

# Consensus v1.1

## Release Notes

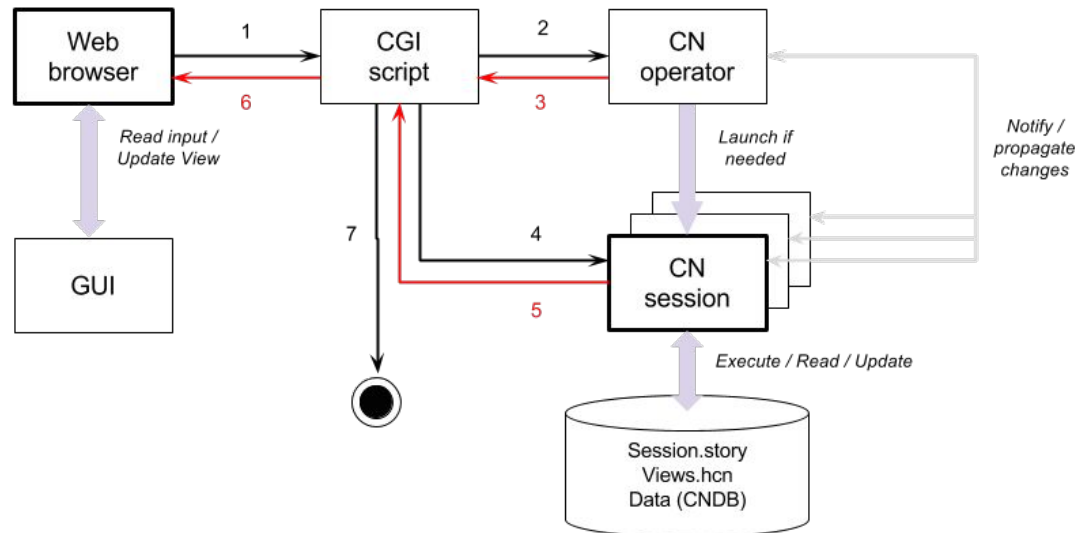
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# Agenda

1. Consensus v1.1 Execution Model
2. Consensus v1.1 Key Features
3. Demo

# Consensus v1.1 Execution Model



1. **Web browser launches consensus CGI script and passes GUI input / form data**  
Note: target CN session name is transported as part of the GUI data
2. CGI script instantiates %value-is->%name triples representing GUI input / form data, and queries target session address from CN operator
3. Operator launches CN Session if not running, and returns target session address (pid)
4. CGI connects with session and notifies changes (GUI input / form data instantiation)
5. **CN session reads %view.hcn according to Session.story and converts into HTML data**
6. Script passes HTML data to Web browser
7. Script terminates, while Web browser updates View

# Consensus v1.1 Key Features

- **Online-editable, Universal data representation model (CNDB)**
  - proprietary interface to create, modify, query and **navigate** *semantic triples*
  - will allow to support code as data, data as code, and/or trace one to and from the other (Requirement Engineering)
- **Online-editable, Extended HTML (HCN) file format**
  - Currently implemented as HTML + in-the-text consensus commands/tags
  - easily customizable to take any file format as input, from which to generate HTML
  - Key to future evolution towards natural language - descriptive part
- **Online-editable, Dependency-based programming language (story)**
  - proprietary entity behaviour & relationship model = *in-on-do* triples (Process Modeling)
  - Built-in change propagation / streaming / on-the-fly data processing (IoT, Analytics)
  - Key to future evolution towards natural language - procedural part
- **Single code base and generic implementation for**
  - Command-Line Interface
  - CGI Script
  - CN Operator
  - CN Session
- **Parallel & distributed execution model, with adjustable granularity**
  - Sessions can be made to spawn their own subsessions and act as operators towards them
  - Real-time (= immediate mode) execution pipeline

Thank you