Version	Date	Comments
1.0	30 September 2022	-
2.0	18 July 2025	Update minimum connection speed requirements, update terms and addition of requirement that the solution must not incur a cost to other suppliers
2.1	01 September 2025	Remove CFR012

DMS Data Transfer - Cross Functional Requirements

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The cross-functional requirements aligned to the uplift of the Data Migration Overarching Standard to mandate the use of internet-based data migration.

Glossary of Terms

The Data Transfer Mechanism	The commercially available off the shelf or developed software adopted by the supplier to coordinate the migration of practice data.
The Migration Pipeline	The network or internet service responsible for migration of practice data.
The Protocol	The protocol which the Migration Pipeline utilities for data transfer.

Cross-Functional Requirements

ID	Requirement	Category	MoSCoW
CFR001	The network should be capable of having a minimum available synchronous link speed of 350 Mbps supporting a transfer of 1tb in < 7 hours.	Performance Efficiency	M
CFR002	The Data Transfer Mechanism should have the ability to resume the transfer process from last verified file transfer.	Recoverability	S
CFR003	The Data Transfer Mechanism should perform the verification of data integrity by employing checksum verification per file.	Reliability	M
CFR004	The Data Transfer Mechanism shall be able to handle rolling back of transactions in the event of errors, in a manner which ensures integrity and consistency of the solution.	Recoverability	M
CFR005	The payload should consist of no more than 1 Electronic Health Record (EHR) per file, and no more than 1 document per file. Documents should not be embedded within the EHR.	Recoverability	S
CFR006	The Data Transfer Mechanism should support multithreaded transfer.	Performance Efficiency	M
CFR007	The protocol should support compression at a protocol level.	Performance Efficiency	S
CFR008	The protocol must use TLSv1.2+	Security	M
CFR009	The Data Transfer Mechanism shall use Role Based Access Control (RBAC)	Security	M

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CFR010	The Data Transfer Mechanism shall support pull-based interface integration allowing target suppliers to control the receipt of data.	Interoperability	S
CFR011	The Data Transfer Mechanism may employ Message-Oriented Middleware (MOM) for interface integration.	Interoperability	S
CFR013	Messages received on any interface shall be prioritised and processed in the order in which they are received on that interface.	Interoperability	M
CFR014	The Data Transfer Mechanism shall be capable of being updated with changes within timeframes outlined by the GPITF Service Management Framework. This will include the deployment or reconfiguration of new or additional infrastructure resources such as servers, databases, network, and security devices into a selected environment.	Maintainability	M
CFR015	The Data Transfer Mechanism shall maintain an audit trail of file verified, transfer begin and transfer end events.	Maintainability	M
CFR016	The use of proprietary data formats within The Data Transfer Mechanism shall be avoided in preparation for future structured messaged formats.	Interoperability	S
CFR017	Data in motion between the target and source suppliers shall be communicated via a secure, high-speed network referred to as the Migration Pipeline.	Interoperability	M
CFR018	The Migration Pipeline shall facilitate the connection of source to target supplier regardless of the infrastructure or hosting solution (e.g., data centre or cloud-based).	Interoperability	M
CFR019	Latency across the Migration Pipeline shall be 200ms or less, including during periods of peak data throughput.	Interoperability	M

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CFR020	Latency across the Migration Pipeline shall be measured using a declared and agreed method. A round trip is measured by the local clock in the pinging system, from when the request left to when the reply arrived.	Interoperability	M
CFR021	The Migration Pipeline shall be flexible to accommodate periods of increased network traffic volumes without the need to upgrade to a costlier bearer service.	Interoperability	M
CFR022	Ubiquitous patterns, protocols and architectural styles of interoperable machine-to-machine interactions between data exchange gateways network shall be supported, for example RESTful web services.	Interoperability	M
CFR023	The Migration Pipeline shall conform to the requirements outlined in the Hosting & Infrastructure Overarching Standard.	Interoperability	M
CFR024	The Data Transfer Mechanism shall conform to the requirements outlined in the Interoperability Standard.	Interoperability	M
CFR025	The Data Transfer Mechanism shall not require suppliers to purchase software to use it.	Interoperability	M

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