RMIB GERB Processing: Requirements

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CHANGE RECORD

Issue	Date	Approved by	Reason for change
Draft version	24/01/2000		new document

1   Introduction

1.1   Purpose of this document

The purpose of this document is to give the requirements which the RMIB GERB Processing must fullfill.

1.2   Scope

The requirements are given in a number of priority levels.

2   Required at launch

At launch a working real time processing system must be available. This implies:

- Input data ingestion without software or hardware crashes. This requirement supposes that the GERB input data is available at the RAL ftp server and that the SEVIRI or MTP input data is available at the RMIB SEVIRI or MTP data reception station.

- Transition between the SEVIRI and the MTP imager occurs without operator interaction.

- Data flows between the subsystems without logic errors or software or hardware crashes.

- Implementation of "frozen" algorithms in the different subsystems. The parameters of the algorithms can be changed - through external configuration files - without system interruption.

- Logging of all the subsystem actions.

- Transfer of output products to the ROLLS ftp server.

- Internal secure archival of high resolution products.

3   Required at the end of the commissioning phase

At the end of the commissiong phase the real time processing system must produce scientifically valid results. This implies:

- The optimal algorithm parameters have been calculated or tuned.

- The output products, obtained for scientifically validated input products, have been scientifically validated.

4   Desired after the commissioning phase

- The system is regularly monitored by a technical operator. Regularly = at least once per working day.

- The output product quality is regularly monitored by a scientific responsable. Regularly = at least once per working day.

- The system runs without operator intervention for 90 % of the time.