TECHNICAL OVERVIEW

PROJECT FLOGO

ABOUT THIS PRESENTATION

- Aimed at Developers & Technical Audience
- 2 objectives
 - Understand Flogo Technical Architecture
 - Learn how to develop activities & triggers

TECHNICAL GOALS

- Execute process flows
- Modern Language Go
- Lightweight
- Simple
- Extensible
- Open source

Project Flogo

Ultra Lightweight IoT Apps & Integration



GOLANG-BASED ENGINE LIGHTER THAN JAVA



GROUND-BREAKING
CONVERSATIONAL FLOW UX



AUTO-STEPBACK WEB DEBUGGING

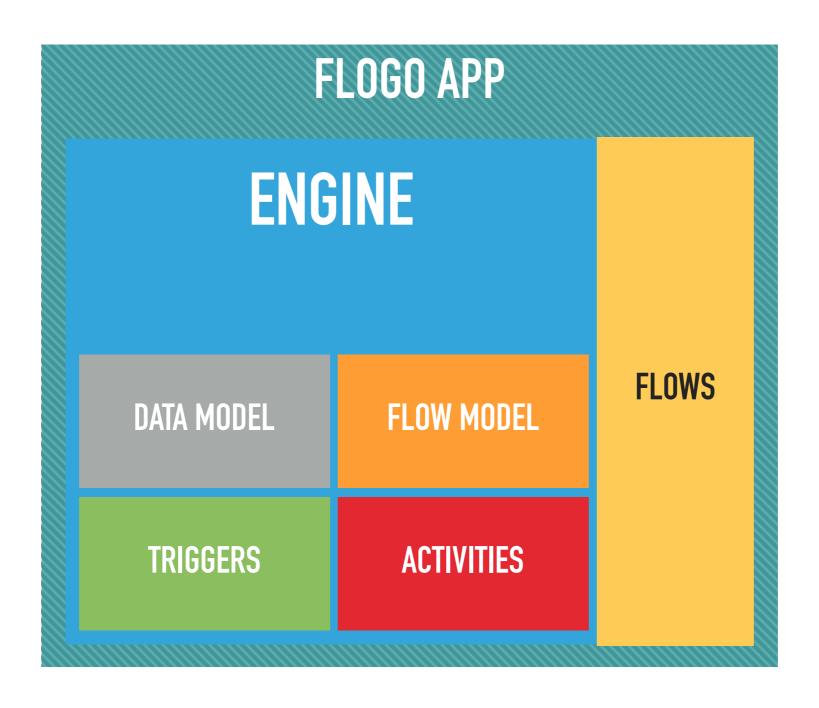


TRUE OPEN SOURCE BACKED BY TIBCO DNA

POSSIBLE APPLICATIONS

- IOT devices and gateways
- Cloud Integration Engine
- Micro service

FLOGO APP



ENGINE

- Flow Execution
 - Pooled pool of goroutine workers
 - Direct goroutine per request
- Extensions
 - Model determines how flow is executed
 - Activities units of work in a flow
 - Triggers kick off flows

DATA MODEL

- Support for Flow and Application level attributes
- Simple Types
 - STRING, INTEGER, NUMBER, BOOLEAN
- Complex Types
 - ▶ OBJECT Similar to JSON Object Map[string]interface{}
 - ARRAY Similar to JSON Array []interface{}
 - PARAMS Special type Map[string]string

FLOW MODEL

- Extension Point
- Determines how/when Activities are executed in flow
- Manages control-flow
- Manages state changes
- Typically only one in an engine
- Only structured process models are supported
 - Examples: BPEL, BW5, InConcert, etc...

ACTIVITY

- Extension Point
- Unit of work in a Flow
- Typical Execution
 - Gets data from Flow
 - Does work
 - Outputs data to flow
- Examples: Log, REST Invocation

TRIGGER

- Extension Point
- Kicks off a flow
- Consists of Endpoints that map to Flows
- Typical execution
 - Receives an Event
 - Determines Endpoint
 - Starts flow associated with the Endpoint
- Examples: Timer, REST, MQTT

FLOW

- The process/flow definition
- Structure
 - Task Houses Activities
 - Link Connects Activities
 - DAG
- Associated with a Flow Model
- **JSON**