This research has been done at Department of Computer Science, AISECT University Bhopal. It is based on the GSM/CDMA network analysis and navigation along with increment data mining. This research based on conceptual modeling for GSM/CDMA network analysis and navigation methods models, and graph transformation techniques to support sound methodological principals, for formal analysis and fine-tuning. With conceptual model and real level of modeling and simulation, the approach could sound support application development and the research of GSM/CDMA network. In this thesis, the various application of CDRs, GSM/CDMA network data-analysis methods for the processing of the available measurement information is studied in order to provide more efficient methods for performance optimization, CDRs Play vital role of the crime investigation and his is important of the metadata analysis the uses of measurement prediction, information in selection of most useful optimization action have been studied. In this thesis, expert-based methods have been presented for the monitoring and analysis of CDRs cellular network data performance. In this thesis, methods to combine navigation measurement information and the formula of GIS mapping of latitude and longitude to help build new application because accuracy depend on GIS map, navigation predict depend on urban and rural area map. This research work is the improvement of a new CDR network determination method for the localization of a mobile receiver in a cellular communications environment, Call detail records analysis, is fine tune of crime investigation.