FeatureList xText EBNF Version 2.0

• Core Features:

- 1. BNF front-end (Parser, Lexer, Linker, etc.)
- 2. translates a textual representation into an Ecore model
- 3. Editor provides IDE features, e\.g\. auto-completion, syntax highlighting, etc.
- Validation Rules: these rules will give warnings in the editor if they find find consistencies in the code
- 1. *checkUpdateGrammarConsistency:* checks, if the grammar is an updated grammar, for consistencies between the originals and the new grammar

status: not migrated

2. *!CheckReferencedOnlyOnce:* this should warn if there is a rule that is only referenced once, this is an inlining hint e.g.:

status: migrated

3. *checkPassthroughRule:* e.g.:this tests if a rule gets just passed through a ::= b b ::= "literal" <=> a ::= "literal" , which is better for EBNF

status: migrated

4. *checkEqualAlternative:* this tests if a rule got equal alternatives e.g.: a::= d | d status: still some problems

status: migrated

5. *checkDuplicateRules:* checks if there is another rule in the EtsiBnf?, that got the same behaviour e.g.: a ::= "literal" | b c ::= "literal" | b

status: migrated

6. checkSubruleDuplicates:

status: not migrated

7. *check unused rule:* it checks if a rule is used (exept for the rule with the number 1)

status: migrated

8. checkNameIsUnique: checks if the nam of a rule is already in use e.g.: a ::= "end" a ::= "fin"

status: migrated

• Generation:

xsl-fo file for all bnf grammars (not for merge or deltagrammars) this can be Rendered to Pdf using apache-fop

• Formatting:

old: had some but they are got commented out in the main project

new: Line-break after every rule, white-spaces after all literals, possible update linebreak and double tab after all >l< bars

• Refactoring & Quickfixing:

- 1. *auto Numbering of rules* -not migrated
- *remove unused rules* -migrated
 replacement of passthree
- 3. *replacement of passthroughRules* -not migrated
- 4. *refactor uppercasetokenRules* -not migrated

5. find references, this one is standard in xtext2.* -renaming, this is standard in xtext2.*

*Grammar composition:

-3 grammartypes:

grammar: normal grammar deltagrammar: different notation for a extension grammar,

adds new rules to a grammar (regular rules)and adds changes to rules of the extended grammar(extension rules) -can be automaticly created

mergegrammar: for merging extensions

-old version had an automatic composition Process, for merge grammars, with a small pop-up-menu.

- at the moment no support in the new version
- Deploying:

export project as Plugin: Plug-in Development/deployable plug-ins and fragments -rcp project with a minimal eclipse editor