



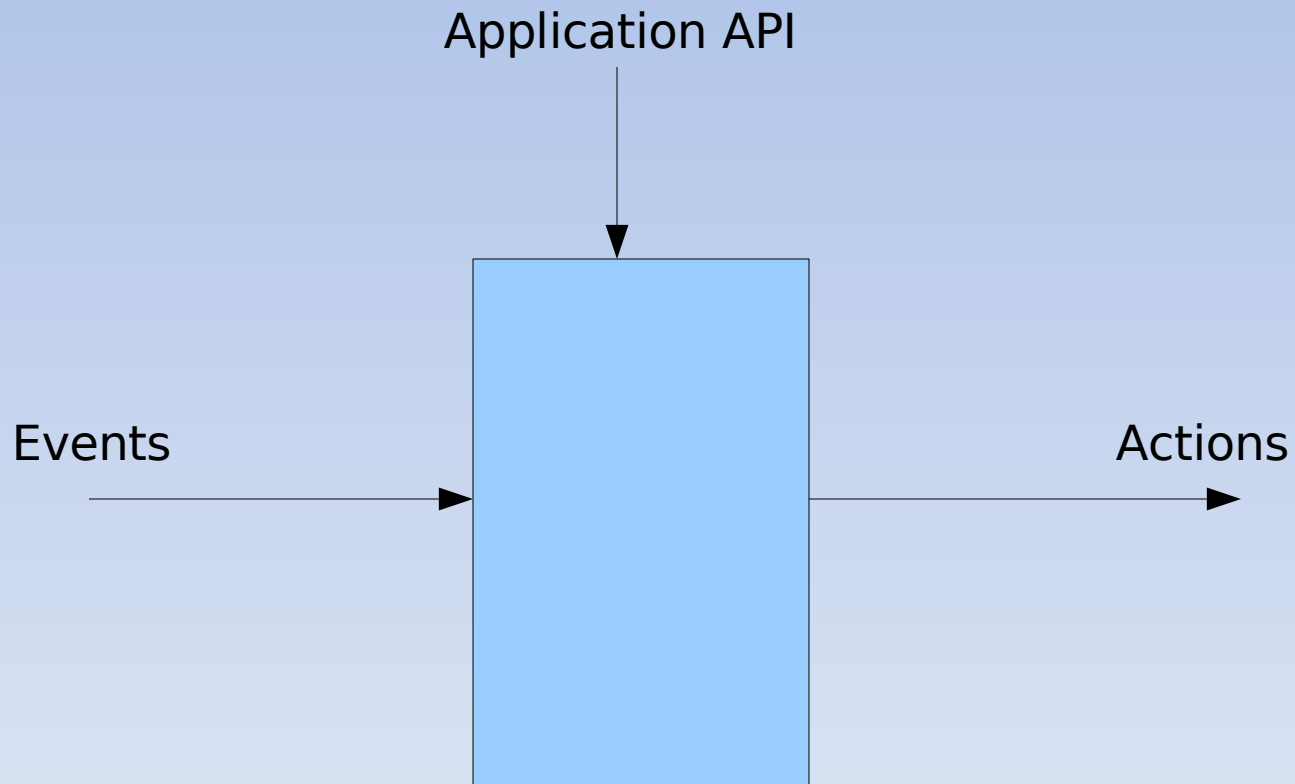
Application Proposal

Evan Korth (ITP Instructor)
Michael Schidlowsky (Google Sponsor)
Andrew Case (Team Liaison)
Sucharita Gaat
Rajiv Sharma
Pradeep Harish Varma



Google Proposal

- Build an Event/Action Handler



Why build an Event/Action Handler?

- Users need a better way to automate how their system handles events that take place and what actions should result from such events.
- User should be able to customize it
- Applications should be able to customize it (with user confirmation)
- Automating how our phone interact with ourselves and our applications provides a more instinctively productive and enjoyable experience



What is an Event/Action Handler

- Applications fire events
- Handler catches events
- Handler looks up it's ruleset and then
- Handler fires off actions for other applications



What is an Event

- Applications fire events
- An event can be any action on the phone that provides some type of message that the Handler can catch using a broadcast receiver.
- Example:
 - If a user adds a contact on their social networking application, that application could then fire off an event notification letting the Handler know that this event occurred



What is an Action

- Handler fires off actions for other applications
- An action can be any type of intent that the phone allows
- Example:
 - If the Handler has been informed by an application that a contact has been added to that application, the Handler could in turn fire off intents to other applications to add that contact to their respective data stores as well

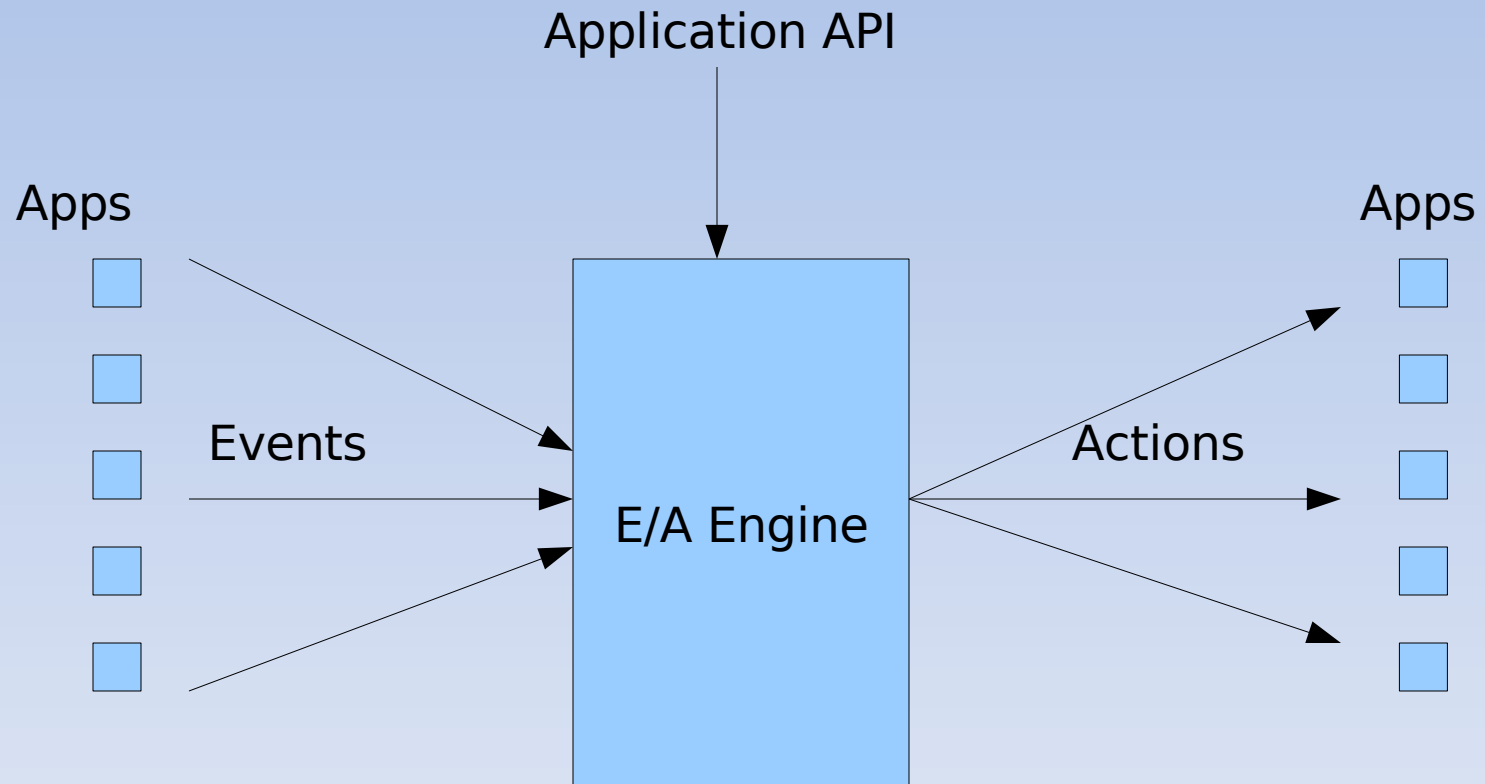


What is the Ruleset

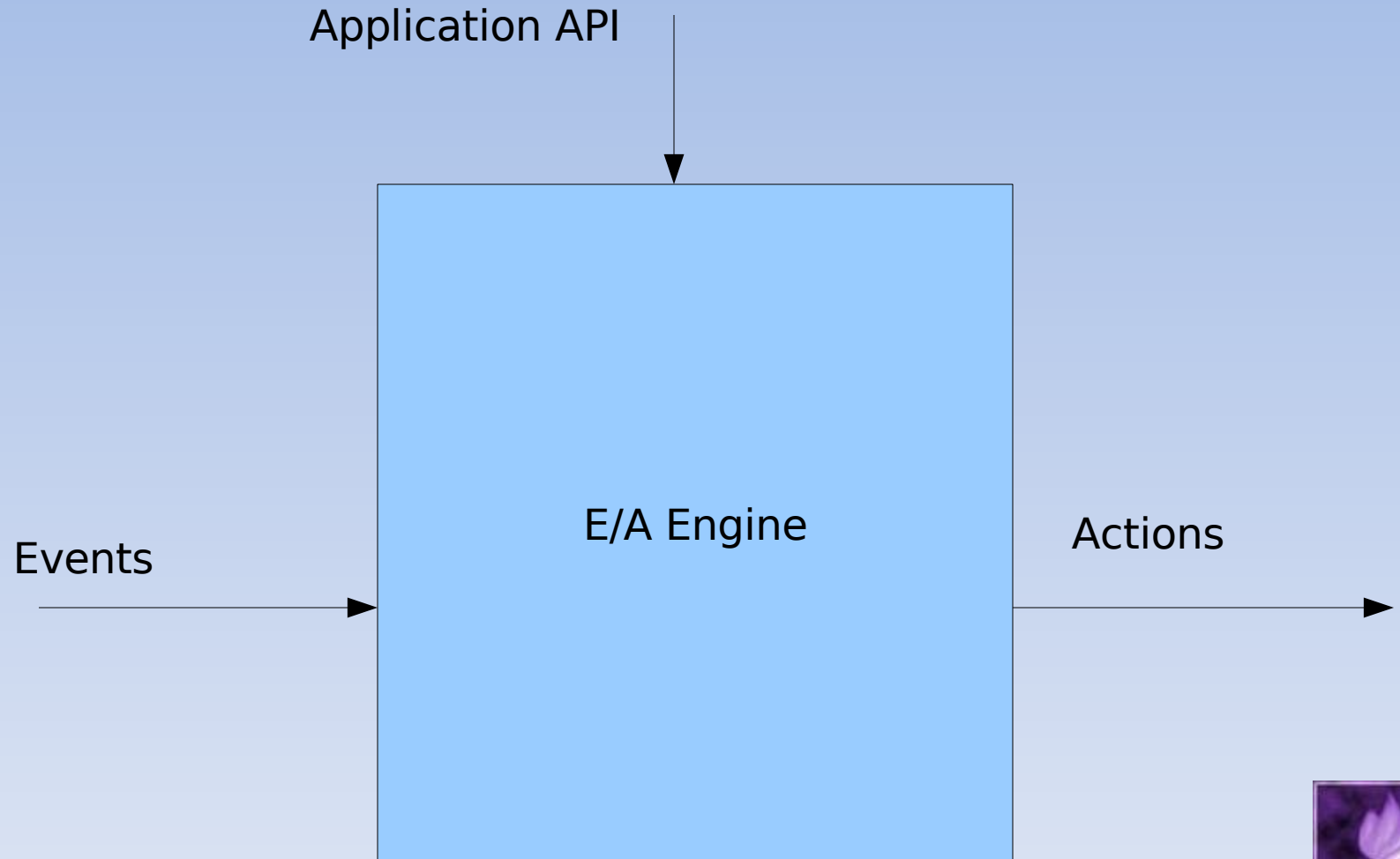
- The ruleset is a database of events and actions
- The Handler looks up its ruleset and fires off actions based on the event that took place and what actions are predefined for that event
- Ruleset is modifiable through both the UI and through the Application API
- Each event can connect to multiple subsequent actions



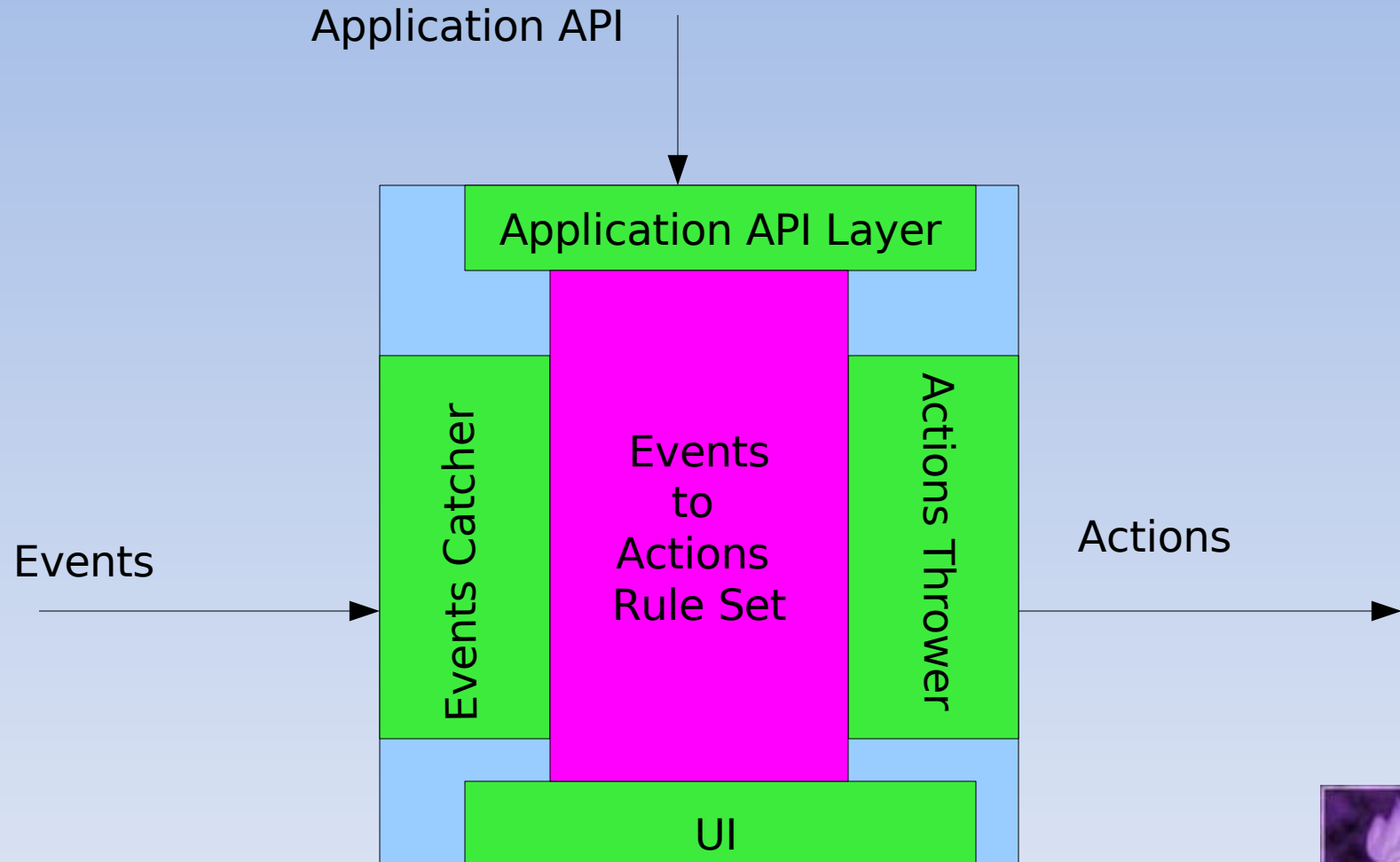
E/A Engine



E/A Engine Architecture



E/A Engine

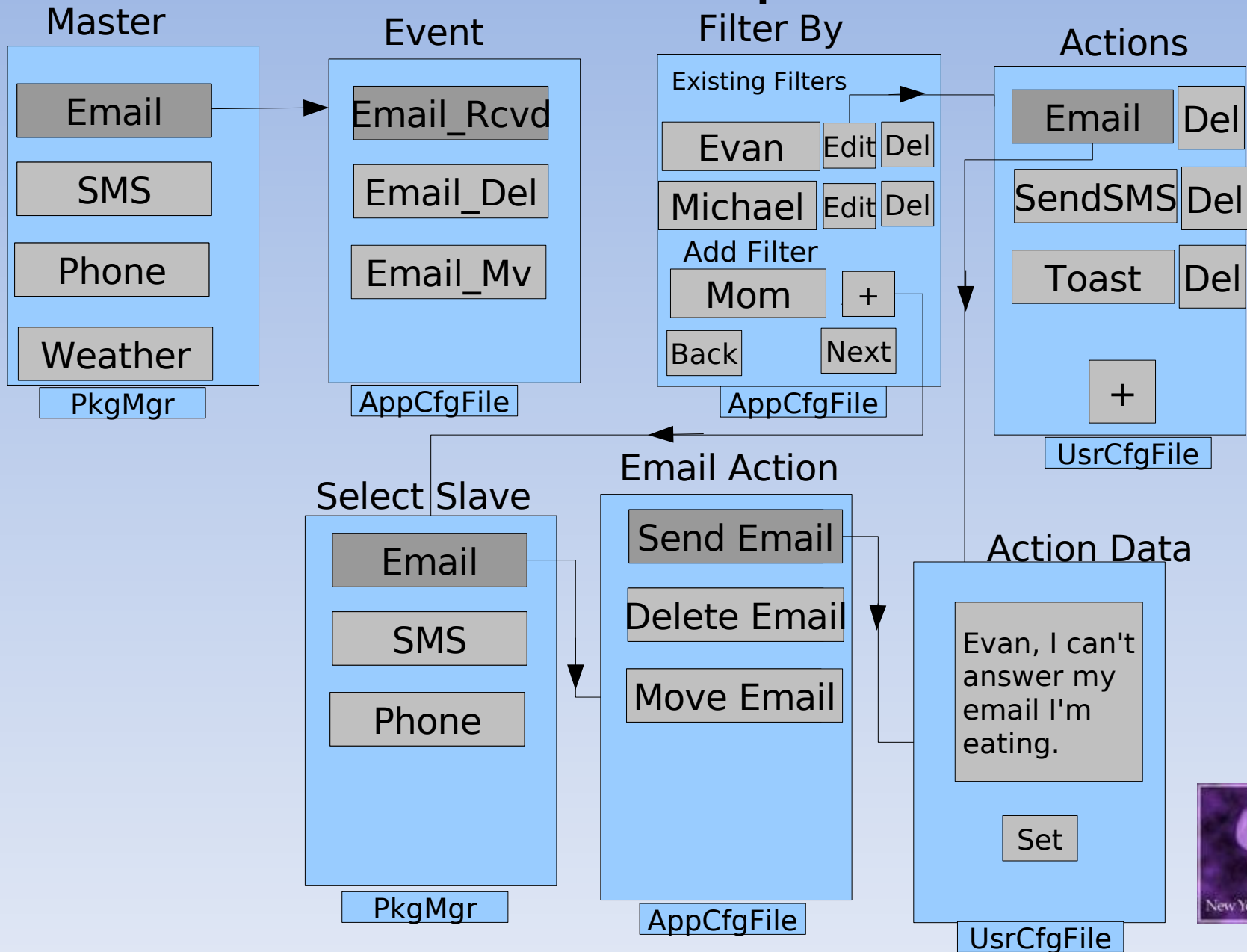


Application API

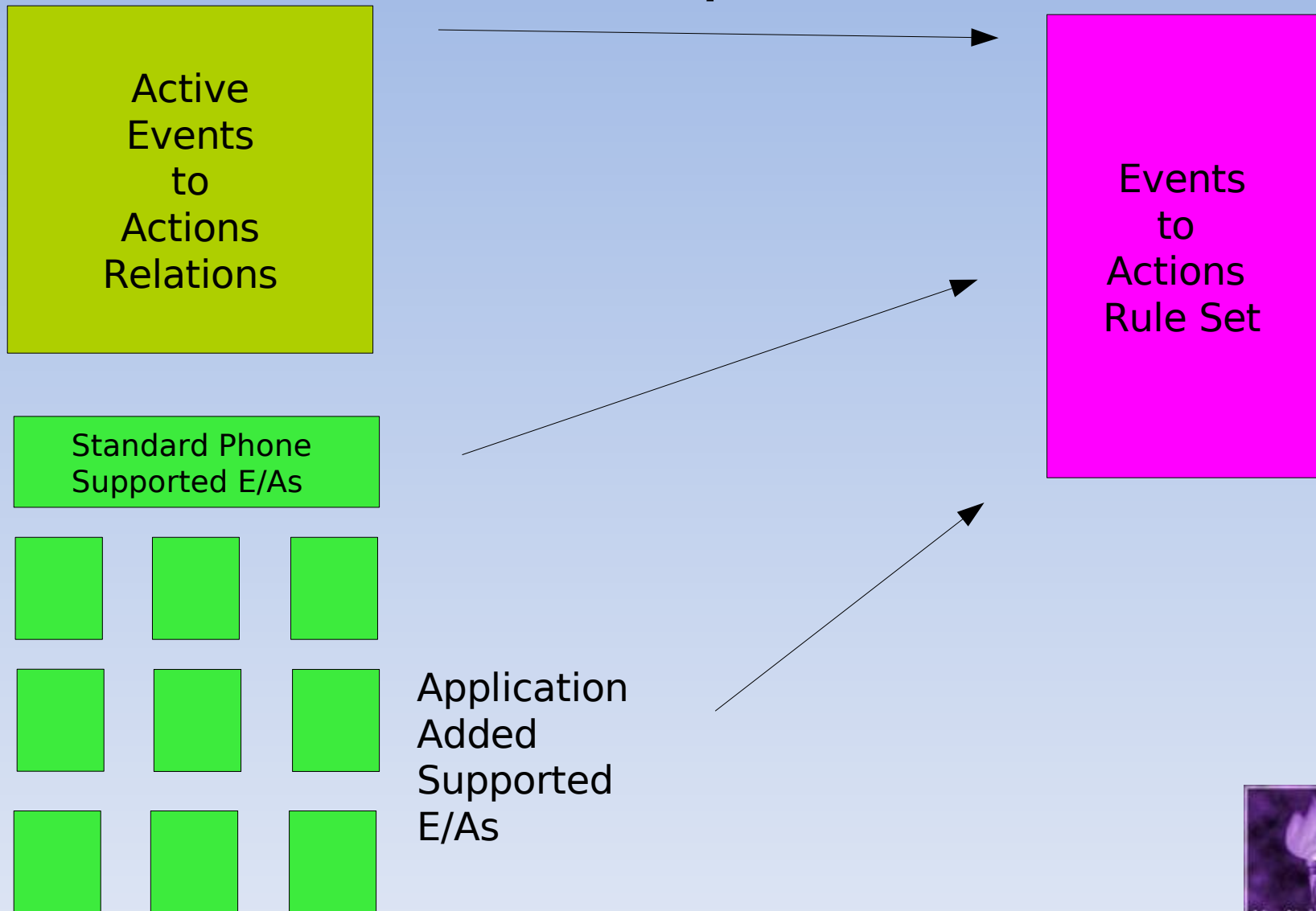
- Applications provide an XML document that lists the events and actions that this application supports.
- This XML document is added to a list of XML documents that the ruleset knows about



UI Example



Ruleset Comprised of...



Questions?

Suggestions?



Questions?

Suggestions?



Thank You

