

# SMART MAXit AI Agent for Simplification of Technical Documentation and Training Materials



- Artificial Intelligence and Natural Language Processing
  - ASD-STE100 Simplified Technical English (STE)
  - Aerospace and Defense S1000D publishing
    - Automated Language Translations

**SMART**  
COMMUNICATIONS, INC.

*Complexity to Simplicity*

## SMART MAXit AI Software and Language Simplification Services

- Experts in ASD-STE100 Simplified Technical English (STE)
- Design of simplified technical publications for tablets and mobile devices
- Technical writing services, consultation, writer training, ITAR audits
- Text mining, electronic publishing (.xml), Natural Language Processing (NLP)
- Safety management systems, Six Sigma quality Standards
- Software tools for S1000D, ATA iSpec 2200, Mil. Spec., Artificial Intelligence (AI)

### Complexity to Simplicity - Visit [smartny.com](http://smartny.com)

The SMART team has 22+ years experience with the successful implementation of STE programs for a product or service.

### ASD-STE100 Dictionaries - Visit Simplified English

The ASD-STE100 Simplified Technical English (STE) standard is issued by the Aerospace, Security and Defence Industries Association of Europe (ASD). This global standard provides a “*core*” vocabulary of 985 common words for aerospace maintainers. Companies add their technical terms to create a **custom dictionary**. A typical custom dictionary has approximately 8,500 technical terms.

### SMART Language Engineering Services - Visit Smart Services

The SMART team uses the **SMART Text Miner** to analyze technical information, identify writing patterns, develop taxonomies, custom glossaries and synonym lists. The text mining results are used in the **MAXit Checker**, eLearning tools, Help Desks, machine translation, Natural Language Processing (NLP), AI Prompt engineering and terminology standardization.



### The MAXit Checker - Visit [MAXit Checker](#)

The **MAXit Checker** is an AI-powered text critique tool. The program has 19,000 AI rules (*inferences*) and custom dictionaries to validate texts for STE compliance. The **MAXit Checker** is a plug-in to Adobe FrameMaker, Microsoft Word, PTC Arbortext Editor (.xml), XMetaL. The **MAXit Checker** shares dictionaries for terminology standardization and global collaborative authoring. The **MAXit Starter Kit** makes the implementation of STE programs fast and simple.

### The SMART Lexicon Manager - Visit [Lexicon Manager](#)



The **SMART Lexicon Manager** is a companion program to the **MAXit Checker** to manage the custom dictionaries. The program is designed for use by non-linguists. There are two *easy-to-use* data entry screens that let users add, change or delete an entry in seconds. The program has functions to create word lists, reports and view the content of the dictionaries.

## ASD-STE100 Simplified Technical English (STE)

The text below shows the *original* procedure and rewrite in ASD-STE100 Simplified Technical English (STE). The text is from a real aviation event. The **MAXit Checker** reads the text and marks compliance errors. The writer clicks a color to see contextual suggestions to edit-in-place.

### **Mid Cabin Exit Door Plug - Operation**

**After** the removal of the fuselage lining and the body insulation, remove the upper guide track bolts from the upper guide track fitting **then** remove the vertical movement arrestor bolt from the lower hinge guide fitting. While **holding** the door **down** with a **suitable** force so the door does not move **during** the process.

Push the top of the door plug up **so that** the upper guide fittings **clear** the upper guide rollers. The lift assist spring **ensures that** the door plug will not **fall back** to the closed position. The door plug will stay in this position until a small **outboard** force is applied to the top of the door plug. When the force is applied, the door plug will fall to the open position. The two strap assemblies will **limit** the door plug **opening** to an approximate 15-degree angle.

### **737-9 SYSTEM DESCRIPTION SECTION - 52-23-00**

#### **MID-CABIN EXIT DOOR PLUG - OPERATION**

1. Remove the passenger cabin lining and insulation. (Ref.nn.nn.nn)
2. Remove the two bolts from the upper guide track assembly.
3. Remove the two movement arrestor bolts from the lower hinge assembly.
4. Push and hold the top of the door plug so that the upper guide assemblies move over the upper guide rollers.

Note: A spring keeps the door plug in position until a force is applied to the top of the door plug. The force moves the door plug to an open position. Two straps keep the door plug in position at an angle of approximately 15 degrees.

## Features of the MAXit Checker

- Checks abbreviations in long and short form.
- Processes text by <tag>, text selection, paragraph, table cell or document.
- Suggests valid STE verbs and terms for errors.
- Shows terms that are NOT FOUND in the dictionaries.
- Creates six sigma QA and readability reports.
- Navigates hypertext links and references.
- Marks nice-to-know text that can be removed.
- Marks awkward and complex English.
- Checks sentence length, 21-24 words.
- Checks subject agreement, noun to verb.
- Marks gerunds (-ing) that cause legal problems.
- Navigates HTML, XML and .dita codes.
- Marks language that can cause a risk or failure.
- Marks words that have the wrong meaning.
- Matches to preferred spelling and style.
- Identifies problem phrasal verbs and prepositions.
- Marks wrong prefixes and suffixes (non-, -ize, -ness).
- Marks apostrophes and possessives.
- Identifies and marks technical jargon for correction.
- Marks passive voice to convert to active voice.
- Marks nouns incorrectly used as verbs.
- Marks word clusters that cause translation problems.
- Suggests where to insert definite (the) articles.

The SMART team has successfully adapted STE, with modifications, to these industries: Automotive, Autonomous and Electric Vehicles, Mining Machines, Aerospace (Drones), Wind Power, SatCom, Cyberspace, Banking Software, Finance, Civil Engineering, Semiconductor Manufacturing, Education, Law Enforcement, Healthcare, Medical Devices, Telecom 5G and Satellite Navigation, Hydrogen Fuel Cells, Pharmaceuticals, Robotics, Process Control, Oil and Gas, Software Engineering, Information Technology and Consumer Electronics. The Plain English version is used by Federal and State Government agencies to comply with Plain Language and Limited English Proficiency regulations. The US Department of War mandates STE and ITAR compliance.

## The Company



Smart Communications, Inc., New York, is a software developer with 22+ years of experience in Artificial Intelligence (AI), Natural Language Processing (NLP) and language simplification.

Our **MAXit Checker** is an AI-powered program that *Simplifies* complex technical information for easier and faster comprehension and avoidance of human error during maintenance.

The company is a leading developer of software tools for *ASD-STE100 Simplified Technical English (STE)*, a global standard mandated for aerospace and defense. Visit Simplified English.

The SMART team developed **Controlled English** from **Simplified Technical English** to benefit non-aerospace products. Visit Controlled English.

The SMART team has partnerships with Microsoft, IBM, Nvidia, Adobe and PTC to link to their professional publishing systems. Our team includes technical writers, software engineers, linguists, eLearning training specialists, technical translators, data scientists and electronic publishing consultants.



The **MAXit Checker** uses *Natural Language Processing (NLP)* and 19,000+ rules to help technical writers comply to the ASD-STE100 *Simplified Technical English (STE)* standard. This standardized vocabulary decreases the risk of human error through

*miscommunication* of aircraft maintenance procedures. The results are clear, concise, accurate and easy-to-read instructions for maintainers in 149 countries. Visit MAXit.

## Our Skills in Global Aerospace and Defense

Our SMART team understands S1000D (MRO manuals), S3000L (Logistics), Aviation English (Flight Operations and Drones), Military Standards, .XML, .dita, ASD-STE100, ATA iSpec 2200 and ITAR. Defense industry clients are US Army, US Navy, USAF, BAE Systems, Northrop Grumman, RTX, Airbus, Boeing, Leonardo (USA), Honeywell, Safran Power and Lockheed Martin.

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