

**Lineage:**

- Initial version prepared by Bruce, Nov 2014

**User Story****5.1 Ingest and Extract****Version: 0.1****==== User Story 2 ==== 4.3.2****Related components:** 5.1**Related User Stories:** CDMS Config – New Data Product Approval

A Climate Data Manager requires functionality to ingest climate data into the Climate Database and when required to extract that data.

Data Ingests operate in accordance with defined Business Rules and may be run either manually, or as scheduled tasks with support for automated, self-recovery.

Each data ingest has functionality to:

- ingest a range of data types, including WMO Traditional Alphanumeric Format and Table Driven Code Format; Automated Weather Station observations; spatial data; and a range of historical and emerging data types.
- address a range of Intellectual Property, Data Provenance, Observations Metadata and related issues.
- where appropriate, perform limited Quality Management Consistency Checks on each message and define the initial quality assurance flag for each record based on that assessment.
- import atmospheric climate observations data and observations metadata from selected Climate Data Management Systems.

Functionality is also required to:

- transform data from one data type to another
- extract climate data into defined WMO Data Products and also into a limited subset of other data types, dependent on the context of the data.

**==== End =====**

*Reference: WMO 1131*