

Test Case ID	Test Case Description	Test Steps (Overview)	Simplified Requirement
Network			
T-VZAP-NET-SER-0100.00	Network Connectivity Validation	Ensure that the application is able to establish a network connection and acquire the necessary data for every part of the application which requires a network connection.	Verify all necessary data connections to external servers can be established.
T-VZAP-NET-CONN-0200.00	Data Connection Tear Down	Establish a data connection, verify that the requested data has been received and then leave the phone idle. Ensure that the phone goes idle within 19 seconds.	Verify the application does not maintain the data connection for more than 19 seconds after displaying results.
T-VZAP-NET-CONN-0300.00	Forced Termination of Application while Connected	Establish a data connection and before the results have been received, exit the application, or end the process. The data connection should terminate either immediately or within a timely manner (1-3 seconds).	Verify the application terminates the data connection if the user terminates the application while the application is transmitting or receiving data. The network resources should be released gracefully and in a timely manner.
T-VZAP-NET-CONN-0400.00	Forced Termination of Application while Idle	Establish a data connection and after the results have been received, wait for the device to go idle and then exit the application or end the process (ensure the application is not in a minimized state). There should be no further data connections.	Verify the application terminates the data connection if the user terminates the application immediately following a transfer of data. Any additional connections are grounds for failure.
T-VZAP-NET-CONN-0500.00	Heartbeats/Keepalives	This test is to ensure that the only time the application establishes data connections is when initiated by the user. Start by establishing a data connection. Once the requested data has been received, remain in the application and begin a 10 minute timer. After 10 minutes, inspect the CAIT logs to ensure that there were no PPP transmit messages (typically with a packet size of 198) except those at the beginning of the log initiated by the user. Perform this test up to 3 times.	Verify that the application doesn't use Heartbeats/keepalives (additional connections outside of user-initiated connections).
T-VZAP-NET-CONN-0600.00	Unprovisioned Device	Deprovision the device so that it has no phone or data signal. Launch the application and after it has fully launched, exit the application. Leave the device idle for 1 hour (60 minutes). Inspect the CAIT log afterward for network usage. It is acceptable for the application to have one connection request during the 1 hour period, but anything additional is considered a failure.	Verify that there is no network activity initiated by the device/application. The application is allowed to have ONE connection period during the 1 hour period. Any additional connections are subject to failure. NOTE: There may be network activity that is network initiated. A careful examination of the log file will determine the flow of this traffic.

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T-VZAP-NET-TRAF-0700.00	Traffic Redundancy	While logging the entire activity with CAIT, launch the application and attempt to utilize all network functionality of the application under one session. This may not be possible, as the session may time out when attempting to navigate to other parts of the application. After this has been done, leave the application idle for 6 minutes. Inspect the CAIT logs for "Connection Request/Close" pairs and verify that all data transfers were completed using the same session. If there are additional request/close pairs, ensure that there no data connections were transmitted across multiple sessions.	Verify the application completes data transfer for each content item in one connection session. If there are no additional connection periods then the application passes the test case.
T-VZAP-NET-TRAF-0800.00	TCP/UDP	Inspect logs captured in previous tests and inspect the PPP transmits to ensure the application does not use UDP for its traffic.	Verify the application does not use UDP for its traffic. Justification needs to be provided if UDP has to be used.
T-VZAP-NET-SMS-0900.00	SMS Interrupt	Establish a data connection and interrupt the connection with an SMS message to the device under test. The data connection should persist, and there should be some type of notification that an SMS has been received (such as a beep).	Verify the application can handle an incoming SMS message while connecting to an external server. The application should gracefully handle an incoming SMS message while connecting to an external server.
T-VZAP-NET-SMS-1000.00	SMS Wake-up	Establish a data connection and wait for the device to go idle. Leave the application running for 5 minutes and then exit the application or end the process, taking note of the time. Inspect the CAIT logs and search for any "Data Burst" messages with a type of "SMS".	Verify the application does not use SMS messaging for SMS wakeup or SMS push features.
Malicious Application Behavior			
T-VZAP-MAL-DISC-0100.00	Full Network Functionality Disclosure	This test case is only performed for apps submitted to the ZON, and is not applicable for Handango applications. The application developer will submit a full disclosure of all network usage (such as core data connectivity, use of SMS within the app, SMS Wake-up and expected content, etc). Ensure that there are no omissions or discrepancies in the disclosure.	If there are any discrepancies or omissions by the application submitter write a defect for each instance.
T-VZAP-MAL-PERF-0200.00	Latency	Perform a traceroute and a ping to the application's content servers to determine whether there is any considerable latency. Report the number of traceroute hops or the ping response time if latency is experienced.	Report the hops as a defect if the application features excessive latency. Report the Ping if the application features excessive latency.
Security			

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T-VZAP-SEC-DATA-0100.00	Spyware/Keystroke Logging	Monitor the application visually for any behavior or notification that would indicate reporting or sharing of user data externally. EULAs or suspicious log activity may help isolate this behavior.	Verify the application does not feature any (by design or 3rd party software) keystroke logging or usage monitoring software.
VZW Branded Applications			
T-VZAP-VZW-AAA-0100.00	AAA Behavior	VZW is to provide the X and Y in the following: Ensure that there are no more than X AAA transmissions in any given Y period of time.	Verify the application does not exceed X number of AAA transactions during a Y period of time.
Miscellaneous			
T-VZAP-MISC-VZW-0100.00	Miscellaneous	This test case is used to report any defects found during application testing that are high severity, but not covered by the test suite.	Use this test case to enter defects not covered by any test cases; this includes functionality and any interoperability defects.