
mdsplus Documentation

Release latest

Aug 25, 2023

Contents

1	Index of MDSplus manuals	3
----------	---------------------------------	----------

\anchor mdsplus_manual

\attention The MDSplus source documentation is in beta stage, for a complete general description of MDSplus please refer to the [Mdsplus site](#).

\htmlonly

Welcome to MDSplus software manual. MDSplus is a set of software tools for data acquisition and storage and a methodology for management of complex scientific data. MDSplus allows all data from an experiment or simulation code to be stored into a single, self-descriptive, hierarchical structure. The system was designed to enable users to easily construct complete and coherent data sets. The MDSplus programming interface contains only a few basic commands, simplifying data access even into complex structures. Using the client/server model, data at remote sites can be read or written without file transfers. MDSplus includes x-windows and java tools for viewing data or for modifying or viewing the underlying structures. Developed jointly by the Massachusetts Institute of Technology, the Fusion Research Group in Padua, Italy (Istituto Gas Ionizzati and Consorzio RFX), and the Los Alamos National Lab, MDSplus is the most widely used system for data management in the magnetic fusion energy program. It is currently installed at over 30 sites spread over 4 continents. The MDSplus developers hope that MDSplus may prove to be a valuable tool for research at your site.

Index of MDSplus manuals

This is the main MDSplus manual, it aims to provide an guide to the MDSplus software components. The following is a table of the currently documented components, please note that some manuals are yet in development stage so the overall software coverage is actually limited. To get a more complete reference of the MDSplus tools and of the components not shown here please refer to the [Mdsplus site](#).

Brief description	Reference manual
\subpage mdsshr_manual	\ref lib_mdsshr
\subpage tdishr	not written yet, ref to Mdsplus site
\subpage treeshr	not written yet, ref to Mdsplus site
\subpage mdsip_manual	\ref lib_mdsip
\subpage mdsobjects_cpp_manual	\ref lib_mdsobjects C++
\subpage mdsobjects_py_manual	\ref lib_mdsobjects Python
\subpage mdsobjects_java_manual	\ref lib_mdsobjects Java
\subpage mdslib_manual	\ref lib_mdslib
\subpage javascope_manual	\ref lib_javascope

[\page mdsplus_components](#) MDSplus Components [\page data_types](#) Data Types [\page use_docs](#) Appendix A - generate documentation