

High Level Overview of MSBase Software Applications v2







Registry MDS (MSBase Data Entry Solution) iMed Originally an ongoing longitudinal, MDS, launched late 2017, is the new MSBase Launched in Jan 2000, iMed is used in **System** observational database that commenced in flagship application for Data Entry installed as over 1000 Centres globally, and is a 2004, more recently modernised to be stand-alone, peer-hosted or network (SQL prevailing electronic system for storage available as an Online Web Platform. server) within the centre. Data from and management of MS Patient data. Codified patient data collected by MSBase consented, enrolled patients are uploaded to Data can be uploaded to the Registry Members is pooled in a secure, cloud-based the Registry using seamless integration via a via manual export, and in more recent SQL DB, hosted by Microsoft Azure and synchronisation mechanism. This can be set versions, via direct push (sync). Note available to participating clinicians for research to manual or automated. that support for version prior to 6.7 will purposes. no longer be supported after 2022. Online User Portal accessible to New, User-friendly Data Entry Forms Intuitive, well-known legacy UI **Key Features** authenticated MSBase Members Multi-user & network capabilities Multi-user & network capabilities --Enables creation, management and joining **Reporting Module** Reporting Module of Sub-studies - utilising observational Advanced Search Functionality Search capability -Extensible via Flexifields data only. Extendible via Flexifields Role-based Access Management (Principal Interactive Patient Overview Graph Patient Overview Graph -Investigator - PI, Co-PI, and Investigators -View & Filter Centre statistics Automatic EDSS Calc I and Member) Automatic EDSS Calculator Can migrate to MDS _ Patient database containing over 80 000 Can accommodate iMed Imports patient records as of April 2022 New features incorporated -Enterprise-class encryption using windows **Key Benefits** Modernised UI and improved navigation Multilingual (13 Languages) Azure SQL Data encryption Easy & quick installation and speed Benchmarking of observational, real-world Improved Data quality through inbuilt Easy to use validation checks New iMed User Portal and users data Dynamic and evolving collaborative study MedDRA standardised medical are required to register. iMed v7 has MedDRA integrated. group terminology integrated Seamless integration to Registry via API



iMed vs MDS – Fundamental Differences

iMed	<u>MDS</u>
20-year-old legacy clinical data collection system	Modernised data collection tool built using newer web technology
Installation of iMed for multi-user environments is simpler and faster.	The MDS installation process can be complex, involved, and nuanced for multi-user environments.
Slower processing, especially on a network / multi- user environment, due to large number of patient records indexed using flat files (Hyper file DB) - generating heavy network traffic – Also potential for records to get "locked" (Better for smaller centres)	Faster speed and processing with SQL Database server engine, architecture ensures optimised use of indexing and DB resources. The system is designed for better multi-user support, although it is complex in design. (<i>Better for larger centres</i>)
iMed is not integrated directly to the MSBase Registry, data uploads require a more manual "user- driven" process and requires improvement going forward. The new "Send now" feature available to MSBase Members does however make this easier.	Tighter, seamless integration directly with the MSBase Registry. Synchronisation of patient data up to the Registry is very simple and can be set to manual or automatic.
iMed recently implemented MedDRA in Version 7.0	MedDRA standardised medical terminology integrated
Multi-lingual capability – iMed is available in 13 languages presently, and its use is also more widespread.	Multi-lingual capability does exist, but needs more work to be on equal footing with iMed (Long-term roadmap)
MGBase is not available in iMed and is not on the roadmap for future development.	MGBase is live and fully operational in MDS and has its own Registry – mgbase.org
Older, but trusted and reliable system for capturing, collecting, and managing MS patient data. Fairly easy to maintain and update.	Newer, modernised collection tool for MS Patient data with some newer features and advanced functionality, although currently only used in 40 centres globally, the system is still being stabilised as teething issues are worked through.
There are no plans for "sunsetting" iMed, MSBase will continue to maintain and support iMed for the foreseeable future. For Governance / IT Security / Access reasons, some hospitals that already use iMed, may want to continue using iMed and MSBase will support this as far as possible.	Following the Governance, Legal and IT Security review processes, if a Centre can successfully migrate to MDS and use it, these centres can then take advantage of the new features and functionality built into MDS over the past 2-3 years.

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New modules added to iMed	New modules added to MDS
- New Pregnancy module (EUROCAT classification)	- New Pregnancy module (EUROCAT classification)
- NMO / NMOSD module	- NMO / NMOSD module
	- MG (Myasthenia Gravis)
	- Integrated with Floodlight MS, MS IMPROVE
	(MSPT and MSReact Tests) also Icometrix (QMRI
	Metrics)
	- Corticosteroid / Variable Dosing Schedule
	functionality

Key Module / Feature Differences: