



## 01 FMSevolution Wangiri fraud detection module

Originating in Japan, “one (ring) and cut” is a scam that continues to afflict CSPs around the world. Also known as “ping call” or “spam vocal” (France), usually the scam involves the random automatic dialling of many mobile phones on the Telecom Operator’s network. The number appears as a missed call on a subscriber’s phone. The subscriber, thinking that they missed a legitimate call, or just out of curiosity, is enticed to return the call. The number they are calling is a premium rate service number, which is facilitating a far more dangerous International Revenue Share Fraud, potentially costing the Telecom Operator tens of thousands of dollars in just minutes.

With this type of attack, it is important to enact preventative actions before subscribers start calling back and incurring charges for these premium rate calls. The XINTEC FMSevolution fraud management system does just this, and more.

Assuming the xDRs are available in close to real time, FMSevolution will generate an alarm during the automatic dialling phase allowing the Telecom Operator to quickly take action to prevent any losses being suffered.



## 02 Wangiri fraud detection module

This module consists of a Wangiri analysis module, which efficiently captures several key characteristics for every B-number range and quickly matches these characteristics with known Wangiri patterns. The module works for Voice and SMS.

The B-number characteristics are captured in a profile made up from A-number diversity, call spread, average call duration (voice), individual call duration (voice) and other statistical measures. Profiles are only maintained while they are active to keep resource usage to a minimum.

The solution integrates the XINTEC hotlist number database to accelerate detection when there is a match. The solution also learns from recent Wangiri fraud attacks to identify countries/ranges most likely to originate future Wangiri fraud attacks and the uses this knowledge to speed identification.



### The FMSevolution Wangiri fraud detection module enables:

- the identification of Voice and SMS Wangiri fraud attacks
- the reduction of false positive rates near zero
- the generation of alarms during the automatic dialling phase, clearly indicating that a Wangiri fraud attack is underway
- the linking of follow up alarms if subscribers start to call these numbers back
- automatic destination barring (provided an interface is made available to FMSevolution)
- automatic hotlisting to avert future attacks
- a full drill-down to view the xDRs related to these attacks
- an automatic SMS delivery to affected subscribers warning them that they may be the target of such an attack (provided an SMS interface is made available)

**INTERESTED IN THIS MODULE?**

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