



**3GPP2 CORRESPONDENCE**

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Mr. Toni Paila  
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**Re: OMA BCAST Service Protection**

Dear Toni,

3GPP2 has reviewed the latest version of the OMA BCAST Architecture Document, OMA-AD\_BCAST-V1\_0\_1-20050330-D. We have the following concern and suggestion regarding the BCAST Service Protection architecture and mechanisms described in that document.

As we understand it, the 4-layer key hierarchy for Service Protection is based on OMA DRM 2.0 mechanisms. In OMA DRM 2.0, the security binding for Service Protection exists between the Rights Issuer and the DRM Agent on the mobile device. In 3GPP2 BCMCS, however, the equivalent security binding for Service Protection exists between the Service Provider (the Subscription Manager) and the subscription, as represented by the (R)UIM, or (Removable)User Identity Module. From the perspective of the mobile operator, which also acts as the BCMCS Service Provider, the primary purpose of Service Protection is to ensure that services are only delivered to legitimate subscribers of the Service Provider. In other words, only subscribers that pay for the service should be able to decrypt the services on the multicast/broadcast channel. The security threat posed by the OMA DRM 2.0 based solution for Service Protection is that any end user, whether they are subscribed or not to the multicast/broadcast service, can obtain access to the service on the device containing the appropriate DRM Agent, by inserting his/her R-UIM into that device.

3GPP2 urges that OMA BCAST consider this concern in the development of security solutions for mobile broadcast services. We like to suggest that the shared-secret enabled Service Protection mechanism of 3GPP2 BCMCS should be considered as the default Service Protection solution for BCAST for devices that contain the UIM.

Regards,

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