

UP TO SPEED LIVE
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[Music].

>> What is 5G?

For most people 5G means faster.

You might have heard the example about how fast you can download a movie.

But there's more to it than that.

5G stands for fifth generation.

The next evolution of wireless technology.

And it represents a massive step forward that will revolutionize entire industries but not all 5G is the same in fact most of what's advertised as 5G is only slightly faster than current 4G offerings but with 5G Ultra Wideband we built something completely different we run on radio frequencies just like 4G but on a higher frequency known as millimeter-wave and at a much larger bandwidth it's the fastest 5G anywhere in the world with more speed capacity and lower latency than traditional 4G all of that translates into experiences even closer to real-time which means it can do things like bring augmented virtual and extended virtual to life for consumers increase speed for all types of industries like healthcare and smart manufacturing and support massive IOT deployments that will change how we live, work and play.

And just like you've heard a lot about 5G, you may also have heard about something called Edge Computing.

Multi-access Edge Computing or MEC for short takes the burden of computing power and related infrastructure off the consumers device and out of the businesses office and puts it all in the cloud but instead of that cloud server being hundreds of even thousands of miles away MEC brings the computing power as close to the end user as possible or as one might say right to the edge of the network.

The end result is that consumers and businesses get access to cutting edge processing power without constantly having to upgrade systems, download applications or invest in expensive equipment and the close proximity at which the Edge Computing is being performed means the data has a shorter round-trip which makes for near instantaneous responses.

There are other benefits, too.

By offloading the processing burden from the end device you open the door to a number

of exciting possibilities on that front like new form factors, better battery life and even lower cost options.

When you put all of that computing power at the edge of the network the network you're using matters more than ever to get the most out of MEC you need 5G for it's massive increases in speed and number of supported devices and dramatically reduced latency. Think of it this way, if MEC is the rocket, then our 5G Ultra Wideband is the rocket fuel. Our 5G Ultra Wideband network provides the perfect platform to harness the full potential of Edge Computing.

We partnered with Amazon Web Services to bring our 5G edge mobile platform available everywhere across through all of our partnerships and 5G Labs and through innovation programs we're enabling the next generation of innovators to push the limits of 5G and Edge Computing.

Here are just some of the use cases that are currently in develop.

Augmented commerce.

Real-time quality control.

AI-assisted healthcare.

Public safety.

Drone automation and inspection.

Online and mobile gaming.

And autonomous vehicles.

And that's just a start.

Every day the demand for real-time enterprise keeps growing.

And 5G Ultra Wideband and Edge Computing will be there to meet it.

>> I am Mike Moore co-founder and CEO of Ice Mobility.

Ice provides supply chain services to Verizon and all of Verizon's retail partners the goal is to make sure that the customers have the right product on their shelves to sell it one of the ways to achieve this is by making sure we double-check every single shipment so it has the right product in the box.

This can add a lot of time and cost.

One thing that's really exciting is we're working with Verizon and Microsoft using 5G and Edge Computing to automate and improve our quality control process through computer vision.

We were able to do this by installing a high definition camera for every one of our pick lines these cameras are powered by the 5G MEC network.

What you're seeing in the video is automation for what people were doing before so matching the data for that particular order to what the high definition camera is looking at inside the box to validate that it's the right material.

And then flagging it if it's not the great thing about the MEC it literally knows the entire journey of the box it knows the product it knows the customer it knows what the worker

is putting in the box it literally eliminates a quality control step but even more importantly it increases accuracy because now you have an automated process doing it.

Without frankly the 5G MEC we couldn't do this on an automated basis.

I have had a 37 year relationship with Verizon it's the first place I went and then when I heard that they were partnering with Microsoft, it kind of sealed the deal for me we have always been a Microsoft house for everything we do in our business and it became a natural selection at that point.

The next step really is the transformational step really learning the full power of the 5G MEC network to be doing things completely different.

Using our high definition cameras for many different things such as security, social distancing and contact tracing.

Frankly we're just getting started.

There's a long list of opportunities created by the technology.

[Music].

>> The NFL is back.

And you could be watching free live football on your phone with your friends.

Just download the app.

Allow your location.

And get live local and primetime games.

So watch together.

Start a room.

Pick a game.

Invite your friends and catch the action together.

Because on the Yahoo Sports app you get free live football with friends.

[Music].

>> I'm a Verizon engineer.

And I'm part of the team building Verizon's 5G network.

Today is a really big day for us.

Because today we're turning on 5G across the country.

And this is the 5G America has been waiting for with the coverage of 5G nationwide and in more and more cities the unprecedented performance of Ultra Wideband, the fastest 5G in the world.

It's 25 times faster than today's 4G network.

25 times.

Yeah, it's pretty incredible.

I'm excited about how it will change your phone.

And how it will change the way businesses do everything.
I'm proud because we didn't build it the easy way, we built it right.
This is the 5G America has been waiting for.
Only from Verizon.

>> This year teachers are learning new ways to teach.
Parents are learning to lesson plan.
And young minds are learning a new normal.
This year we are all students.
At Verizon we're enabling the education that students deserve.
With credential teacher training, free lesson plans for parents and tech enabled students for schools nationwide.
It's Citizen Verizon in action our plan for economic, environmental and social advancement.

>> Hi, my name is Damion Ross I'm one of the founders and President of TD Sports.
And our basketball product is called ShotTracker.
ShotTracker is a sensor based technology that tracks statistics and analytics providing real-time data to coaches, broadcast partners, fans and players all with subsecond latency.
Basketball is constant activity up and down.
Latency is so, so, so critical.
One thing that we're doing that's really exciting is demoing our ShotTracker technology over Verizon 5G and AWS wavelength.
This allows us to see the delta between the traditional process, which is 4G, and then accelerated amplified process that utilizes both 5G and MEC.
You can distinctly see the difference in the speed of ball movement.
When I think about what 5G and Edge Computing can do, I think about coaches.
I think about them getting access to this video and data anywhere in the facility.
It may be in the locker room at half time.
Or sitting on the bench during the game.
All delivered in real-time.
When you think about being able to take this data and incorporate it into the broadcast, latency is even more important.
We're really excited about what 5G and MEC will provide to the market.
We've been waiting on this for so long.
And the time is now.
It's finally here.
And it will revolutionize the fan experience, the viewing experience, and how we

consume data and sports for the rest of our lives.

[Music].

>> I didn't know that I was going to be the opening speaker at the March on Washington DC.

I don't think anybody knew what we were walking into other than the feeling that it was necessary and we had to be there.

>> I see this as a moment of taking feminism back.
Making feminism a project that all of us can share.

>> Black lives what.

>> Black Lives Matter.

>> Black lives what.

>> When I put the hashtag in front of Black Lives Matter I was like we're going to make this thing go viral.

>> I still remember the exact moment when we hit the publish button.

>> We kind of watched with wonder as the story started to take off like wildfire.

>> Everybody was like oh good look now we have a movement and I'm like no Me Too is a tiny part of a large movement that's been happening for decades.

>> I got a call saying a bunch of us are going to gather do you want to come over and join us I said yes because I was mad.

>> This is before we even had the name Time's Up someone slammed their hand on the table and said time is up on all of this behavior and it was like oh that's our name.

>> There's a Renaissance that's happening inside of Hollywood.

>> I remember calling my attorney and saying, like, if I say this, are we sure that it's true.

>> On behalf of women everywhere I will brag I am the highest paid showrunner in television.

[Cheers and applause].

>> The United States Congress certainly was not built for young women. But it's really young women of color who have pushed forward for so many changes. And that has just turned the power dynamics here on Capitol Hill on its head.

>> The world and this country is changing it's been changed and I think that we have an opportunity this time to do it right.

>> There are some people who think that we are post civil rights. We are post feminism.

And therefore, we're post intersectional.
I can't see how we're post anything.
And I can't see how we can possibly think we're done.

>> You never want to see a change on your account you didn't make.
My name is Sariana and I work at Verizon with double-check we ask you to approve requested changes on your account before they happen not after that way if something happens, if you ship out something to a different address or if you change your user ID or you added someone on the account, we're going to make sure that it's you that's doing it.
No one else.
Introducing double-check.
Your extra layer of security so you never have to worry.

[Music].

>> Hi, I'm Chris Rock.
Oh, it's not about me.
I get it.
No, no, zoom in on it.
The new iPhone 12 Pro with 5G meets 5G Verizon Ultra Wideband want me to turn it around pow this is a game changer.
5G just got real man.
Remember when the song in the summer took the whole summer to download.
One time I waited 51 minutes for Janelle Monae's dirty computer to download that's longer than the whole album but these G's don't blink.
iPhone and Verizon ain't playing around.
Remember when you tried to wash bigger and blacker and by the time it downloaded I was older and thinner, now, done.
Remember when you could only watch the NFL on TV remember when you didn't have five different camera angles and replays.
Football just got 5G real.
Remember when the only way multiplayer gaming worked was WiFi.
Boom legendary fast with Verizon 5G remember when you found out eSports was a real thing and kids half your age were making twice your salary.
>> Yeah.
>> Remember when I tell you to clean your room.
>> Nope.
>> You remember when your allowance is do.
You never forget that.

[Music].

>> iPhone on Verizon 5G.

This is going to change everything.

5G just got real.

Pow.

5G Ultra Wideband.

Now in more and more cities.

[Music].

>> ANDY CHOI: Happy Friday, friends, thank you for joining us on Up to Speed Live hey this episode is dedicated to all the things that have us smiling today.

TGIF of course a big reason.

But there's plenty of others, as well.

So take a moment to say hello on our chat on Twitter and Periscope tell us what has you feeling good and smiling today always great to share in the good feelings and good news looking forward to hearing from you on chat by now you know 5G just got real with the launch of iPhone 12 and today we're happy to announce preorders of the iPhone 12 mini and the iPhone Pro Max are starting today.

Let's take a look at the slide there.

There they are, both models of course support Verizon's 5G nationwide and 5G Ultra Wideband.

Again you can preorder today with availability on November 13th.

By the way, V Team, the iPhone 12 will be available for employee orders starting today so that's another reason to keep you smiling.

After a historic week, emotions running high, feelings of uncertainty around the nation we do want to take a moment to focus on the stories that unite our V Team of course and as we turn now to our MyWhy series we're going to get to know Mr. Phil Puthumana whose work continues to close the digital divide for kids across the country.

He's also a standup comedian on the side.

So I'm going to put my best emcee hat put your hands together, everybody, for Phil.

[Music].

>> PHIL PUTHUMANA: My name is Phil Puthumana.

I work out of the Basking Ridge, New Jersey office.

I'm a Program Manager in the corporate social responsibility department.

I try to figure out how we can actually make a difference for teachers and students using next generation technology to enhance their learning.

I actually like to spend a lot of time with my kids.

They are 3 and 6.

That actually takes up a lot of my spare time.

I feel like it's kind of Groundhog Day.

You wake up and it's, what day is it?

But you get through it big shoutout to teachers.

I have a lot more respect for your work.

Even more than I had before.

Actually I was in software development living in Silicon Valley when I got excited about education technology and from there I got hooked.

I was working in EdTech trying to figure out which companies were really making an impact Verizon came to the top of that list and I was very fortunate to find my way here.

When I really get to see what's going on in tech, the impact of our work and being able to work with young people and teachers to actually help them learn more that's what excites me.

I worked on the Innovative App Challenge to get kids excited about technology we even actually managed to get gets all the way to the White House and bringing 5G to schools and the applications we're able to put on the network, it makes me very proud to be able to create new programs and really make a difference.

5G is going to bring a lot of opportunities for all of us.

But also for the young people in our world.

It's going to kind of blow all of us away.

My hidden talent is standup comedy it started with my dad who has a great sense of humor, started making fun of him and then of course when COVID is over I'll be back up on stage and maybe all of you can join me.

I've been in a lot of companies and a lot of organizations.

I've found some of the smartest, hard working genuine people working here at Verizon.

That's what keeps me here every day.

It's not very often people look toward the future but if you're looking for a place that you can make an impact and use your creative talents to change the world, Verizon is definitely the place for you.

>> ANDY CHOI: I love it, Phil, thank you so much.

And thank you for helping bring that technology to children all across the nation and Phil and I were talking offline about Verizon jokes I was like hey, I could use a few fun one liners and Phil is going to help me with that for some future Up to Speeds but he's got some good topical Verizon jokes.

So hopefully that live set will be sooner rather than later some day Phil thank you so much from comedy to music now we have some exciting news about Verizon Up to share.

Maren Morris is getting up close and personal with her fans as she continues a five city virtual tour with an all female lineup just for Verizon Up members through the end of the year.

Here is a video about this very cool concert series.

>> MAREN MORRIS: I'm Maren Morris welcome to my virtual tour just for Verizon Up members.

[Music].

>> MAREN MORRIS: Five cities five shows and only Verizon Up members get access.

Hello.

Oh, my gosh.

>> Van in a from Atlanta.

>> Hi, Nancy.

>> Thank you for everything.

I love you.

[Music].

>> ANDY CHOI: Very cool, again that's five shows in three days with unique performances for each city, stops in Nashville, LA, New York, Dallas and Atlanta. Verizon Up members claimed nearly 10,000 tickets just for this concert series alone and as always be on the lookout for more great experiences from your friends at Verizon Up. Now, November is National Native American Heritage Month. And we invite our V Teamers to celebrate and learn about our country's rich Native American history we have an Employee Resource Group Native Americans of Verizon and they've put together some great ways for all of us to learn, enjoy and participate in various events so let's take a look at that video.

[Music].

>> ANDY CHOI: Lots of hearts on Twitter watching that video together our thanks to our NAV team, so many ways we can all learn about Native American Heritage thank you for NAV for continuing to enlighten us and a big thanks to the group's Executive Sponsor our chief strategy officer Rima Qureshi who shared with us our new NAV shirt let's take that slide now with Rima showing off the new shirt you'll find a link to order this shirt in the web copy under this episode's replay video a \$5 donation will be made to native services the Boy's & Girl's Club with each purchase and staying true to our

mission our vendor for these shirts NAV selected Color Graphics an Alaskan Native owned vendor Rima is also moderating a great event put together by NAV and our Verizon State Government affairs team let's take the next slide happening Tuesday November 17th at 4 p.m. Eastern "Protecting the Sacred: Balancing & Embracing Technology in Indian Country" Rima will be hosting an online discussion with key tribal thought leaders on important technological issues Native Communities are facing today from digital equity to the impact of COVID-19 the discussion again is set for Tuesday November 17th 4 p.m. Eastern we'll provide the link to register online below today's show replay as well ending on a high note some good we're a part of our Verizon Connect product teams turned their attention to making the world a better place in their recent hack-a-thon called the Love Hack where teams on three continents spent two days to help societies.

VGive made up of employees from Christchurch New Zealand and Atlanta, Georgia who harnessed Verizon Connect's maps routing jobs messaging and alerts technologies to promote sustainable and impactful charitable giving can't wait to see that if you have a good story to share you know the line, the email is good@Verizon.com.

Let's wrap up this Friday with a quick reminder about the Leadership Forum next Monday.

We'll be live with Hans and our leaders from the Leadership Forum that's Monday at Noon Eastern so don't forget to tune in next Monday on Up to Speed.

And finally, check out this customer shoutout from one of our technicians this is Terrance Oesterle. The customer said, Terrance was a credit to your company. I've never dealt with a nicer young man.

He was all business, had his mask on and he explained everything to us and he's an excellent worker.

You should be very thankful he's a part of your company.

And no doubt e Terrance we're so thankful and lucky you're a part of our V Team so Terrance thank you so much for making us smile today I know there's a smile behind that mask in the picture there great job to Terrance and once again thank you to everyone who is watching happy Friday to everybody we will see you back here on next Monday from Up to Speed from the Leadership Forum.

Until next time you're Up to Speed.

Have a great weekend.