



E-vote 2011

Use case specification: 4.2 Settlement

Project: E-vote 2011





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1. Executive Summary

The system must facilitate a secure and reliable method for merging of e-votes and p-votes (Calculate total distribution on parties and candidates).

- E-vote results are available for merging on completion of use case 3.4 'Counting e-votes'.
- P-vote results are available for merging at various stages throughout the election. See use cases 3.2 'Manual registration of vote results' and 3.3 'Electronic counting of p-votes'.

The system must be able to use these results for the distribution of seats and returning of members.

Use case 5.1 'Reporting' and use case 'Reporting of results to SSB' describes the output formats required for merged and distributed results.

2. Purpose

The purpose of this use case is to provide merged election results and calculate the distribution of seats for reporting to SSB and media.

3. Actors

Actor	Description
ES	The Election system

4. Pre-conditions

ID	Description	Comments
4.2.1	Use case 3.2 'Manual registration of p-vote results'	
4.2.2	Use case 3.3 'Electronic counting of p-votes'	
4.2.3	Use case 3.4 'Counting of e-votes'	



5. Post-Conditions

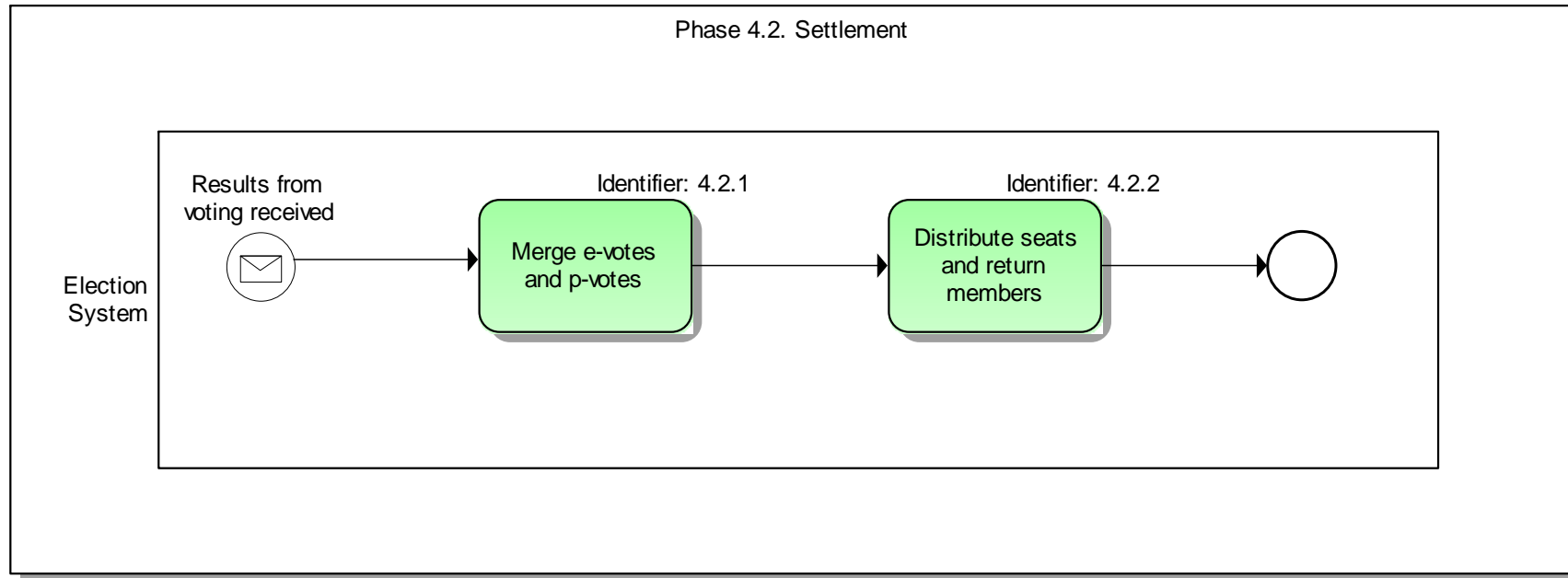
ID	Description	Comments
4.2.4	Merged totals are available in the system	
4.2.5	The returning of seats and members	

6. Triggers

The need for merging e-vote and p-vote results, calculating the distribution of seats and return members.



7. Main Flow - Functional Requirements



7.1. Detailed flow – functional requirements

ID	Actor	Function (Requirement)	Requirement description	Ref
F 4.2.1	ES	Merge e-votes and p-votes	The system must facilitate a secure and reliable method to aggregate e-votes and p-vote results and to calculate a correct result.	
F 4.2.2	ES	Distribute seats and return members	The system shall calculate the correct distribution of seats and returning of members according to a preconfigured method (e.g. St Lagües modified method)	



8. Non-functional Requirements

8.1. Accessibility and usability

ID	Requirement description	Ref
4.2.5	See 'Accessibility and usability requirements	8.1

8.2. Security

ID	Requirement description	Ref
OS0.6	It shall not be possible to insert without proper authorization, delete or modify any votes in the Election System .	0.01

8.3. Rules & Regulations

ID	Requirement description	Ref
4.2.7	This use case refers to regulations described in the Representation of the People Act (the Election Act) chapter 11. http://www.regjeringen.no/upload/KRD/Kampanjer/valgportal/Regelverk/Representation_of_the_People_Act170609.pdf	
4.2.8	This use case refers to regulations relating to parliamentary and local government elections (Representation of the People Regulations) http://www.regjeringen.no/upload/KRD/Kampanjer/valgportal/Regelverk/Regulations_2003_EN_170609.pdf	
4.2.9	This use case also refer to the Council of Europe e-vote Recommendation Rec(2004) 11 . http://www.coe.int/t/dgap/democracy/activities/GGIS/E-voting/Key_Documents/Rec(2004)11_Eng_Evoting_and_Expl_Memo_en.pdf	