

# APEX STANDARDS

Standards, Contributions and Patent Evidence Search Platform

## Analyst / Expert / Enterprise Feature Overview for Prior-Art, Standards, IPR, and R&D Review

Designed for **high-fidelity** search, clause-level reasoning, and high-rigour evidence handling where immediately verifiable fact must stay easy to interpret, compare, preserve, and defend.

Analyst   ◆   Expert   ◆   Enterprise

This brochure is organized around a practical progression of work: first-pass retrieval and screening, deeper human annotation and interpretation, and then higher-rigour evidentiary preservation and audit. In real client scenarios, that means helping teams move faster across prior-art review, **standard essential patent (SEP)** study, **claim chart** preparation, standards-meeting interpretation, **Change Request (CR)** review, licensing support, and broader R&D / standardization analysis—while keeping the strongest passages, comparisons, and review decisions easy to verify and explain to any stakeholder who joins later.

### Reading Guide

**Analyst** is the efficient first-pass retrieval and screening layer. **Expert** is the subject-matter-expert layer for deeper human annotation and clause-level reasoning. **Enterprise** is the maximum evidentiary-precision and audit layer for higher-consequence review environments. Across all three, the platform emphasizes immediately verifiable fact in a clear, well-structured format so critical review and interpretation can happen directly in the result layer.

### High-value review environments

Especially relevant to **standard essential patent (SEP)**, **claim chart**, **standardization**, **patent-office examination**, **corporate R&D**, **top-tier law-firm analysis**, **expert-report / deposition preparation**, **court-facing evidentiary matters**, and **high-stakes licensing negotiation**.

## Analyst

CORE RETRIEVAL / SCREENING • EFFICIENT ANALYST REVIEW • SEP • CLAIM CHART • STANDARDIZATION

Advanced search operators, orderly **high-fidelity** result context, domain-aware keyword guidance, **high-value targets** anchoring, per-result comment support, CR-oriented review, and disciplined export workflow for broad first-pass screening with minimal blind spots.

## Expert

FOCUSED HUMAN ANNOTATION / REASONING • SUBJECT-MATTER EXPERT REVIEW • SEP • CLAIM CHART • STANDARDIZATION

In-snippet highlights, inline notes, annotation-preserving working sessions, and selected / annotated export for deep clause-level reasoning, stronger review continuity, and faster matter-ready interpretation when experts need to explain why a passage matters.

## Enterprise

MAXIMUM EVIDENTIARY PRECISION / AUDIT • PATENT-OFFICE EXAMINATION • CORPORATE R&D • TOP-TIER LAW-FIRM ANALYSIS • EXPERT-REPORT / DEPOSITION PREPARATION • COURT-FACING EVIDENTIARY MATTERS • HIGH-STAKES LICENSING NEGOTIATION

Variation-aware markup, explicit NEAR/x gap display, OCR / table reconstruction, Delta/Diff history, JSON audit trail, **immutable integrity-oriented recordkeeping**, and later reconstruction support for the most demanding review environments where evidentiary precision, defensibility, and reconstruction are mission-critical.

**Why three tiers matter:** the three package levels are optimized for different usage depths—efficient screening, deeper expert interpretation, and higher-rigour evidence preservation. That can be especially valuable where teams need clearer review continuity, stronger internal handoff, and more defensible recordkeeping for counsel, stakeholders, or billing-oriented professional work.

### BROCHURE PAGE GUIDE

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##### Feature Matrix

Tier-by-tier coverage across Analyst, Expert, and Enterprise.

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##### AI Summary, Search Operators, and Auto-Complete

Shared foundation examples and structured intelligence extraction.

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DYM, glossary / concept guidance, Expert annotations, and Enterprise precision aids.

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##### Workflow Control and Audit

Per-result comments, focused export, and Enterprise audit history.

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##### Reserved Visual Evidence Space

Large image-ready areas for OCR overlay and structured table visuals.

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##### List of Patent and Non-Patent/Standards Database

Representative standards, patent, and non-patent sources covered across major ICT domains.

# APEX STANDARDS

## Standards, Contributions and Patent Evidence Search Platform

### Feature Matrix

A brochure-length summary of the most differentiating capabilities across the three package levels.

| Feature   | What it covers  | Analyst | Expert | Enterprise |
|---|---|---------|--------|------------|
| <b>Shared professional foundation</b>   |   |         |        |            |
| <b>Advanced Query Operators</b><br><small>CORE RETRIEVAL</small>                | Boolean, quoted phrase, exact-form control, wildcard / prefix, fuzzy recovery, grouping, and NEAR/x proximity handling. Positioned as a highest-industry-standard operator layer to minimize blind spots and support maximal due diligence.       | V       | V      | V          |
| <b>High-Fidelity Context</b><br><small>IMMEDIATE INTERPRETATION</small>         | Matched text is presented in a clear, well-structured format so immediately verifiable fact can be interpreted directly in the result layer rather than deferred to a separate document-open step.  | V       | V      | V          |
| <b>High-Value Target Anchoring</b><br><small>REVIEW PRIORITIZATION</small>      | Keeps the strongest hits organized and easy to revisit across prior-art, standards, CR, and claim-chart workflows.  | V       | V      | V          |
| <b>Auto-Complete / DYM / Glossary</b><br><small>DOMAIN GUIDANCE</small>         | Domain-aware technical wording, per-token correction, acronym chips, and concept guidance support more complete query formation and faster orientation inside specialized corpora.  | V       | V      | V          |
| <b>Per-Result Comment + Export</b><br><small>WORKFLOW CONTINUITY</small>        | Document-level comments, export packaging, glossary/concept appendices, and matter-ready Word/PDF output support organized review continuity.   | V       | V      | V          |
| <b>Expert workflow layer</b>  |   |         |        |            |
| <b>Inline Highlight Annotation</b><br><small>CLAUSE EVIDENCE</small>            | Quote-level highlight with orange wavy-underlined styling, timestamped label, and later revisit / audit visibility.   |         | V      | V          |
| <b>Inline Note Annotation</b><br><small>CLAUSE REASONING</small>                | Quote-level note with red box label, red wavy underlining, timestamp, preserved note text, and annotation-aware export continuity.  |         | V      | V          |
| <b>Selected / Annotated Export</b><br><small>FOCUSED HANDOFF</small>            | Export only the selected or annotated set rather than the full result set, preserving stronger matter focus.  |         | V      | V          |
| <b>Enterprise evidentiary / audit layer</b>                                     |   |         |        |            |
| <b>Variation-Aware Markup</b><br><small>PRECISION HIGHLIGHTING</small>          | Shows preserved token core and visible morphology change, such as search word beamform [ed] versus matched word beamform [ing].   |         |        | V          |
| <b>Explicit NEAR/x Gap Visualization</b><br><small>INTERPRETIVE CLARITY</small> | Shows exact in-between words plus an explicit distance badge so reviewers can see not only that two terms are near, but how near.   |         |        | V          |
| <b>OCR + Table Reconstruction</b><br><small>VISUAL EVIDENCE</small>             | OCR match overlays and structured table rendering support figures, scans, screenshots, claim charts, parameter mapping, and standards comparison.   |         |        | V          |
| <b>Audit Trail + JSON Record</b><br><small>MACHINE-READABLE HISTORY</small>     | Page views, selections, comments, note/highlight actions, note-edit delta history, export actions, elapsed-time history, and JSON record state; includes <b>immutable review-record positioning</b> and integrity-oriented preservation language. |         |        | V          |

# APEX STANDARDS

## Standards, Contributions and Patent Evidence Search Platform

### Search, Guidance, and Interpretation Examples

This page now focuses on the shared Analyst / Expert / Enterprise foundation and begins with the **AI Summary**, followed by the most immediately useful query and search-guidance examples.

INCLUDED IN Analyst Expert Enterprise

#### AI Summary Structured intelligence extracted from query + top result snippets

You asked about “beam failure recovery”. You are likely exploring how beam failure recovery (BFR) is defined, implemented, and evolved across NR / 5G contexts, including how UEs detect failures, how networks coordinate recovery, and how multiple beams or cells interact to improve reliability.

- **BFR core flow.** BFR typically begins when beam failure is detected through **Beam Failure Detection (BFD)**. Recovery often uses **MAC CE**-based reporting and may carry fields such as SP, Ci, TCI, TRP, AC, Candidate RSID, and R, which suggests increasing integration of reporting and network-side coordination.
- **SCells and inactive-state cases.** The material also points to BFR with **secondary cells (SCells)** and to **RRC\_Inactive**-state recovery using preconfigured uplink resources and SIB-based setup, expanding recovery beyond a single fully active serving-cell case.
- **Trajectory.** The emphasis appears to move from secondary-cell and multi-beam coverage toward per-beam-group and inactive-state handling, indicating growing attention to more complex real-world NR deployments.

UE detects BFD

- BFR trigger via BFI threshold or MAC CE formatting
- UE reports to base station or triggers recovery using BFR-RS / NBI RS
- network selects new beam(s) and may activate SCells or reconfigure RRC

**Practical next searches.**

- combine **BFR** and **BFD** with **BFI** thresholds
- add **SCells** / secondary cells for cross-cell recovery coverage
- search **MAC CE** reporting formats and fields such as SP, Ci, TCI, TRP, AC, Candidate RSID, and R
- include **NBI RS**, **BFD RS**, and **PDCCH** configuration terms
- look for **RRC\_Inactive**, **PUR**, and **SIB** references

| Term                | Role / Note  |
|---------------------|--|
| <b>BFR</b>          | Recovery flow after beam failure detection                         |
| <b>BFD</b>          | Detection mechanism that triggers BFR                              |
| <b>BFI</b>          | Indication count used to trigger recovery                          |
| <b>MAC CE</b>       | Reporting / format to base station about beam failure and recovery |
| <b>BFD RS</b>       | Measurement reference signals for BFD                              |
| <b>NBI RS</b>       | Signals for identifying a new beam                                 |
| <b>PDCCH</b>        | Measurement / configuration context for BFR in control signaling   |
| <b>SCells</b>       | Secondary cells used during multi-cell BFR setups                  |
| <b>RRC_Inactive</b> | BFR in inactive UE state with preconfigured resources              |

#### Advanced query operators

INCLUDED IN Analyst Expert Enterprise

Shared foundation across Analyst, Expert, and Enterprise. Supports highest-industry-standard operator coverage intended to minimize blind spots and support maximal due diligence during first-pass retrieval and screening.

**Operator examples**  
Best-effort emulation of the real query/operator layer.

|                           |  |
|---------------------------|--|
| <b>Quoted phrase</b>      | <code>"beam failure recovery"</code><br><small>Quoted multi-word phrases are recognized.</small>     |
| <b>Exact form</b>         | <code>=beamforming</code><br><small>Dedicated exact-form control for exact content matching.</small> |
| <b>Wildcard / prefix</b>  | <code>beamform*</code>   |
| <b>Fuzzy recovery</b>     | <code>beamformg~</code><br><small>Useful for typo-like or uncertain recall queries.</small>          |
| <b>Boolean / grouping</b> | <code>(beam OR beamforming) AND recovery NOT uplink</code>   |
| <b>Proximity</b>          | <code>"beam failure" NEAR/10 recovery</code>   |

#### Domain-aware auto-complete

INCLUDED IN Analyst Expert Enterprise

Shared foundation across Analyst, Expert, and Enterprise. Suggestion rows keep font size consistent and pair each term with technical snippet evidence for faster query refinement.

beam failure

---

**beam failure**  
BFR (Beam **Failure** Recovery) ... BFD (Beam **failure** detection) ... BFI (beam **failure** instance)

---

**beam failure**  
BFI (beam **failure** instance)

---

**beam failure**  
BFD (Beam **failure** detection) ... BFR (beam **failure** recovery)

---

**beam failure**  
BF (Beam **Failure**) ... RLF (Radio Link **Failure**)

---

**beam failure**  
RLF (radio link **failure**) ... CEF (connection establishment **failure**) ... BFR (beam **failure** recovery) ... BFD (beam **failure** detection)

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## Search Guidance and Higher-Tier Interpretation

This page continues the search-guidance layer with query refinement and glossary support, then adds the higher-tier interpretation features that begin in Expert and culminate in Enterprise precision.

### Did-You-Mean correction

INCLUDED IN Analyst Expert Enterprise

Shared foundation across Analyst, Expert, and Enterprise. Per-token correction stays explicit rather than silently rewriting the query, so the reviewer can verify what changed.

#### Did you mean?

Original query: **beam faliture recovry sigal**

**faliure** → **failure**

**recovry** → **recovery**

**sigal** → **signal**

### Glossary / concept guidance

INCLUDED IN Analyst Expert Enterprise

Shared foundation across Analyst, Expert, and Enterprise. Glossary and concept rows give fast corpus orientation through lightweight, curated chips rather than noisy filler.

#### GLOSSARY:

DSP (digital signal processor) FPGA (field programmable gate array)  
ASIC (application specific integrated circuit) FM (frequency modulated) USB (universal serial bus)  
PMI (precoding matrix indicator) AM (acknowledged mode) UM (unacknowledged mode)  
CQI (channel quality indicator) RSRQ (reference signal received quality)  
CDM (code division multiplexing)

#### CONCEPT:

random access procedure more RACH parameters NR user plane protocol stack  
wireless device configuration parameters resource selection procedure target base station  
more sidelink transmissions

### Highlight / note annotation

INCLUDED IN Expert Enterprise

Begins in Expert and continues in Enterprise. Quote-level highlight-only markup uses orange wavy underlining; note-backed markup flips to a red note style with timestamped label for clause-level reasoning.

beam management based on coordinated beamforming

HIGHLIGHTED — on Apr 2, 2026, 9:41 AM UTC

Recorded for later revisit / audit history with timestamp.

beam recovery reference signal configuration

INLINE NOTE: possible partial support only — on Apr 2, 2026, 9:44 AM UTC

Quoted text + note label + timestamp remain available for later revisit / audit.

### Variation-aware markup + explicit NEAR/x

INCLUDED IN Enterprise

Enterprise-only precision feature. Adds two especially high-value interpretive aids: visible morphology difference and visible NEAR/x gap distance.

SEARCH WORD **beamform**<sup>[ed]</sup>

matched in result →

MATCHED WORD **beamform**<sup>[ing]</sup>

**beam failure** <sup>NEAR/10: beam↔recovery (1/10)</sup> **recovery** (BFR) medium access control (MAC)

Query logic shown to reviewer: "beam failure" NEAR/10 recovery

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## Workflow Control and Audit

This page is dedicated to workflow continuity, selected export control, and Enterprise audit history so the review-control layer has more room and reads less densely.

### Per-result comment

INCLUDED IN Analyst Expert Enterprise

Shared workflow feature across Analyst, Expert, and Enterprise. Document-level comment state is useful for legal notes, technical observations, next-step planning, and matter-specific follow-up.

#### COMMENT ON THIS DOCUMENT

commented on Apr 2, 2026, 10:12 AM UTC

Possible high-value target for claim charting; likely relevant to beam failure recovery timing. Check dependency and compare against Rel-18 CR wording.

Max 1000 characters.

842/1000 chars remaining

### Selected / annotated export scope

INCLUDED IN Expert Enterprise

Begins in Expert and continues in Enterprise. Export only the selected or annotated working set rather than the entire raw search output.

#### Export Report

Export set: selected / annotated only • Master: n=100 • Selected / annotated: n=12

To PDF

To Word

All results

Only selected or annotated results

Objective: beam failure recovery prior-art review for attorney-client sharing; focus on high-value Rel-18 targets and next-step claim-chart preparation.

Cancel

Download

### Audit trail + JSON review record + integrity

INCLUDED IN Enterprise

Enterprise-only audit feature. Captures page views, open/close events, result selection state, comments, highlight/note actions, note-edit delta history, export activity, fine-grained elapsed-time history, and machine-readable JSON review state; the Enterprise layer also supports cryptographic hash integrity wording, **immutable review-record positioning**, and preserved review-state checking.

#### Audit Trail

Download JSON

Clear

✕

Baseline: first export action selected • Session: 42 events • Scope: selected / annotated set • Latest file: Apex\_Search\_Report\_SELECTED.docx

beam failure

All actions

| Time (Local)        | Relative time | Action      | Document(s) | Quoted text                                      | Details   |
|---------------------|---------------|-------------|-------------|--|---|
| 2026-04-02 09:41:18 | +00:00        | HL_ADD      | Result 014  | beam management based on coordinated beamforming | Highlight added; label = HIGHLIGHTED; scope preserved for later export.                         |
| 2026-04-02 09:44:07 | +00:03        | NOTE_ADD    | Result 014  | beam recovery reference signal configuration     | INLINE NOTE captured with note text, quoted text, timestamp, and stored JSON review record.     |
| 2026-04-02 09:46:21 | +00:05        | NOTE_EDIT   | Result 014  | beam recovery reference signal configuration     | possible-partial-support-only possible partial support only — confirm Rel-18 dependency context |
| 2026-04-02 09:51:52 | +00:10        | EXPORT_WORD | EXPORT SET  | -  | Download Export (WORD); selected / annotated set; File: Apex_Search_Report_SELECTED.docx        |

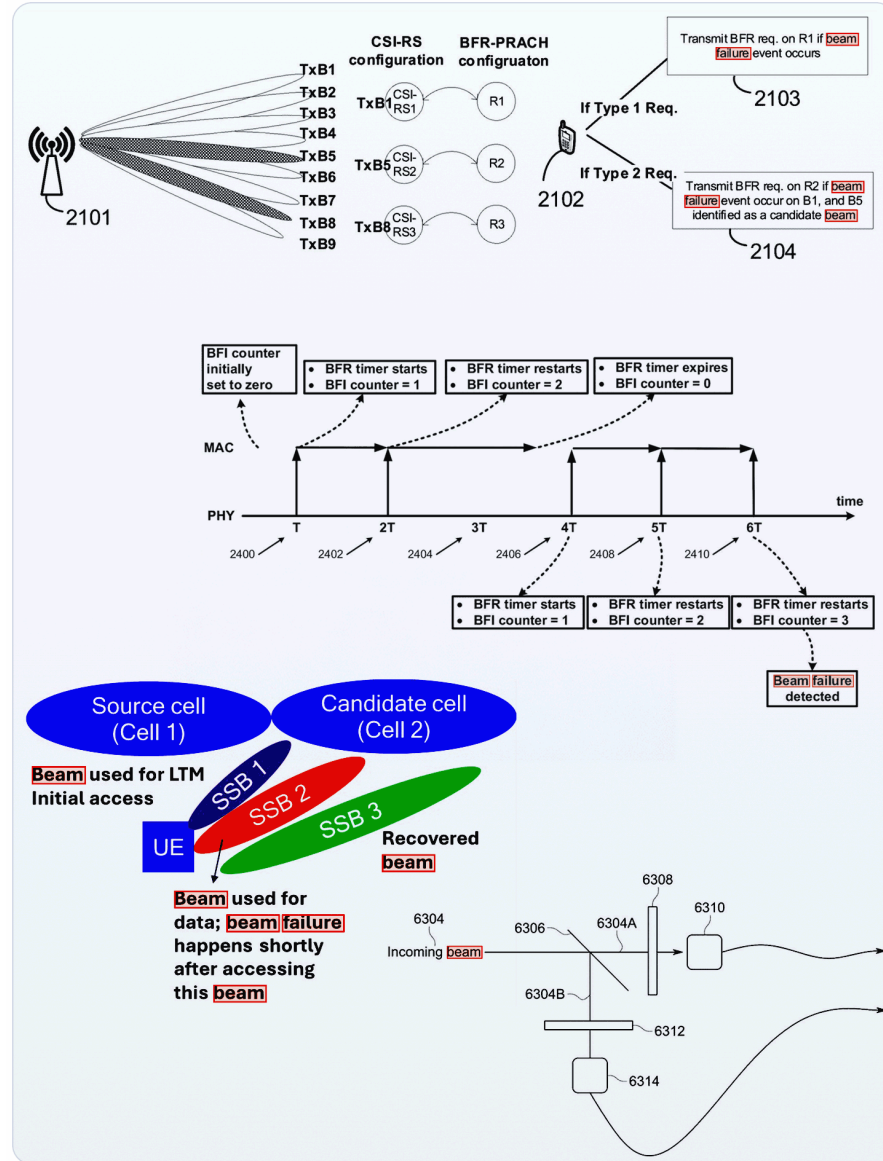
# APEX STANDARDS

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## Reserved Visual Evidence Space

INCLUDED IN **Enterprise**

Two highest value Enterprise visuals: OCR overlay confirmation and structured table reconstruction.



Suggested use: figure / scan / screenshot example with visible OCR bounding boxes and matched text overlay.

|  |           |  |   |
|--|-----------|--|---|
| L3: <b>Beam</b> (-level) <b>beam failure recovery</b> spatial domain prediction  | RAN1 RAN4 | 2 nd in RAN2 High priority in RAN4   | □ Led by RAN4: ZTE, OPPO, LG, HW , vivo, Apple □ Coordination with RAN1/RAN4: SS , CATT □ WG for simulation evaluation is RAN4: ZTE □ Prediction accuracy evaluation is done by RAN1/4, while RAN2 focus on the mobility performance gain evaluation : Xiaomi   |
| L1: Intra/inter-cell spatial domain prediction   | RAN1 RAN4 | 2 nd in RAN2 Simulation evaluation of Intra cell <b>beam</b> <b>beam failure recovery</b> prediction for serving cell has been done in RAN1 in 5G. | □ Coordination with RAN1/RAN2/RAN4: Apple , CATT □ Led by RAN1: LG, vivo, Apple □ Led by RAN4: HW □ RAN1 and RAN2 to study independently: OPPO □ RAN2 focus on the study mainly for LTM scheme by taking RAN1's outcome: OPPO □ Prediction accuracy evaluation is done by RAN1/4, while RAN2 focus on the mobility performance gain evaluation : Xiaomi □ Simulation is not needed: OPPO □ WG for simulation is RAN1: DCM |
| L3: Additional inter-frequency prediction : - non-co-located sites - co-located sites with different <b>beam</b> <b>beam failure recovery</b> patterns/sectors | RAN1 RAN4 | 2 nd in RAN2; High priority in RAN4 ( non-co-located inter-frequency prediction )  | □ Led by RAN4: HW, ZTE, OPPO, LG , vivo, Apple □ Coordination in RAN2 and RAN4: SS , Apple , CATT □ Prediction accuracy evaluation is done by RAN1/4, while RAN2 focus on the mobility performance gain evaluation : Xiaomi □ Prioritize feasibility of L3 <b>beam</b> <b>beam failure recovery</b> level measurement prediction of non-collocated cell: Ericsson   |

|              |   |   |   |
|--------------|---|---|---|
| Sub-use case | Sub-case A: Inter-Cell/M-TRP DL Tx <b>beam</b> <b>beam failure recovery</b> prediction and management   | Sub-Case B: Cross frequency DL Tx <b>beam</b> <b>beam failure recovery</b> prediction   | Sub-Case C: Tx-Rx <b>beam</b> <b>beam failure recovery</b> pair prediction                                    |
| Model input  | Measurements from Set B of one or more TRPs/Cells   | Measurements in frequency A   | Measurements from Set B DL Tx-Rx <b>beam</b> <b>beam failure recovery</b> pairs.                              |
| Model output | Predicted best <b>beam</b> <b>beam failure recovery</b> information and/or predicted measurements from Set A of target cell/TRP(s) [of current or future time instance] | Predicted <b>cell/beam</b> <b>beam failure recovery</b> related information of frequency B [of current or future time instance] | Predicted best DL Tx-Rx <b>beam</b> <b>beam failure recovery</b> pairs information from Set A DL Tx-Rx pairs. |

Suggested use: reconstructed row/column view for claim charting, parameter mapping, or standards comparison.

# APEX STANDARDS

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## List of Patent and Non-Patent/Standards Database

Representative standards, patent, and non-patent sources covered across major ICT domains.

| Apex Standards Database | PTO/SDO   | Start Year                                    | Description   | Telecom                                   | LAN/Networking  | Cybersecurity  | Codec   | IoT  |
|-------------------------|---|---|---|---|---|--|---|--|
| <b>ASXUSPTO</b>         | <b>USPTO</b>  | <b>1975</b>                                   | Patent and non-patent literature covering key ICT standards and technologies, including SEP, 3GPP, ETSI, IEEE, Wi-Fi, and multimedia codecs | Covered                                   | Covered   | Covered  | Covered   | Covered  |
| <b>ASX3GPP</b>          | <b>3GPP</b>   | <b>1998</b>                                   | Mobile telecom standards (GSM, UMTS, LTE, 5G).  | All WGs                                   | SA2/CT1/RAN3  | SA3  | SA4   | SA1/SA2 (NB-IoT, LTE-M)  |
| <b>ASXETSI</b>          | <b>ETSI</b>   | <b>1988</b>                                   | European telecom standards (radio, networks, satellite, smart grids).   | ISG NFV; ISG MEC                          | ISG NFV; ISG MEC  | TC CYBER   | TC SC (Multimedia/Broadcast)                          | TC M2M   |
| <b>ASXOMA</b>           | <b>OMA</b>  | <b>2002</b>                                   | Open Mobile Alliance - standards for interoperable mobile services.   | All WGs                                   |   |  |   | OMA LwM2M  |
| <b>ASXOPRAN</b>         | <b>O-RAN</b>  | <b>2018</b>                                   | Open, interoperable RAN specifications for modular networks.  | All WGs                                   | WG4 (O-Fronthaul), WG5 (O-X-Haul), WG6 (O-Cloud), WG7 (HW)        | WG10 (Security)  |   | WG3 (Near-RT RIC for low-latency IoT)                            |
| <b>ASXITU</b>           | <b>ITU-T<br/>ITU-R<br/>ITU-D</b>  | <b>1980</b>                                   | Global telecommunication standards and recommendations for ICT networks.  | ITU-T G.98X (PON)                         | ITU-T X-series (network protocols)                                | ITU-T SG17 (security)  | ITU-T SG16 (multimedia codecs)                        | ITU-T SG20 (IoT / smart cities)                                  |
| <b>ASXOneM2M</b>        | <b>OneM2M</b>   | <b>2012</b>                                   | IoT/M2M service layer specifications for interoperable systems.   |   |   | OneM2M Security  |   | OneM2M All WGs   |
| <b>ASXIEEE802</b>       | <b>IEEE 802</b>   | <b>1980</b>                                   | LAN and wireless networking standards (Ethernet, Wi-Fi, WPAN).  | 802.3                                     | All WGs   | 802.1X; 802.11i  |   | 802.15.4 (Zigbee, Thread)  |
| <b>ASXWIFI</b>          | <b>Wi-Fi Alliance</b>   | <b>1999</b>                                   | Wi-Fi certification profiles and interoperability guidelines for IEEE 802.11 variants.  |   | Wi-Fi (IEEE 802.11)   | 802.11i (WPA/WPA2)   |   | Wi-Fi HaLow (802.11ah)   |
| <b>ASXBTSIG</b>         | <b>Bluetooth SIG</b>  | <b>1998</b>                                   | Bluetooth wireless standards (core, profiles, mesh).  |   | Bluetooth (IEEE 802.15.1)   |  |   | Bluetooth Low Energy (BLE)                                       |
| <b>ASXIETF</b>          | <b>IETF</b>   | <b>1986</b>                                   | Internet protocol standards (TCP/IP suite) via open, consensus-driven process.  | SIP (session signaling), MEGACO (gateway) | MPLS (label switching), BGP (inter-AS routing), OSPF (link-state) | TLS (secure transport), DTLS (datagram TLS), IPsec (IP security) | AVTCORE (RTP framework), MMUSIC (session control)     | 6MAN (IPv6 over WPAN), ROLL (LLN routing), CORE (CoAP framework) |
| <b>ASXW3C</b>           | <b>W3C</b>  | <b>1994</b>                                   | Web and Internet standards (HTML, CSS, XML, HTTP).  |   | W3C (HTTP, CSS)   | WAS/WebCrypto/WebAuthn   | WebRTC/SVC/WebCodecs                                  | WoT  |
| <b>ASXCVE</b>           | <b>CVE / NVD</b>  | <b>1999</b>                                   | Cybersecurity vulnerability identifiers and metadata.   |   |   | CVE / NVD  |   |  |
| <b>ASXCODEC</b>         | <b>MPEG (ISO/IEC JTC 1/SC 29);<br/>JVET; JCT-VC/3V;<br/>ITU-T H.26X<br/>AOMedia</b> | <b>1998</b>                                   | Umbrella for codec bodies: MPEG (1988-), JCT-VC (2010→2020) → (2017-), JVET and AOMedia (2015-)   |   |   |  | MPEG-1/2/4; AVC/H.264; HEVC/H.265; VVC/H.266; AV1/AV2 |  |
| <b>ASXDVB</b>           | <b>DVB, ARIB, ATSC</b>  | <b>DVB 1993<br/>/ARIB 1995<br/>/ATSC 1982</b> | Digital TV broadcasting standards (DVB, ARIB, ATSC).  | DVB, DVB Native IP over 5G, ATSC          |   |  | MPEG-2, H.264 (used in DVB)                           |  |