

# IST MODEL

THE MOST POWERFUL TECHNOLOGY FOR THE HIGHEST POSSIBLE LEVEL OF SECURITY IN INTERNET COMMUNICATIONS

## A SHORT INTRODUCTION

<b>Patents</b>	US Patent no. US 8,612,758 B2 (Dec. 17 <sup>th</sup> 2013, Priority IT MI2004A1913 Oct. 08 <sup>th</sup> 2004) IT Patent no. 1357523 (Mar. 16 <sup>th</sup> 2009, Priority IT MI2004A1913 Oct. 08 <sup>th</sup> 2004)
<b>Short Description</b>	A new innovative software technology designed to strongly enhance security in electronic communications and transactions over the Internet. IST Model is based on a powerful method for user identification over unsecured networks with high degree of security, strength and reliability. For its characteristics of intrinsic security this technology is completely safe from many of the well known security attacks, offering a wider security surface and minimizing attack surface.
<b>Areas of Business</b>	All the environments where there is the need to enforce security in electronic user communication, identification and authentication over unsecured communication networks. Main areas of interest for IST Model are Users Identification, Mobile Payments, Fintech, e-commerce, IOT Systems, Robotics, Space communications and in general all the activities where secure Identification is a key issue
<b>Key Points</b>	Cryptographic techniques are the core of the most used and advanced security systems, either at application level and at infrastructure level. They provide a high level of security, but the increasingly strong security attacks are lead to an increased risks. The design of IST Model is based on a different technology which is complementary to the cryptography, a data-driven approach to security using One Time Tokens in an innovative way. The result is a new technology able to strongly augment security during all the communications between two or more partners. Designed as an application protocol, IST Model is stackable over existing software layers. The security engine guarantees fast algorithms, suitable even for thin devices.
<b>Innovative Features</b>	Here there are some of the innovative features of IST Model technology <ul style="list-style-type: none"> <li>▪ Bidirectional authentication, always (no phishing, no DNS redirection, etc.)</li> <li>▪ Security is based on One Time Tokens approach (no sniffing)</li> <li>▪ No cryptographic technologies are used (no code to be cracked)</li> <li>▪ Identification data is never shared among partners (no user impersonation)</li> <li>▪ No external third parts used in the model (attack surface is minimized)</li> <li>▪ Thin code for faster algorithms suitable even for small devices (IOT ready)</li> <li>▪ Transaction architecture expandable ("N" message/transaction)</li> <li>▪ Multiple partners transactions ("N" partner/transactions)</li> <li>▪ Completely transparent to final users (minimized human intervention)</li> <li>▪ stackable over existing layers (application protocol)</li> </ul>
<b>Intrinsic Protection</b>	The identification engine inside IST Model is inherently secure by design. Its innovative features makes it completely safe from many cyber-frauds among those currently most popular nowadays (Phishing, Pharming, DNS redirection, Arp poisoning, Sniffing, etc.).
<b>About the Inventor</b>	Sergio Sestili, born in Livorno, Italy, the 9 <sup>th</sup> October 1963 <ul style="list-style-type: none"> <li>▪ Master degree in Computer Science achieved at the University of Pisa in 1988 with final mark 109/110</li> <li>▪ Research Degree Thesis in Artificial Intelligence and Advanced Robotics (scientific publication <a href="http://bit.ly/TactilePerception89">http://bit.ly/TactilePerception89</a>)</li> <li>▪ Currently employed in an Italian IT company as Project Manager for innovative EU projects, software designer, architect, team leader, etc.</li> <li>▪ Selected by Italian Space Agency in 2002 as one of the three final candidates in the last Italian Astronaut selection (ASI 2001/2002) for a post in the European Astronaut Corps. Passed all ESA Psychological and Medical tests required for getting long duration space flight missions certification</li> </ul>
<b>Reference</b>	<a href="http://www.istmodel.com">http://www.istmodel.com</a>
<b>Contact</b>	<a href="mailto:contact@istmodel.com">contact@istmodel.com</a> or <a href="mailto:sergio.istmodel@gmail.com">sergio.istmodel@gmail.com</a>