648672) and new N77 SSB (647328) but with param discrepancies	Need to review profile discrepancies before/after retune
NRCellCU	Profiles Inconsistencies	Retuned nodes with NRCellCU Ref parameters to Profiles with the old SSB name	Need to review profile consistency before/after retune
EUtranFreqRelation	Profiles Inconsistencies	Retuned nodes with EUtranFreqRelation Ref parameters to Profiles with the old SSB name	Need to review profile consistency before/after retune

5.11 Detailed check execution order and gating rules

1. MeContext pre-processing

- Computes total nodes and "UNSYNCHRONIZED" nodes.
- Builds an exclusion list and filters all other MO dataframes by "NodeId" before running any other checks.

2. Node scoping for Pre/Post interpretation

- "NRCellDU" checks run first because they generate the rows used to infer node scope (Pre-retune vs Post-retune).
- This scope is reused by relation/externals/termpoint checks to classify targets ("SSB-Pre", "SSB-Post", "Unknown").

3. Per-table processors

- NR processors: "NRFrequency", "NRFreqRelation", "NRSectorCarrier", "NRCellRelation".
- LTE processors: "GUtranSyncSignalFrequency", "GUtranFreqRelation", "GUtranCellRelation".

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- External/Termpoints: "ExternalINRCellICU", "ExternalGUtranCell", "TermPointToGNodeB", "TermPointToGNB", "TermPointToENodeB".
- ENDC/Cardinality/Profile processors follow and append their own rows.

4. Resilience model

- If a table is missing/empty: emits "Table not found or empty" metric rows.
- If required columns are missing: emits "N/A" rows.
- If exceptions occur: emits "ERROR: ..." rows without aborting the full SummaryAudit generation.

5.12 Additional columns injected into parsed MO sheets

Besides SummaryAudit, Module 1 enriches several raw MO sheets with operational columns for execution/cleanup.

5.12.1 "MeContext" enrichment (main planning helper)

Additional columns are computed per "NodeId" by aggregating NR/LTE relation tables:

- Topology and inventory:
- "mmWave Cells", "LowMidBand Cells", "N77 Cells"
- "N77A old SSB cells", "N77A new SSB cells"
- Relation counters:
- "NRFreqRelation to old N77A SSB", "NRFreqRelation to new N77A SSB"
- "GUtranFreqRelation to old N77A SSB", "GUtranFreqRelation to new N77A SSB"
- Priority snapshots (unique consolidated values):
- "NRFreqRelation to old N77A SSB cellReselPrio"
- "NRFreqRelation to new N77A SSB cellReselPrio"
- "GUtranFreqRelation to old N77A SSB cellReselPrio"
- "GUtranFreqRelation to new N77A SSB cellReselPrio"
- "GUtranFreqRelation to old N77A SSB EndcPrio"

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- "GUtranFreqRelation to new N77A SSB EndcPrio"
- Workflow recommendation fields:
- "Step1", "Step2b", "Step2ac", "Next Step", "EndcPrio Next Step"

Operational interpretation:

- "Step1" focuses on old/new relation parity and reselection-priority convergence.
- "Step2b" focuses on old/new N77A cell presence.
- "Step2ac" focuses on ENDC priority transition validation.
- "Next Step" concatenates pending actions to provide a single execution hint per node.

5.12.2 "NRCellRelation" and "GUtranCellRelation" enrichment

Both relation tables are normalized with helper columns used for discrepancy targeting and command generation:

- "Frequency" extracted from relation references.
- External endpoint decomposition fields (function/cell identifiers parsed from references).
- "GNodeB_SSB_Target" classification ("SSB-Pre"/"SSB-Post"/"Unknown").
- "Correction_Cmd" prebuilt command text for the rows considered actionable.

5.12.3 "ExternalNRCellCU" and "ExternalGUtranCell" enrichment

- Adds "Frequency", "Termpoint", "TermpointStatus", "TermpointConsolidatedStatus".
- Adds "GNodeB_SSB_Target" and "Correction_Cmd" for retune remediation flows.
- For LTE externals, service state ("OUT_OF_SERVICE") is also reflected in SummaryAudit checks.

5.12.4 "TermPointToGNodeB" / "TermPointToGNB" enrichment

- Adds consolidated termpoint health/status fields and "SSB needs update" boolean.
- Adds "GNodeB_SSB_Target" and generated "Correction_Cmd" when target and frequency logic indicates migration to post-retune SSB.

5.13 Key SummaryAudit checks by source table (implementation-level)

Below is the practical checklist implemented by the processors:

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- **NRCellDU:**
 - Node classification LowMidBand/mmWave/mixed.
 - N77-in-band detection.
 - Allowed pre/post SSB-list compliance and out-of-list inconsistencies.
- **NRFrequency:**
 - old/new/both/old-without-new presence by node.
 - values outside expected old/new sets.
- **NRFreqRelation:**
 - old/new/both/old-without-new relation presence.
 - naming-convention checks for auto-created relation IDs.
 - cell-level old-vs-new parameter mismatch detection.
 - profile reference transition checks (old profile clones vs expected post clone).
- **NRSectorCarrier:**
 - allowed ARFCN list compliance (pre/post).
 - out-of-list inconsistencies.
- **NRCellRelation:**
 - relation counts to old/new targets.
 - extraction/parsing consistency from "nRFreqRelationRef".
- **GUtranSyncSignalFrequency:**
 - old/new/both/old-without-new LTE presence by node.
 - out-of-set inconsistencies.
- **GUtranFreqRelation:**
 - old/new/both/old-without-new checks.
 - naming convention validation ("<ssb>-30-20-0-1" style).

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- old/new cell-level parameter and ENDC priority checks.
- **GUtranCellRelation:**
 - relation counts to old/new LTE targets.
- **ExternalINRCellCU / ExternalGUtranCell:**
 - old/new external references counts.
 - target classification and termpoint correlation.
- **TermPoint tables:**
 - locked/disabled/unhealthy transport endpoint detection.
 - alignment with external-cell update needs.
- **EndcDistrProfile / FreqPrioNR:**
 - expected old/new + N77B combinations.
 - unexpected combinations and param discrepancies.
- **Cardinality checks:**
 - hard-limit and threshold checks per node/cell relation families.
 - explicit inconsistency rows when limits are reached/exceeded.

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6 Consistency Check module in detail

6.1 Filtering by non-retuned nodes

If a POST SummaryAudit exists, the module obtains PRE/POST node lists and can exclude discrepancies whose target points to nodes that did not complete retune, reducing operational noise.

6.2 How it detects parameter discrepancies

1. Selects common PRE and POST relations by composite key:
 - GU: typically "NodeId", "EUtranCellFDDId", "GUtranCellRelationId".
 - NR: typically "NodeId", "NRCellCUId", "NRCellRelationId".
2. Excludes control columns (keys, frequency, Pre/Post, Date).
3. Compares value-by-value across shared columns.
4. Sets "ParamDiff=True" if at least one column differs.
5. In GU it ignores "timeOfCreation" and "mobilityStatusNR" to avoid false positives.

6.3 How it detects frequency discrepancies

1. Extracts base frequency from relation references ("extract_gu_freq_base" / "extract_nr_freq_base").
2. Discrepancy rule:
 - if PRE had "freq_before" or "freq_after", and POST does **not** end up in "freq_after", it marks "FreqDiff=True".
3. Classifies the discrepancy as:
 - "FreqDiff_SSBPost" (target identified as SSB-Post),
 - "FreqDiff_Unknown" (cannot be associated to a known target).

6.4 How it detects neighbor discrepancies

They are split into three groups:

- **New relations:** keys present in POST and absent in PRE.
- **Missing relations:** keys present in PRE and absent in POST.
- **Discrepancies:** same key in PRE/POST but with parametric or frequency differences.

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6.5 Content of each ConsistencyChecks output sheet

- **Summary:** KPIs per table (PRE/POST volume, discrepancies, new/missing, source files).
- **SummaryAuditComparisson:** diff of SummaryAudit PRE vs POST metrics (without "ExtraInfo" to keep the comparison clean).
- **Summary_CellRelation:** KPI per "Freq_Pre/Freq_Post" pair and per technology.
- **GU_relations / NR_relations:** relation universe enriched with target classification and command snippets.
- **GU_param_disc / NR_param_disc:** common relations with param differences.
- **GU_freq_disc / NR_freq_disc:** frequency discrepancies to SSB-Post targets.
- **GU_freq_disc_unknown / NR_freq_disc_unknown:** discrepancies with non-classifiable targets.
- **GU_missing / NR_missing:** relations removed versus PRE.
- **GU_new / NR_new:** relations added in POST.
- **GU_all / NR_all:** optional consolidated dump for extended analysis.

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7 Quick module reference

Module	Main input	Main output	Goal
0 Update Network Frequencies	Logs folder	Persisted config	Update network frequency list
1 Configuration Audit	Logs/ZIP folder	Excel + PPT + CA commands	Audit configuration and profiles
2 Consistency Check	PRE and POST folders	2 Excel + CC commands	Compare pre/post relations
3 Consistency Check (Bulk)	Multi-market root folder	Module 2 outputs per market	Run bulk comparison
4 Final Clean-Up	Final folder	Clean-up folder	Operational final clean-up

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8 Inputs Naming Convention

- Keep market log exports in a consistent structure and following the below naming convention (for both the parent folder and the zip file containing Step0 logs):
- Recommended naming convention for folders and zips:
"<TIMESTAMP>_Step0_<MARKET_ID>_<MARKET_NAME>_<PHASE>"
- Example:
 "20260217_0500_Step0_Mkt188_Omaha_PreStep1/20260217_0500_Step0_Mkt188_Omaha_PreStep1.zip"

Naming Convention	"<TIMESTAMP>_Step0_<MARKET_ID>_<MARKET_NAME>_<PHASE>/<TIMESTAMP>_Step0_<MARKET_ID>_<MARKET_NAME>_<PHASE>.zip"
Example PreStep1	"20260217_0500_Step0_Mkt188_Omaha_PreStep1/20260217_0500_Step0_Mkt188_Omaha_PreStep1.zip"
Example PostStep1	"20260217_0630_Step0_Mkt188_Omaha_PostStep1/20260217_0630_Step0_Mkt188_Omaha_PostStep1.zip"

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9 Operational Best Practices

- Validate that PRE/POST have the same table granularity and consistent naming.
- Validate frequency inputs ("n77_ssbb_pre", "n77_ssbb_post", "n77b_ssbb") before batch execution.
- Correctly configure allowed SSB/ARFCN lists to minimize false positives.
- Run **Configuration Audit** before Consistency Checks whenever possible.
- Use Bulk mode only with a controlled folder naming convention.
- Review "Summary" and "Summary_CellRelation" first, then then deep-dive into detail sheets (ConfigurationAudit) and discrepancy tabs (ConsistencyCheck).
- Consume "Correction_Cmd_CA" and "Correction_Cmd_CC" as a remediation proposal, not as blind execution.

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10 Known limitations and considerations

- The engine depends on log quality and structure: missing columns downgrade checks to "N/A".
- Some rules depend on naming conventions in references (NR/GU relation refs).
- The Final Clean-Up module is prepared to extend operation-specific policies.