3RD GENERATION
PARTNERSHIP
PROJECT 2
"3GPP2"

3GPP2 Industry Notice

C.S0016 Protocol Capability Response Message

1 AFFECTED DOCUMENTS

The following documents have been identified as affected:

C.S0016-B through C.S0016-D *Over-the-Air Service Provisioning of Mobile Stations in Spread Spectrum Standards*

C.S0023-0 through C.S0023-D *Removable User Identity Module for Spread Spectrum Systems*

C.S0065-0 through C.S0065-B *cdma2000 Application on UICC for Spread Spectrum Systems*

2 THE PROBLEM

The *Protocol Capability Response Message*, in C.S0016, does not clearly define the term feature. The specification allows the inclusion of multiple features, defined by FEATURE_ID (Feature Identification) / FEATURE_P_REV (Feature Protocol Revision) pairs, but does not define how to handle the following situations:

- A feature is not supported by the device.

- Two or more different feature protocol revisions are supported with the same FEATURE_ID.

This sequence of data fields was incorporated into EF(OTA) of the R-UIM specification, C.S0023, in such a way that each feature must be listed exactly once. Since no FEATURE_P_REV value is reserved for "not supported," there is no way to identify a feature that is not supported. In addition, there is no way to identify multiple feature protocol revisions for a single feature. These issues also exist in C.S0065.

TSG-C WG 1 has verified that current implementations of OTASP and R-UIM support the following capabilities:

- A feature that is not supported is indicated by *not* including any FEATURE_ID/FEATURE_P_REV pairs.

- Support of multiple features with a single FEATURE_ID is indicated by including multiple FEATURE_ID/FEATURE_P_REV pairs, where the same FEATURE_ID is repeated in each pair.

3 THE SOLUTION

TSG-C is considering a solution that is consistent with current practice. TSG-C is planning to do the following:

- C.S0016 will be modified to describe how to indicate no support for a feature, and how to indicate support for multiple features defined by two or more protocol revisions and a single FEATURE_ID.

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- C.S0023 (R-UIM) and C.S0065 (CSIM) will be modified to refer to C.S0016 for details on how to encode the EF(OTA) file.