

Rules as Code experience from the Swedish Tax Agency

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Rules as Code (RaC)

The process of encoding and publishing rules as machine-readable code

- Creates opportunities for integration in business systems and internal Tax agency system
- Includes working for digital friendly legislation





Benefits

- Tax certainty for businesses higher compliance
- New, effective tool for tax experts
- Easy integration in business systems
- Improved service for citizens and companies
- Increased efficiency for government agencies
- Higher legal quality simpler and binary law interpretation (long term)





Swedish tax agency (STA) conclusions

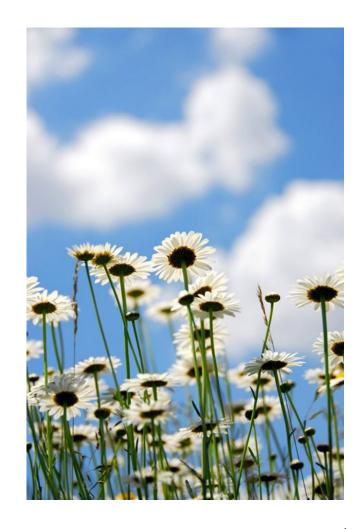
- It is possible to publish machinredable rules, from legal, practical and technical perspective.
- Will lead to higher compliance with STA interpretations.
- It is voluantary for companies and as guidance from STA.
- STA will also publish risks and humanreadable guidance to be used in companies business systems.
- Equal treatment & transparency even more important
- Legal rules as a standalone module, easy to maintain
- Rules as code fits perfectly with AI solutions
- Legal rules will be machine adable and used directly from machine to machine.



The STAs model/solution

A technical solution that enables legal guidance in business systems to facilitate tax compliance

- Don't require specially adapted legislation
- No need for technical staff
- Voluntary to use
- Based on open source
- Applications to be built by others



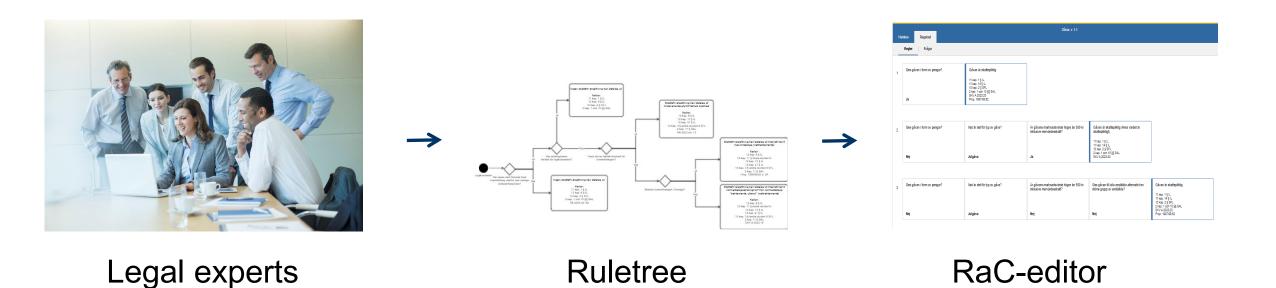


Challenges

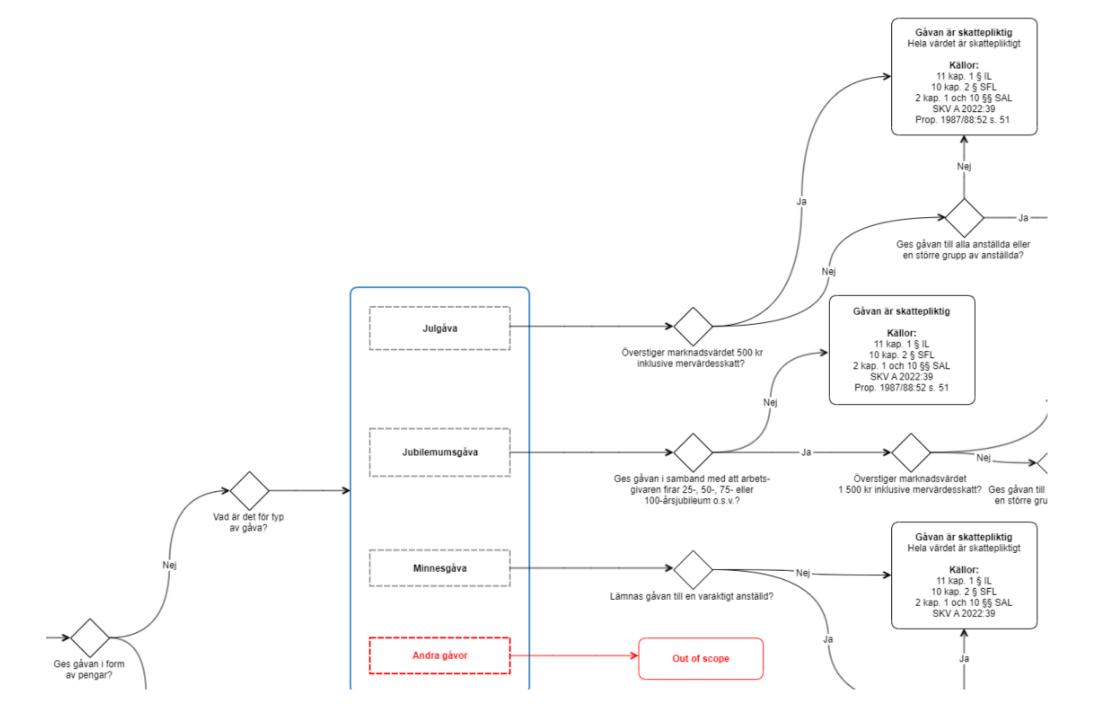
- Are all legislation suitable for Rules as Code?
- Interpretation?
- Responsibility?
- Software providers?



Different steps in the process









The rule transforming process

- Law for IT specialist or IT for legal experts - together rule-editor
- From legal rule to technical rule all by legal experts without hands on from technical staff

- STAs interpretation of the taxlaw
 - upstream near the source (legislator)
- Full transparency, references
- Maintenance



Different steps in the process



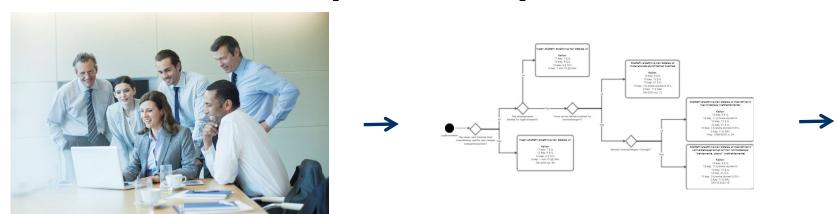




User applications



Different steps in the process



Regine | Frágue

| Trágue | Frágue | Frágue | Frágue | Trágue | Tr

Legal experts

Ruletree

RaC-editor



www.skatteverket.se



User applications



Swedish Tax Agency

Current status

- Four legal areas published as well as an API. Other legal areas and additional API operations is in the works
- Main focus further development of file format in dialogue with software providers (XML with BPMN)
- Continued dialouge with software providers for usage/adaptation.
- Al today More of an usable tool than a replacement
- OECD-project Rule as Code (Tax administration 3.0)

