## RESEARCH ARTICLE

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# **Automatic Screening of Missing Objects and Identification with Group Coding of RF Tags**

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#### **ABSTRACT**

Here the container of the shipping based phenomena it is a collection of the objects in a well oriented fashion by which there is a group oriented fashion related to the well efficient strategy of the objects based on the physical phenomena in a well efficient fashion respectively. Here by the enabling of the radio frequency identification based strategy in which object identification takes place in the system in a well efficient fashion and followed by the container oriented strategy in a well effective fashion respectively. Here there is a problem with respect to the present strategy in which there is a problem with respect to the design oriented mechanism by which there is a no proper analysis takes place for the accurate identification of the objects based on the missing strategy plays a major role in the system based aspect respectively. Here a new technique is proposed in order to overcome the problem of the previous method here the present design oriented powerful strategy includes the object oriented determination of the ID based on the user oriented phenomena in a well effective manner where the data related to the strategy of the missing strategy plays a major role in the system based aspect in a well effective fashion by which that is from the perfect analysis takes place from the same phenomena without the help of the entire database n a well respective fashion takes place in the system respectively. Here the main key aspect of the present method is to effectively divide the entire data related to the particular aspect and define based on the present strategy in a well effective manner in which there is coordination has to be maintained in the system based aspect respectively. Simulations have been conducted on the present method and a lot of analysis takes place on the large number of the data sets in a well oriented fashion with respect to the different environmental conditions where there is an accurate analysis with respect to the performance followed by the outcome in a well respective fashion takes place in the system.

**Keywords** - Communication of RF, Data verification system, multiple groups, Radio frequency identification, Tags oriented RFID.

## I. INTRODUCTION

Here the technology related to the identification of the data with respect to the radio frequency in a well efficient fashion by which there is a proper analysis takes place in the system which the objects belongs to the same group in a well respective analysis[1]. Here the system oriented with respect to the association of the information based strategy in a well effective manner followed by the interrogator in a well efficient phenomena takes place in the system based on the tags orientation with respect to the well effective scenario of the RFID based strategy plays a major role in the system in a well efficient fashion respectively [2][3]. Here the collection of the information takes place by the help of the tags oriented with respect to the RFID based strategy followed by the interrogator based phenomena in a well effective manner by which communication oriented radio frequency plays a major role in the system based aspect respectively.

Here the group oriented strategy plays a crucial role in the system based implementation in terms of the real space for the purpose of the integrity Followed by the verification plays a crucial role as per the requirement of the group oriented objects plays a major role in a well stipulated fashion respectively. Here the group of the practice related to the typical strategy includes in the container of the shipping and under the well effective consideration of the system based analysis respectively. Here the container is well designed with the objects plays a crucial role of the identification of the radio frequency in its respective strategy of the identification of the group of the data in a well acquainted scenario respectively.

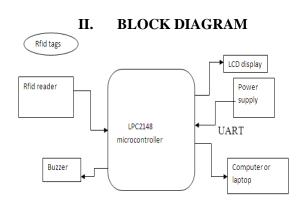


Figure 1: Shows the block diagram of the present method respectively

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#### III. METHODOLOGY

In this paper a method is designed with a well efficient framework oriented strategy with respect to the analysis of the system oriented with identification of the tags in a well oriented fashion followed by the RFID strategy plays a prominent role for the efficient improvement of the system in terms of the objects classification followed by the well effective tracking followed by the monitoring in which there is a division of the data oriented with respect to the large group in to small parts and then process takes place in a well efficient fashion respectively[4][5]. Here implementation of the present method is shown in the figure in the form of the block diagram and is explained in the elaborative fashion respectively. There is a huge challenge for the present method in which there is an accurate analysis of the drawbacks of the several previous methods in a well effective manner followed by the theoretical analysis in a well effective fashion with respect to the control oriented strategy of the degradation of the performance of the previous methods in a well effective fashion respectively [8][9].

Here in the present system oriented strategy there is a maintenance of the integrity of the data oriented in the form of the groups plays a crucial role in its coding related to the integrated fashion in the system based application point of view of the processing of the data based extraction plays a major role of the objects missing strategy determination plays a key role in its analysis point of view in terms of the process of the data respectively.

## IV. EXPECTED RESULTS

A comparative analysis is made between the present method to that of the several previous methods is shown in the below figure in the form of the graphical representation and explains in a brief elaborative fashion respectively. A lot of analysis is made on the present method and the huge number of the simulations has been conducted on the large number of the data sets in a well oriented fashion respectively. There is a huge challenge for the present method where it is supposed to improve the performance of the system followed by the overall

system based analysis with respect to the outcome of the entire system respectively. Here we finally conclude that the present method is effective and efficient in terms of the performance based strategy in a well efficient manner respectively.



Figure 2: Hard ware kit

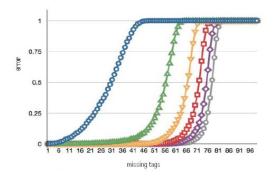


Figure 3: Shows the graphical representation of the present method respectively

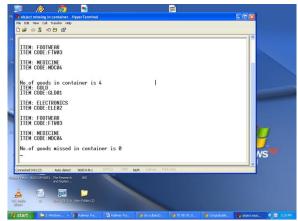


Figure 4: Shows Group decoding in the extended scheme



Figure 5: output result in computer

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### V. CONCLUSION

In this paper a method is designed with a powerful technique it is implemented by the help of the accurate analysis with respect to the entire system based aspect in a well oriented fashion respectively. Identification of the object based on the missing strategy plays a major role related to the exploring of the well effective design oriented phenomena in a well oriented fashion by the help of the radio frequency oriented tags of the coding based on the group oriented fashion in which it is related to the phenomena of the RFID based horizon respectively. Here the objects based on the missing strategy can be identified in a well efficient fashion by the help of the above phenomena in a well accurate manner without the help of the connection oriented network in a well oriented fashion respectively. Here the inspection based on the shipment oriented strategy in which it is related to the well known aspects of the screening of the automated enabling system in a well efficient fashion for the process of the rapid increase in the business based strategy plays a major role respectively. Here the tags oriented with the radio frequency mainly used for the differentiation based aspect in which mainly for the sub division of the main block in a respective approach. Here we finally conclude that the present method is effective and efficient in terms of the performance based strategy followed by the outcome in a well respective fashion.

#### REFERENCES

- [1] S. Piramuthu, "On existence proofs for multiple RFID tags," in ACS/IEEE International Conference on Pervasive Services. IEEE, 2006, pp. 317–320.
- [2] C. Lin, Y. Lai, J. Tygar, C. Yang, and C. Chiang, "Coexistence Proof using Chain of Timestamps for Multiple RFID Tags," Advances in Webnd Network Technologies, and Information Management, pp. 634–643, 2007.
- [3] Y. Lien, X. Leng, K. Mayes, and J. Chiu, "Reading order independent grouping proof for RFID tags," in IEEE International Conference on Intelligence and Security Informatics (ISI). IEEE, 2008, pp. 128–136.
- [4] S. Inoue, D. Hagiwara, and H. Yasuura, "Systematic error detection for RFID reliability," in The First International Conference on Availability, Reliability and Security (ARES). IEEE, 2006, p. 7.
- [5] V. Potdar, P. Hayati, and E. Chang, "Improving RFID read rate reliability by a systematic error detection approach," in 1st Annual RFID Eurasia. IEEE, 2007, pp. 1–5.
- [6] J. Byers, M. Luby, and M. Mitzenmacher, "A digital fountain approachto asynchronous reliable multicast," IEEE Journal on Selected

- Areas inCommunications, vol. 20, no. 8, pp. 1528–1540, 2002.
- [7] M. Luby, "LT codes," in 43rd Annual IEEE Symposium on Foundations of Computer Science. IEEE, 2003, pp. 271–280.
- [8] D. MacKay, "Fountain codes," in IEE Proceedings Communications, vol. 152, no. 6. IET, 2005, pp. 1062–1068.
- [9] A. Shokrollahi, "Raptor codes," IEEE Transactions on InformationTheory, vol. 52, no. 6, pp. 2551–2567, 2006.
- [10] Y. Sato, J. Mitsugi, O. Nakamura, and J. Murai, "Group coding of RF tags to verify the integrity of group of objects," in RFID, 2011 IEEE International Conference on. IEEE, 2011, pp. 200–206.

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