MD8470A Signaling Tester Application Note
- DRM Version -

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1. Glossary of Terms

- **DRM**: Digital Rights Management
- **HTTP**: Hyper Text Transfer Protocol
- **OMA**: Open Mobile Alliance
- **SMS**: Short Message Service
- **UE**: User Equipment
- **WAP**: Wireless Application Protocol
- **WNS**: Wireless Network Simulator

2. Reference Standards

- **DRM Content Format**
  OMA-TS-DRM-DCF-V2_0-20050614-C
- **DRM Specification**
  OMA-TS-DRM-DRM-V2_0-20050614-C
- **DRM Rights Expression Language**
  OMA-TS-DRM-REL-V2_0-20050614-C
3. What is DRM?

- DRM is a technology for protecting the copyright of digital data content.
- The OMA defines three management methods: Forward lock, Combined delivery lock, and Separate delivery lock.

4. DRM Structure

- Forward lock and Combined delivery lock obtain the contents and rights information simultaneously.
- Separate delivery lock obtains the contents and rights information separately. After obtaining the contents, the rights information is obtained using either an HTTP/WAP connection or SMS Push.
5. Flow of DRM Protocol

Forward
Combined delivery

Separate delivery

Server
Connection
Download contents
Disconnection

Server
Connection
Download contents
Disconnection
Connection
Download Rights Object
Disconnection

6. Testing DRM

6-1. Testing Forward lock contents

6-2. Testing Combined delivery lock contents

6-3. Testing Separate delivery lock contents
6-1. Testing Forward Lock Contents (1/2)

- **Required Hardware & Software**

![Image of UE and MD8470A(WNS)]

6-1. Testing Forward Lock Contents (2/2)

- **Downloading Forward Lock Contents**
  - Forward lock copies the set contents to the web server built into the MD8470A. [1]
  - The contents are downloaded. [2]
  - The downloaded contents are confirmed without requiring transfer. [3]

![Image of UE, MD8470A (WNS), and HTTP/WAP connection]
6-2. Testing Combined Delivery Lock Contents (2/2)

- **Required Hardware & Software**

![Diagram of UE and MD8470A (WNS)]

6-2. Combined Delivery Lock Contents (2/2)

- **Downloading Combined Delivery Lock Contents**
  - Combined delivery lock copies the set contents to the Web server built into the MD8470A. [1]
  - The contents are downloaded. [2]
  - If the expiry date of the downloaded contents has been exceeded, inability to replay the contents is confirmed. [3]
6-3. Testing Separate Delivery Lock Contents (1/2)

- Required Hardware & Software

- Required Hardware & Software

6-3. Testing Separate Delivery Lock Contents (2/2)

- Downloading Separate Delivery Lock Contents
  - Separate delivery-lock copies the set contents and rights information to the Web server built into the MD8470A. [1]
  - The contents are downloaded. [2]
  - The rights information is obtained by HTTP/WAP or SMS Push. [3]
  - The ability to replay the contents is confirmed. [4]
7. Advantages of Using MD8470A

- **Easy DRM Testing**
  By using the MD8470A DRM sample contents, confirmation of the Forward lock, Combined delivery lock, and Separate delivery lock contents can be confirmed easily.

- **Other Equipment or PC Not Required**
  Since a Web server is built into the MD8470A, customers can test the provided sample contents using just the MD8470A without needing any other equipment or a separate PC.