

<b>Invention Title:</b>	location Independent secure Internet access
<b>Invention Summary:</b>	A mechanism for secondary degree of identity verification for secure communication. A generating code mechanism can be instrumented for added security. Such mechanism is location agnostic.
<b>Invention Description:</b>	<p>Nowadays many internet accesses (email, bank account ) requires a 2nd degree of verification in addition to login/password. Physical means includes RSA secure ID, cell phone text messaging for verification code, etc.</p> <p>A user is required to enter a different number upon each login. However, such mechanism is limited to certain geographical coverage. Once he/she is out of region, it can no longer works.</p> <p>To solve this problem, we can have next access code generated and protected while still logging into the account. Within current login access a user can opt to generate security codes for the next access. A physical device ( e.g., USB) can be used to store such information provided by the current login site. Such information should be stored in encrypted format and is only recognizable by respective application and user. In effect, this is a transient key that a user can bring with him for next access. Next access will be granted with a combination of login/password and last generated security access codes. This will offer more flexibility and enhancement than location dependent verification mechanism. To tighten security, such mechanism can be effective only for certain time duration ( e.g., during two week of travel abroad).</p> <p>In case of corruption of such information, a user is required to go back to traditional mechanism (e.g., call the bank) to reset.</p> <p>A simplified example is modern day car keyless entry and rolling code garage door opener. However, such mechanism can have limited security due to the small pool of available codes.</p>
<b>Invention Commercial Value/Customers:</b>	Enhanced security without boundary limitation. Suitable for military and high security usage such as financial institution, accounting, with mobility requirement that extends outside certain coverage region.
<b>Invention Differences:</b>	Less user intervention. Much wider coverage. No dependency over secondary means of communication channel , such as LTE or GSM.