**SDK for Accessing Device Features**

The prototype of the functions provided in the SDK are given below.

In general (applies to all functions),

Argument:

* useragent: str: “user agent “string (which is a part of the HTTP header) for the device ,which contains information about the requesting device.

None is returned in the following cases:

* Brand name not found
* Mobile device not found
* The Requested spec is Unknown.

Exceptions are thrown in the following cases:

* DeviceServerError – If there is an error at the server.
* RuntimeError – If the query is not proper or some error occurred while fetching and processing the results.

**Prototypes:**

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| How to call | Input | Output type | comments |
| getOS(useragent) | Useragent | str  None | Name of the OS is returned if known else None |
| isTouch(useragent) | Useragent | bool  None | Returns True if feature is supported,  False if feature is not supported and None, when value is not Known. |
| isQwerty(useragent) | Useragent | bool  None |
| isNormal(useragent) | Useragent | bool  None |
| isPrimCam(useragent) | Useragent | bool  None | Returns  True: if Primary Camera is present False: if not present None:value is not known |
| isSecCam(useragent): | Useragent | bool  None | Returns  True: if Secondary Camera is present False: if not present None: value is not known |
| getPrimCamRes(useragent) | Useragent | Float  None | Returns the camera resolution in Megapixels if known, else returns None |
| getSecCamRes(useragent) | Useragent | Float  None |
| isSupportedPrimCamFeat(useragent,feature) | Useragent ,feature: str | bool  None | True: feature is supported  False: feature is not supported  None: Unknown  Or if feature requested is not in PrimaryFlash,  PrimaryAutoFocus,  PrimaryFaceDetection,PrimaryGeoTagg  Ing,SecondaryFlash |
| isSupportedSecondaryCamFeat(useragent,feature) | Useragent ,feature: str | bool  None |
| isVideoSupported(useragent) | Useragent | bool  None | True: supported  False: not supported  None: value is not known |
| isFM(useragent) |
| isMusicPlayer(useragent) |
| isHDRecording(useragent) |
| getFPS(useragent) | Useragent | Int  None | Returns value in fps if known, else None |
| getHeight(useragent, st="mm") | Useragent  st: *units in which value should be returned: should be one among*  *mm, cm, in* | Float  None | Returns the value in the requested format if known, else returns None |
| getThickness(useragent, st="mm") |
| getWidth(useragent, st="mm") |
| isUSB(useragent) | Useragent | bool  None | Returns  True: if USB is supported  False: not supported  None: Unknown |
| getSimNum(useragent) | Useragent | Int  None | Returns  Number of sims supported if known, else None |
| getNumCores(useragent) | Useragent | Int  None | Returns  Number of cores supported if known, else None |
| getFrequency(useragent) | Useragent | float  None | Returns  Frequency in GHz  None if not found. |
| getDisplayResolution(useragent) | Useragent | tuple  None | Returns display width and height in pixels, None if not found. |
| getDisplayWidth(useragent) | Useragent | float  None | Returns Display Width in pixels, None if not found. |
| getDisplayHeight(useragent) | Useragent | float  None | Returns Display Height in pixels, None if not found. |
| isLCD(useragent) | Useragent | bool  None | Returns  True if the phone supports LCD,False if not supported,  None when value is Unknown |
| getRAM(useragent) | Useragent | float  None | Returns RAM in GB,  None if value is not known. |
| getInternalMemory(useragent) | Useragent | float  None | Returns InternalMemory available in GB ,  None if value is not known |
| getSecondaryMemory(useragent) | Useragent | float  None | Returns SecondaryMemory available in GB ,  None if value is not known |
| getTalkTime(useragent,tech="2G",unit="min") | Useragent tech: 2G, 3G  unit: min, hr | float  None | Return talk time in the required format if known, else None |
| getStandbyTime(useragent,tech="2G",unit="hr") | Useragent tech: 2G, 3G  unit: min, hr | float  None | Return standbytime in the required format if known, else None |
| is2G(useragent) | Useragent | bool  None | True: supported  False: not supported  None: Unknown |
| is3G(useragent) |
| isHSDPA(useragent) |
| isGSM(useragent) |
| isCDMA(useragent) |
| isGPRS(useragent ) |
| isBluetooth(useragent) |
| isWifi(useragent) |
| getSensors(useragent) | Useragent | List  None | A list of available sensors is returned if known,else None |