

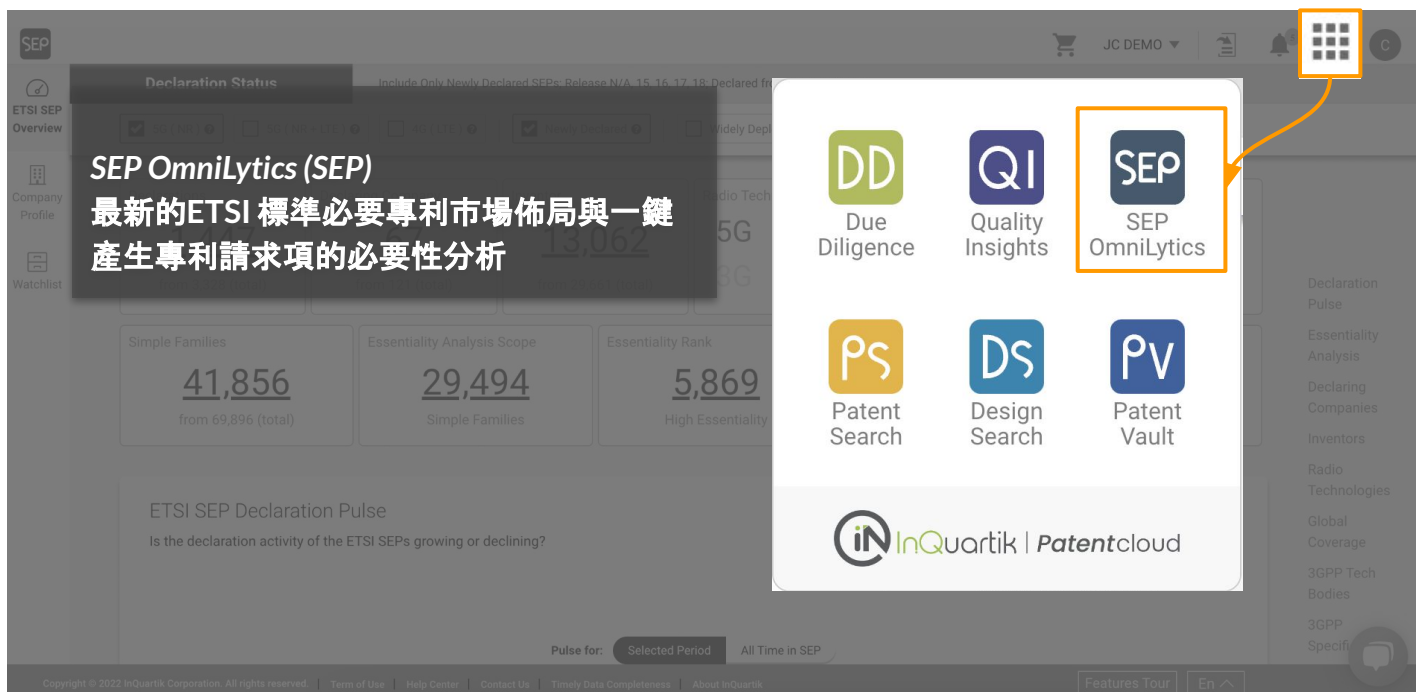


入门指南

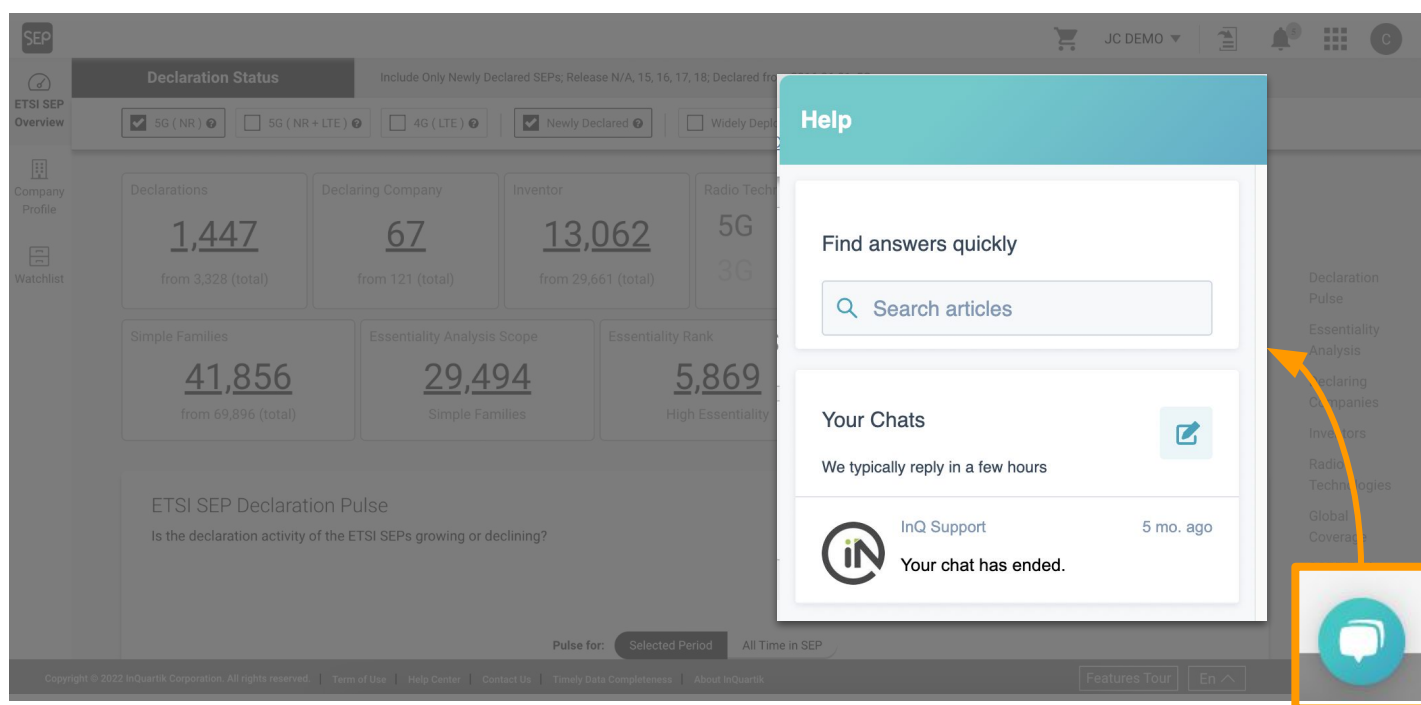
目录

- 第一次使用 *SEP OmniLytics*
- *SEP OmniLytics* ETSI 标准必要专利总览
- *SEP OmniLytics* 公司档案
- *SEP OmniLytics* 必要性分析与指标
- SEP 技术标准比对表
- 设置管理 SEP 监控清单
- 更多专利管理利器 —
专利有效性分析，专利佈局分析
- *SEP OmniLytics* 快速上手导览影片

点击右上九宫格并选择产品 SEP OmniLytics (SEP)



需要帮助？随时联系我们！



1. 由 ETSI 标准必要专利总览或公司档案来找寻您想要检视的专利

SEPT

Declaration Status

Include Only Newly Declared SEPs; Release N/A, 15, 16, 17, 18; Declared from 2016-06-01; 5G;

5G (NR)

Newly Declared

Widely Deployed

Well Maintained

Click to Edit

ETSIP SEP Overview

Company Profile

Watchlist

Declarations

Declaring Company

Inventor

Radio Technologies

3GPP Tech Bodies

3GPP Specifications

Simple Families

Essentiality Analysis Scope

Essentiality Rank

Active Patents

ETSI SEP Declaration Pulse

Is the declaration activity of the ETSI SEPs growing or declining?

1,447

from 3,328 (total)

67

from 121 (total)

13,062

from 29,661 (total)

5G 3G

LTE 2G

15

RAN CT SA

212

from 1,224 (total)

41,856

from 69,896 (total)

29,494

Simple Families

5,869

High Essentiality

19,548

Low Essentiality

71,529

(in 44 Countries)

Declaration Pulse

Essentiality Analysis

Declaring Companies

Inventors

Radio Technologies

Global Coverage

3GPP Tech Bodies

2. 界定资料范围

SEPT

Declaration Status

Include Only Newly Declared SEPs; Release N/A, 15, 16, 17, 18; Declared from 2016-06-01; 5G;

5G (NR)

5G (NR + LTE)

4G (LTE)

Newly Declared

Widely Deployed

Well Maintained

Click to Edit

ETSIP SEP Overview

Company Profile

Watchlist

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(in 44 Countries)

Declaration Pulse

Essentiality Analysis

Declaring Companies

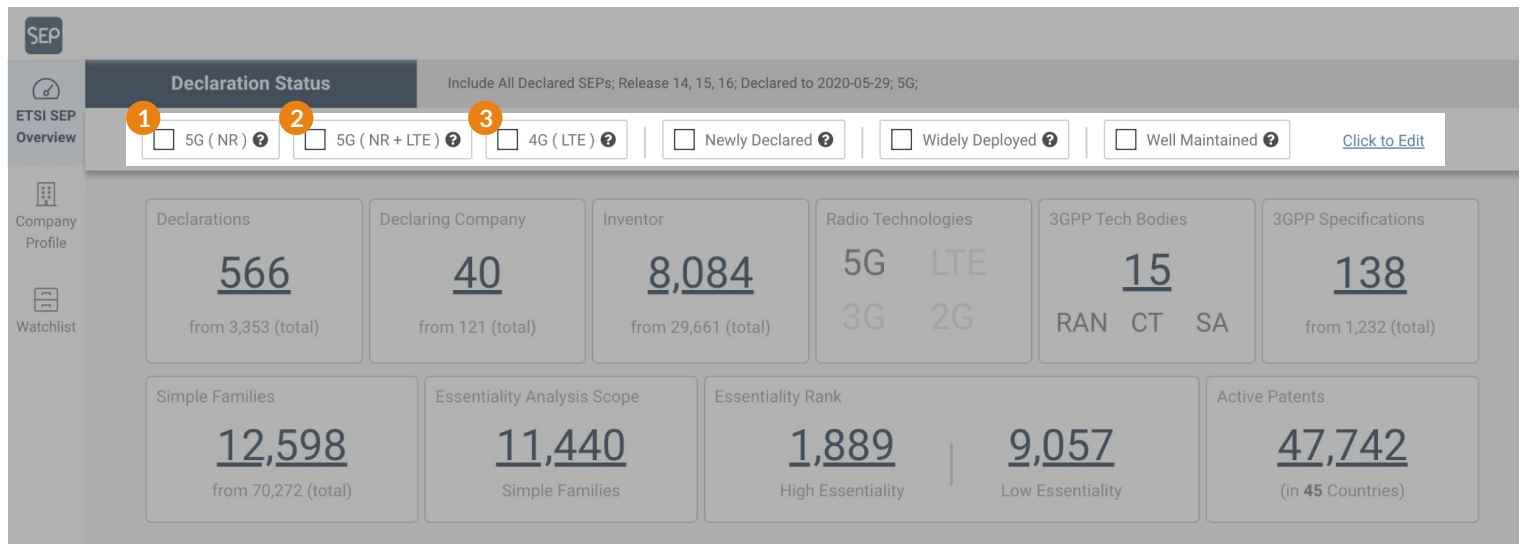
Inventors

Radio Technologies

Global Coverage

3GPP Tech Bodies

独家筛选功能快速精准锁定标准必要专利分析范围



1 5G (NR) 布局 ☒ 5G (NR) ?

哪些专利是宣告 5G (NR) 无线标准必要专利？

5G (NR) 布局筛选出匹配以下条件的标准必要专利：

1. 标准专利声明在 3GPP 技术版本 15 和之后版本，或标注为 (N/A)
2. 宣告日自：2016-06-01 及之后（3GPP 技术规格 R15 起始日）
3. 3GPP 无线技术：5G。表示与 5G 有关的技术规格

2 5G (NR+LTE) 布局 ☒ 5G (NR + LTE) ?

哪些专利是宣告 5G (NR+LTE) 无线标准必要专利？

5G (NR+LTE) 布局筛选匹配以下条件的标准必要专利：

1. 标准专利声明在 3GPP 技术版本 15 和之后版本，或标注为 (N/A)
2. 宣告日自：2016-06-01 及之后（3GPP 技术规格 R15 起始日）
3. 3GPP 无线技术：5G/LTE，包含与 5G/LTE 有关的技术规格

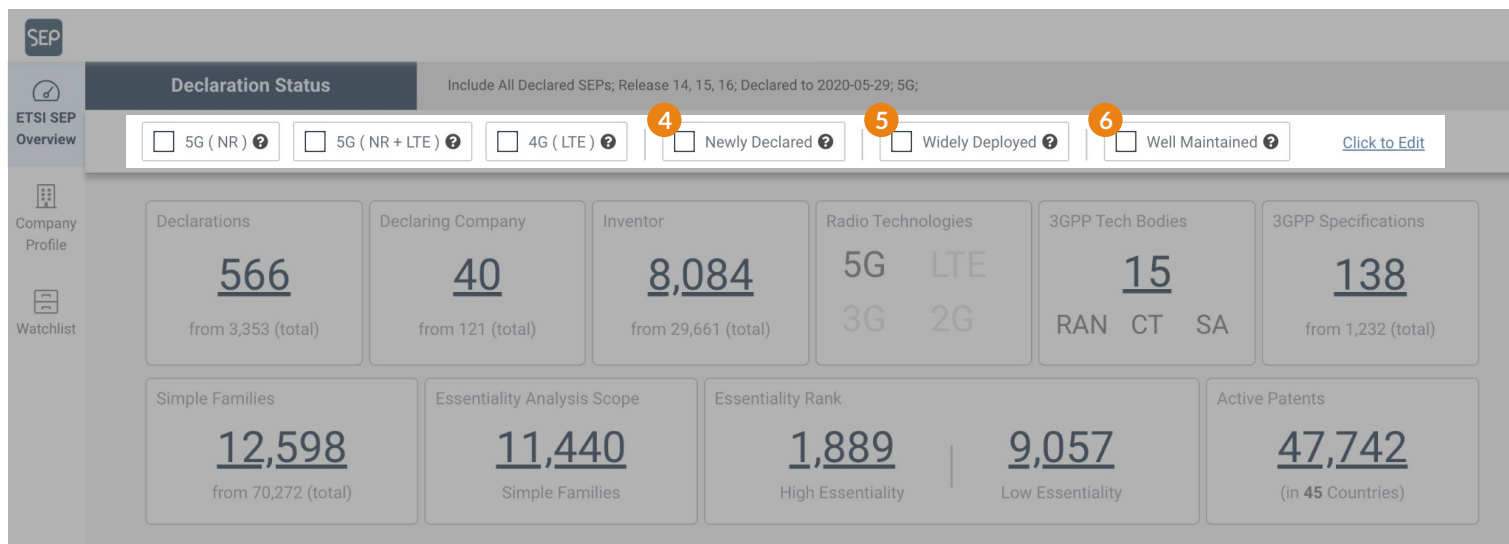
3 4G (LTE) 布局 ☒ 4G (LTE) ?

哪些专利是宣告 4G (LTE) 无线标准必要专利？

4G (LTE) 布局筛选匹配以下条件的标准必要专利：

1. 标准专利声明在 3GPP 技术 8 ~ 18 版本，或标注为 (N/A)
2. 宣判日期：2006-01-23 (3GPP 技术标准 R8 起始日期)
3. 3GPP 无线技术：LTE，包含与 LTE 有关的技术规格

独家筛选功能快速精准锁定标准必要专利分析范围



4 新宣告布局 ☒ 新宣告 ?

哪些标准必要专利是5G专有的专利？

一些标准必要专利权人可能会将一个专利宣告在 2G, 3G, LTE, 5G 技术下, 造成重复宣告。「新宣告」布局筛选出先前从未宣告过的标准必要专利。搭配无线技术选项可协助精准检视某一期、版本或世代中新增的标准必要专利家族。

5 广泛布局 ☒ 广泛布局 ?

哪些专利有较广的布局范围？

「广泛布局」筛选出当前布局超过10个区域的标准必要专利家族; 此选项可找出该权利人自评具有较高必要性的标准必要专利。

6 高度维护布局 ☒ 高度维护 ?

哪些专利是该权利人自评具有较高质量及必要性的标准必要专利？

「高度维护」选项筛选出未有放弃申请、未缴费失效、撤回或撤销成员的标准必要专利家族 (PCT 申请不列入计算)。

SEP OmniLytics

ETSI标准必要专利总览

设定数据范围

SEP

Subscribe to SEP OmniLytics

帝寶訴訟文章資料蒐集

Declaration Status

Include All Declared SEPs; Release 14, 15, 16; Declared to 2020-05-29; 5G;

ETSI SEP Overview

☐ 5G (NR)

☐ 5G (NR + LTE)

☐ 4G (LTE)

☐ Newly Declared

☐ Widely Deployed

☐ Well Maintained

Click to Edit

Company Profile

Watchlist

Include All Declared SEPs; Release 14, 15, 16; Declared to 2020-05-29; 5G; [Reset](#)

Release

14, 15, 16

Radio Tech

5G

Tech Body

All Tech Body

3GPP Spec

All 3GPP Spec

Declaring Company

All Declaring Company

Country

All Country

Legal Status

All Legal Status

Essentiality Rank

All Essentiality Rank

TS Relevancy

All TS Relevancy

Claim Scope Support

All Claim Scope Support

The latest declarations were declared on 2022-05-18.

For more details about our dataset, please check [SEP OmniLytics Data Quality Report](#)

Select All Series

Clear

Search

☐ 38 Radio technology beyond LTE

☐ 37 Multiple radio access technology aspects

☐ 36 LTE (Evolved UTRA), LTE-Advanced, LTE-Advanced Pro radio technology

☐ 35 Security algorithms (3)

☐ 34 UE and (U)SIM test specifications

☐ 33 Security aspects

☐ 32 OAM&P and Charging

☐ 31 Subscriber Identity Module (SIM / USIM), IC Cards. Test specs.

☐ 30 Programme management

仪表板

点击仪表板上的信息可进入详细专利清单

SEP

Declaration Status

Include All Declared SEPs; Release 14, 15, 16; Declared to 2020-05-29; 5G;

ETSI SEP Overview

☐ 5G (NR)

☐ 5G (NR + LTE)

☐ 4G (LTE)

☐ Newly Declared

☐ Widely Deployed

☐ Well Maintained

Click to Edit

Company Profile

Watchlist

Declarations

566

from 3,353 (total)

Declaring Company

40

from 121 (total)

Inventor

8,084

from 29,661

Radio Technologies

5G LTE

3G 2G

3GPP Tech Bodies

15

RAN CT SA

3GPP Specifications

138

from 1,232 (total)

Simple Families

12,598

from 70,272 (total)

8,084 records

#	Inventor	Declaring Company	Ultimate Parent	Declarations	Declared Families	Declarat
1	CHEN WANSHI	APPLE INC ERICSSON QUALCOMM INC	APPLE INC TELEFONAKTIEBOLAGET LM ERICSS... QUALCOMM INC	118	688	2008
2	GAAL PETER	QUALCOMM INC	QUALCOMM INC	120	645	2004
3	LUO TAO	QUALCOMM INC	QUALCOMM INC	112	630	2008
4	NAGATA SATOSHI	NTT DOCOMO	NIPPON TELEGR & TELEPH CORP NTT	52	336	2009
5	LI JUNYI	NOKIA CORP QUALCOMM INC	NOKIA CORP QUALCOMM INC	101	301	2008

«

<

1

2

3

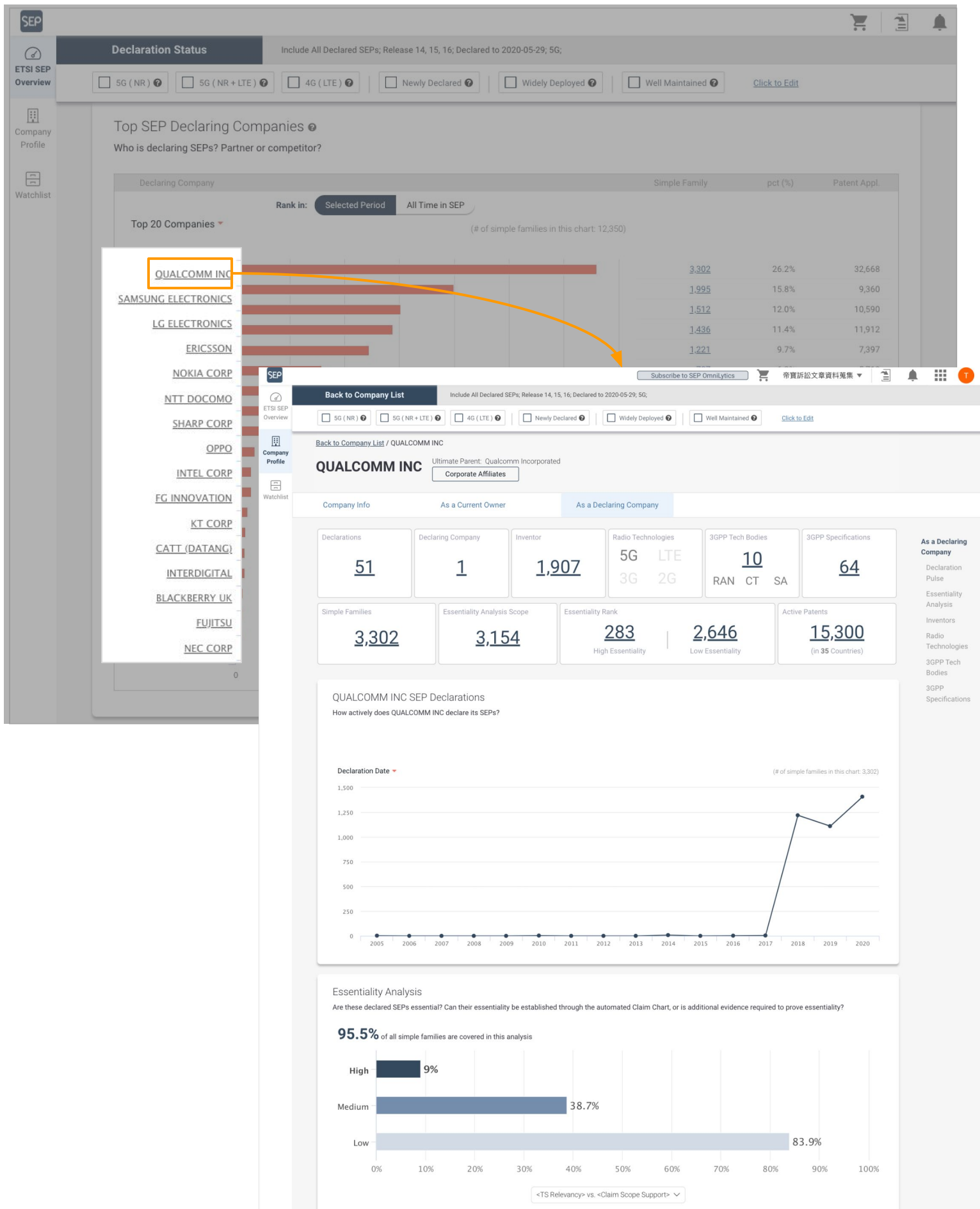
4

...

>

»

在图表上公司列表点击公司名称可查看其公司档案

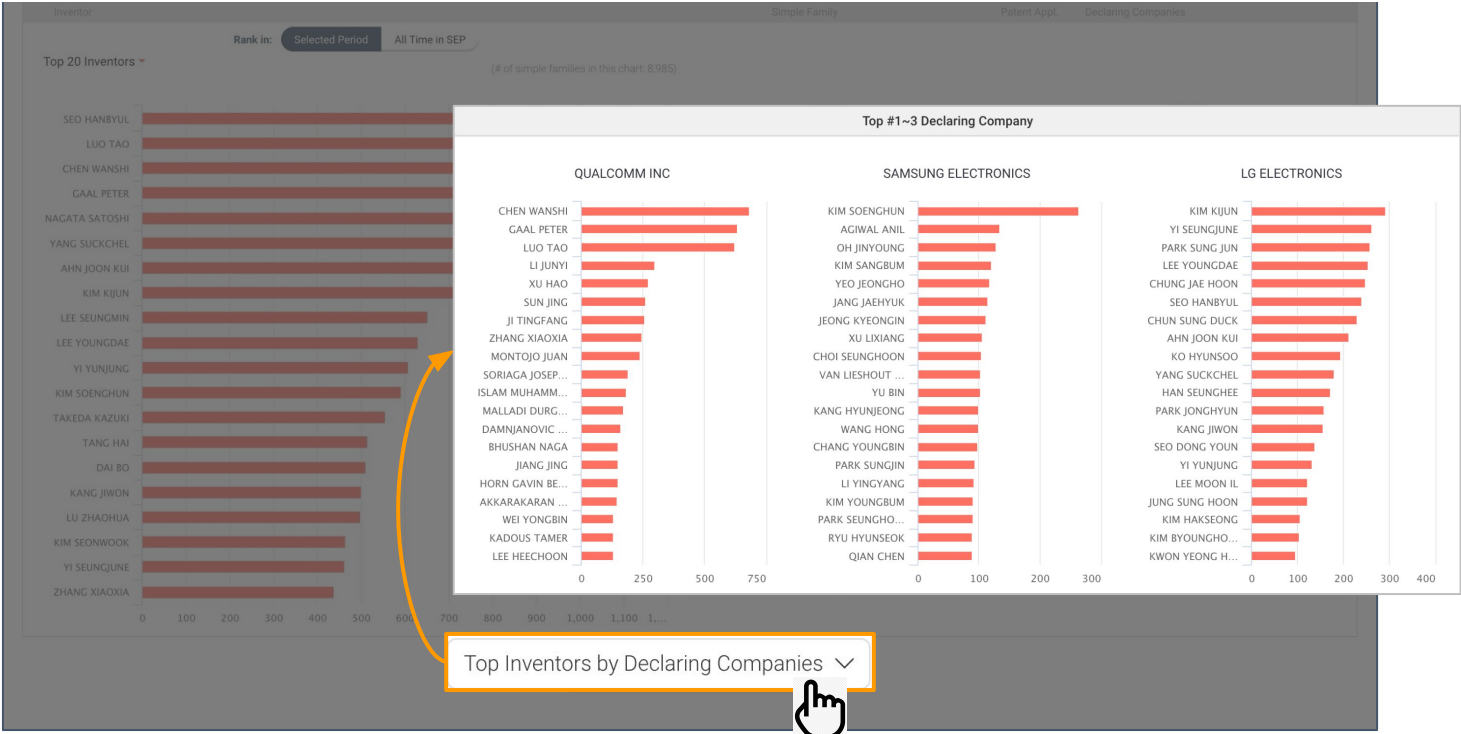


标准必要专利主要发明人

点击图表下方「各宣告公司主要发明人」可展开检视前20大标准前必要专利宣告公司及其主要发明人

标准必要专利主要发明人

谁是最活跃的标准必要专利发明人？

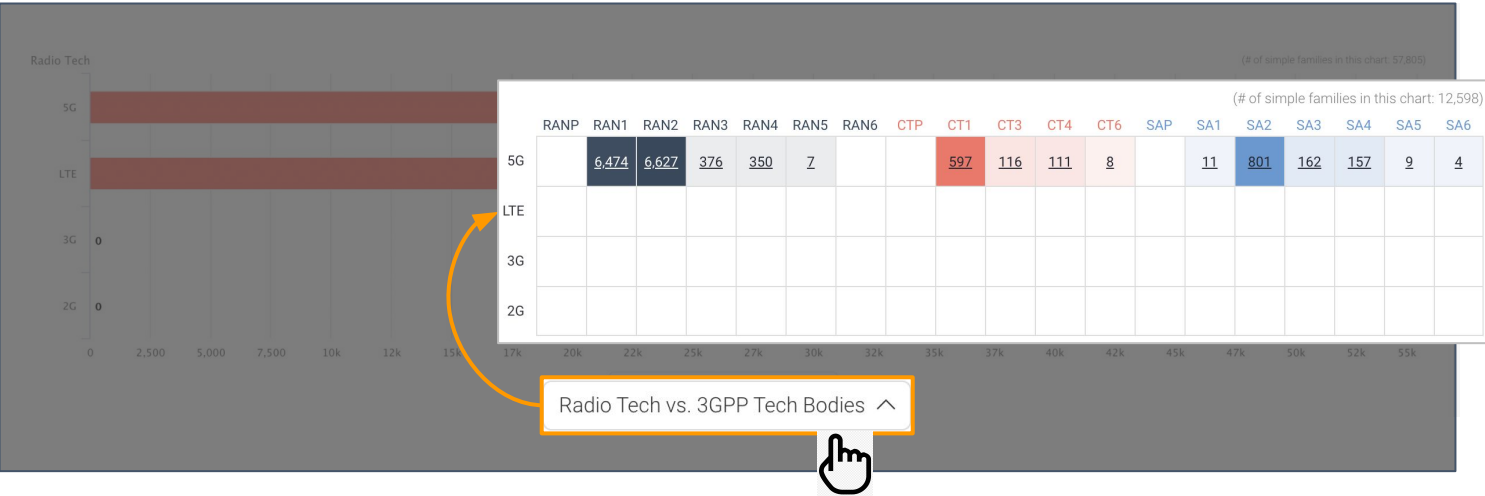


标准必要专利无线技术分布

点击图表下方“无线技术 vs. 3GPP 工作群组”可展开检视其详细矩阵图

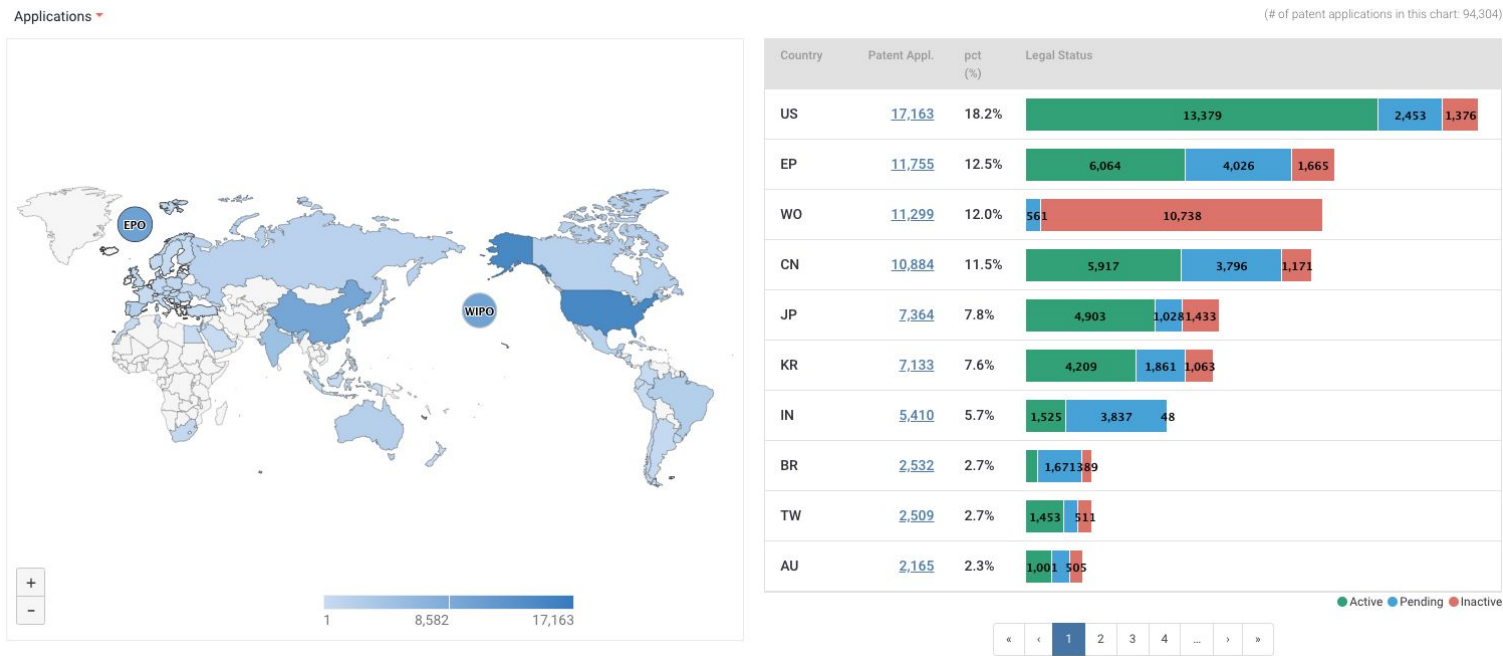
标准必要专利无线技术分布

涉及哪一代通信技术？ 5G 或 LTE？



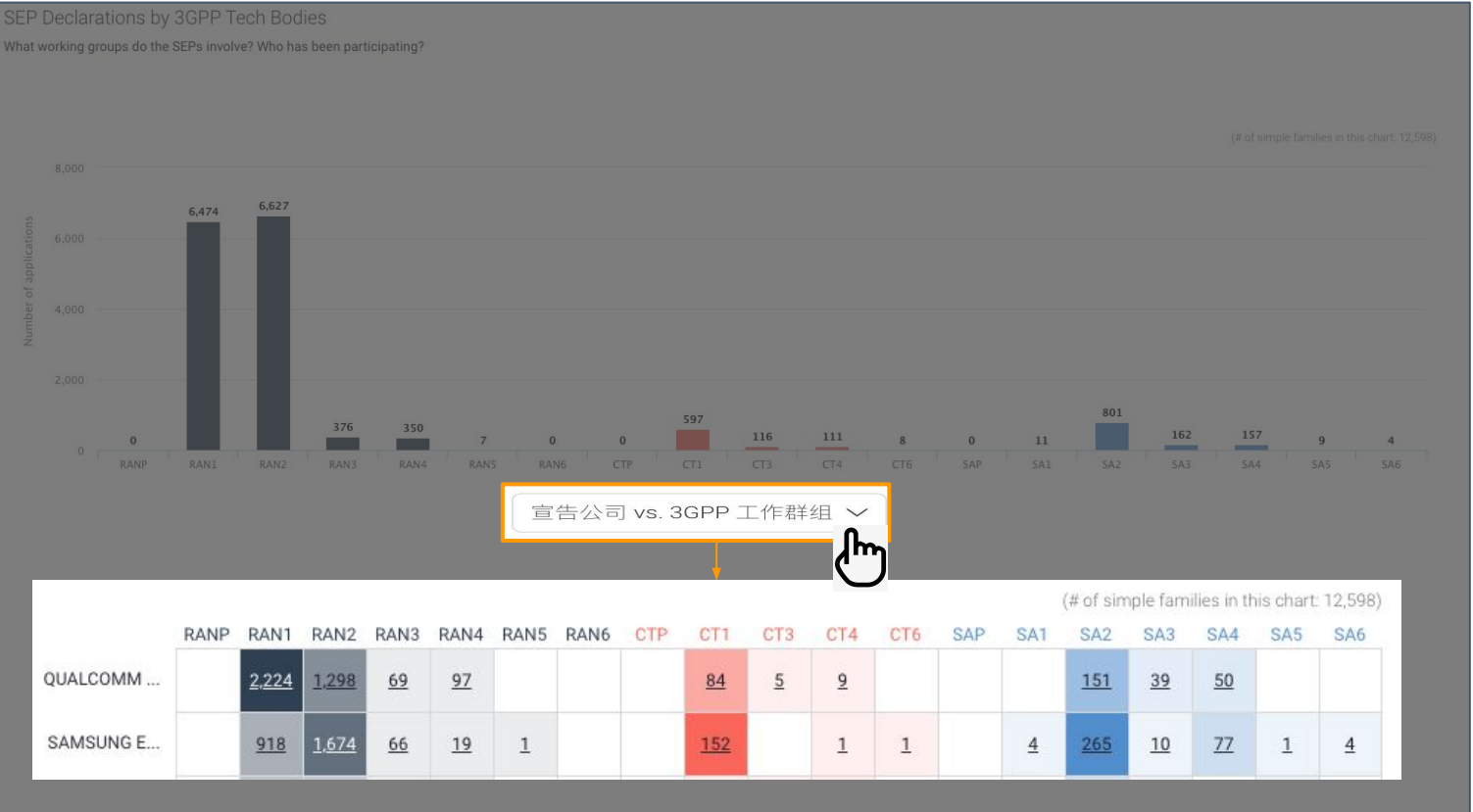
全球专利布局与法律状态

点击图表上的数字可其对应的详细专利清单



标准必要专利 3GPP 工作群组分布

点击图表下方「宣告公司 vs. 3GPP 工作群组」可展开查看前 30 大宣告公司与其 3GPP 工作组分布矩阵图表



SEP OmniLytics

公司档案

在公司档案页面左上角可以切换检视专利权人或宣告公司

SEP

ETSI SEP Overview

Company Profile

Watchlist

Current Owner

Declaring Company

Include Only Newly Declared SEPs; Release N/A, 15, 16, 17, 18, Declared from 2016-06-01; 5G.

☒ Newly Declared ☐ Widely Deployed ☐ Well Maintained [Click to Edit](#)

Declaring Company

of each company.

(Patents in this chart are calculated based on simple families)

Applications	SEP Portfolio Size	% (Total SEPs)	High Essentiality (Fam.)	High Essentiality (Fam.) %
31,473	6,183	14.77%	1,144	18.50%
12,449	4,095	9.78%	613	14.97%
26,980	3,806	9.09%	271	7.12%
16,849	3,607	8.62%	734	20.35%

公司信息：

检视企业的关联和附属公司与各自所属的3GPP组织伙伴。

作为宣告公司：

检视宣告公司重点无线技术，3GPP 工作群组与技术规格分布来了解评估竞争趋势。

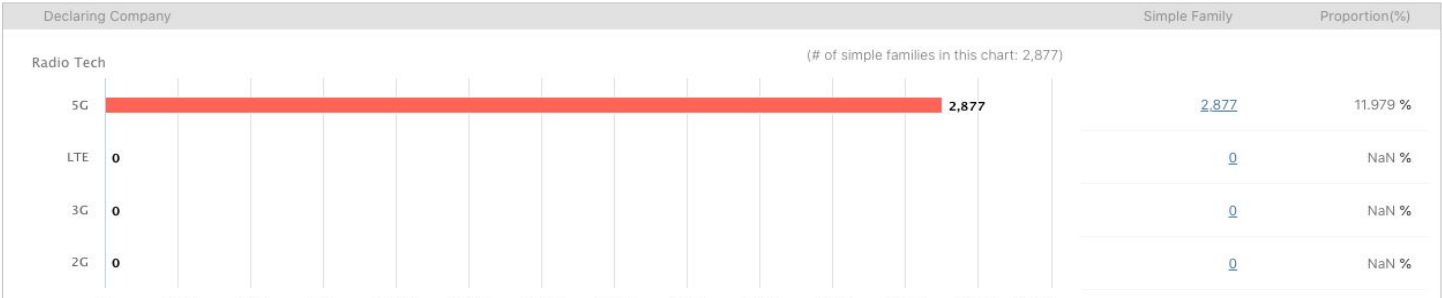
Company Info

As a Current Owner

As a Declaring Company

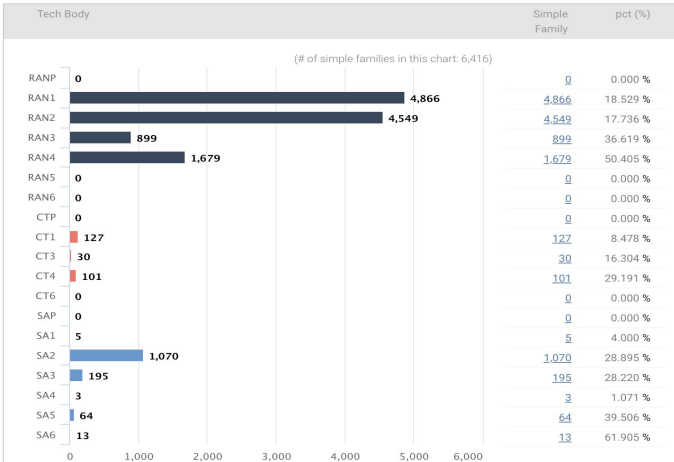
SEP Declarations by Radio Technologies

Which generation of radio technologies has HUAWEI been involved in? Proportion of SEPs involved?



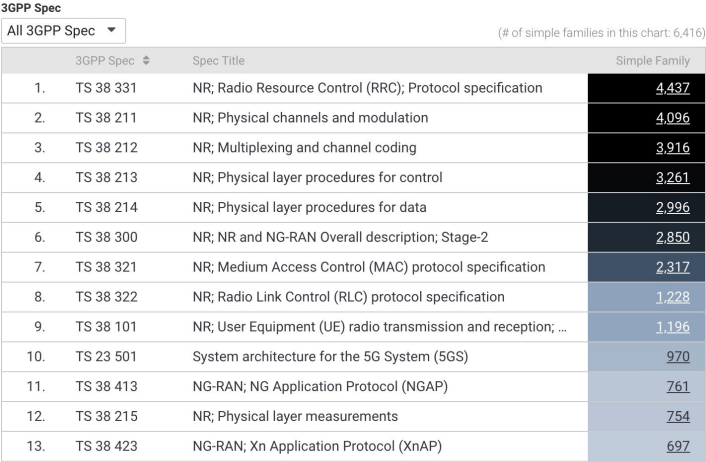
SEP Declarations by 3GPP Tech Bodies

Which working groups has HUAWEI been involved in? Proportion of SEPs?



SEP Declarations by 3GPP Specifications

Which specifications has HUAWEI been involved in? Which technology?

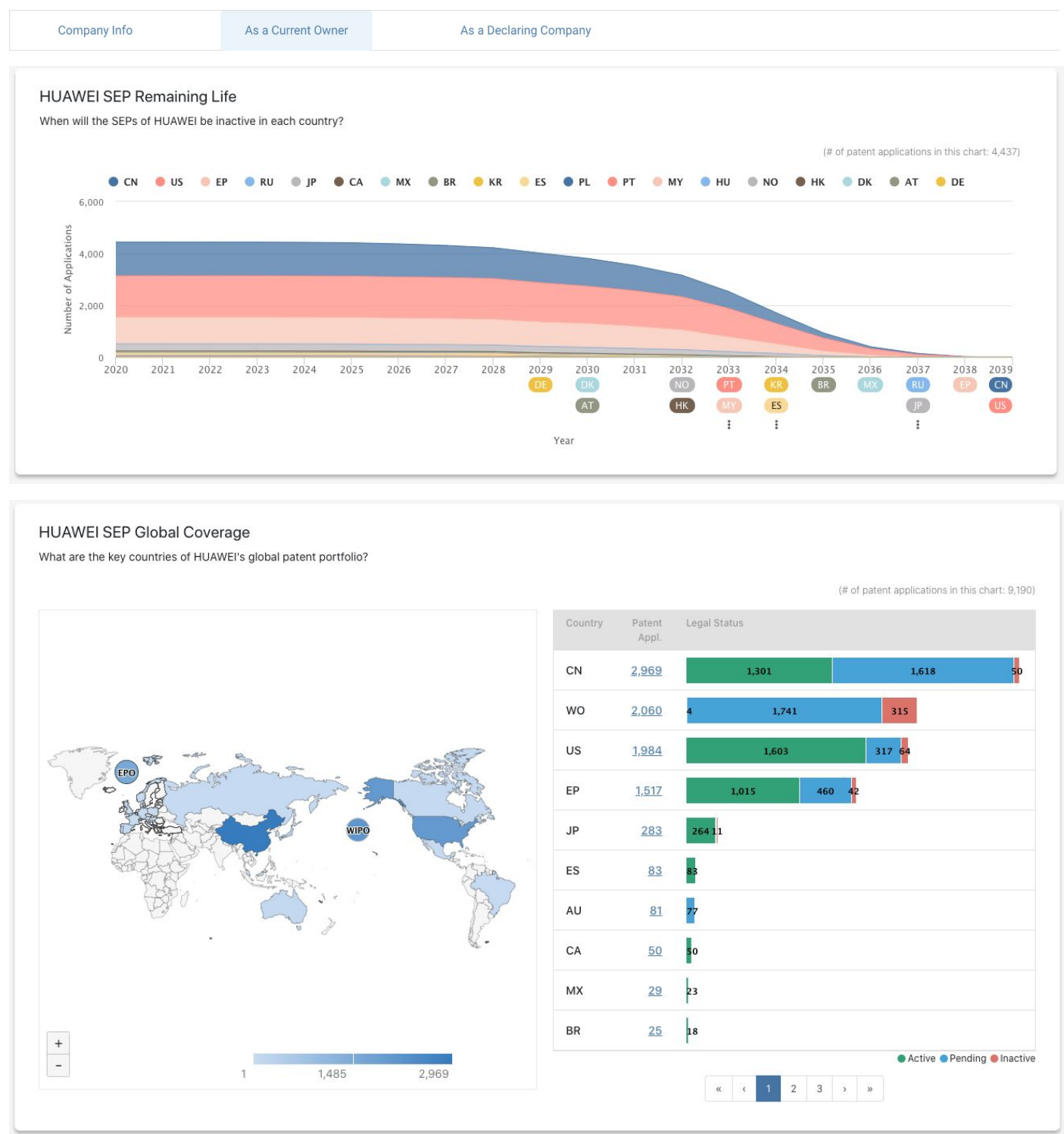


作为权利人：

洞悉己方的专利组合 — 重点布局国家、法律状态、与专利剩余年限

洞悉他人的专利组合 — 主要市场与专利主张优先权期限

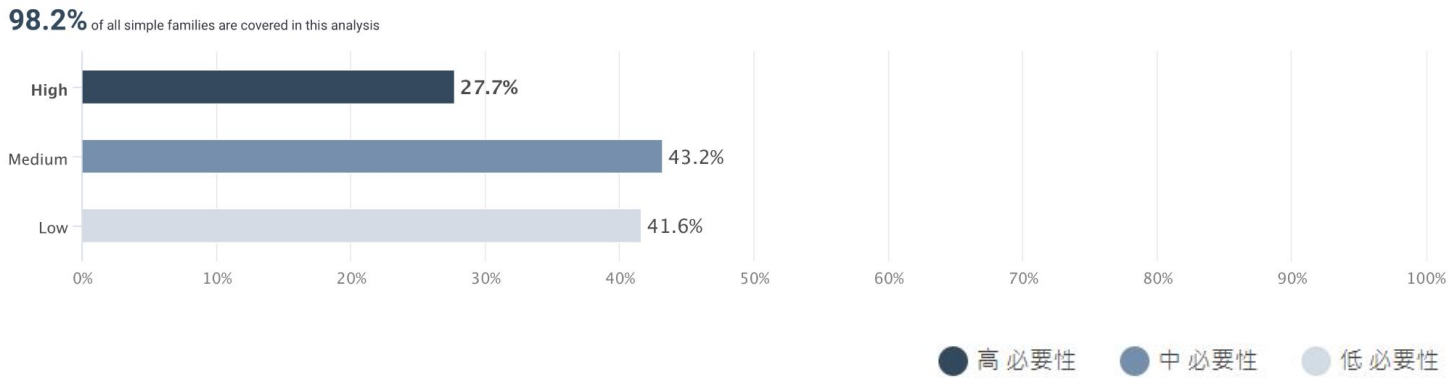
以下图表可以检视此公司的标准必要专利组合在各市场的投入与专利法律状态。



SEP OmniLytics

必要性分析与指标

孚创云端团队提出的**必要性指标**可协助进行分析厘清某些标准必要专利[过度宣告](#)的问题。



SEP OmniLytics 的必要性指标是根据已宣告的必要标准专利的**独立请求项**与之说明书的专利范围明确度或与3GPP 技术标准关联度来做匹配的验证结果。

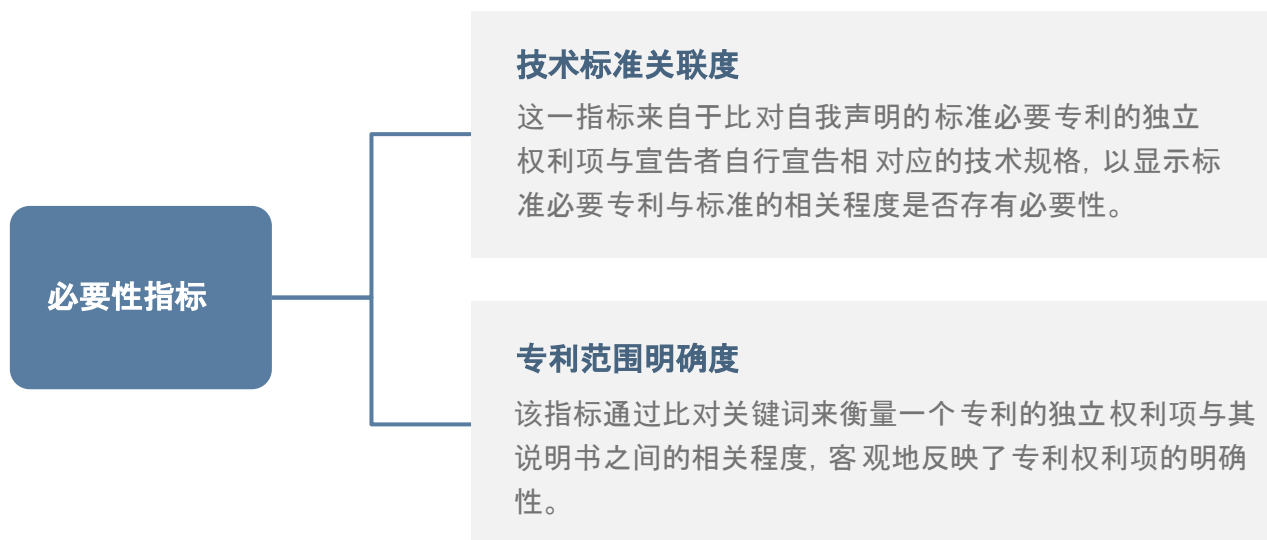
必要性指标通过自动化的比对表(Claim Chart)检验标准必要专利的必要性是否明确。若指标为「高」，代表着其独立请求项、专利说明书以及宣告标准间存在明显的文字对应关系，可用于支持必要性。若指标为低虽未必代表专利欠缺必要性，但需要额外的专家意见或是参考数据来佐证。

*** 关于SEP OmniLytics 的数据**

- **SEP OmniLytics 的来源与计算范围是于 ETSI 宣告的标准必要专利。**
- **请求项的比对只限于当标准必要专利所宣告的ETSI 技术规格版本与版次，且只取用公开或公告该专利最新的独立请求项。**
- **计算SEP OmniLytics 必要性指标的数据范围只限包含来自 US、EP、WO 专利局的英文专利。**

必要性指标的组成

SEP OmniLytics 必要性指标是由：技术标准关联度与专利范围明确度二项指标组成。



独立请求项的比对项目

技术标准关联度 — 专利的独立请求项 vs. 其对应的宣告之 3GPP 技术规格标准的相关度。

专利范围明确度 — 专利的独立请求项 vs. 该专利说明书词汇比对的明确度。



与独立请求项比对的关键词有核心关键词与通用关键字

- 「核心关键字」包含所有可以在3GPP 技术规格中被找到并明确定义的术语。
- 「通用关键字」包含独立请求项中所有并未被3GPP 技术规格明确定义的术语。

US20220046583A1 | Claim#1Comparison

Is the selected claim essential in corresponding to its declared TS? Which keywords are missing?

Claim Chart Summary > Claim #1 Comparison

#1.01 #1.02 #1.03 #1.04 #1.05

TS 38 331

All High (7) Partial (131) Low (0)

Claim Element #1.03

a first **message** including **information** for **paging** configuration of a second **communication system**

Keywords

Critical Keywords 4

information
message
configuration
communication system

General Keywords 1

paging

High | 11.2.2

?UERadioPagingInformation

? UERadioPagingInformation This **message** is used to transfer radi **paging** **information**, covering both upload to and download from the 5GC, and between gNBs.

Direction: gNB to/ from 5GC and gNB to/from gNB UERadioPagingInformation **message** -- ASN1START -- TAG-**UE-RADIO-PAGING-**INFORMATION****-START UERadioPagingInformation: ::= SEQUENCE { criticalExtensions CHOICE { c1 CHOICE { ueRadioPagingInformation UERadioPagingInformation-IEs, spare7 NULL, spare6 NULL, spare5 NULL, spare4 NULL, spare3 NULL, spare2 NULL, spare1 NULL }, criticalExtensionsFuture SEQUENCE { } } } UERadioPagingInformation-IEs: ::= SEQUENCE { supportedBandListNRForPaging SEQUENCE (SIZE (1 .. maxBands)) OF FreqBandIndicatorNR OPTIONAL, nonCriticalExtension SEQUENCE { } OPTIONAL } -- TAG-**UE-RADIO-PAGING-**INFORMATION****-STOP -- ASN1STOP UERadioPagingInformation field descriptions supportedBandListNRForPaging Indicates the **UE** supported **NR** frequency bands which are derived by the gNB from **UE-NR** Capability .

High | 4.2.1

Related terms for "communication system"

evolved universal terrestrial radio access network

fifth generation

long term evolution

new radio

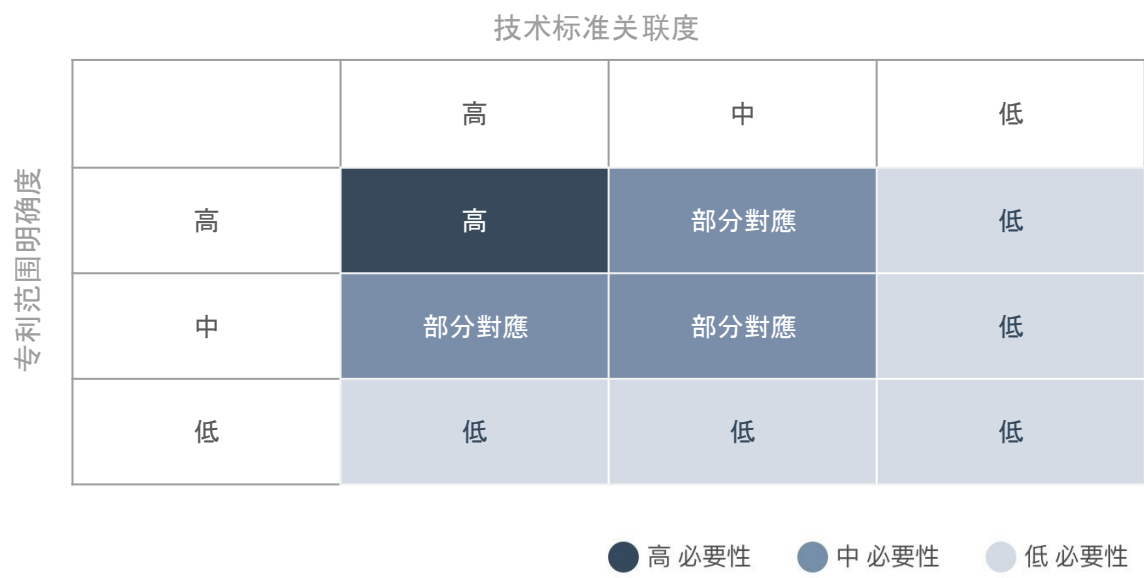
TS 22.822 (Abbreviation)
NR: new radio

TS 22.822 (Abbreviation)
NR: new radio

umts terrestrial radio access network

技术标准关联度 与专利范围明确度的比对范围是一章节的段落而不是整个章节。如此可以确保独立请求项的术语不是散落在一个章节的每个段落，而是在特定或相关的段落中被找到，以显示独立请求项与技术规格的相关性。

在 Patentcloud 数据库中收录于 ETSI 宣告的标准必要专利演算的必要性指标分为高、中、低。必要性指标为「高」必须是技术标准关联度与专利范围明确度指标皆为「高」。



必要性指标是由技术标准关联度指标与专利范围明确度指标组成，以下为此二指标各自评比的计算与标准。

技术标准关联度

当一独立请求项的技术标准关联度指标是「高」代表超过90%的请求项用语可以经由比对在其相对应的宣告标准的技术规格中找到相同或相关的关键词。「部分对应」代表只有2/3到90%的请求项用语能在技术规格中成功配对。

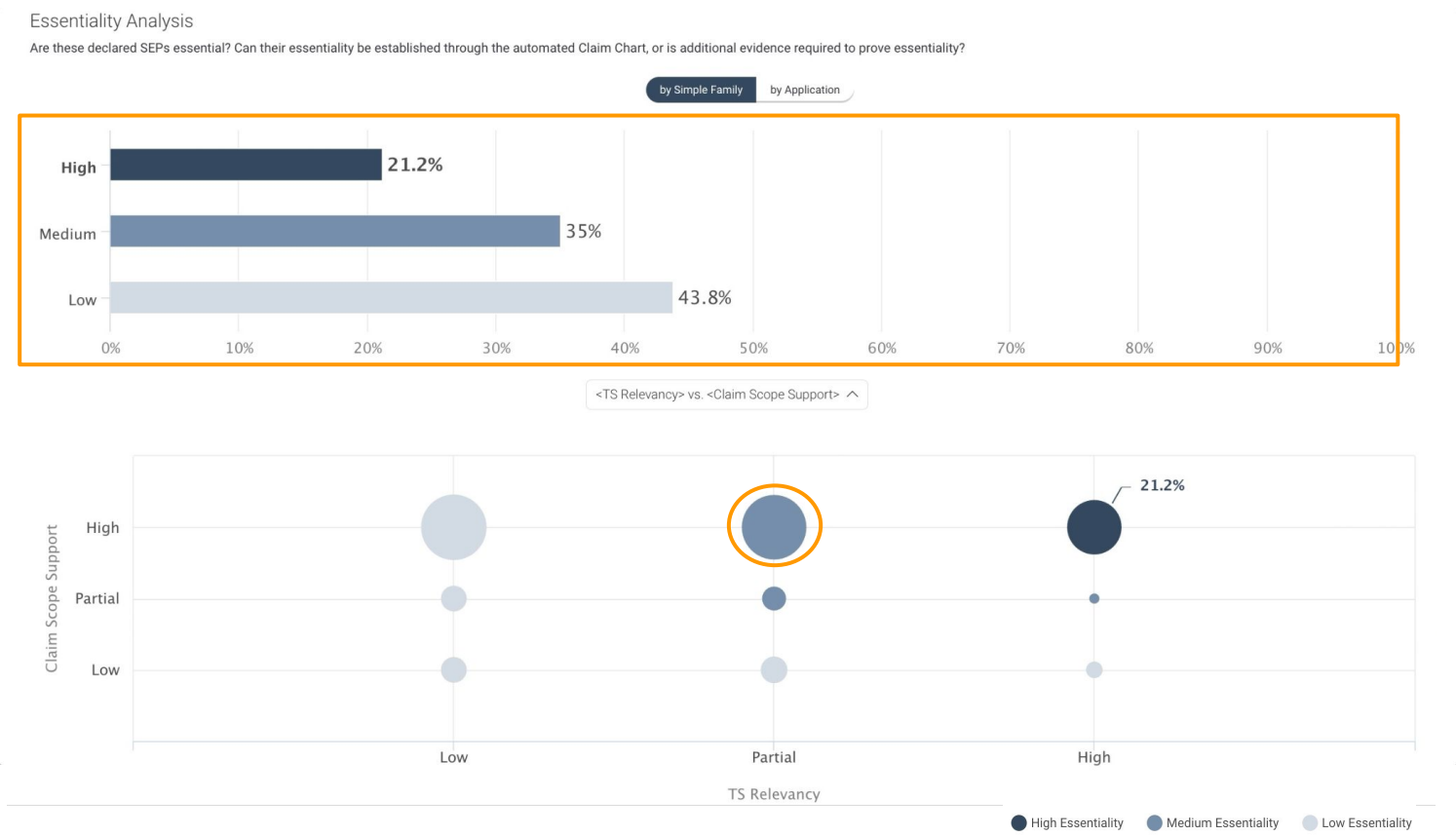
技术标准关联度	
指标	% 请求项用语比对成功
高	> 90%
部分对应	66.6% (2/3) ~ 90%
低	0% ~ 66%

专利范围明确度

当一独立请求项的专利范围明确度指标是「高」代表100%的请求项用语可以经由比对在其专利说明书找到相符的用语。

专利范围明确度	
指标	% 请求项用语比对成功
高	100%
部分对应	80% ~ 99%
低	< 80%

1. 在必要性分析图表上点击相对应指标的直条或群组

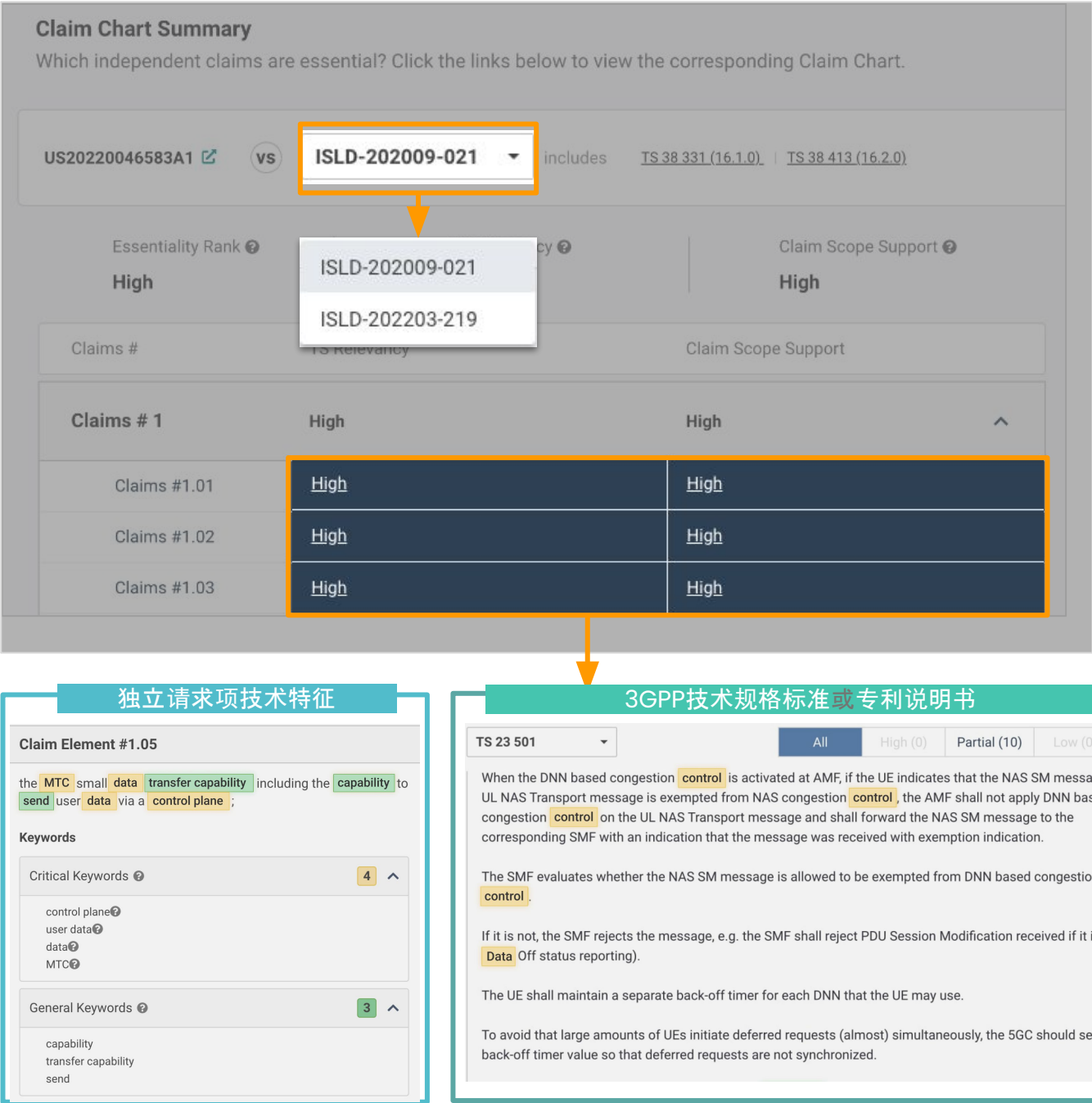


2. 点击专利列表上欲选取专利的指标进入此专利的比对表摘要页

	#	Patent No.	Title	Essentiality Rank	TS Relevancy	Claim Scope Support	Ind. Claim	TS (Version)
☐	1	WO2022/046331A1	SPATIAL MEASUREMENTS ASSOCIATED WITH TRACKING REFERENCE SIGNALS	High	High	High	#16, #80	TS 38 214 (R17) TS 38 331 (R17)
☐	2	US20220052906A1	TECHNIQUES FOR RADIO LINK FAILURE RECOVERY AND BEAM FAILURE RECOVERY ON SECONDARY CELL GROUP IN DORMANCY STATE	High	High	High	#28	TS 37 340 (R17) TS 38 331 (R17)
☐	3	US20220053329A1	TRIGGERING OF UNMANNED AERIAL VEHICLE AUTHENTICATION AND AUTHORIZATION PROCEDURE	High	High	High	#1, #8, #16, #23	TS 23 501 (R17) TS 23 502 (R17) TS 23 503 (R17)
☐	4	US20220045723A1	TECHNIQUES FOR MANAGING BEAMS IN	High	High	High	#76	TS 20 123 (R17)

- 3. 比对表摘要页显示此专利各独立请求项的各项指标表现。下拉菜单可以切换对应的技术规格卷号来做比对
- 4. 点击任一指标（高、部分对应、低）来检视自动化比对表的独立请求项技术特征与对其所宣告的技术标准或其专利说明书的对照

下图显示的高、部分对应、低指标与第20页专利列表上的指标是用相同的计算标准，除了在此的解析范围是各个请求项技术特征。一个独立请求项的指标是取其下请求项技术特征最低的指数，以凸显该标准必要专利最可能被攻击的请求项技术特征。



SEP 技术标准对比表 一

找出最具關聯的的技術標準，並評估必要性指標。

SEP 技术标准比对表

利用SEP 技术标准比对表功能，将您自己的请求项上传并与3GPP技术规范/报告比对。

输入请求项内容：

1. 点击 左上方“+ 创建” 按钮后出现一弹窗 。
2. 在文字区内输入名称和欲上传的请求项后点击“继续”。

The screenshot displays the SEP Claim Charting web application. On the left sidebar, the 'SEP Claim Charting' icon is highlighted with an orange box. The main header area includes a 'Subscribe to SEP Omnilytics' button, a shopping cart icon, and a user profile 'Karen 75k backstage'. Below the header, the 'SEP Claim Charting' section is active, showing a 'Find the most relevant standard to assess essentiality.' prompt. A '+ Create' button is highlighted with an orange box and a hand cursor. A 'Create' modal form is open, featuring a 'Title' field with the text 'My new claim#1' and a 'Claim' text area containing a detailed description of a wireless communication method. At the bottom of the modal, there is a character limit indicator 'Character limit: 343 / 10000' and a 'Continue' button highlighted with an orange box. A footer note at the bottom of the page states: '注: 请输入英文请求项并至少输入100个字元（字元上限10,000）'.

注: 请输入英文请求项并至少输入100个字元（字元上限10,000）

SEP 技术标准比对表

比对范围设定

要定义比对范围，选择来与请求项比对的3GPP技术规范/报告并选择比对结果显示数量。
点击“More+” 展开更多设定范围。
完成设定后点击“确定”。

Create

Scope Settings

Release

15, 16, 17, 18

Publication date from

2016-06-01

Publication date to

More +

Radio Tech

All Radio Tech

3GPP Spec

All 3GPP Spec

Tech Body

All Tech Body

Most relevant

Type

☒ Technical Specification (TS)
☐ Technical Report (TR)

Version

☒ Latest

Display results: Show the top

☒ 3 ☐ 10 documents

Reset to default

Back

Confirm

点击 "确定" 后比对将会开始进行，系统会提示以下讯息：工作任务已在背景执行中。

System Messages

The job will be completed in the background.

Confirm

您可以在列表上查看处理中或是完成的请求项比对记录。

SEP Claim Charting

Find the most relevant standard to assess essentiality.

+ Create

Download Delete

Number of Claim Charts:2/150

Search

	#	Title	TS Relevancy	TS (Version)	Date Created	Last Modified
☐	1	My new claim#1	Processing ...	-	2022-08-01	2022-08-01
☐	2	123	High	TR 38 821 (16.1.0)	+9 2022-08-01	2022-08-01

SEP 技术标准比对表

检视比对结果

列表会显示技术标准关联度和上传的请求项最相关的技术规范/报告。
将滑鼠标悬停在技术标准(版次)旁的数字上, 可以查看最相关的技术规范列表。显示的技术标准的数量将根据你设置的显示(前3个或10个文件)。

点击右边的设置图标可以修改当前请求项的内容和范围。*

☐	#	Title	TS Relevancy	TS (Version)	Modified	
☐	1	My new claim#1	High	TS 28 552 (17.6.0)	-08-01	
☐	2	123	High	TR 38 821 (16.1.0)	-08-01	

TR 38 821 (16.1.0)

TS 28 552 (17.6.0)

TS 36 300 (17.0.0)

TS 38 300 (17.0.0)

TR 25 912 (17.0.0)

TS 25 224 (17.0.0)

TS 36 133 (17.5.0)

TS 36 331 (17.0.0)

TS 36 521-3 (16.12.0)

TS 36 306 (17.0.0)

检视Claim Chart 摘要页

点击技术标准关联度(高/中/低), 查看经由将请求项与每个最相关的技术标准比对而产生的关联度指标的Claim Chart 摘要。

Claim Chart Summary

Which independent claims are essential to the invention?

My new claim#1

 Change Scope

TS 28 552 (17.6.0)

High

TS 36 300 (17.0.0)

High

TS 38 300 (17.0.0)

High

TS 25 224 (17.0.0)

Medium

TS 25 305 (17.0.0)

Medium

TS 25 331 (17.0.0)

Medium

TS 36 133 (17.5.0)

Medium

TS 36 331 (17.0.0)

Medium

TS 36 423 (17.0.0)

Medium

TS 36 521-3 (16.12.0)

Medium

Overall

Essentiality Rank

TS Relevancy

Claim Scope Support

Claims #

TS Relevancy

Claim Scope Support

Claims # 1

High

-

Claims #1.01

High

-

Claims #1.02

N/A – Insufficient for evaluation

-

Claims #1.03

High

-

Claims #1.04

High

-

Claims #1.05

High

-

Claims

A method for wireless communication at a user equipment, the method comprising: identifying a service; selecting a first random access channel (RACH) configuration for the service from a set of RACH configurations for a plurality of groups of services; and conducting a RACH operation for the service according to the first RACH configuration.

You can select which technical specifications/reports to include in the summary. (Note: Only TS/TR already included in the mapping scope can be selected.)

*如果您变更现有请求项内容或比对范围, 将会重新比对, 可能需要一些时间。

必要性分析的验证、 资料状态与定义

在 2021/01/03 ~ 2022/02/28 间，55,003件美国涉讼专利中有563件专利为标准必要专利。
在 2012/09/16 ~ 2022/03/01 间，8,565件IPR申请中所主张的专利有222件为标准必要专利。

必要性指标— 技术标准关联度指标	高
美国涉讼标准必要专利（563 件）	29.7%
IPR 申请中所主张的标准必要专利（222 件）	31.78%
*所有的标准必要专利	14.63%

*此处是指标准必要专利的独立请求项数量而非专利数量

涉讼或IPR复审主张的标准必要专利为「高」的技术标准关联度指标的比例是所有标准必要专利为「高」的技术标准关联度指标的二倍。

资料完整性

孚创云端团队致力于提供我们的客户最全面且精确的ETSI的标准必要专利宣告纪录。我们尽心维持97%*以上成功被识别出对应的专利号码，且以99%辨识率为目标。

团队过滤了从ETSI IPR数据库截取的原始数据中的噪声或错误资料。我们从ETSI所有的宣告纪录中，过滤掉对应至非3GPP相关规格，或是对应至已撤回的3GPP相关规格的宣告纪录，产生**总合格的3GPP宣告纪录数**。

SEP OmniLytics 数据库采纳的**总有效宣告纪录笔数**是在 Patentcloud 数据库中有对应的专利号或申请号的宣告的标准必要专利且再经过 IPC 号验证来确定没有错误分类等错误产生。

宣告识别率计算方式如下：

被纳入 SEP OmniLytics 的有效宣告纪录总数

宣告纪录辨识率=

所有合格的 3GPP 相关宣告纪录数

SEP OmniLytics 也排除以下资料：

- 美国专利临时申请案
- 未公开的申请号码**
- 非专利的宣告

*若实时监控到识别率低于97%，团队会立刻采取行动

**我们持续监控未公开专利申请的最新状态更新

数据即时性

我们每周由ETSI IPR宣告数据库更新声明文件。

最新的宣告记录识别率请至 [SEP OmniLytics资料质量报告](#) (每日更新)

家族定义

在计算 SEP 的家族数量与认定成员时, SEP OmniLytics 采用 [EPO DOCDB Simple family \(下称简单专利家族\) 的定义](#):「... a collection of patent documents that are considered to cover a single invention」。

我们采用简单专利家族的原因在于:若有一个简单专利家族中的成员被宣告为涵盖了指定标准的 SEP, 则合理推测包含相同发明的其他家族成员, 亦可能会同时涵盖这些标准。然而, 就算某成员能透过 比对表证明其与标准的必要性, 这亦不保证其他家族成员亦能通过同样的检验——如果成员之间的优先权日不同, 其结果差异可能会更大。

因此, 我们选择了范围更小的简单专利家族, 而非 [INPADOC extended families](#) (定义为:「a collection of patent applications covering similar technical content」) 来计算家族数量与认定成员, 并透过其诠释与保存原始宣告资料的意涵, 并避免助长过度宣告的风气。

5G / LTE 定义

在 SEP OmniLytics 中, 标准必要专利必须符合以下条件, 才会被纳入 5G / LTE 布局当中:

- 1. 技术规格中必须包含至少一个3GPP认定为5G或LTE相关的TS或TR
- 2. SEP 所宣告的版本 (Release) 必须符合以下条件:

5G

Release 15 ~ 18 or N/A

LTE

Release 8 ~ 18 or N/A

- 3. SEP 必须在 Release 8 的起始日 (2006-01-23) 之后宣告, 才会被认定为 LTE SEP; 或是在 Release 15 的起始日 (2016-06-01) 之后宣告, 才会被认定为 5G SEP

5G

Declared on or after 2016-06-01

LTE

Declared on or after 2006-01-23

详细信息:[SEP OmniLytics 数据质量报告](#)

最新的专利数据库

专利状态

专利法律状态(涵盖65 个专利局)

CN, JP, US, EP, KR*, WO*, AE, AM, AP, AT*, AU*, BE*, BG, BR*, BY, CA*, CH, CZ*, DE*, DK*, DZ, EC, EG, EM, ES*, FI*, FR*, GB*, GC, GR*, HK*, HN, HU*, ID, IL*, IN, IT*, KE, MC*, MN, MO, MT, MW, MX*, MY, NL*, NO*, NZ*, OA, PA, PH*, PL*, PT*, RU*, SA, SE*, SG, SM, TH, TJ, TW*, UA, VN, ZM, ZW

● 来源: 当地专利局(11)

*来源: INPADOC (31)

专利权人涵盖状态

最新专利权人(涵盖24 个专利局)

CN, JP, US, EP, AT, AU, BE, BR, CH, DE, ES, FI, FR, GB, HK, HU, IL, MX, NL, NO, NZ, PL, PT, TW

如需更多的法律状态和转让信息 细节和定义, 请至[数据实时性与完整性](#) 页面。

设置管理标准必要专利的 监控清单

1. 点击“点击并编辑”，即可展开条件设定，您可以通过下拉式菜单来进一步设定监控选项
2. 在筛选器设定监控选项
3. 点击“+加入监视列表”来保存您设定的条件

Declaration Status

Include All Declared SEPs; Release 14, 15, 16; Declared to 2020-05-29; 5G;

Include All Declared SEPs; Release 14, 15, 16; Declared to 2020-05-29; 5G; [Reset](#)

Release

14, 15, 16

Radio Tech

5G

Tech Body

All Tech Body

3GPP Spec

All 3GPP Spec

Declaring Company

All Declaring Company

Country

All Country

Legal Status

All Legal Status

Declared from

Declared to

2020-05-29

Essentiality Rank

All Essentiality Rank

TS Relevancy

All TS Relevancy

Claim Scope Support

All Claim Scope Support

Specs Included in Claim Chart

All Specs Included in Claim Chart

The latest declarations were declared on 2022-05-18.

For more details about our dataset, please check [SEP Omnilytics Data Quality Report](#)

+ SAVE TO WATCH

SUBMIT

管理监控清单

1. 左侧监控列表页面可以浏览并管理已储存的监控清单
2. 点击“以此为预设看板”即可设置此选定的筛选组合为默认的仪表板
3. 可以设置更新与通知频率届时定期会自动寄发email通知监控结果

Watchlist

6 Boards saved in watchlist

ETSII SEP Overview

Company Profile

Watchlist

Declaration Status

Company Profile

Update and Notification:

Weekly

Monday

Submit

Board Name

Last Updated

Date Created

Set as Default

Share Link

Delete

5G Widely Deployed

0 families

Include Only Newly Declared, Widely Deployed SEPs; Release N/A, 15, 16, 17; Declared from 2016-06-01; 5G;

2021-02-19

Default

LTE SEP

0 families

Include Only Newly Declared SEPs; Release N/A, 8, 9, 10, 11, 12, 13, 14; Declared from 2008-

2021-02-17

注：切换监控列表页面上方的页签可以设置 宣告状态与公司文件的 SEP 监控。

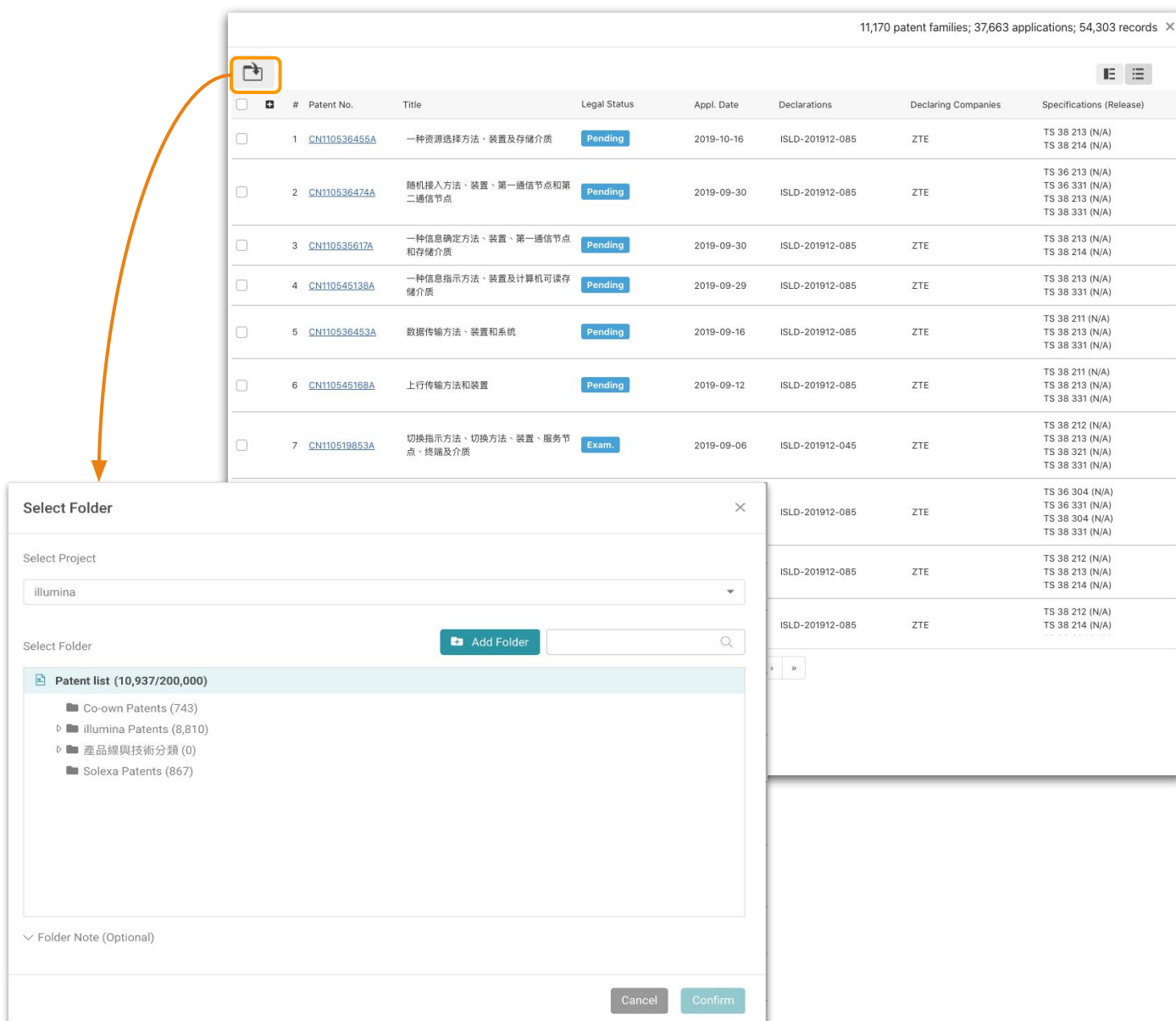
**用 Patentcloud 一次满足
专利工作上的所有需要：
有效性分析，专利组合评估**

導出SEP 資料進一步分析 — Patent Vault

用 Patent Vault 深入分析

可将所选的标准必要专利直接导入 Patent Vault 来进行如：将专利组合存储到文件夹利用统计图表专利矩阵分析报表，从技术、产品和应用领域行分析。并可以邀请自选企业组织或个人共同合作，轻松分享报告和分析结果。

只需将选择从图表或检索结果的专利列表上欲选取的专利后点击专利列表上左上角「加入 Patent Vault 专案」，之后可在弹出窗口选择要加入项目的文件夹阶层及自定义文件夹名称。



The screenshot displays the Patent Vault interface. At the top, it shows statistics: 11,170 patent families; 37,663 applications; 54,303 records. Below this is a table of patents. An orange arrow points from the 'Add Folder' button in the top-left corner of the patent list to the 'Select Folder' dialog box. The dialog box has a title bar 'Select Folder' and a close button. It contains a 'Select Project' dropdown menu with 'illumina' selected. Below this is a 'Select Folder' section with an 'Add Folder' button and a search bar. A list of folders is shown under the heading 'Patent list (10,937/200,000)':

- Co-own Patents (743)
- illumina Patents (8,810)
- 產品線與技術分類 (0)
- Solexa Patents (867)

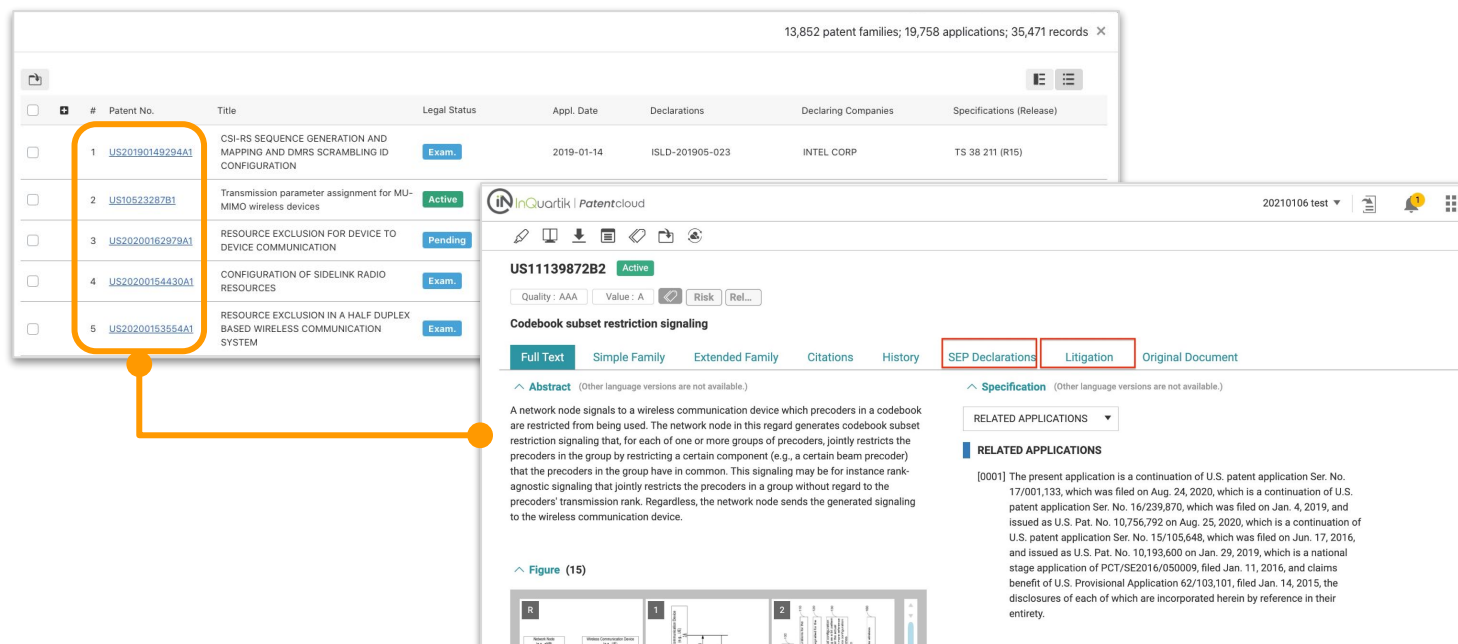
At the bottom of the dialog box, there is a 'Folder Note (Optional)' field and 'Cancel' and 'Confirm' buttons.

#	Patent No.	Title	Legal Status	Appl. Date	Declarations	Declaring Companies	Specifications (Release)
1	CN110536455A	一种资源选择方法、装置及存储介质	Pending	2019-10-16	ISLD-201912-085	ZTE	TS 38 213 (N/A) TS 38 214 (N/A)
2	CN110536474A	随机接入方法、装置、第一通信节点和第二通信节点	Pending	2019-09-30	ISLD-201912-085	ZTE	TS 36 213 (N/A) TS 36 331 (N/A) TS 38 213 (N/A) TS 38 331 (N/A)
3	CN110535617A	一种信息确定方法、装置、第一通信节点和存储介质	Pending	2019-09-30	ISLD-201912-085	ZTE	TS 38 213 (N/A) TS 38 214 (N/A)
4	CN110546138A	一种信息指示方法、装置及计算机可读存储介质	Pending	2019-09-29	ISLD-201912-085	ZTE	TS 38 213 (N/A) TS 38 331 (N/A)
5	CN110536453A	数据传输方法、装置和系统	Pending	2019-09-16	ISLD-201912-085	ZTE	TS 38 211 (N/A) TS 38 213 (N/A) TS 38 331 (N/A)
6	CN110545168A	上行传输方法和装置	Pending	2019-09-12	ISLD-201912-085	ZTE	TS 38 211 (N/A) TS 38 213 (N/A) TS 38 331 (N/A)
7	CN110519853A	切换指示方法、切换方法、装置、服务节点、终端及介质	Exam.	2019-09-06	ISLD-201912-045	ZTE	TS 38 212 (N/A) TS 38 213 (N/A) TS 38 321 (N/A) TS 38 331 (N/A)

檢索全球專利資訊 — Patent Search

查看專利信息

若想得知更多專利訴訟歷程或ETSI宣告信息可以点击專利清單上的專利號即可打開此篇專利單篇頁詳閱專利訊息。



The screenshot displays the InQuartik Patent Search interface. At the top, it shows statistics: 13,852 patent families; 19,758 applications; 35,471 records. Below this is a table of search results. The first five results are highlighted with an orange box and numbered 1 to 5. An orange arrow points from the first result, US20190149294A1, to the detailed view of US11139872B2 on the right. The detailed view shows the patent title 'Codebook subset restriction signaling', its status as 'Active', and various tabs for viewing the patent: Full Text, Simple Family, Extended Family, Citations, History, SEP Declarations, Litigation, and Original Document. The 'SEP Declarations' tab is currently selected, showing a table of ETSI declarations. The 'Litigation' tab is also visible, showing a table of US litigations. The 'Original Document' tab is also visible, showing the full text of the patent.

US11139872B2

Active

Quality : AAA Value : A Risk Rel...

Codebook subset restriction signaling

Full Text Simple Family Extended Family Citations History SEP Declarations Litigation Original Document

ETSI SEP Declarations: 3 (Essentiality is evaluated based on all TS included in the declaration.)

ISLD-201711-016 (2017-12-08)	Low Essentiality	TELEFONAKTIEBOLAGET LM ERICSSON PUBL
ISLD-201712-013 (2017-12-15)	Low Essentiality	TELEFONAKTIEBOLAGET LM ERICSSON PUBL

Full Text Simple Family Extended Family Citations History SEP Declarations Litigation Original Document

US Litigations : 3

337-TA-3595 (Filing: 0-) | ITC Court

Petitioner

Apple Inc. - Cupertino , CA , United States of America,
Ericsson Inc. - Plano , TX , United States of America,
Telefonaktiebolaget LM Ericsson - Stockholm , Sweden

Respondent

Apple Inc. - Cupertino , CA , United States of America

Judge

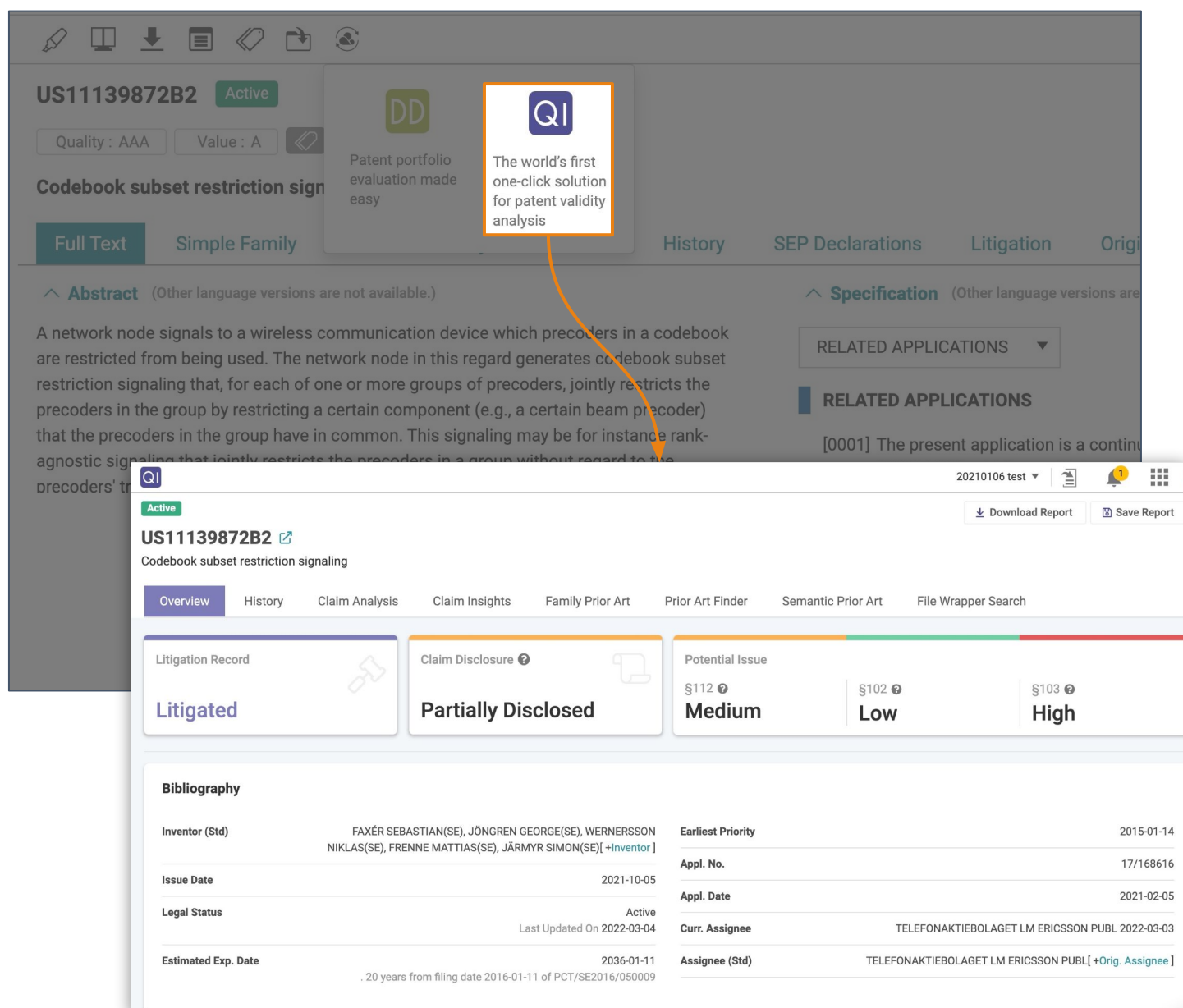
Patents-in-Suit: 4

#	Patent No.	Title	Legal Status	Appl. Date	Appl. No.	Family ID
1	US8102805B2	HARQ in spatial multiplexing MIMO system	Active	2007-10-26	12/447522	39344554

洞察专利有效性

[Quality Insights](#) 可一键式洞察专利质量、项目审查纪录和多方复审 (IPR) 细节, 请求项范围和潜在前案来进行有效性分析洞察专利质量。

只要从专利列表页上方选择传送至 Quality Insights 即可开启专利 Quality Insights 报告。



US11139872B2 Active

Quality : AAA Value : A

Codebook subset restriction signaling

Full Text Simple Family History SEP Declarations Litigation Origin

Abstract (Other language versions are not available.)

A network node signals to a wireless communication device which precoders in a codebook are restricted from being used. The network node in this regard generates codebook subset restriction signaling that, for each of one or more groups of precoders, jointly restricts the precoders in the group by restricting a certain component (e.g., a certain beam precoder) that the precoders in the group have in common. This signaling may be for instance rank-agnostic signaling that jointly restricts the precoders in a group without regard to the precoders' tr

Specification (Other language versions are not available.)

RELATED APPLICATIONS

RELATED APPLICATIONS

[0001] The present application is a continu

Quality Insights Report for US11139872B2

Overview History Claim Analysis Claim Insights Family Prior Art Prior Art Finder Semantic Prior Art File Wrapper Search

Litigation Record

Litigated

Claim Disclosure

Partially Disclosed

Potential Issue

§112 **Medium** §102 **Low** §103 **High**

Bibliography

Inventor (Std)	FAXÉR SEBASTIAN(SE), JÖNGREN GEORGE(SE), WERNERSSON NIKLAS(SE), FRENNE MATTIAS(SE), JÄRMYR SIMON(SE) [+Inventor]	Earliest Priority	2015-01-14
Issue Date	2021-10-05	Appl. No.	17/168616
Legal Status	Active Last Updated On 2022-03-04	Appl. Date	2021-02-05
Estimated Exp. Date	2036-01-11 . 20 years from filing date 2016-01-11 of PCT/SE2016/050009	Curr. Assignee	TELEFONAKTIEBOLAGET LM ERICSSON PUBL 2022-03-03
		Assignee (Std)	TELEFONAKTIEBOLAGET LM ERICSSON PUBL [+Orig. Assignee]

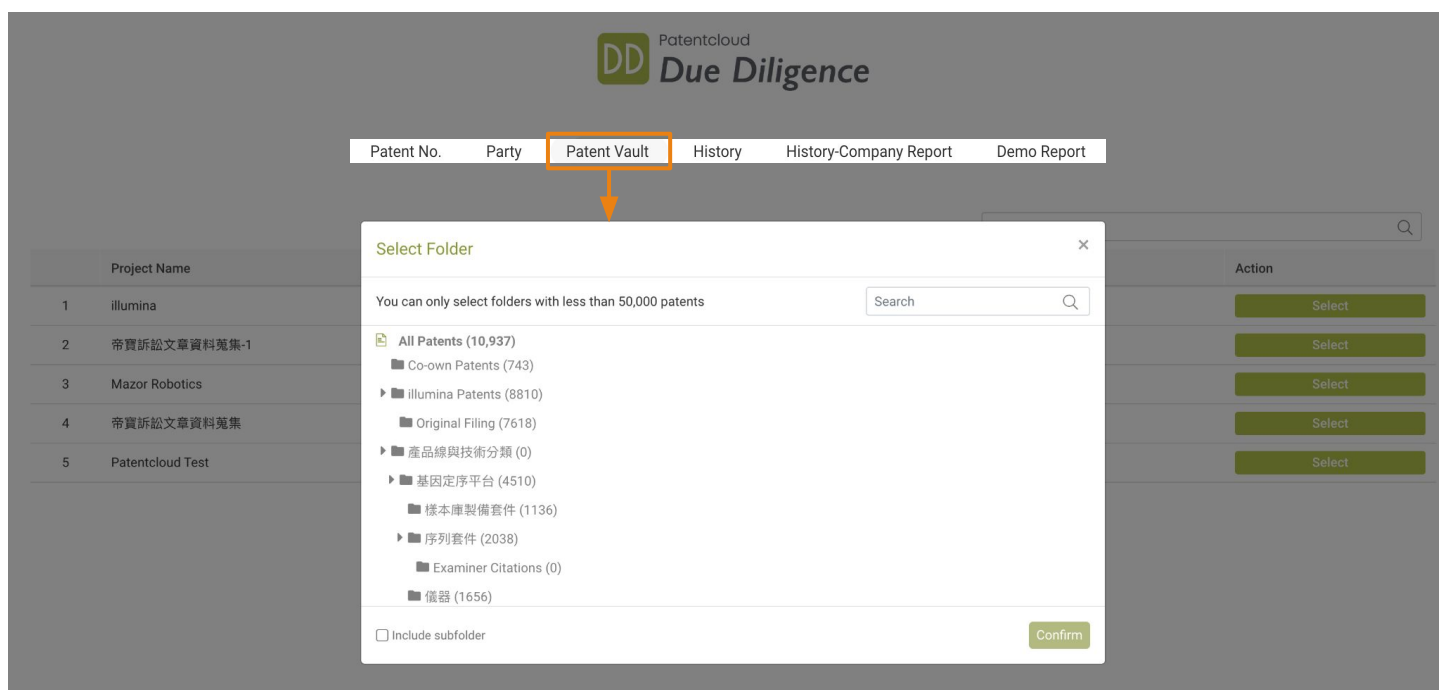
Due Diligence – SEP 专利组合分析



一键式获取专利评估报告

在将专利列表从 *SEP OmniLytics* 导入到 *Patent Vault* 后，您即可到 [Due Diligence](#) 进行专利组合分析。

只需在 [Due Diligence](#) 首页选择“Patent Vault”页签并选择需要分析的专利组合所在的项目文件夹。

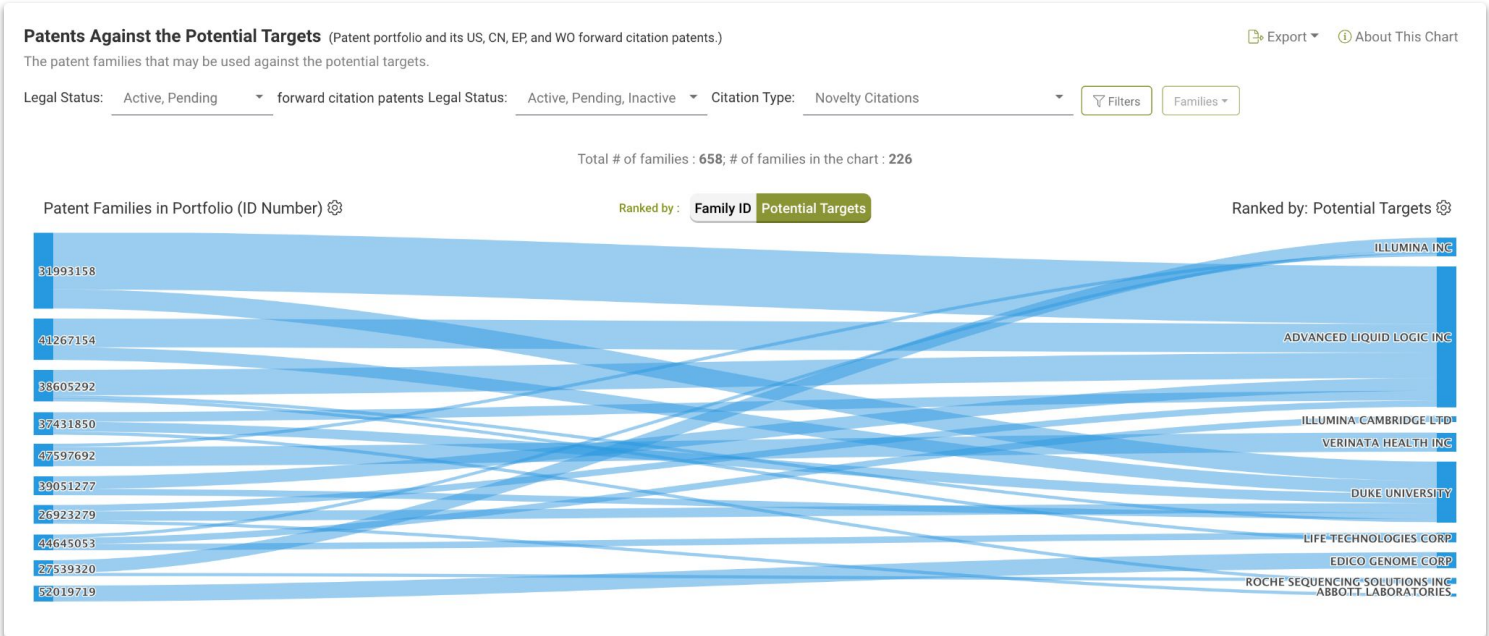
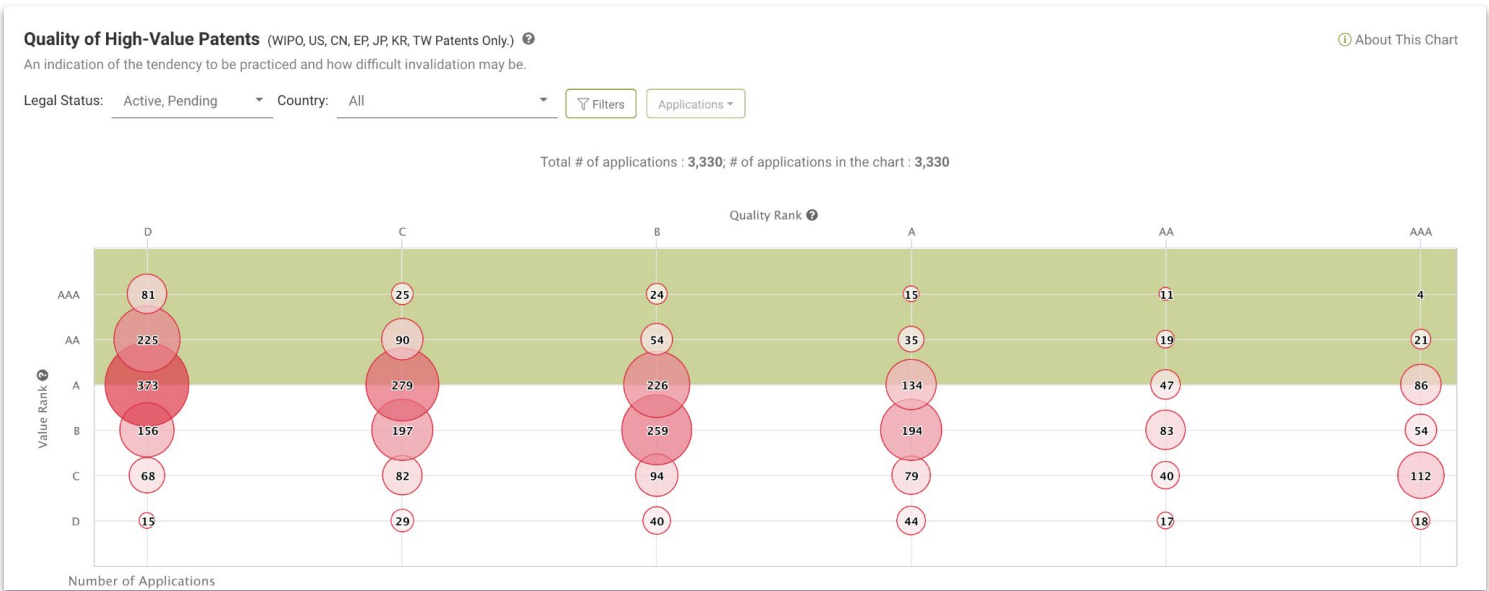


Due Diligence – SEP专利组合分析



使用 Due Diligence, 洞悉您的专利组合：

- 全球布局、法律状态、专利所有权状态
- 交易与诉讼历史
- 技术领域分布
- 质量价值评估
- 潜在货币化与诉讼对象



任何需要专利尽职调查的任务Due Diligence皆能有效处理 ！



Declaration Overview
ETSI标准专利总览



Company Profile
公司档案



Essentiality
Rankings
必要性分析



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