



Distributed Polling System (DPS)

Team Members:

Avijit Dutta, Jenis Kavadiya, Farahnaz Yekeh, Rishabh Gupta, Aparna Vijaya, Sajjad Ali Khan

What is DPS?

DPS: A Distributed Software system, helps to make business decisions

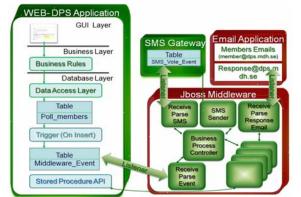
Business Scenario

- Board of directors want to take a business decision
- Members are intimated and response vote are captured through SMS or EMAIL · System automatically calculate and announce results

Benefits:

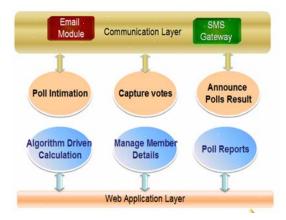
- Efficient algorithms driven voting result calculation and announcem Instant intimation to members located anywhere in the world by SMS or EMAIL

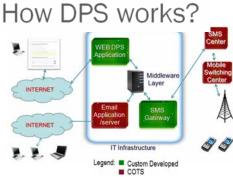
Low Level Architecture



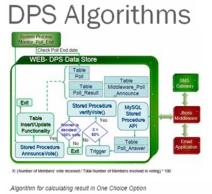
Based on Publish-Subscribe methodology

Major Functionalities





Hub and Spoke architecture, Scalable and loosely coupled. Security Aspects: HTTPS, DMZ, Digital Signature, passwordprotected PDF, capturing IMSI and MSISDN



If (Number_of_Received_Votes > (Number_of_Votes / 2))
{ Max1 = Vote_Count_Of_Maximum_Selected_Option;
Max2=
Vote_Count_Of_Second_Maximum_Selected_Option_Among_Other_Options_Except_Max1; If (Max1> Max2) If (Max1 > (Max2+ Remained_Number_of_voters))
{
 Final_Result= Option_Of_Max1
 announceVotet();
} Outcomes 0 X ... **Defect (Censel)** Sector 1 pol n 🖬 12 Topic ID: 31 MacRed Ba08001@middleware.com hat is the m C Garage

