

Apex Standards Software-as-a-Service (SaaS) Product Matrix

Code	ASS-10 ^{[1][2]}					ASS-11 ^{[3][4][5][6][7][8][9][10]}					ASS-12 ^{[11][12]}				ASS-13 ^{[10][13][14]}			ASS-20 ^[15]			ASS-30		ASS-40		
SaaS Product	ETSI SEP Analysis					3GPP TDoc Analysis					TS Section Essentiality Analysis				SEP-TDoc-TS Knowledge Graph			IEEE 802.11 Wi-Fi Analysis			Open-RAN Analysis		ITI-T JCT-VC Analysis		
Strategic Objective	Global Patent Registry (WO, US, EP, FR, DE, GB, CN, JP, KR, TW, IN, AU, etc)	Declared Patents & Declaration History Look-up and Subject Matter Comparisons	Undeclared Patents and TS-Relevance Search	SEP-TS-Version-Section Association	Standard Essentiality Ranking & Landscaping	All Technical Specification Groups (TSG) & Working Groups (WG)	Standardization Historic Construction & TSG/WG Cross Reference	Standardization Decision Making and Bifurcation Tracking (Understand How Key Decisions were Negotiated and Handled)	Change Request (CR) Genealogy Tracking & Version/Revision Visualization	TDoc / Work Item (WI) / TS Due Diligence	Standard Essentiality Search by Release, TS, Version, Section Clause, and Page No	SEP Discovery, Validation and Verification	Relevant Illustrative Specific Part of the Standard (Section Clauses) Candidacy Search & Ranking	TS Section Clause to Another TS Section Clause Technical Reference	Patent, TS, TDoc, Section Relational Network Visualization	See the Vicinity of Focal Patents and Other Critically Relevant Documents	Investigate the Nature of Relevance among SEP-TDoc, TDoc-TDoc, SEP-TS and SEP-Section Relations	Wi-Fi Standards Search (including Wi-Fi 6, Wi-Fi 6E and Wi-Fi 7)	All 802.11 WGs (ARC SC, Coex SC, ITU AHG, JTC 802 SC, PAR SC, T Gaz etc). Revision Tracking	Cross Check between IEEE 802.11 DCN Documents and 3GPP TDocs	All WGs (WG1-Architecture, WG2-Intelligence, --- WG10-OAM, as well as TRG-Integration and SRG-Security Groups)	Cross Check O-RAN Alliance Specifications with 3GPP TR/TS Specifications, Interfaces and Vocabulary of Re-Programmability	ITU-T H.263, H.264, H.265, H.266 Standardization Document Search	Cross Check JCT-VC 3GPP-SA4 (Broadband Codec), and AV1 Standards	
Corporate Functional Role	Global Patent Registry (WO, US, EP, FR, DE, GB, CN, JP, KR, TW, IN, AU, etc)	Declared Patents & Declaration History Look-up and Subject Matter Comparisons	Undeclared Patents and TS-Relevance Search	SEP-TS-Version-Section Association	Standard Essentiality Ranking & Landscaping	All Technical Specification Groups (TSG) & Working Groups (WG)	Standardization Historic Construction & TSG/WG Cross Reference	Standardization Decision Making and Bifurcation Tracking (Understand How Key Decisions were Negotiated and Handled)	Change Request (CR) Genealogy Tracking & Version/Revision Visualization	TDoc / Work Item (WI) / TS Due Diligence	Standard Essentiality Search by Release, TS, Version, Section Clause, and Page No	SEP Discovery, Validation and Verification	Relevant Illustrative Specific Part of the Standard (Section Clauses) Candidacy Search & Ranking	TS Section Clause to Another TS Section Clause Technical Reference	Patent, TS, TDoc, Section Relational Network Visualization	See the Vicinity of Focal Patents and Other Critically Relevant Documents	Investigate the Nature of Relevance among SEP-TDoc, TDoc-TDoc, SEP-TS and SEP-Section Relations	Wi-Fi Standards Search (including Wi-Fi 6, Wi-Fi 6E and Wi-Fi 7)	All 802.11 WGs (ARC SC, Coex SC, ITU AHG, JTC 802 SC, PAR SC, T Gaz etc). Revision Tracking	Cross Check between IEEE 802.11 DCN Documents and 3GPP TDocs	All WGs (WG1-Architecture, WG2-Intelligence, --- WG10-OAM, as well as TRG-Integration and SRG-Security Groups)	Cross Check O-RAN Alliance Specifications with 3GPP TR/TS Specifications, Interfaces and Vocabulary of Re-Programmability	ITU-T H.263, H.264, H.265, H.266 Standardization Document Search	Cross Check JCT-VC 3GPP-SA4 (Broadband Codec), and AV1 Standards	
Research & Development (R&D) and Innovation																									
Chief Technology Officer (CTO)	X				X	X				X		X			X		X		X		X		X		
Divisional R&D Director	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Scientist, Engineer, Inventor	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
State of the Art Search	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Standardization & Eco-system																									
Director	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Company Delegate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Back Office Analyst	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Primary Negotiator						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Intellectual Property Rights (IPRs), Legal, Patenting, Asset Class and Quality Control																									
Chief IP Officer (CIPO)	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Portfolio Manager	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Prior Art Search	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SEP Claim Drafting & Amendment	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SEP Expedited Filing Justification	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SEP In-Licensing	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SEP Out-Licensing	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SEP Identification						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SEP Verification											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SEP Selection	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SEP Assertion	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
F/RAND Rate Determination	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Coordination, Certification, Design, Production & Manufacturing																									
Product Specification											X											X		X	
Standard Compliance											X											X		X	
Chip/Product Patent-TS Marking											X											X		X	
Vendor Relation											X											X		X	
Supply Chain Management											X											X		X	
Strategic Investment / IP Acquisition and Offloading / Merger and Acquisition (M&A)																									
IP Risk Exposure Analysis	X	X	X	X	X																X	X		X	
IP Valuation	X	X	X	X	X																X	X		X	
IP Acquisition	X	X	X	X	X																X	X		X	
IP Offloading / Pruning	X	X	X	X	X																X	X		X	
IP Financing / Lending	X	X	X	X	X																X	X		X	
IP Insurance	X	X	X	X	X																X	X		X	
Government Relation, Policy and Regulation																									
Antitrust Evidence Analysis	X	X	X	X	X	X	X	X	X	X											X		X		X
National Standardization Monitoring						X	X	X	X	X											X		X		X
National Security Analysis						X	X	X	X	X											X		X		X
Science & Tech Reliance Analysis	X	X	X	X	X	X	X	X	X	X											X		X		X
Geopolitical Risk Analysis	X	X	X	X	X	X	X	X	X	X											X		X		X

References

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2. www.apexstandards.com/apex.standards.sees.pdf
3. www.apexstandards.com/apex.3gpp.tdoc.pdf
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