

Xpedite

Handheld Measurement Tool



 **X-TEL**
COMMUNICATIONS, INC

Xpedite is one of the world's first handheld drive/walk test tools available as a monthly subscription.

Use as many licenses as you need, when you need them, where you need them, and for as long as you need them.

Use UE (User's Equipment) to get the true User's Experience.

Drive Tester in your

X-TEL's Xpedite is the first fully portable, handheld cellular voice and data tester available via subscription from the Google Play Store.

Xpedite provides a great collection platform to meet the needs of system operators, designers, installers, and consultants alike.

The world of communications has forever changed, most people use a handheld device everywhere they go for both voice and data. More importantly, they expect that those devices not only work, but function well no matter where they are; in buildings, in an elevator, at the game, sitting having a coffee in the park, on a bus or train, in their home, and just about everywhere else in between. Drive testing was traditionally performed with a vehicle driving all of the roads in the market area. Obviously, the coverage and quality of these areas is still very important, but it only shows part of the network picture.

With today's security conscious public, it is not easy to walk around a mall carrying a backpack with lots of wires coming out of it. If you use the Xpedite product, no one needs to know you are collecting data, no more encounters with security people.

Map out your coverage, run performance tests and collect key KPIs for voice and data anywhere you can walk. See these results in real time or easily transfer data and analysis it with popular third party post processing companies, like Actix, Xceed's Windcatcher and others.

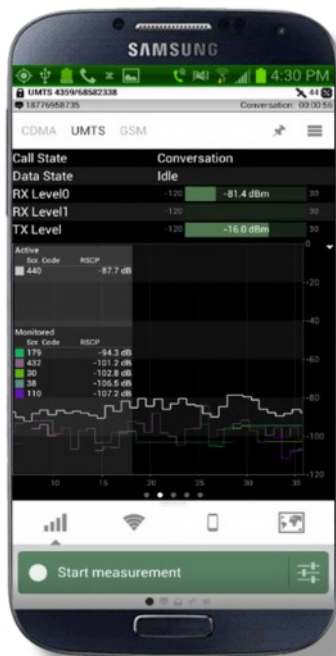
Xpedite is so easy to use, no prior RF experience is required. Any one can click a button to start the Xpedite application and with a couple of additional clicks be collecting data that is geo-coded and time stamped. For example, have a new cluster of cells or a large building complex to test, no problems, gather office

"Anyone can operate Xpedite, it is so easy to use."

personnel,
site
technicians,

customer service reps, whoever you can find to help load down the system with 50+ users with the Xpedite application on off the shelf user equipment running the latest commercial OS.. Now you can subscribe for 50 Xpedite licenses for this month and next month if you only need 5, then you only renew 5 licenses.

"I can now test in malls without security following me."



Subscriber QoE

The Subscribers' Quality of Experience is what the wireless service provider is really judged on.

The demands on mobile service providers by the customers' growing needs for voice, video, data to be experienced anywhere and anytime requires test tools that can monitor these complex systems.

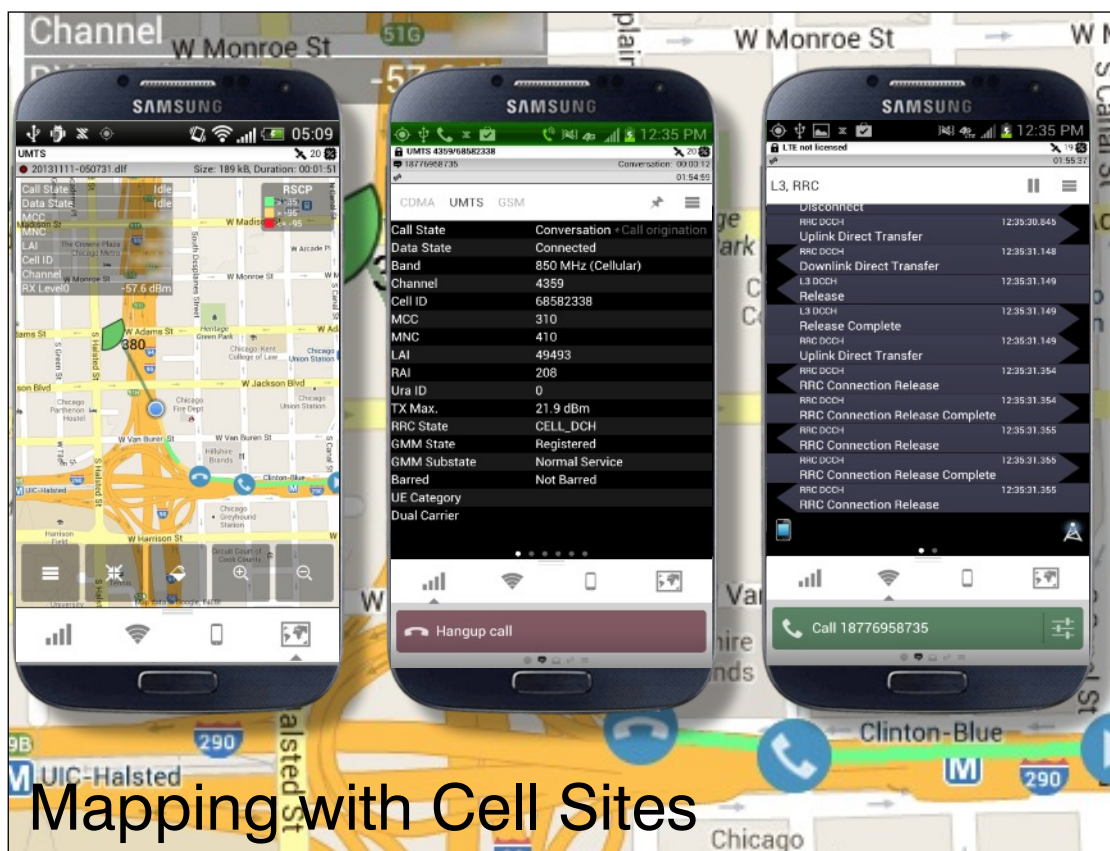
Xpedite offers the end user the opportunity to monitor in real time and/or collect data to be analyzed later, that can help system operators experience what their end customers are experiencing, with off the shelf User Equipment, running the latest commercial OS load.

The Android devices can be updated over the air, no need to send them in to have a new release loaded for either the operating system or the cellular application. After launching Xpedite, it checks through the Google Play Store to verify it has the latest release, if it doesn't it downloads and installs in seconds. While you are actively subscribing, your Xpedite will always be current.

Customized testing scripts are easily configured by the end user. Once these scripts are saved, anyone can collect detailed, serious tests with only a few clicks of a button. The user can 'click and forget,' there is no prior experience required.

Test with Xpedite - Where and How your subscribers use their devices.





Mapping with Cell Sites

User Interface is Intuitive
Start Testing within Minutes

Xpedit has fully configurable user displays for showing measurement parameters, KPIs, statistics, events, mapping, charting, graphing and textual displays in real time.

The software application includes advanced filtering features to aid in monitoring the messages that are important to allow one to optimize, improve performance and troubleshoot your cellular system in real time as well as in a post processing environment.

Key statistics are displayed in Xpedit, which makes it convenient for monitoring popular KPIs such as Call Success Rates and Data Success Rates.

Real time map displays in Xpedit allows the use of Google or Openstreetmaps. Maps can be used in real time streaming mode or cached mode where one can ensure that map load does not affect your testing results.

Map routes that are driven display colored metrics and also display the cell sites/ base station that are serving the call which is shown with a line drawn to the active base station to the location of the Xpedit test phone.

Premium versions of Xpedit are available, please inquire.

Key Features

- Only pay for the licenses you need, when you need them
- Product is always up to date, it automatically updates daily
- Use off the shelf Android phones that are always kept current
- KPIs for voice and data
- Audio and vibration alerts

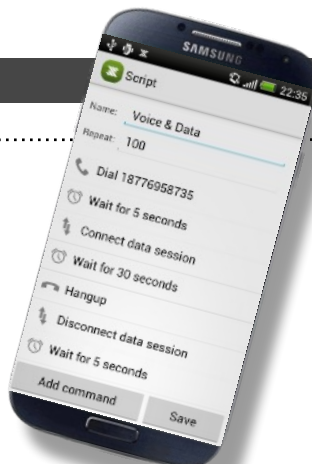


Testing Functionality

Manual and Scripted Testing

Xpedit offers both manual and scripted testing. The built in script editor simplifies the efforts. One can create a test script in minutes. These test scripts can be named, saved and used at a future time. This allows an experienced engineer to create useful test scripts to be used by inexperienced drive testers.

Scripting includes dialing numbers, waiting for a set amount of time, ending the call, setting up data transfers, FTP transfers, and SMS. One is able to



set up files to transfer via FTP by entering the Host, Port, Username, Password, Direction and the Filename.

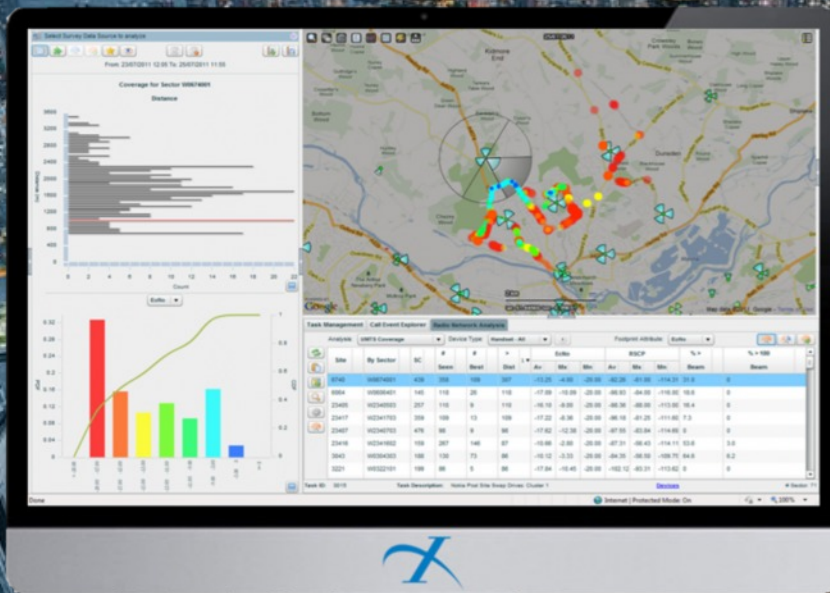
For SMS testing the script contains the Number to dial and the text. One can choose to provide a Delivery Report or not.

For placing voice calls the operator enters the Number into the script. Then the repeat cycles is entered. A "Wait" state is entered in seconds, and a "Hangup" command is also issued after the "Wait" state.

X-TEL Communications, Inc. Xpedit Handheld Measuring Tool 3

Data Analysis

Import Collected Data into Actix



XCEED - WindCatcher

X-TEL is pleased to announce WindCatcher as a leading verified post-processing tool supporting X-TEL's next generation drive-test | walk-test tool. X-TEL test data has been imported into WindCatcher, one of the world's leading post-processing tools. 100% compatible log file format with WindCatcher post-processing. Load files directly into WindCatcher effortlessly. No conversion required. Easy post-processing. Just like it should be. WindCatcher is one of the first vendors to have verified X-TEL's new Xpedite for data file output of wireless data measurements.



Actix - Analyzer

X-TEL is pleased to announce Actix as the first verified post-processing tool supporting X-TEL's new generation drive test tool. X-TEL test data has been used in Actix post-processing tools for more than a decade all over the world, covering all major wireless technologies.



Use Drive Data

Xpedite drive/walk data is brought into third party post processing tools world wide, to help RF and System Engineers understand how their cellular system is functioning from the users' perspective.

Data is analysis to provide the output system operators have standardized on. X-TEL has verified this input data.

Supported Parameters

Common:

System
Voice Call State
Data State

Layer 3

RRC
UplinkThroughput
DownlinkThroughput
CallEndStatus
Operator
DataEndStatus

CDMA:

RxLevel
TxLevel
Band
Channel
SID
NIB
MCC
ActiveSet: PN, Ec/Io, RSCP
CandidateSet: PN, Ec/Io, RSCP
NeighborSet: PN, Ec/Io, RSCP
FER
BaseLongitude
BaseLatitude
BaseId
RegZone
IMSI
ESN
MEID
Frequencies
TmsiZone
TmsiCode
ZoneTimer
ImsiMode
TotalZones
BaseClass
PageChannels
HomeReg
ForSidReg
ForNidReg
PowerUpReg
PowerDownReg
ParameterReg
RegPrd
RegDist
TAdd
TDrop
Tcomp
TTdrop
ExtNghbrList
PriNghbrList
UserZoneld
PrefMsidType
PRev
SoftSlope
AddIntercept
DropIntercept
SyncPn
LeState
SysTime
LpSec
LtmOff
Daylt
SyncCdmaFreq
Ecio
TxGainAdjust
TxPowerLimit
PilotPnPhase

EVDO:

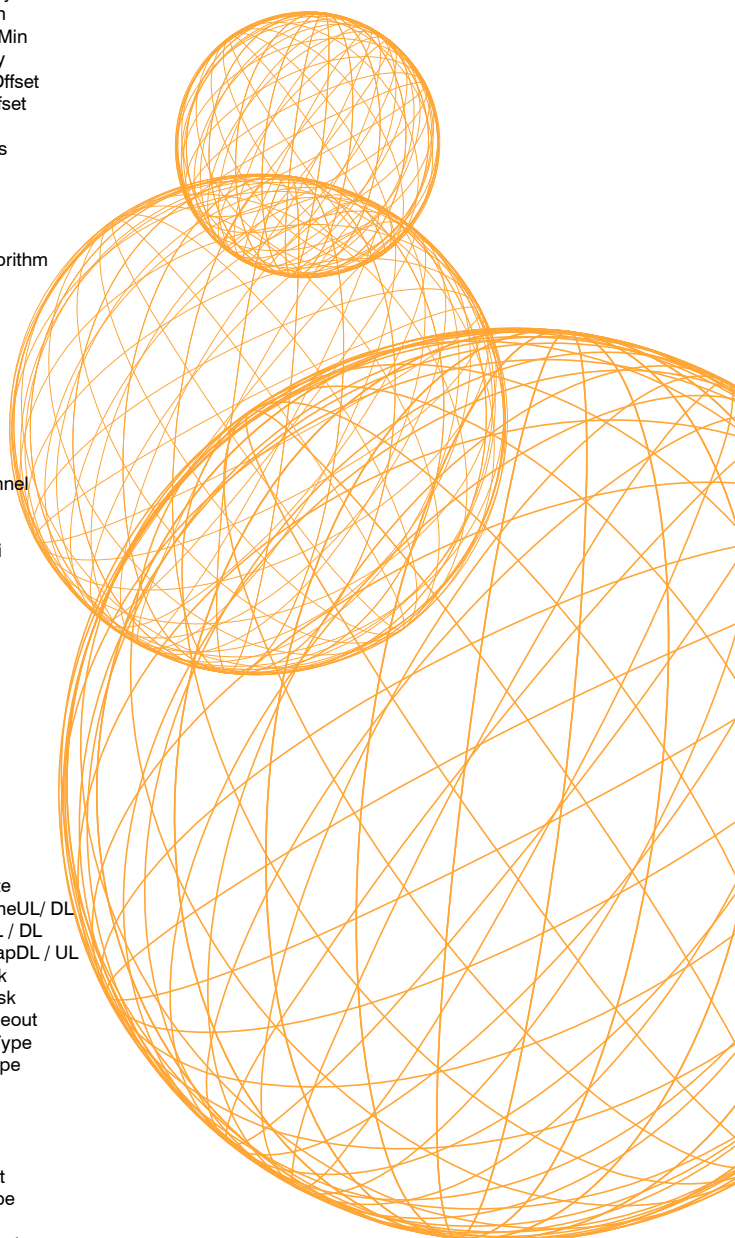
RxLevel
TxLevel
Band
Channel
ActiveSet: PN, Ec/Io, RSCP
CandidateSet: PN, Ec/Io, RSCP
NeighborSet: PN, Ec/Io, RSCP
SectorID
SubnetMask
ColorCode
BaseLongitude
BaseLatitude
SNR

UMTS:

RxLevel1
RxLevel2
TxLevel
MaxTx
MCC
MNC
CellId
Channel
Barred
RSSI
BandLAI
RAI
Urald
ActiveSetList
ActiveSet Scrambling Code, EcNo, RSCP
NeighborSetList
NeighborSet ScramblingCode, EcNo, RSCP
BLER
RRCState
GMMState
GMMSubstate
UeCategory
HARQStatus
CQI
Modulation
TransportBlockSize
CarrierCount
TTI
HappyBit
Transmissions
Etfci
Sg
ServingScr
DualCarrierEnabled
ULTransportChannels
DLTransportChannels
PrimaryERNTI
SecondaryERNTI
CQISampleCount
CQIValidCount
RLCThroughputDL
RLCThroughputUL
CQIType
MIMO
RAMEssageLength
RAPreambles
RAAICHStatus
RASignature
RASubChannelNumber
RASFN
RAAICHTiming
RATXPower
VocoderMode

GSM:

Channel
BSIC
Band
RXLevel
TxLevel
TimingAdvance
DTx
PlmnColor
BsColor
CellId
C1 / C2
T3212
CellReselectHysteresis
TxPwrMaxCch
RxLevAccessMin
CellBarQualify
CellReselectOffset
TemporaryOffset
PenaltyTime
CellBarAccess
SNR
MCC
MNC
LAC
CipheringAlgorithm
ImSI
TMSI
KC
BaList
BaChannel
BaBand
BaNcc
BaBcc
BaRssi
HoppingChannel
Rand
Imei
DetectedTmsi
DetectedImsi
PagingMode
RRState
MACState
FER
ChannelType
Hopping
HSN
MAIO
Timeslot
RxQualFull
RxQualSub
RxLevelFull
RxLevelSub
CipheringState
CodingSchemeUL / DL
ModulationUL / DL
TimeslotBitmapDL / UL
MeanBep8psk
MeanBepGmsk
RadioLinkTimeout
AccessBurstType
ControlAckType
DLTFI
DLTBFSState
ULTFI
ULTBFSState
EDGESupport
Allocation Type
RLCMode
RLCThroughput
ActiveCodecSetDL / UL
NormalizedCper1
VocoderMode
BaBsic





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