VITEK
INTELLECTUAL PROPERTY

Smart Mobile Communications

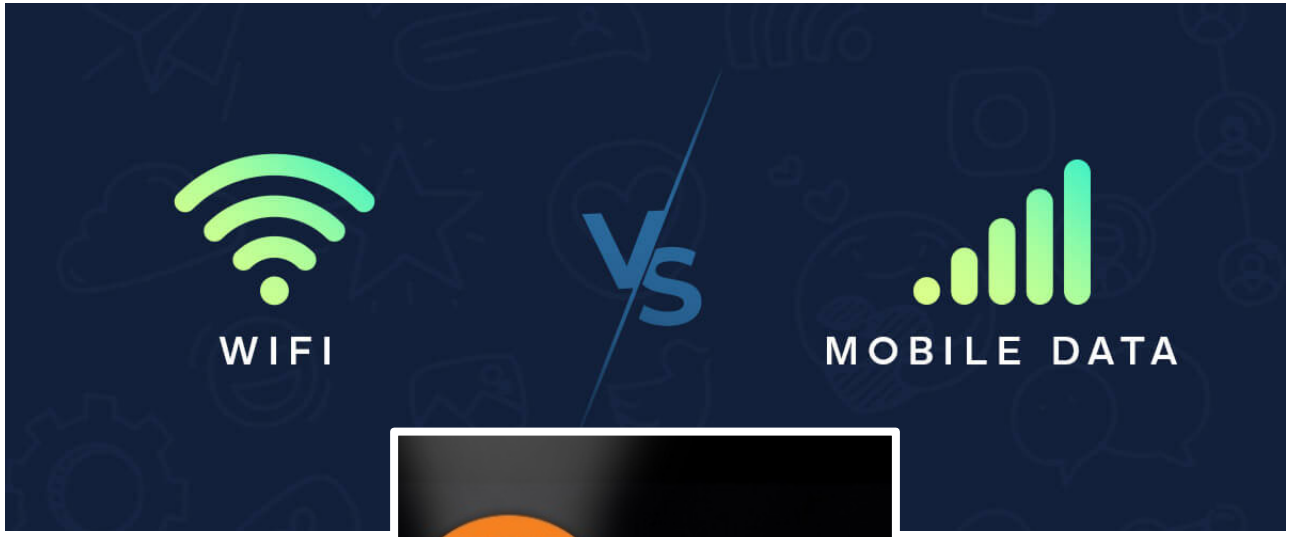
Patent Portfolio Offering

More information available upon request and under NDA, contact Alex Avstreykh at aavstreykh@vitek-ip.com.

VITEK

Traditional IP expertise.
Cutting-edge software.
Tangible market value.

Opportunity: To acquire 42 US patents



"All the best streaming services offer some way to download content for offline viewing."

Owned by Relay, a WiFi calling company operating since 2010

Patented mobile technology includes:

- Predictively downloading data using WiFi for later use
- Using both WiFi and cellular paths to improve call quality

Applicable markets:

- Streaming services
- Mobile phones
- Call centers
- Smart home and office

42 Patents	16 Families
Smart Mobile Communications	
No Encumbrances	11 Yr Avg Remaining Life

Source: https://www.wired.com/story/how-to-download-videos-to-watch-offline/

Traditional IP expertise.
Cutting-edge software.
Tangible market value.

Portfolio: 42 US patents in 16 families

Family	US Patent	Title
1	8948042	Predictive Caching of IP Data
	8825881	Predictive Caching of IP Data
2	8730920	Inter-Network Communication Session Handoff
	9031562	Intelligent handoffs for enhancing or avoiding dropped and interrupted communication sessions
	8750250	Personalized User Session Information

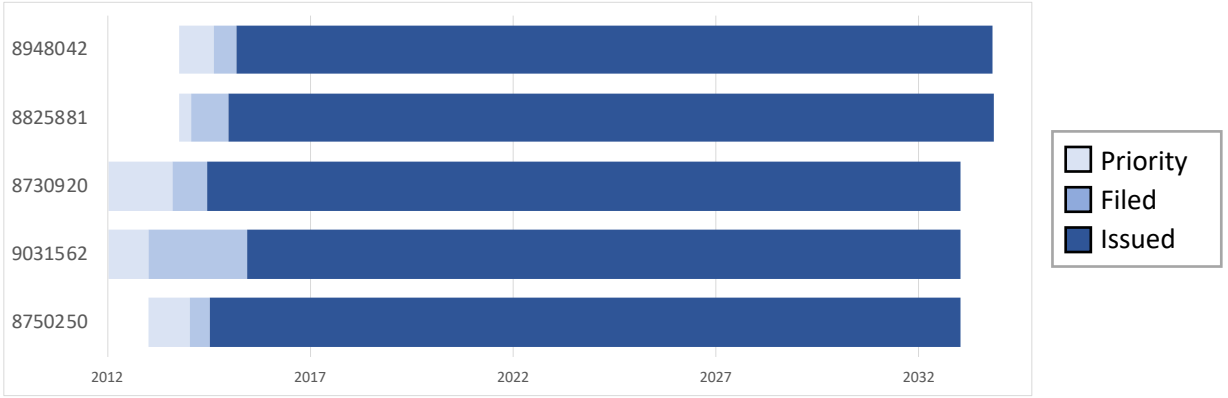
US 8,948,042
Predictive Downloads [✓]

'**042** claim 6 describes a method based on usage patterns to select, download, and store data to a mobile device for later use. WiFi is used.

US 8,730,920
WiFi Handoff [✓]

'920 claim 1 describes a method for handing-off an on-going call from WiFi to cellular based on signal quality measures.

✓ Claim charts available



42 active patents in 16 families

Two key patent families

42 Patents | 16 Families

Smart Mobile Communications

No Encumbrances | 11 Yr Avg Remaining Life

VITEK

Traditional IP expertise.
Cutting-edge software.
Tangible market value.

Portfolio: 42 US patents in 16 families

Family	# of US Patents	Family Overview
1	2	Predictively storing content on a mobile for later use
2	3	Hand-off between WiFi and cellular for mobile calls
3	2	Re-establishing a VoIP call as part of a hold-callback feature
4	5	Routing a call to a mobile based on location of multiple mobiles
5	1	A hybrid mobile device with two RF transmitters
6	11	User feedback is given via a GUI to improve WIFi to cellular handoff
7	3	Using voice-activated commands on a mobile while on a call
8	4	Routing an outbound mobile call to a smart speaker
9	1	Use location to determine if someone should be invited to a call
10	2	Anti-spoofing for mobile calls similar to the FCC STIR/SHAKEN initiative
11	1	An annoyance value is given via a GUI to improve WIFi to cellular handoff
12	1	An annoyance value is given via a GUI to improve WIFi to cellular handoff
13	1	Anti-robocalling techniques
14	2	Using a VoIP phone number to call a hybrid mobile device
15	2	Identifying a mobile using an RF fingerprint
16	1	Processing transactions on a server based on thermal load

Complete patent listing and additional family analysis available in the accompanying data sheet.

42 active patents in 16 families

Two key patent families

42 Patents | 16 Families

Smart Mobile Communications

No Encumbrances | 11 Yr Avg Remaining Life

VITEK
INTELLECTUAL PROPERTY

Key Patent

US 8,948,042

VITEK

Traditional IP expertise.
Cutting-edge software.
Tangible market value.

Key Patent: US 8,948,042

Estimated Expiry: 12 Sep 2013

US8948042 predicts which data to store on a mobile device based on usage patterns, pre-emptively downloading it using WiFi for later use.

Predictive Downloads	
Company 1	✓
Company 2	✓
Company 3	✓
Company 4	✓
Company 5	➤
Company 6	➤

Claim 6. At least one non-transitory machine-readable medium comprising a set of instructions that in response to being executed on a mobile computing device cause the mobile computing device to:

- collect Internet Protocol (IP) data consumption information associated with the mobile device;
- predict, based on the collected IP data consumption information, IP data the mobile device is expected to consume at a future time;
- automatically bypass any cellular network connection and downloading the predicted IP data to the mobile device using the at least one other RF transceiver over the non-cellular IP network access point;
- store the downloaded predicted IP data in the data storage component such that the stored IP data is not transported over a cellular network; and
- in response to a request for the predicted IP data and when no non-cellular IP network access point connection is available to the mobile device: bypass an available cellular network connection; and access the stored predicted IP data from cache memory using an application on the mobile device associated with the stored predicted IP data.

✓	Claim charts available
➤	Uncharted EOU

CONFIDENTIAL CLAIM CHARTS AVAILABLE UPON REQUEST

42 Patents	16 Families
Smart Mobile Communications	
No Encumbrances	11 Yr Avg Remaining Life

VITEK
INTELLECTUAL PROPERTY

Key Patent

US 8,730,920

VITEK

Traditional IP expertise.
Cutting-edge software.
Tangible market value.

Key Patent: US 8,730,920

Estimated Expiry: 19 Dec 2011

US8730920 describes techniques for handing an on-going call from WiFi to cellular without losing quality.

WiFi Handoff	
Company 1	✓
Company 2	✓
Company 3	➤
Company 4	➤
Company 5	➤
Company 6	➤
Company 7	➤

✓	Claim charts available
➤	Uncharted EOU

Claim 1. A method comprising:

- hosting a communication session between a first communication device and a second communication device in an Internet Protocol (IP) based packet data network in which a contact server functions as a bridge service connecting a first communication link between the first communication device and the contact server with a second communication link between the second communication device and the contact server, wherein the first communication link is initially a voice-over IP (VoIP) communication link over a wireless data network;
- analyzing multiple call quality characteristics of the VoIP communication link including at least two of signal strength, packet loss, network latency, jitter, and delay; and
- causing the first communication device to establish a cellular communication link on a cellular network between the first communication device and the contact server and handoff the VoIP communication link from the wireless data network to the cellular communication link on the cellular network when at least one analyzed call quality characteristic or a combination of call quality characteristics of the VoIP communication link reaches a threshold level,
- wherein the handoff includes transmitting a handoff instruction from the contact server to the communication device having the VoIP communication link.

CONFIDENTIAL CLAIM CHARTS AVAILABLE UPON REQUEST

42 Patents	16 Families
Smart Mobile Communications	
No Encumbrances	11 Yr Avg Remaining Life

VITEK

Traditional IP expertise.
Cutting-edge software.
Tangible market value.

Wrap Up: Transaction Details

Seller prefers an all-cash transaction.

- Willing to consider alternative offers.
- Prefers to divest the entire portfolio.

Seller aims to close on transaction in Q1 2023.

42 Patents	16 Families
Smart Mobile Communications	
No Encumbrances	11 Yr Avg Remaining Life