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3RD GENERATION
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3GPP2 Industry Notice

C.S0016 Protocol Capability Response Message

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1 1 AFFECTED DOCUMENTS

2 The following documents have been identified as affected:

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

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

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

9 2 THE PROBLEM

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

- 15 • A feature is not supported by the device.
- 16 • Two or more different feature protocol revisions are supported with the
17 same FEATURE_ID.

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

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

- 26 • A feature that is not supported is indicated by *not* including any
27 FEATURE_ID/FEATURE_P_REV pairs.
- 28 • Support of multiple features with a single FEATURE_ID is indicated by
29 including multiple FEATURE_ID/FEATURE_P_REV pairs, where the
30 same FEATURE_ID is repeated in each pair.

31 3 THE SOLUTION

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

- 34 • C.S0016 will be modified to describe how to indicate no support for a
35 feature, and how to indicate support for multiple features defined by two
36 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.

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