

# HD Voice

T-Mobile is the first U.S. carrier to enable HD Voice on its network nationwide, marking a major step forward in dramatically enhancing in-call audio performance on many of the latest smartphones across its 4G network. With HD Voice, T-Mobile customers with capable smartphones automatically hear fuller, more natural-sounding voice quality with significantly reduced background noise when calling another capable smartphone on T-Mobile's nationwide 4G network.

## How it works:

HD Voice is a set of features on the network and the handset including enhanced audio processing, multiple microphones, speakers and improved echo cancellation. T-Mobile HD Voice leverages the Wideband Adaptive Multi-Rate (Wideband AMR) codec – a technology which accommodates an audio frequency range that's twice as wide as a regular, narrowband cell phone call – as well as enhancements to the microphones and speaker systems in T-Mobile smartphones. To benefit from HD Voice, both parties on the call must use capable T-Mobile smartphones and be connected to T-Mobile's nationwide HD Voice-enabled network.

## Benefits:

With HD Voice, customers with capable smartphones automatically benefit from dramatically superior audio performance during phone conversations. Specific features of T-Mobile's HD Voice include:

- Clearer sounding voice calls
- Dramatic decrease in background noise such as street traffic, wind and crowd noise
- Greater realism from improved voice quality
- An enhanced, more enjoyable calling experience at no additional cost

## Availability:

HD Voice is currently available on 12 smartphones, including our full 4G LTE smartphone lineup, including:

- BlackBerry® Q10
- BlackBerry® Z10
- HTC One®
- HTC One S
- Nokia Astound
- Nokia Lumia 521
- Nokia Lumia 925
- Samsung Galaxy Note II
- Samsung Galaxy S® III
- Samsung Galaxy S® 4
- Xperia® Z from Sony

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