Table 1: The Permission, API, and API parameters for the corresponding iArb detection

					_
Perspective	iArb	Permission	API	Parameter	-
ull def /BU.S	/burl@stx null def Read SD card		lly exels shi/northfelts.getbalefrhubl@rsgeDilleorobyrl@er gEos.Environment.getExternalStoragePublicDirectory; *.content.Context.getExternalFilesDir;	ndx burl@llx ne BU.FL BU.S if if burl@s /	tx null eq burl@llx dup /burl@stx
	Read phone state and device ID	READ_PHONE_STATE	telephony.TelephonyManager.getDeviceSoftwareVersion *t.elephony.TelephonyManager.getNetworkType; *t.elephony.TelephonyManager.getSimSerialNumber; *t.elephony.TelephonyManager.getLine l Number; *t.elephony.TelephonyManager.getMeid; *t.elephony.TelephonyManager.getImei; *t.elephony.TelephonyManager.getDeviceId; *t.elephony.TelephonyManager.getDeviceId; *t.elephony.TelephonyManager.getSubscriberId; telephony.TelephonyManager.getSimOperatorName *t.elephony.TelephonyManager.getSimOperatorName	/	
	Read call log	READ_CALL_LOG	*.content.ContentResolver.query;	content://call_log	
	Read contacts	READ_CONTACTS	*.content.ContentResolver.query;	content://com.android.contacts	
User	Read calendar	READ_CALENDAR	*.content.ContentResolver.query;	content://com.android.calendar/calendars	s
Diversity		READ_SMS	*.content.ContentResolver.query;	content://sms	
	Read bluetooth pairing	BLUETOOTH_CONNECT, ACCESS_FINE_LOCATION	*.bluetooth.BluetoothAdapter.getBondedDevices;         *.bluetooth.BluetoothDevice.getName;         *.bluetooth.BluetoothDevice.getAddress;         *.bluetooth.BluetoothDevice.getBondState;	1	
	Read recordings	RECORD_AUDIO	*.media.MediaRecorder.setAudioSource; *.media.MediaRecorder.setOutputFormat; *.media.MediaRecorder.setAudioEncoder; *.media.MediaRecorder.setOutputFile; *.media.MediaRecorder.prepare; *.media.MediaRecorder.start; *.media.MediaRecorder.stop;	1	
	Read location		*.location.LocationManager.getLastKnownLocation; *.location.LocationManager.requestLocationUpdates; *.location.LocationListener.onLocationChanged; ON *.location.Location.getLatitude; *.location.Location.getLongitude; *.location.Location.getAltitude;	1	
	Read Wi-Fi connection records	ACCESS_WIFI_STATE	*.net.wifi.WifiManager.getConfiguredNetworks;  *.net.wifi.WifiManager.getConnectionInfo;  *.net.wifi.WifiInfo.getSSID;  *.net.wifi.WifiInfo.getBSSID;  *.net.wifi.WifiInfo.getIpAddress;	1	
	Notification pop-up	POST_NOTIFICATIONS	*.app.NotificationManager.notify; app.Notification.Builder.setSmallIcon; app.Notification.Builder.setContentTitle; app.Notification.Builder.setContentText; app.Notification.Builder.setPriority; app.Notification.Builder.setAutoCancel;	1	
	Floating windows	SYSTEM_ALERT_WINDOW	*.view.WindowManagerImpl.addView; *.provider.Settings.canDrawOverlays;	/	
	Video call	CAMERA, RECORD_AUDIO, INTERNET, AC- CESS_NETWORK_STATE, MODIFY_AUDIO_SETTINGS	*.net.sip.SipManager.makeAudioCall; *.net.sip.SipManager.makeVideoCall; *.net.sip.SipManager.setSpeakerMode; *.net.sip.SipAudioCall.start; *.net.sip.SipAudioCall.endCall; *.net.rtp.AudioStream.setMode; *.net.rtp.AudioStream.sosociate; *.net.rtp.AudioStream.soin;	1	
Status Diversity	Audio playback	MEDIA_CONTENT_CONTRO	*.media.MediaPlayer.create;  *.media.MediaPlayer.setDataSource;  *.media.MediaPlayer.prepare;  *.media.MediaPlayer.start;  *.media.MediaPlayer.start;  *.media.MediaPlayer.stop;  *.media.MediaPlayer.stop;  *.media.MediaPlayer.release;  *.media.AudioManager.setStreamVolume;  *.media.AudioManager.getStreamVolume;  *.media.AudioAttributes\$Builder.setContenfType;  *.media.AudioAttributes\$Builder.setUsage;	/	
	Video playback	MEDIA_CONTENT_CONTRO	*.media.MediaPlayer.setVideoScalingMode;	1	
	Voice call	CALL_PHONE	*.telephony.TelephonyManager.listen; *.telephony.TelephonyManager.endCall; *.telephony.TelecomManager.placeCall; *.telephony.PhoneStateListener.onCallStateChanged;	/	
Peripheral Diversity	Access camera	CAMERA	*.hardware.Camera.takePicture;	/	
	Access NIC	ACCESS_NETWORK_STATE, ACCESS_WIFL_STATE, INTERNET	*.net.ConnectivityManager.getActiveNetworkInfo; *.net.ConnectivityManager.getAllNetworks; *.net.ConnectivityManager.getNetworkInfo; *.net.wif. WifiManager.getConnectionInfo; *.net.wifi.WifiInfo.getIpAddress; *.net.wifi.WifiManager.isWifiEnabled; *.net.wifi.WifiManager.setWifiEnabled; java.net.InetAddress.getHostAddress;	/	

Table 1: The Permission, API, and API parameters for the corresponding iArb detection

Perspective	iArb	Permission	API	Parameter
			java.net.NetworkInterface.getNetworkInterfaces; java.net.NetworkInterface.getInetAddresses;	
	Access radar	/	[vendor].*.CameraFrontRadarEventMsg.*;	/
	Access battery	/	[vendor].*.ElectriPercentEventMsg.*;	/
I	Access steering wheel	/	[vendor].*.CameraSteerAngleEventMsg.*;	/