

Deutscher Wetterdienst

Abteilung Systeme und Betrieb



The Metadata Harvesting Procedure in UNIDART

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Deutscher Wetterdienst

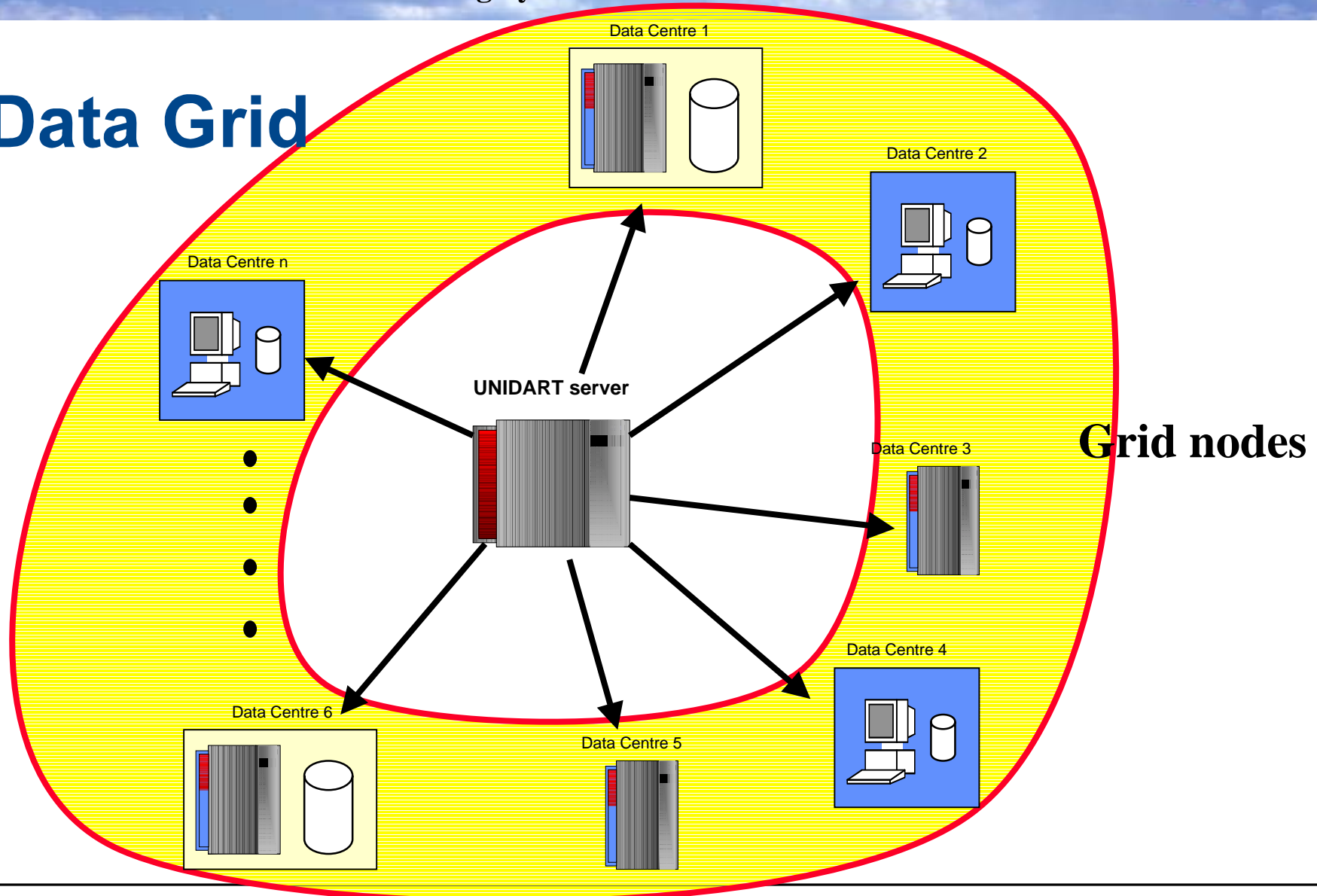
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The main goal of UNIDART

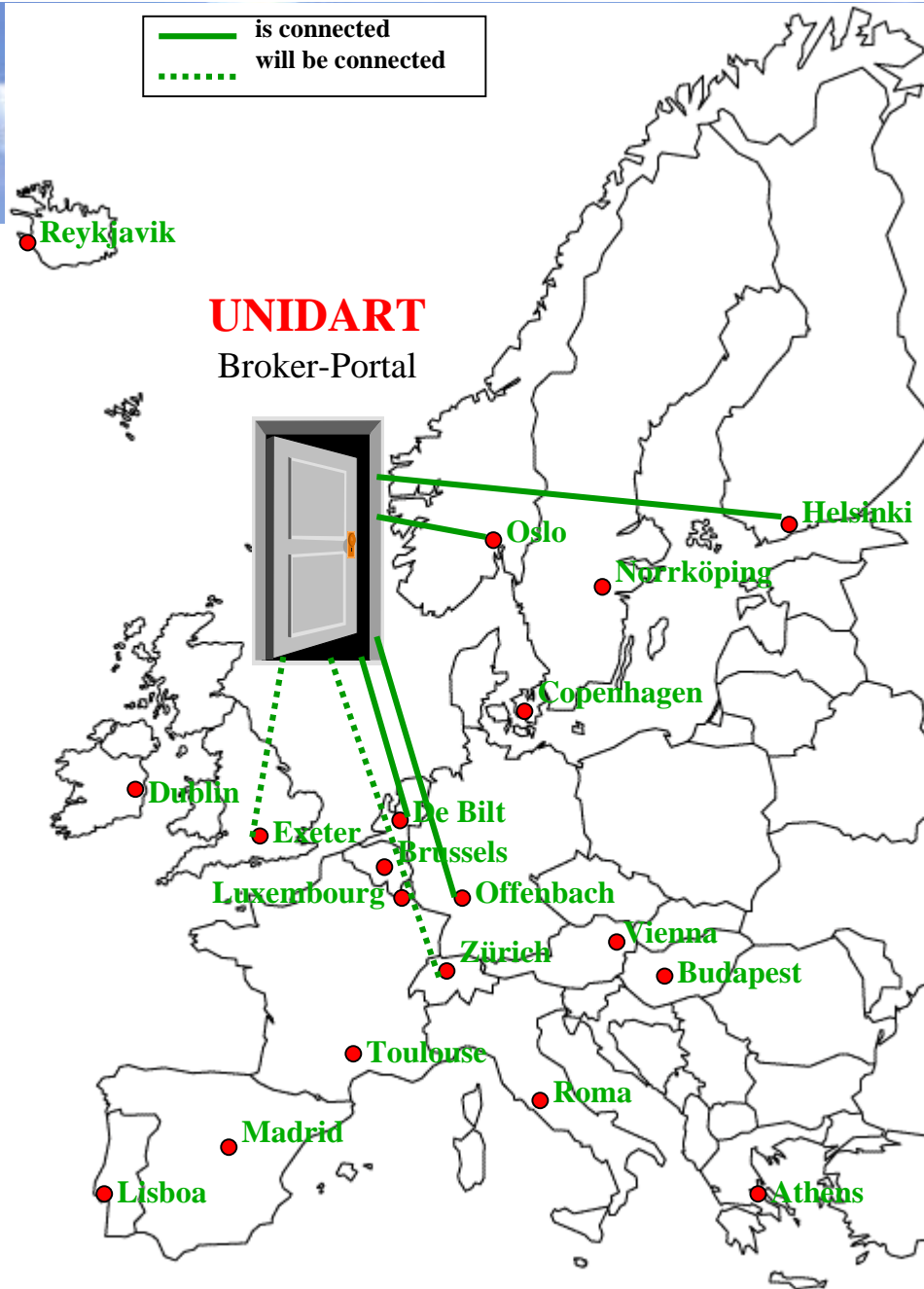
Development of a Web-based information system that allows a **uniform and integrated access** to **heterogeneous and distributed data sources** which store **any kind of meteorological data and products**

Data Grid





— is connected
- - - will be connected

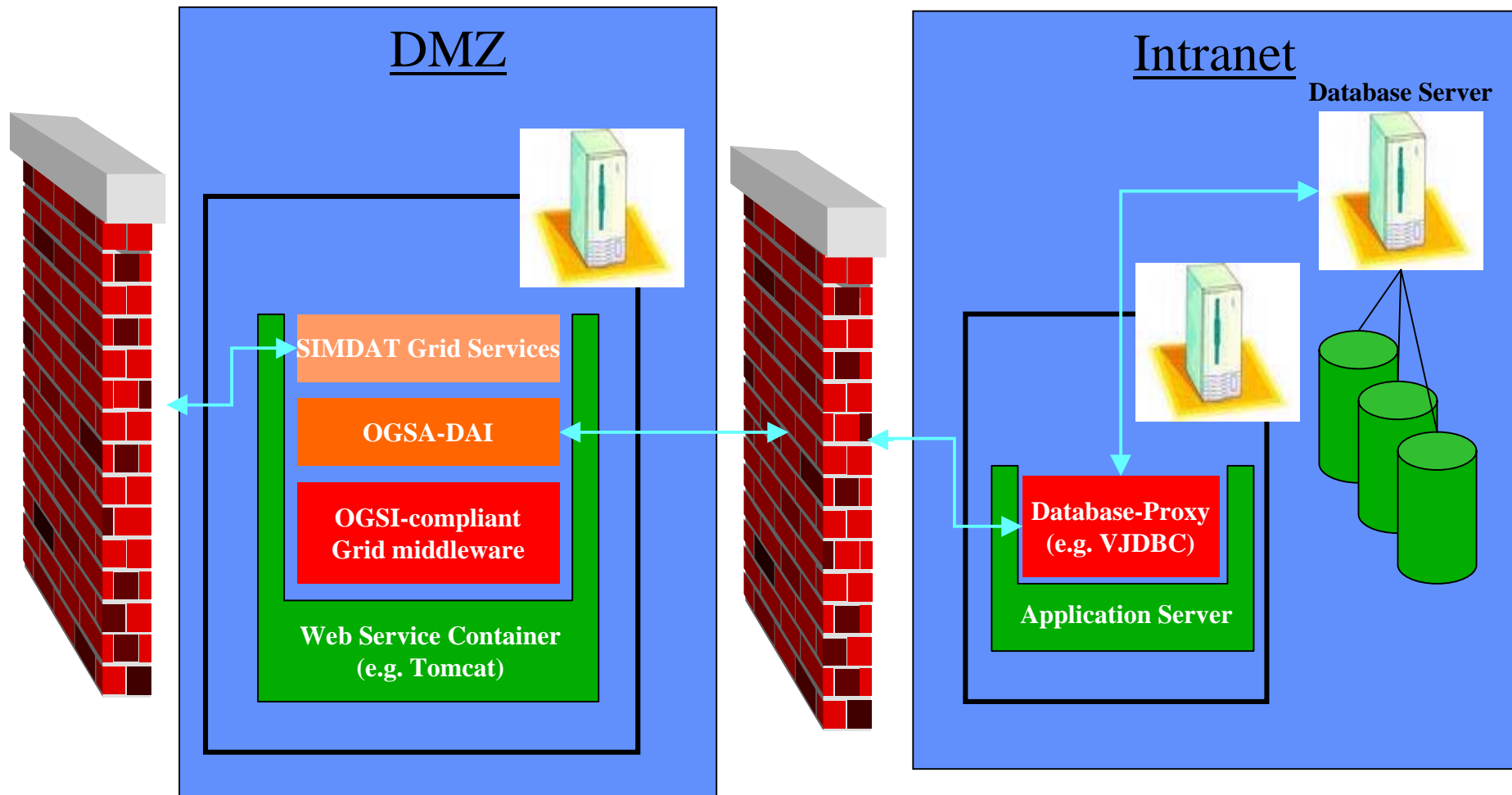




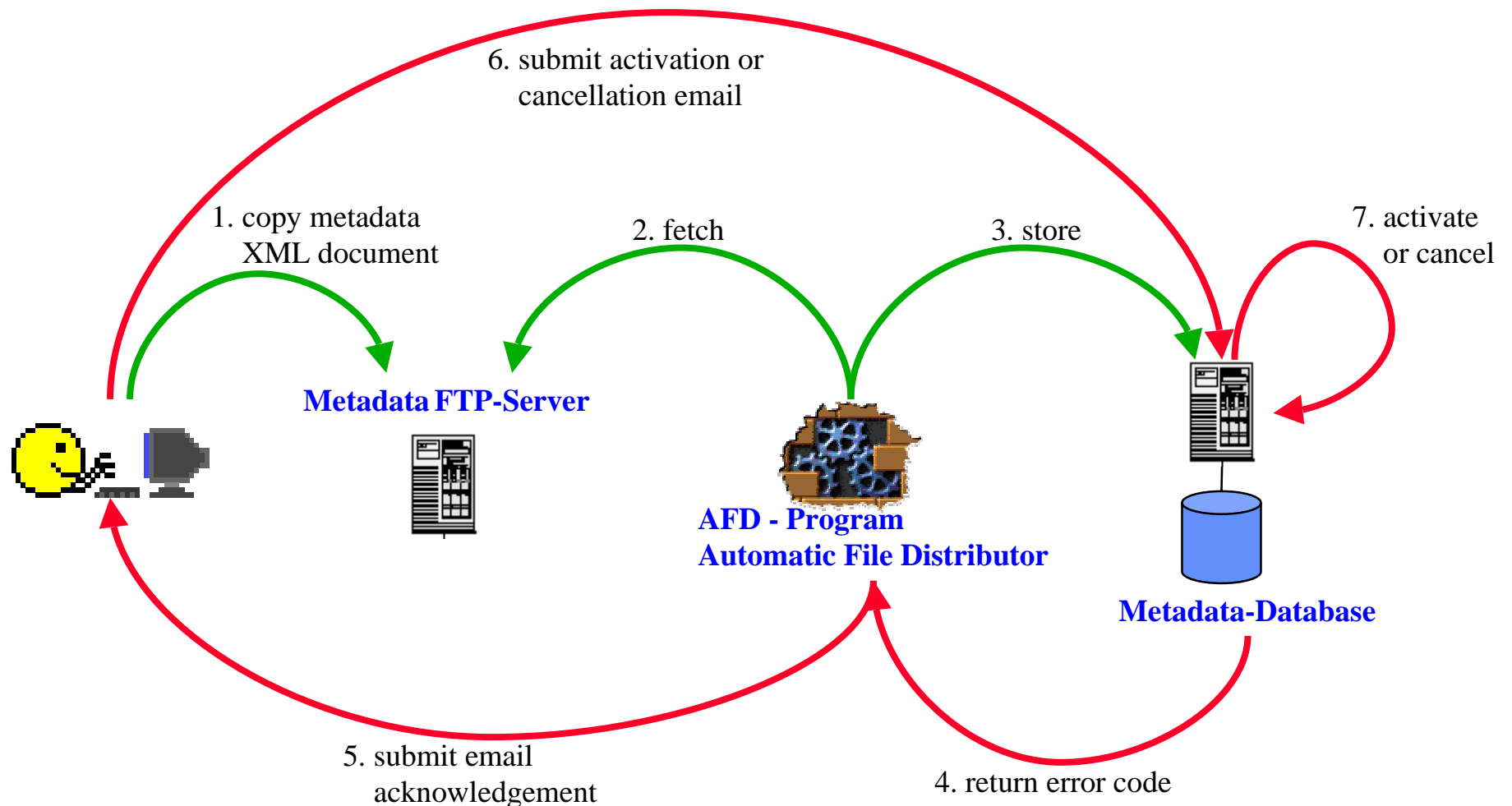
UNIDART server

- connected to each grid node as grid client
- runs the portal application for user interaction
- maintains and manages all metadata in an XML database
- metadata is a set of XML documents
- does XML schema validation
- provides XML query facilities

Technical infrastructure of a data centre

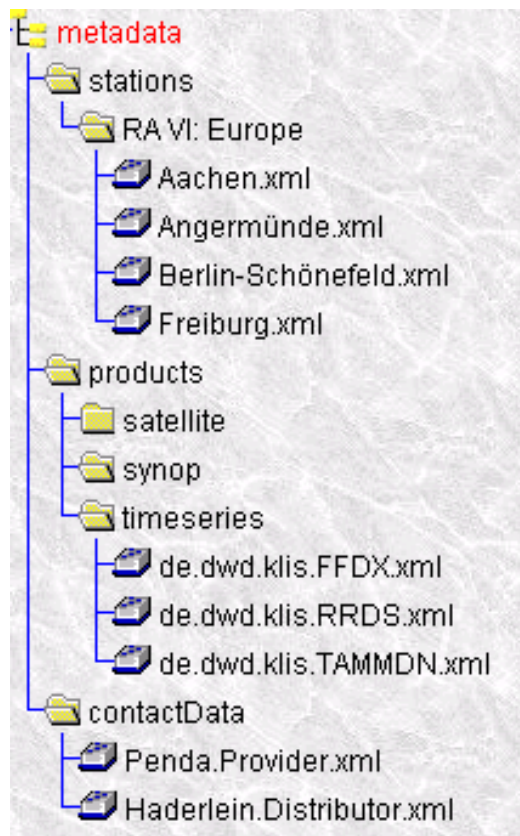


Update and Insert Metadata



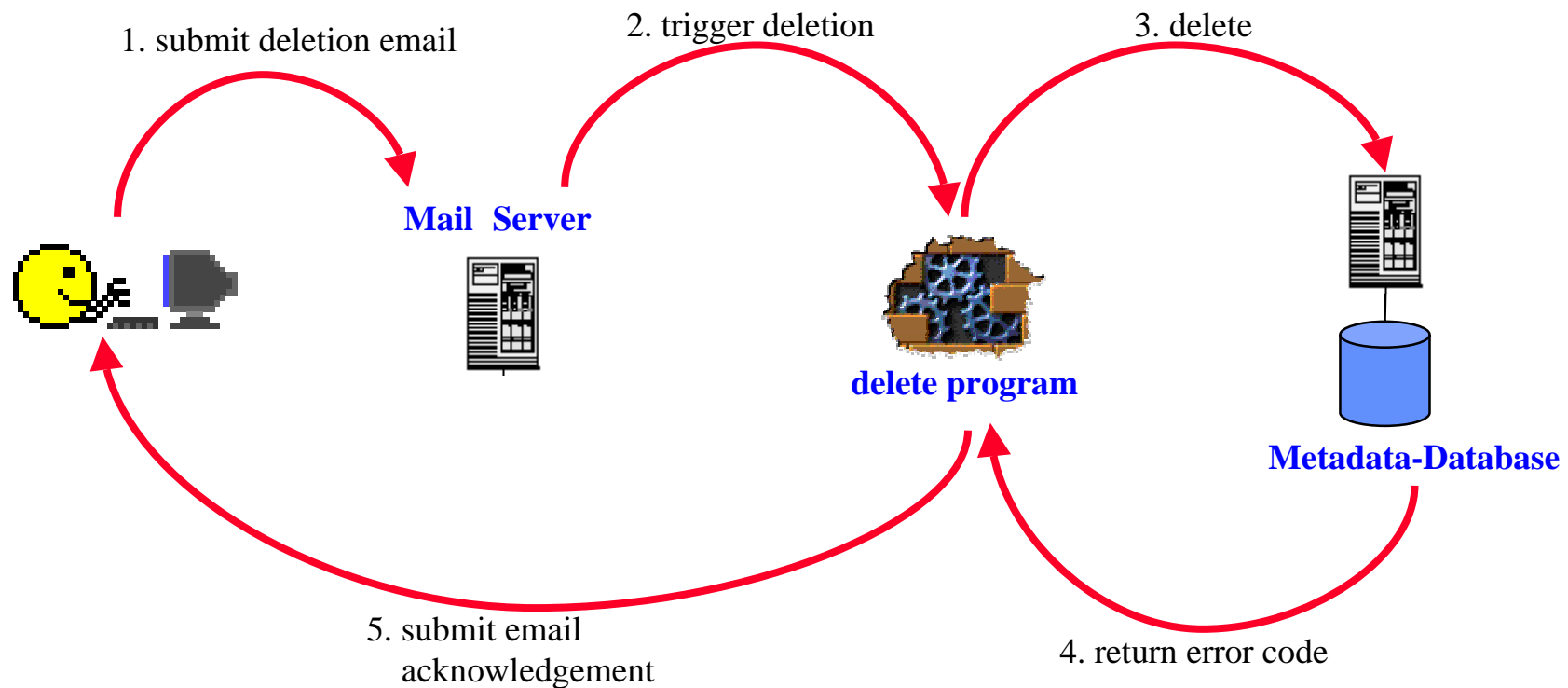


Directory Structure of FTP Account



- a data centre can have stations in more than one WMO region
- the product catalogue is divided into sub-categories
- common agreement is needed for a new product sub-category
- XML document names are unique within each subdirectory
- there is no strict naming convention for XML documents

Delete Metadata



Note: like to unsubscribe from an email list



Summary

- harvesting procedure is
 - simple
 - robust
 - effective
 - safe
- generation and submission of metadata XML documents can be automated at the user side
- possibility to define the date when an update should become effective
- not yet implemented in UNIDART