

APEX STANDARDS

Enhancing Strategy and Performance with Efficient 3GPP TDoc Tooling

Business Justification for the Acquisition of Apex Standards 3GPP TDoc Analysis Platform

"Before, I tread lightly on TDocs, leaning on memory, Excel and peers' hint—business as usual. Apex Standards enables a new level of clarity and efficiency, making TDoc analysis easy and enjoyable, something I hadn't imagined I needed." - a kind sharing from a longstanding partner

Staying ahead in standardization engagement is pivotal for sustaining competitive advantage. The Apex Standards 3GPP TDoc Analysis Platform is a strategic asset for your company, especially in enhancing your innovation efforts and fast-tracking the development of features that will appeal to your customers.

YOUR WORK IS IMPORTANT.

Frontline delegates and back-office researchers often navigate the complexities of 3GPP standardization, handling a variety of tasks including TDoc submission, review, and management, as well as refining search strategies and responding to email reflectors—all within strict deadlines. The quality of your work has direct impact on your organization's success because the monitoring and feedback of standards will guide R&D adjustments, product development, feature innovation, and intellectual property strategy. Your insights ensure that your organization remains aligned with industry standards and ahead in technological advancements.

YOUR TIME IS VALUABLE.

Traditional methods for managing 3GPP workloads, while acceptable for handling an agenda item or following a specific topic, struggle with systematic reviews due to their labor-intensive nature and susceptibility to blindspots. Due to the dynamic nature of consensus building inherent in standardization, researchers, despite specific areas of expertise and prior experiences, used to confront unfamiliar or broader topics requiring cross-checking. However, such process is slowed down by tools like Excel, which do not offer advanced filtering and full-text search capabilities. The manual selection and downloading of each TDoc file cause fatigue and time pressure, limiting the scope and reliability of analysis. Consequently, little time is left for core research, leading to reduced attention, rushed conclusions, decreased work quality, narrowed options, and missed opportunities. These challenges demand for better tooling.

PERFORMANCE SUPERIORITY.

The platform represents an advancement in search quality and scope for TDocs, TS, TR, and state-of-the-art developments, encouraging curiosity and discovery. Equipped with with 30 multi-dimensional filters and a user-friendly graphical user interface (GUI), it empowers users to conduct highly targeted searches using full-text keywords, Change Requests, Text Proposal Sections, and Chairman Notes. This saves researchers valuable time, allowing them to focus on core analysis and consistently deliver high quality work, converting otherwise wasted time into progress and innovation. Further benefits include:

Avoiding Delays and Frustration. The platform prevents delays, ensuring project timelines and delivery schedules are met without frustrating peers relying on your work. **Career accomplishments.** Efficiently accessing and analyzing TDocs enhances your proficiency across various work aspects, freeing you from previous limitations. This streamlined approach empowers you to focus on high value tasks, leading to excellence in your professional role and time-saving for a healthier work-life balance.

Teamwork and Respect. The platform encourages collaborative research by clarifying topic connections and accelerating learning, providing starting points and guiding researchers to ask engaging questions. Doing better homework shows respect of peers' time, enhancing team cohesion and leading to more focused and productive discussions.

Rapid Team Onboarding. The platform quickly familiarizes new team members with the intricacies of past decisions and consensus-building processes, overcoming their learning curve. It scales the team's productivity as it integrates and trains new talent.

Knowledge Expansion and Innovation. Instant access to a curated TDoc database is essential for validating ideas and maintaining R&D momentum. It primes you for informed exploration upon inspiration, offering data-backed insights. Besides locating wanted TDocs, our clients often learn unplanned yet relevant details that enrich their understanding and enhance the quality of their contributions and patents.

Cross-Checking Capabilities. The platform streamlines decision-making through its dynamic filters and intuitive GUI, designed to support in-depth cross-topic analysis and historical insights. Its versatile filtering enables researchers to drill down into specific details ("click to zoom in") or broaden their view for a contextual understanding ("unlick to zoom out"). This capability is valuable in complex fields like NR NTN, Ambient IoT, and AI/ML, which span numerous Working Groups, Work Items, and Agenda Items, transforming what used to be a tedious and error-prone process into an efficient, accurate one and facilitating informed and logical decisions across all stages.

Efficient Strategy Formulation. The platform accelerates TDoc searches, enabling quick strategy formulation. Delegates can thus proactively participate in discussions, enhance TDoc contributions, identify TDoc co-authoring opportunities, and increase credibility by referencing key TDocs, strengthening your company's role in 3GPP.

Community Engagement and Situational Awareness. Apex Standards, with its dedication to serving high-tech standardization communities and its regular newsletters, improves your situational awareness and aids in strategic adjustments.

A STRATEGIC OPPORTUNITY MERITS YOUR ATTENTION.

Investing in Apex Standards tooling may advance your researchers' career accomplishments and propel your organization's success. This strategic move optimizes the quality, efficiency, and innovation of your 3GPP standardization efforts, securing key operational intelligence and a competitive edge for your team.

We simplify TDoc analysis, enabling you to focus on "Core Research."

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Primary Activities around TDoc	Key Aspects	Without Apex Standards	With Apex Standards	Delta
Time Management				
TDoc Review: TSG/WG Meeting Related	Prepare for and review meeting agendas	11%	8%	-27% ▼
TDoc Review: R&D Related	Evaluate R&D progress vis-à-vis standards	9%	17%	89% ▲
TDoc Review: IPR Related	Evaluate standard-related disclosures, assess product infringement risks, check prior art risks against historical TDocs, explore new standard essential patent opportunities	8%	19%	138% ▲
TDoc Review: Product Related	Evaluate the maturity of emerging features and ensure product compliance with current and "to-be" standards	5%	8%	60% ▲
TDoc Review: Strategy Related	Develop strategic plans for long-term technology roadmaps as required by executives, CTOs, and management	2%	3%	50% ▲
3GPP Meeting Attendance: F2F	Physical participation and engagement	6%	6%	0%
3GPP Meeting Attendance: Remote	Remote participation and engagement	3%	2%	-33% ▼
3GPP Meeting Attendance: Travel	Domestic and international travel logistics to and from the meeting venue	1%	1%	0%
Searching and Organizing TDocs	Search, sort and organize TDocs for accessibility	19%	8%	-58% ▼
Email Reflector	Communicate with counterparts through breakout and offline discussions	11%	10%	-9% ▼
Contribute TDocs	Draft and upload new TDoc	7%	9%	29% ▲
Analyze Competitor Proposals	Competitive analysis, commenting and strategic positioning	6%	4%	-33% ▼
Compare TDocs from the current and previous meetings	Track companies' position changes, pick apart outdated elements, mark new topics, key issues, and way forward	3%	1%	-67% ▼
Identify Industry Trends	Examine feature timeline and propose amendments or new developments	1%	2%	100% ▲
Liaison within 3GPP	Coordinate with 3GPP TSGs and WGs, inter-WG topic tracking	2%	1%	-50% ▼
Liaison outside of 3GPP	Coordinate with other SSOs including the ETSI, IEEE, Wi-Fi, IETF, ITU, Open RAN, ISO, GSMA, 5GAA, oneM2M, etc.	1%	1%	0%
Performance Management				
Confidence level on breadth	On a scale of 1 to 10, how comprehensive does a researcher feel that all relevant TDoc has been considered?	8.5	9.5	12% ▲
Confidence level on depth	On a scale of 1 to 10, how thorough does a researcher feel that the analysis has clarified all technical nuances?	9.3	9.8	5% ▲

Performance Index Comparison. After adopting the Apex Standards 3GPP TDoc Analysis Platform, standardization professionals saw a significant reduction in the time spent searching and organizing TDocs, from 19% to 8% on average, a 58% decrease. This efficiency boost allowed them to focus more on core areas such as R&D, which increased by 89%, patenting by 138%, and product and feature development by 60%, all critical to their organization's success. The improvement in their work, essential for maintaining competitive edge, also facilitated a 33% reduction in time spent on remote/electronic meetings, enabling the redirection of funds towards investing in efficient tooling, ensuring year-round productivity. Overall, by partnering with Apex Standards, clients have enhanced both the breadth and depth of their analysis, leading to superior work quality and accelerated career achievements, underscoring the platform's strategic benefits on their operational efficiency and competitive positioning.