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(54) Title of the invention : SECURE LOCATION-BASED AUTHENTICATION AND AUTHORIZATION FOR SERVICE PROVIDER NETWORKS

<p>(51) International classification :H04W0004020000, H04W0012060000, H04L0067520000, G06F0021620000, H04W0004029000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Chitkara University</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p><b>2)Bluest Mettle Solutions Private Limited</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)MISHRA, Rahul</b> Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----</p> <p><b>2)PANDEY, Sakshi</b> Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----</p> <p><b>3)MANTRI, Archana</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p>
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(57) Abstract :

In the ever-evolving landscape of service provider networks (112), security and access control are paramount. This abstract introduces a cutting-edge solution which is a secure location-based authentication and authorization (SLBAA) for service provider networks. SLBAA for Service provider networks (112). SLBAA leverages the physical location of users and devices to enhance network security and ensure the authorized access to resources. The technical field encompasses network security, authentication, authorization, and geospatial technologies. SLBAA utilizes real-time location data obtained through GPS, Wi-Fi, cellular networks, or other sources to verify the geographical context of users and devices. The system (100) employs a multi-faceted approach to ensure security and user-friendly access control. It collects location data from trusted sources, performs multi-factor authentication, and employs dynamic policies to grant or deny access.

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