

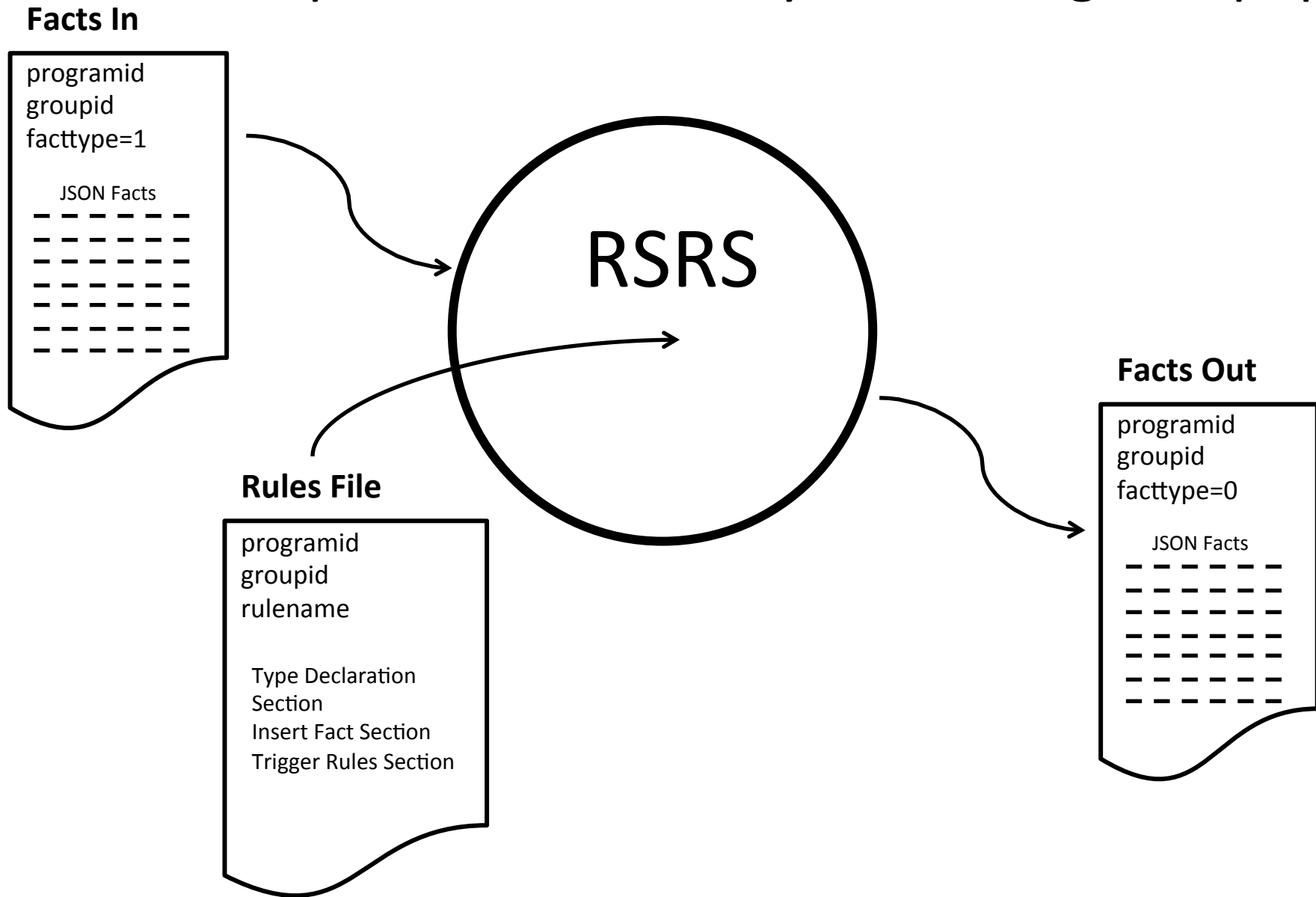
RSRS

Really Simple Rules Service

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<http://www.satimetry.com/NudgeAPI.php>



CRUD BQL

- A really simple rules service that reads and create facts
- Rules engine uses rules file to reason over incoming facts and create new facts
- MVEL rules syntax a Behavioral Query Language (BQL) to facts as SQL is to table
- Fact declarations resolved within rules files leaving request and response as JSON object
- All REST based such that
 - incoming Facts populated by REST call
 - rules execution via REST call and
 - generated output Facts accessible via REST
- Client application decides what to do with created facts

FIFO

- Incoming Facts represented as JSON objects
- Outgoing Facts represented as JSON objects
- Additional Fact parameters include
 - programid: used to provide multi-tenancy
 - groupid: generic convenience key by which to segment facts within programid
- RSRS reasons over incoming Facts using nominated rules file and generates outgoing Facts

REST

- All RSRs are REST based typically take programid and groupid as parameters
- POST /rest/fact to create incoming Facts
- GET /rest/fact/user to get incoming created Facts
- POST /rest/rule to create rule file
- GET /res/nudge to execute rule file against incoming Facts
- GET /rest/fact/system to get rules engine created Facts

MVEL

- Rules file MVEL syntax follows pattern of three basic sections processed in this order using rule salience
 - 1) Type declaration section to define Fact types
 - 2) Fact Rules to insert new facts based on incoming type
 - 3) Business Rules section where rule are processed against facts