

Markup Languages (GPML, NPM-XML)

1. Introduction

Specifications for markup languages, such as extensible markup language (XML) and generic product markup language (GPML) are written in this document. As for XML, specific language for nuclear plant product model (NPM), NPM-XML is described. In this English version document, GPML descriptions are deleted while Japanese version document has, because its use is very limited.

The objectives for using markup languages for NPM are to read / write NPM data for engineers and to check the data with computers. With those languages, the data is written in the form of text strings, not binary data. Thus, with those natures, the understanding of the NPM data is easy for engineers, and the persistent storage of data is guaranteed.

As for GPML, it is developed in the process of GPM developing phase. Therefore the tools and experiences for GPML are very limited. On the other hand, XML is standardized in World Wide Web Consortium (W3C), and it is very popular in the WWW domain and a lot of tools and experiences for XML are developed and easily available. However these two languages are used for the externalization of the GPM data and there are limitations for the ability of expressions.