

SMART Communications, Inc., New York City, is a developer of *Artificial Intelligence* (AI) software. Our software uses Natural Language Processing (NLP) to monitor texts for vocabulary, grammar, style and syntax. The SMART **MAXit** software lets technical writers create clear, concise English instructions.

Controlled English (CE) is ideal for mission-critical instructions for training and maintenance manuals. Applications include mining machinery, complex software documentation, patient information for medical devices, instructions for security, biometrics and compliance to government safety regulations.

Simplified Technical English (STE) is a global aerospace standard to write Component Maintenance Manuals. The Simplified English reduces human error, makes training faster and operations more efficient. Defense companies and airlines are mandated to use ASD-STE100 within S1000D and ATA iSpec 2200.

The **MAXit Checker** and Adobe FrameMaker makes authoring fast and easy. The **MAXit Checker** includes a controlled vocabulary and 17,000 Artificial Intelligence rules. **MAXit** can check both plain and structured (XML) documents at *one page per second*.

What is the size of a controlled dictionary?

A *controlled English dictionary* can range from 5,000 to 8,500+ terms, or *1% of the English language*. A domain-specific vocabulary removes ambiguity and increases readability for readers in 149+ countries.

The MAXit Checker software

The **MAXit Checker** uses multiple dictionaries linked to 17,000 *Artificial Intelligence* (AI) rules. The rules guide the writer with interactive suggestions from a simple **left-mouse** click. The **MAXit Checker** can analyze texts with custom dictionaries. A *Six Sigma* quality measurement tool (*poka yoke*) guides the writers to create high-quality documentation.

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The Results ...

A controlled vocabulary creates texts that are clear, concise, consistent and *easy to understand*. The benefits include improved *customer satisfaction* and cost savings through avoidance of human error.

MAXit Checker Plug-in for Adobe FrameMaker

- Adobe FrameMaker 9.0 to 2020 (Plain and XML)
- Available for Windows 7.0 or 10.0 32/64-bit.

Features of the MAXit Checker for FrameMaker

- Checks abbreviations for correct capitalization style.
- Makes full-sentence grammatical and syntactical analysis.
- Processes text by paragraph, page, table or document.
- Suggests verbs that are easier to translate and understand.
- Shows a list of words that are NOT FOUND in the MAXit dictionaries.
- Creates reports for six sigma quality control and documentation audits.
- Navigates hypertext links, cross-references, indexes, graphics and tags.
- Marks adverbs that do not modify verbs, or can be deleted.
- Marks nice-to-know versus need-to-know phrases.
- Marks awkward, complex, pretentious and idiomatic English.
- Checks sentence length, procedures 20 words, descriptions 25 words.
- Displays errors detected from 17,000 AI rules in 40 message classes.
- Complies to 508 Web Usability and Plain Language standards.
- Validates product terminology and trademarks.
- Checks text for possible translation problems and suggests alternatives.
- Checks sentences for noun-to-verb agreement and missing references.
- Marks gerunds (-ing verbs) that cause problems.
- Checks for correct verb negation and double negative statements.
- Ignores text inside selected tags, for example, <comment>, <warning>.
- Navigates structured FrameMaker and DITA formats.
- Validates Component Maintenance Manuals for STE and S1000D.
- Marks phrases that can cause a risk for product liability (might, fail safe).
- Suggests alternatives for words that have the wrong meaning.
- Matches and marks preferred spelling, including British and American.
- Validates instrument labels for type style, for example, OFF switch.
- Uses a simple **left-mouse click** to see the **MAXit messages**.
- Identifies phrasal verbs, for example, lit up, carrying out, opt in.
- Marks wrong suffixes (-ous, -ness) and wrong prefixes (mis- and un-).
- Marks and suggests the use of hyphens, for example, 64-bit system.
- Marks apostrophes and possessive nouns for translation.
- Identifies technical jargon, including medicalese and legalese.
- Marks missing references and antecedents, for example, "it," "they."
- Marks missing commas and shows where commas must be inserted.
- Marks all gender pronouns and references, for example, "he" and "she."
- Marks passive voice and suggests active voice for clearer sentences.
- Marks nouns used as verbs that cause comprehension problems.
- Marks noun clusters and phrases to delete without loss of meaning.
- Suggests where to insert articles (a, an, the) to increase readability.
- Shows a list of synonyms with a **click-to-insert** dialog box.
- Includes a Metric Conversion tool for dual dimensions.
- Includes a Word Finder tool and a Word Counter tool for translators.