

APEX STANDARDS

Fast, simple, and intuitive search with semantic support and AI summaries to deliver answers in seconds

Fact Sheet

TOTAL SEARCH

3GPP

Our new 3GPP Search Engine delivers precise answers in seconds through fast, simple, and intuitive search, powered by semantic support and AI summaries. It is strategically designed to support the most critical aspects of innovation, standardization, and the Standard Essential Patent (SEP) business, ensuring you stay productive and maintain your innovation momentum.

Key Features and Business Value

Strategic IP & Innovation Support:

Claim Charting: Supports semantic and fuzzy search for broad phrasing acceptance and the retrieval of high-fidelity context snippets critical for efficient Claim Charting and SEP analysis.

Prior Art Discovery: Sorting by Old-to-New is optimized for prior art search (IPR) to trace the most initial inception of ideas and establish novelty/validity.

Standardization Efficiency:

Delegates' Tool: Sorting New-to-Old is ideal for standardization delegates tracking the latest contributions and evolving technical specifications.

Automatic Refinement: Next-step keyword suggestions guide users to deeper intelligence, accelerating the technical review process.

Intelligent Search & Interface:

Semantic Power: Features intelligent **Auto-Suggest** (e.g., ID generation, CNG comfort noise generation) and typo correction to maximize search efficiency.

Precision & Nuance: Provides precise notification of present/missing keywords and results backed by TDocs with keyword coverage, highlighting nuanced form changes (e.g., channel vs. channels).

AI-Driven Context: Offers immediate **AI summaries** explaining result clustering, grouping related themes, and conducting temporal topic analysis to show how keyword usage evolves over time, all in a few seconds.

Immediate Relevance: Visual highlights allow users to see result relevance at a glance.

For details or to book a consultation, contact

support@apexstandards.com
www.apexstandards.com

6G ISAC channel generation

6G ISAC channel generation

next generation ... next generation real ... next generation real time

6G ISAC channel generation

NGS | Next Generation System

6G ISAC channel generation

id generation ... generation annex ... id generation annex

6G ISAC channel generation

next generation ... next generation real ... generation real

6G ISAC channel generation

signal generation ... prach signal generation ... generation ltm

6G ISAC channel generation

generation similar ... generation similar work ... generation similar work flow

6G ISAC channel generation

CNG | Comfort Noise Generation

Auto-suggestion shows next keyword candidates — such as **ID generation**, **signal generation**, and **CNG comfort noise generation** — to maximize search efficiency.

6G ISAC channel generation

Date range: mm/dd/yyyy to mm/dd/yyyy

Search

Sorted by: ☐ Relevance (High → Low) ☐ Date (New → Old) ☒ Date (Old → New)

Found 671 results in 3.3 seconds | Year Range: 2025 - 2025

SEARCH: **6G** **ISAC** channel generation

ACRONYM: ML | Machine Learning PDB | Packet Delay Budget PDU | Protocol Data Unit BER | Bit Error Rate TER | Token Error Rate CPI | Coherent Processing Interval IOU | Intersection-Over-Union RMSE | Root Mean Square Error RB | Resource Block SBF | Sub-Band Full Duplex TR | Tone Reservation FDSS | Frequency Domain Spectrum Shaping

CONCEPT: Packet delay budget PDU PDB Protocol Data Unit proposal latest latest round antenna modelling common evaluation assumptions bit error rate general issues token error rate TER coherent processing interval higher end di nr reference signals

AI Summary

You asked about "6G ISAC channel generation"... The results suggest you're exploring how ISAC (Integrated Sensing and Communication) is being studied for 6G and how channel concepts, waveforms, and frame structures interplay with sensing needs in early proposals and plans.

Main technical themes

- ISAC is repeatedly treated as a study item across RAN groups, including discussions on how sensing integrates with radio design and how to evaluate sensing performance in 6G scenarios. Some content explicitly notes a positive emphasis on ISAC integration, while other threads flag that ISAC-related work relies on adjoining 6G waveform and frame decisions.
- The waveform and frame structure questions center on compatibility with 5G NR for MRSS (Multi-RAT Spectrum Sharing) and on selecting a baseline waveform for 6G downlink. A recurring point is that CP-OFDM remains a baseline option for downlink in 6G proposals.
- 6G system design is being steered toward a unified radio design that supports ISAC, NTN, MRSS, and multi-band operation, with references to 6G (the 6G radio technology under study) and several topics like waveform, numerology, and channel signaling. Some material highlights the need to align with existing NR concepts to ease migration and interoperability.
- Performance metrics for ISAC are discussed, including positioning accuracy (horizontal/vertical), velocity accuracy, and miss-detection probability, highlighting how sensing quality translates into evaluation of the integrated system.

Key concrete points from the snippets (with sentiment)

- Downlink baseline waveform: CP-OFDM should remain the baseline waveform for 6G downlink. This supports continuity with 5G NR and enables MRSS and multi-antenna configurations across RIS/beam-based deployments.
- ISAC study framing: There are dedicated SID/Study items on ISAC across meetings, including references to NR Rel-20 ISAC work and new ISAC-related SIDs. This signals a positive research trajectory toward sensing-enabled 6G designs.
- Trade-offs / risks: Some topics are prioritized or contingent on other work streams (e.g., dependent on RAN1 stability), indicating potential risks in timing and scope for ISAC-related decisions.
- Frame structure and MRSS: Proposals emphasize frame structure compatibility with NR to enable MRSS and seamless 5G-6G coexistence.
- Sensing performance metrics: ISAC discussions include specific performance metrics (horizontal/vertical positioning, velocity accuracy, missed detection), underlining ISAC as a measurable capability.

Topic	What it means	Snippet cues
ISAC study items	Formal ISAC work items across RAN groups; aims to quantify sensing integration with comms	"ISAC study"; "SID on ISAC for NR Rel-20"; "6G SI"
Baseline waveform	CP-OFDM as the downlink baseline for 6G; supports NR continuity	"Downlink Baseline : CP-OFDM should remain the baseline"
Frame structure / MRSS	Compatibility with 5G NR and MRSS; frame structure alignment	"Frame structure, compatibility with 5G NR to allow for efficient 5G-6G MRSS"
ISAC sensing metrics	Performance metrics for ISAC (positioning, velocity, missed detection)	"Horizontal/vertical positioning accuracy"; "Missed detection probability"

[ASCII diagram showing relationships]

6G Radio (6GR)

Waveforms Frame/Signals

CP-OFDM ---- ISAC integration

NR NR alignment ---- MRSS / Frame structure

#1 | www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_123/Docs/R1-2509303.zip | Fri, Nov 7, 2025 (29 days ago)

Coverage: 1/4 (25%) Partial: channel → "channels" Missing: 6G generation

EVM | Error Vector Magnitude

R1-2509303 | Source/Author: LG Electronics, CAT, Thales, Lenovo, IITH, WiSig / Contact: Seungmin Lee / Title: Discussion on DL OFT-OFDM for 6GR / Type: discussion / Agenda item: 11.3.1 Waveform / Status: noted / Release: Rel-20 / Related Wts: FS_6G_Radio / Meeting: RAN1-123

Agreement CP-OFDM waveform as defined in 5G NR is supported as the basis for 6GR for downlink - Enhancements/modifications on CP-OFDM ... target use cases, signals/channels to use the waveform, and how the proposal is intended (if applicable) to support multiplexing with CP-OFDM, including MRSS, and how multi-user multiplexing is supported, etc.

... Spectral efficiency o High speed tolerance o Scheduling flexibility o Integration with ISAC Proponents provide information on the following aspects, if applicable - MRSS compatibility - Target channels/signals, e.g. all channels, P-SCH only, etc.

... Spectral efficiency o High speed tolerance o Scheduling flexibility o Integration with ISAC - Potential motivations metrics used, and quantified gains for a proposal, e.g.

... High speed tolerance o Scheduling flexibility o Scheduling flexibility o Integration with ISAC o Integration with ISAC Proponents provide information on the following aspects, if applicable - MRSS compatibility - MRSS compatibility - Target channels/signals, e.g.

- Target channels/signals, e.g.

The search UI is highly intuitive: each keyword is shown on its own colored keyword card with clear highlights in the results, so users can see relevance at a glance. Immediate **AI summaries** explain result **clustering**, **group related themes**, and **provide temporal topic analysis**, including how keyword usage and meaning evolve over time. Results are backed by relevant TDocs with explicit keyword coverage, including nuanced form changes (for example, channel vs. channels), and enriched with related **acronyms** and **concepts** to maximize useful intelligence in minimal time. It supports **semantic** and **fuzzy** search, **precise indications of which keywords are present or missing**, and **high-fidelity context snippets for quick review**. Users can sort by relevance (default), newest to oldest (for standardization delegates tracking the latest work), or oldest to newest (for prior-art and IPR searches to find the earliest ideas), and benefit from **next-step keyword refinement suggestions** to support efficient claim charting.