

Commercial API Strategies

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Background

- 1995-:** IP-related, web-based APIs were developed as early as 1995 when MicroPatent released a product that allowed clients to embed patent document requests into internal workflow.
- 2000-:** Commercial APIs tend to be driven by customer requests to automate or streamline specific kinds of functionality or data access that isn't provided by product UI/UX
- 2010-:** API to provide access to product or data platforms – e.g. IFI's CLAIMS Direct
- 2020:** WIPO Standard for web-based API

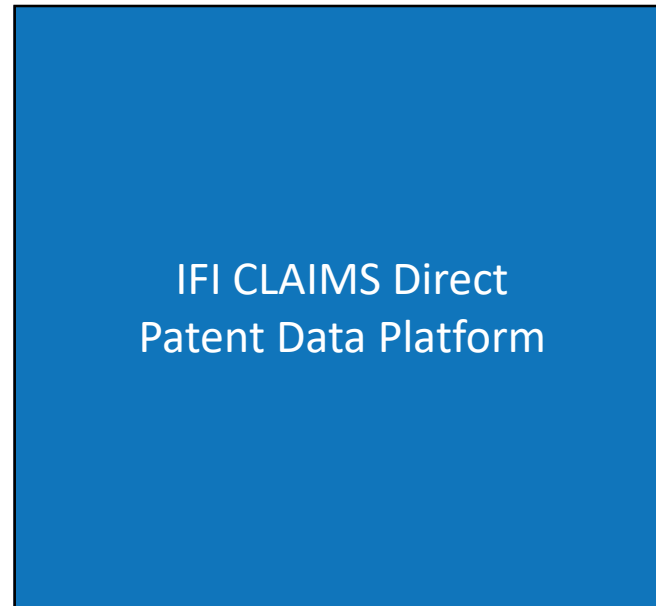
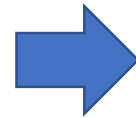
- **Curated, high quality collection of 124 million patent publications constructed from more than 100 data sources and more than 100 countries.**

- Over 40 countries with fulltext

- Google Neural Machine translations

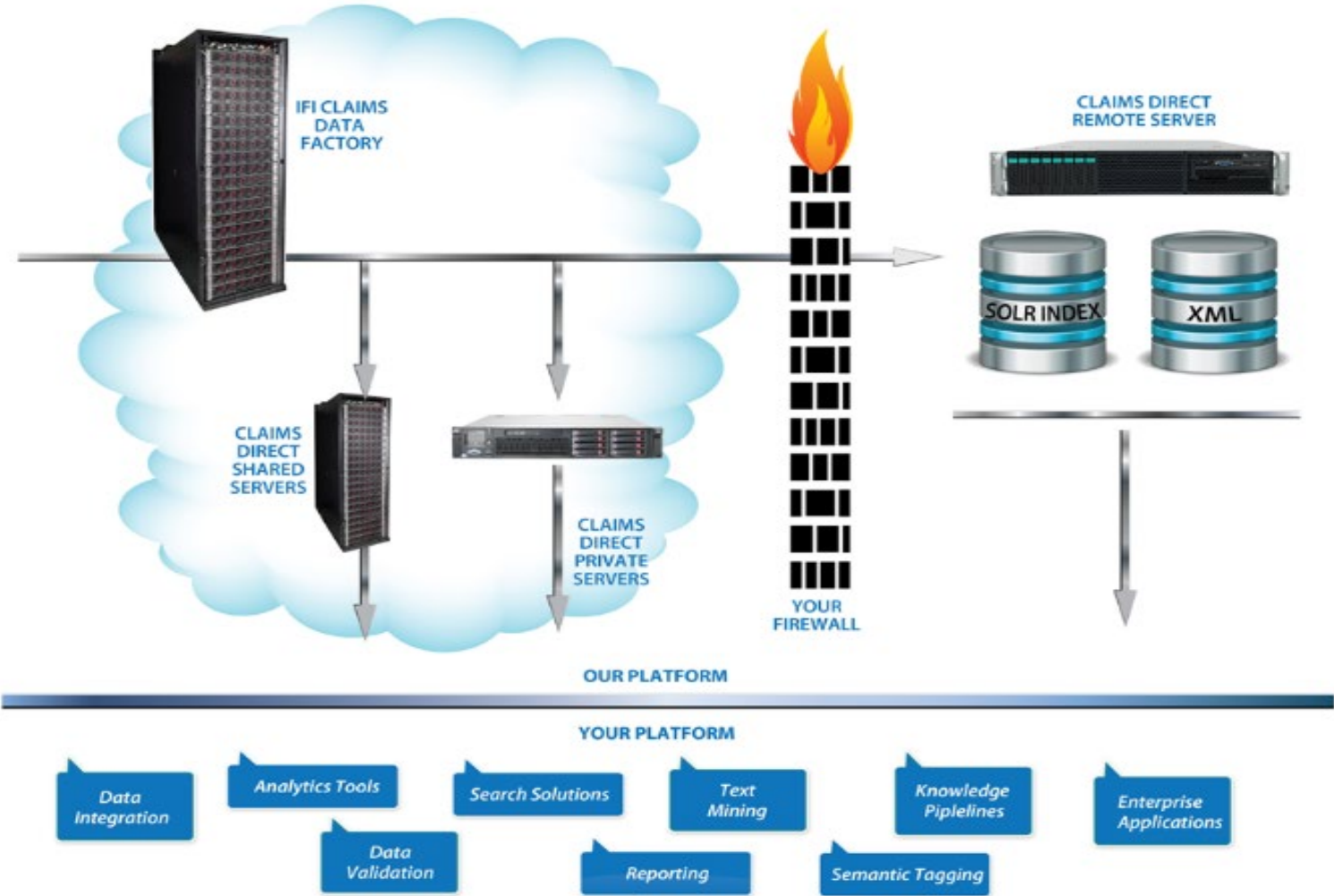
- Integration of 3rd party data

- Reliable global data distribution



- Platform API provides flexible and robust integration
- One well-defined data format
- Reliable access to the most current version of all patent publications
- Extensive documentation allowing transparency into the CLAIMS Direct platform

CLAIMS[®] Direct Platform



A world map in shades of blue and teal, serving as a background for the text.

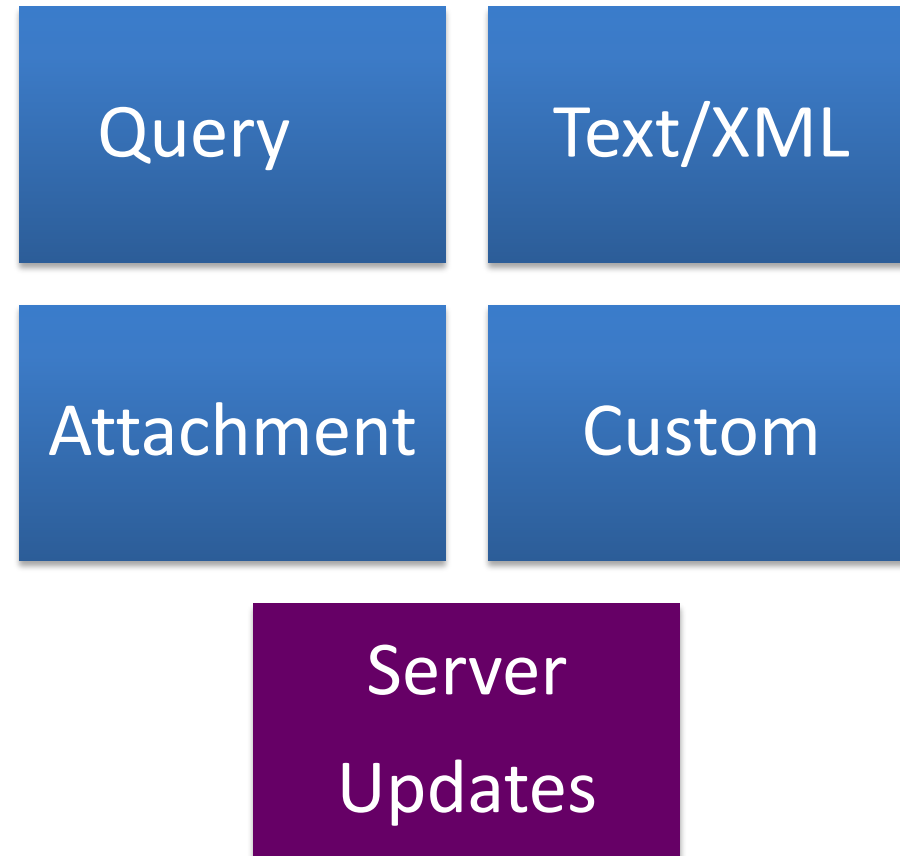
140 terabytes of data under management

Over 100 public and private collections

Millions of API requests every day



Distributed Architecture supporting
Public and Private Servers in 10 countries



CLAIMS® Direct Web Services

Query

Text/XML

Attachment

Citation

Family

Application
Centric

Reporting

Custom

Server
Updates

CLAIMS® Direct QA Console

Convenient method for extracting data to Excel or Access for Analysis

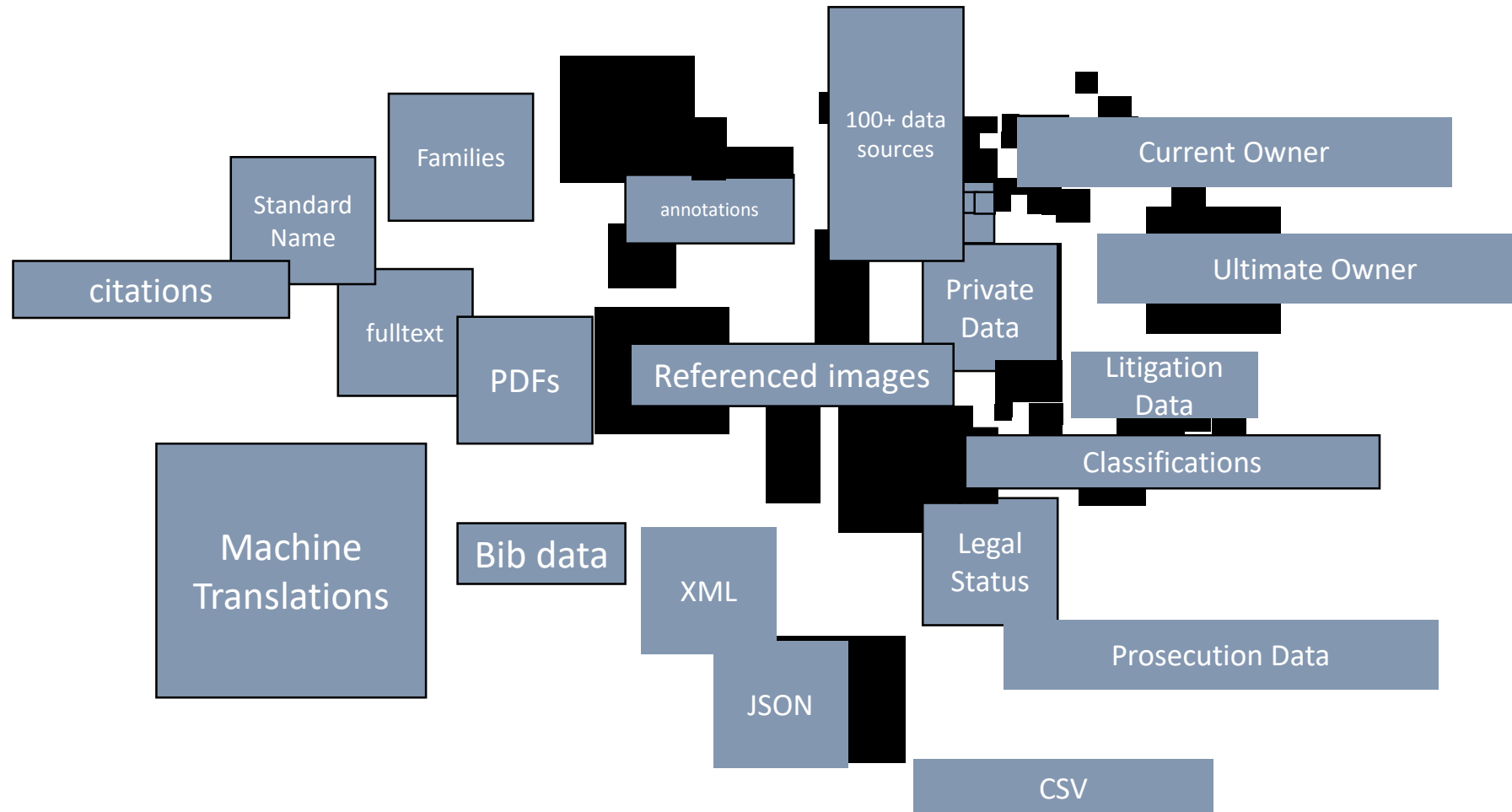
	Document Ucid	PubDate	Priority Number	CPC	Forward Citations	IFI Patent Expiration	IFI Patent Status	IFI Assignee Original	IFI Assignee Current
46	US-20100308413-A1	12/9/2010	US-47809809-A	H01L 27/092	US-20110204428-A1 US-201102	No Data	Granted	International Business Machines Corp	GlobalFoundries Inc
47	US-20100310775-A1	12/9/2010	US-71356010-A	H01L 31/076	CN-102832115-A CN-102856232	No Data	Pending	International Business Machines Corp	GlobalFoundries Inc
48	US-20100308440-A1	12/9/2010	US-48028609-A	H01L 29/66795	US-20110193175-A1 US-201301	No Data	Pending	GlobalFoundries Inc	GlobalFoundries Inc
49	US-20100307591-A1	12/9/2010	US-71357210-A	H01L 31/1892	CN-103582934-A GB-2503851-A	No Data	Granted	International Business Machines Corp	GlobalFoundries Inc
50	US-20100308405-A1	12/9/2010	US-48025409-A	H01L 29/7835	US-20110215299-A1 US-201201	No Data	Abandoned	International Business Machines Corp	GlobalFoundries Inc
51	US-20100309740-A1	12/9/2010	US-13523708-A	G11C 7/12	G1 US-8693237-B2 US-9558812-B2	No Data	Granted	International Business Machines Corp	GlobalFoundries Inc
52	US-20100311242-A1	12/9/2010	US-48023209-A	H01L 21/0273	US-8627244-B2 US-8932961-B2	No Data	Granted	GlobalFoundries Inc	GlobalFoundries Inc
53	US-20100311236-A1	12/9/2010	US-47738909-A	H01L 21/2855	No Data	No Data	Granted	International Business Machines Corp	GlobalFoundries Inc
54	US-20100308374-A1	12/9/2010	US-85754310-A	H01L 21/26506	CN-103311124-A US-201400842	No Data	Granted	GlobalFoundries Inc	GlobalFoundries Inc Glo
55	US-20100311895-A1	12/9/2010	US-19064405-A	H01L 21/76807	No Data	No Data	Granted	International Business Machines Corp	GlobalFoundries Inc
56	US-7848135-B2	12/7/2010	US-23410008-A	Y10T 29/42	HJP-2014504450-A US-201000502	20280919	Active	International Business Machines Corp	GlobalFoundries Inc
57	US-7847358-B2	12/7/2010	US-46264806-A	H01L 21/82380	US-20160247004-A1	20231016	Active	International Business Machines Corp	GlobalFoundries Inc
58	US-7847356-B2	12/7/2010	US-54285509-A	H01L 21/82387	No Data	20271030	Active	International Business Machines Corp	GlobalFoundries Inc
59	US-7849362-B2	12/7/2010	US-27509205-A	G06F 11/261	US-20090106588-A1 US-201102	20251209	Active	International Business Machines Corp	GlobalFoundries Inc
60	US-7849516-B2	12/7/2010	US-18775908-A	B82Y 10/00	G US-20100257644-A1 US-864611	20260113	Active	International Business Machines Corp	GlobalFoundries Inc
61	US-7847402-B2	12/7/2010	US-67652207-A	H01L 21/76834	US-9343403-B2	20270220	Active	Samsung Electronics Co Ltd Chartered Ser	Samsung Electronics Co
62	US-7847222-B2	12/7/2010	US-38787306-A	H01L 45/122	US-20090303797-A1 US-201000	20260324	Active	International Business Machines Corp	GlobalFoundries Inc

Where API Client Conversations Begin

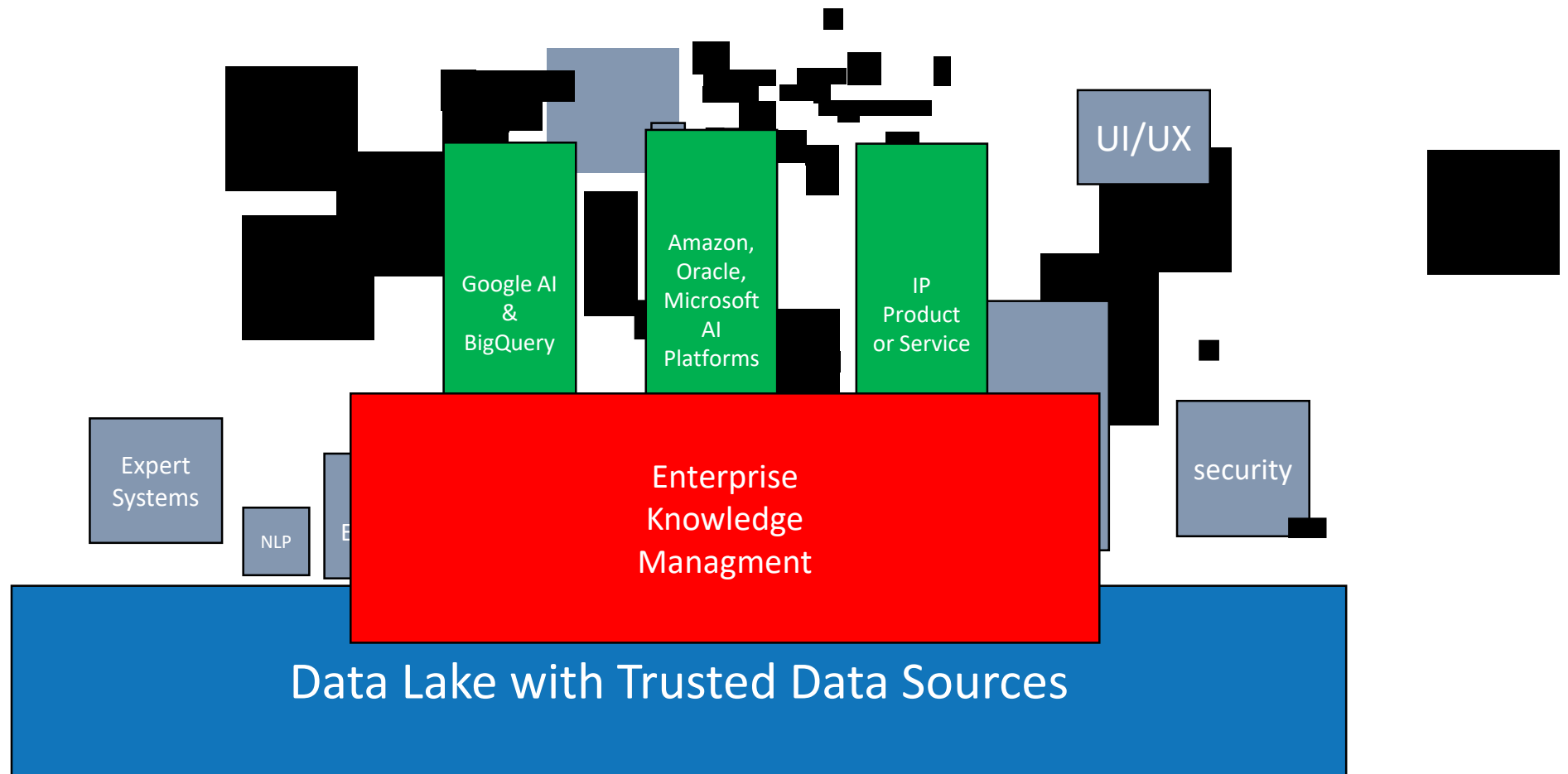


I need Patent Data

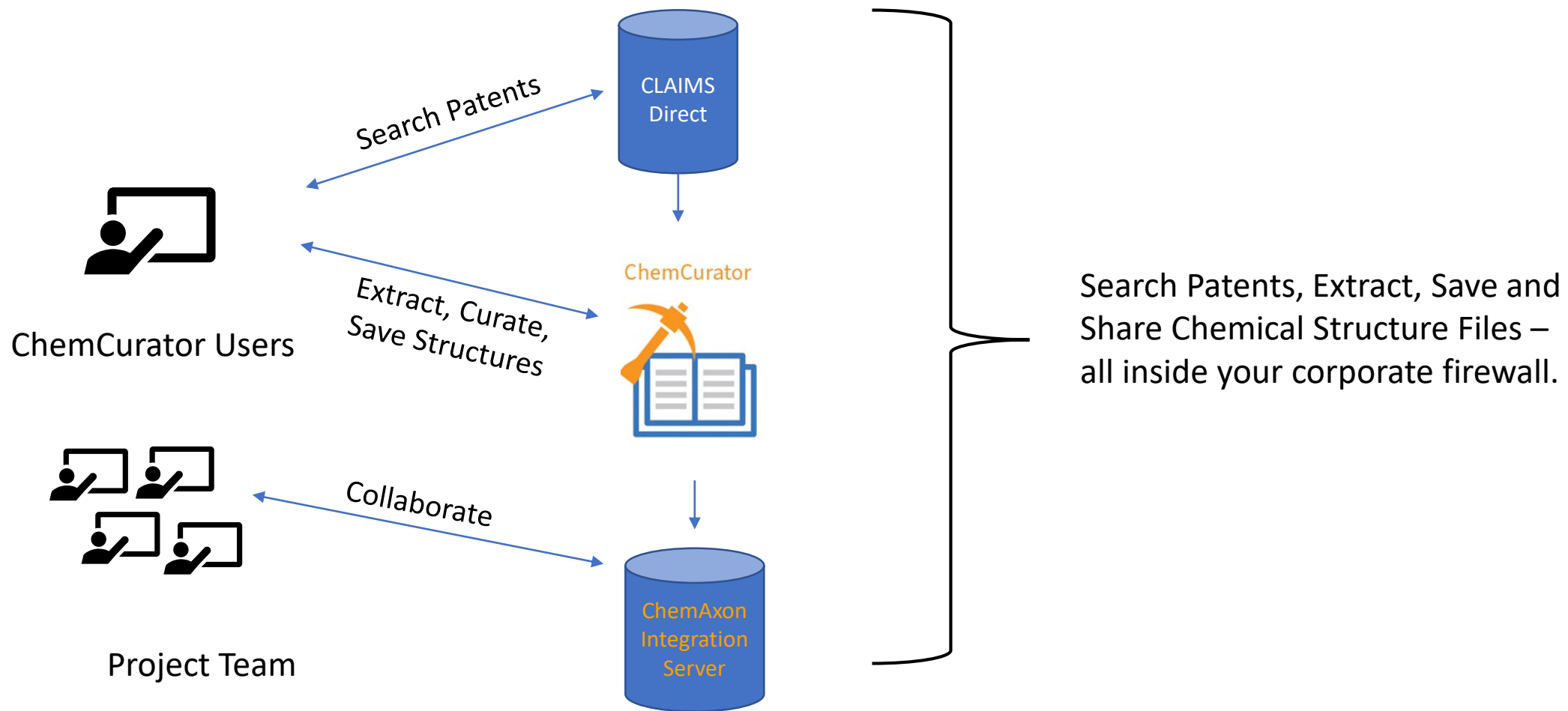
What do you mean by “Patent Data”



How Are You Going to Use Patent Data?



Putting it all together – ChemAxon & IFI CLAIMS



Market Relationships



Closing Thoughts

Conforming to the WIPO API standard would require change, but we expect these changes to be straight-forward.

Expect the unexpected e.g.:

- 700mb XML source records from patent offices
- Demand for thousands of requests per minute and other examples of extreme demand for resources
- Demand for everything at once: fire hoses not garden hoses

Document-centric APIs are not a replacement for bulk data delivery

Closing Thoughts

Always remain open to new use cases and encourage innovation

Thank You

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