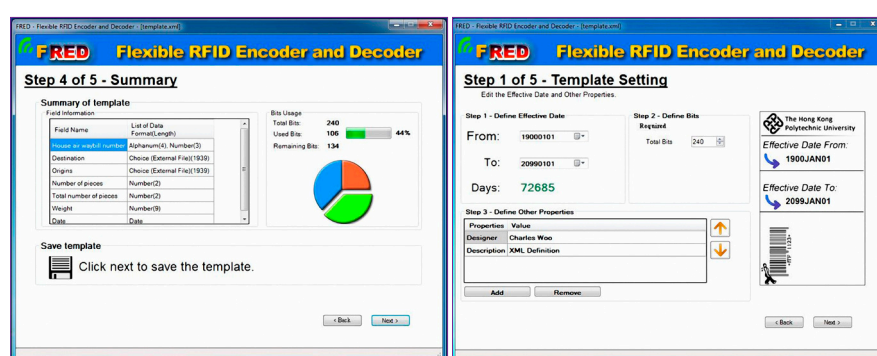


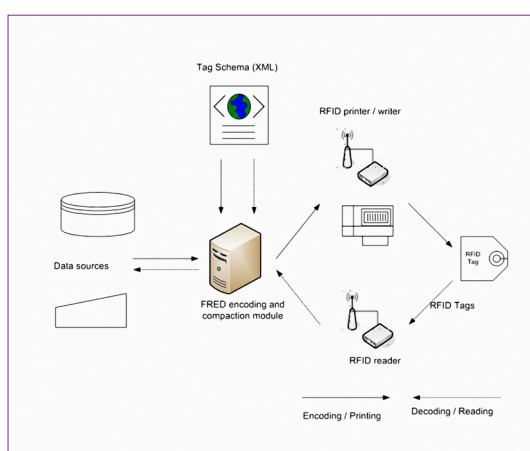
FRED:靈活的無線射頻 辨識(RFID)標籤編碼和解碼技術 Flexible RFID Encoder and Decoder (FRED)

為業界開發出一套整合而有效的全新RFID標籤數據編碼和解碼軟件
An integrated software tool for the efficient encoding and decoding of RFID tag data

FRED是一套整合的軟件工具，能大大改善貨件管理，對分秒必爭的航空物流業尤其重要。它能有效地編碼和解碼RFID標籤數據，還提供標籤打印，閱讀和其他處理功能。FRED基於XML技術的數據編碼方案和新穎的數據壓縮方法，使用靈活，透過用戶定制的數據格式，FRED能夠有效地編製自定的標籤數據。它還提供了一個容易使用的軟件介面，用於定制數據格式、輸入和導入/導出數據文件。此外，FRED也可以廣泛應用於其他RFID系統上。



FRED系統的屏幕截圖
FRED screen shots



FRED系統簡介
Overview of FRED



FRED系統主力研發人員：趙志恆先生
FRED principal developer,
Mr. David Chiu.

FRED is an integrated software tool for the efficient encoding and decoding of RFID tag data. It offers major applications in air-freight logistics management (e.g., to facilitate air cargo processing). It also provides RFID tag printing, reading and other processing functions. FRED uses a flexible XML-based data encoding scheme and a novel data compaction method which allow it to encode RFID tag data efficiently according to a user specified data format. FRED also provides an all-in-one package for specifying data formats, entering data and importing/exporting data files. FRED can also be used to support many other RFID-based applications.

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特色與優點

FRED提供以下的優點：

- 基於XML技術的靈活數據編碼方案
- 高效的數據壓縮演算法
- 容易使用的數據製定介面
- 有效的標籤編碼/打印和解碼/閱讀功能
- 其他輔助功能

應用

FRED適用於航運及物流管理，把必需的數據寫入RFID標籤，如空運提單標籤，以加快貨物登記和核對的流程。FRED還可以編碼不同的RFID標籤數據，能夠廣泛應用於基於RFID技術的系統。

獎項

第38屆瑞士日內瓦國際發明展銀獎 (2010年4月)



應用實例：RFID空運提單標籤
FRED application example: RFID-enabled
air waybill label

FRED應用實例：系統測試於敦豪全球貨運
物流(香港)有限公司貨倉
FRED application example: testing at DHL
Global Forwarding's warehouse



Special Features and Advantages

FRED provides the following:

- A flexible XML-based data encoding scheme
- An efficient data compaction algorithm
- A user-friendly data specification tool
- Effective tag encoding / printing and decoding /reading functions
- Other useful supporting / supplementary features

Application

FRED has major applications in air-freight logistics management. FRED allows essential data to be written into RFID tags or labels (e.g., air waybill labels) for air cargo check-in and check-out processes. FRED can also be used to encode RFID tag data for use in a wide range of RFID-based applications.

Awards

Silver Award, The 38th International Exhibition of Inventions of Geneva, Switzerland(April 2010)