Abstract
The complexity of home networks has evolved to a greater level of sophistication and complicacy in the recent times comprising of heterogeneous components like at least two computers, web-enabled high-definition television sets, net-enabled blue ray disc players, iPods and many other such devices. Troubleshooting such a sophisticated smart home network in case of a malfunction by the novice end users seems to be very demanding. The paper proposes a Smart Home Network Monitoring System that provides a centralized, general-purpose, automatic and convergent logging facility with the purpose to auto-detect and possibly correct all such failure issues by having a well-defined set of adaptive and incremental rule engine that needs to be applied to the entire network in general. Logging of all events that happened before trouble appeared may give a greater insight and hence help in providing an effective and permanent troubleshooting mechanism. This paper also reports the initial experience of deploying such a facility.

References

San Diego.

Index Terms

Computer Science

Networks

Keywords

Smart Home Network Monitoring System
General-purpose logging facility
Adaptive and Incremental Rule-Engine
Event
Troubleshooting