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(71)Name of Applicant :  
**1)Malla Reddy Engineering College**  
 Address of Applicant :Malla Reddy Engineering College Dhulapally post via Kompally Maisammaguda Secunderabad -500100 Secunderabad -----

**2)Dr. Pattlola Srinivas**  
 Name of Applicant : NA  
 Address of Applicant : NA

(72)Name of Inventor :  
**1)Dr. Pattlola Srinivas**  
 Address of Applicant :Professor Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajigiri-500100.State:Telangana Email ID & Contact Number:drpattlolasrinivas@gmail.com&9849720639 Secunderabad -----

**2)Mr. K.Srikanth**  
 Address of Applicant :Assistant Professor Computer Science and Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajigiri-500100.State:Telangana Email ID & Contact Number:srikanthkama09@gmail.com &9966548998 Secunderabad -----

**3)Ms Beri Madhuri**  
 Address of Applicant :Assistant Professor Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajigiri-500100. State: Telangana Email ID & Contact Number: madhuri16.b@gmail.com & 9949390795 Secunderabad -----

**4)Dr B Hari Krishna**  
 Address of Applicant :Associate Professor Computer Science and Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajigiri-500100. State: Telangana Email ID & Contact Number: hariboorgadda@gmail.com&9912086272 Secunderabad -----

**5)Dr J Anitha**  
 Address of Applicant :Professor Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajigiri-500100. State: Telangana Email ID & Contact Number: anithanv28@gmail.com & 9298303067 Secunderabad -----

**6)Ms. T.Jagadeeswari**  
 Address of Applicant :Assistant Professor Computer Science and Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajigiri-500100. State: Telangana Email ID & Contact Number: jagadeeswari2003@gmail.com & 7842354470 Secunderabad -----

**7)N Paparao**  
 Address of Applicant :Assistant Professor Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajigiri-500100. State: Telangana Email ID & Contact Number: Paparaoonalla259@gmail.com &9866710255 Secunderabad -----

**8)Sattivada Dinesh kumar**  
 Address of Applicant :Assistant Professor Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajigiri-500100. State: Telangana Email ID & Contact Number: dineshkumarsattivada@gmail.com &7569870710 Secunderabad -----

**9)Ms Asmita Pankaj Ambekar**  
 Address of Applicant :Assistant Professor Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajigiri-500100. State: Telangana Email ID & Contact Number: ekhandeasmita@gmail.com&9849720639 Secunderabad -----

**10)Ms V.Sreedevi**  
 Address of Applicant :Assistant Professor Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajigiri-500100. State: Telangana Email ID & Contact Number: vaitlasreedevi@gmail.com&9652916312 Secunderabad -----

(57) Abstract :  
 A brand-new anomaly management framework built on a rule-based segmentation method for firewalls that enables more precise anomaly identification and efficient anomaly resolution. This method allows for the division of a network packet space specified by a firewall policy into a number of distinct packet space segments. A precise indication of an overlap relation between firewall rules is provided by each segment linked to a distinct set of rules. In addition, we present a flexible approach to conflict resolution that allows for fine-grained conflict resolution in relation to the goal of policy development and the risk assessment of protected networks with the aid of many efficient resolution mechanisms. Firewalls are essential elements of network security and are frequently used to safeguard private networks. A firewall uses its policy to decide whether to accept or reject a packet that comes through it. However, policy errors that either let harmful traffic or block lawful traffic have plagued the majority of real-world firewalls. Firewall policy complexity makes it challenging to identify and fix flaws in a firewall policy manually.

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