



**INTERNATIONAL TELECOMMUNICATION UNION**  
**TELECOMMUNICATION STANDARDIZATION BUREAU**

## **Abstract**

### **Workshop on Digital Financial Services and Financial Inclusion Washington D.C., USA, 19 April 2017**

#### **Session 2: Technology, Innovation and Competition Outputs**

##### **Assaf Klinger**

SMS and USSD transactions, which are the basis of Digital Finance Services are insecure and easily intercepted by hackers.

In my workshop session I will demonstrate the easiness of intercepting SMS and USSD messages and discuss the inherent vulnerability of the SS7 network. In order to secure the Digital Finance Services a new approach is required, one that takes into account the decreasing profit margins of operators and the fact that large investments in infrastructure are difficult. I will propose a security solution that takes the real world into account.