System Release 5
Standardized Services and Features
Editor

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Revision History

<table>
<thead>
<tr>
<th>Revision</th>
<th>Description of Changes</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>v1.0</td>
<td>Initial Publication</td>
<td>December 10, 2009</td>
</tr>
</tbody>
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cdma2000\textsuperscript{1} System Release 5
Standardized Services and Features

1. INTRODUCTION

The primary intended audience for this document is planning departments of wireless network operators, who may want to use it to identify features and services for potential deployment, study details of the feature or service by analyzing the standards, e.g. for the purpose of identifying any optional characteristics/behaviors allowed in the feature or service, and determine what related specifications, particularly underlying radio interface, RAN, and core network specs, are required for the service or feature to work. This can furthermore aid in the procurement phase, when inquiring vendor information about specific vendor products, analyzing cost information, and selecting vendors. The secondary intended audience is infrastructure manufacturers, who may use it for front end high level feature/service planning, and to facilitate communication in the marketing/sales activities with the operators, as described above. Similarly, mobile manufacturers may use it in a similar fashion.

Table 1 lists standardized services and features available on cdma2000 networks complying with System Release 5. This is a cumulative list of all features, including features in previous releases. The system release associated with each feature is identified parenthetically in column 1, e.g. (R5) for Release 5. In general, the table lists these services and features with the Work Item granularity, i.e. a single service or feature is defined in a work item. In some situations somewhat finer granularity is provided (e.g. two or more services or features are defined by a given Work Item).

Note that many wireless services are either:

- not standardized, or
- there are non-standard alternatives of a service which runs on cdma2000 platform, or
- services may be standardized by other organizations such as OMA.

Those services are not shown in the table. A good example is web browsing, a popular service that has not been standardized specifically for the cdma2000 system. Another example is Instant Messaging (IM). There are many IM applications developed by a number of vendors, typically requiring that vendor’s client application be installed on a cdma2000 terminal. There are also standards that define interoperability protocols for IM services developed by diverse vendors (e.g. OMA defined IM standards).

\textsuperscript{1} cdma2000® is a trademark for the technical nomenclature for certain specifications and standards of the Organizational Partners (OPs) of 3GPP2. Geographically (and as of the date of publication), cdma2000® is a registered trademark of the Telecommunications Industry Association (TIA-USA) in the United States.
Unless otherwise noted, the following applies:

1. In principle, specification listed in support of a service or a feature is the earliest version in which the subject service or feature became available. An exception may be a requirements document (S.Rnnnn), which may have been revised prior to the development of technical specifications.

2. In general, the subject service or feature is available on subsequent revisions of a specification. In rare cases, when support of a service or feature is discontinued in a revision of a specification, this is indicated in the Comment column of the table.

3. Newer publications of test specifications supersede the previous publication, and include bug fixes found to those earlier documents. Therefore, the latest available test specification should be used to best ensure proper support of a particular feature (see Table 3).

4. Certain features/services have no standardization impact on a particular specification, in other words the feature is not mentioned in the specification, however the specification is necessary for the feature/service to run. For example, support for Mobile IP Version 6 (MIPv6) is transparent to the radio interface specifications (C.S series). This is indicated by listing the underlying specification, but indicating that the feature/service is transparent to it.

5. A test document is listed for a feature/service whenever such document specifically addresses compliance of the feature/service. If the test document broadly addresses many features/services, only parts of the document (e.g. sections relevant for the feature/service at hand) may be applicable. A-interface test specifications are good examples of such documents addressing compliance of many features/services.

6. For all specifications listed in the table, the applicable revision identifiers are listed (the earliest available revision pertinent to the specification). Version numbers are not listed, unless noted otherwise. Version numbers (within a given revision) are typically published to correct errors or omissions. Hence, the user of the feature/service table should identify the latest available version by referring to the 3GPP2 web-site http://www.3gpp2.org/Public_html/specs/index.cfm.

7. Notation C.S0001~6 refers to the set of radio interface specifications C.S0001 through C.S0006. Similar notation is used elsewhere to denote a sequential series of specifications or extensions.

8. C.R1001 (Administration of Parameter Value Assignments for cdma2000 Spread Spectrum Systems) is a Technical Report (TR) containing parameter values that are relevant in many services (e.g. Service Options). This TR is not generally listed for each service in this document. In exceptional situations it is listed, when it is important to point out a particular parameter. In such cases the revision letter of C.R1001 is not included. Reader should consult the latest published revision.
9. Cross reference of baseline RAN Specifications A.SNNNN-N to alternate designations used in TSG-A IOS Version N.N is provided in the following table:

<table>
<thead>
<tr>
<th>3GPP2 RAN Specification Designation</th>
<th>TSG-A Common Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.S0001-0</td>
<td>IOS v4.0</td>
</tr>
<tr>
<td>A.S0001-A</td>
<td>IOS v4.1</td>
</tr>
<tr>
<td>A.S0011~17-0</td>
<td>IOS v4.2</td>
</tr>
<tr>
<td>A.S0011~17-A</td>
<td>IOS v4.3</td>
</tr>
<tr>
<td>A.S0011-17-B</td>
<td>IOS v4.3.1</td>
</tr>
<tr>
<td>A.S0011~17-C</td>
<td>IOS v5.0</td>
</tr>
<tr>
<td>A.S0011~17-D</td>
<td>IOS v5.1</td>
</tr>
</tbody>
</table>

1.1 Document Conventions

Revision letter (not version number) should be specified with each specification listed.

Insertion of hyperlinks pending. Hyperlinks point to the earliest revision of specification applicable for the given service, and latest version (point release) within that revision.

3GPP2 (not TIA) specifications are listed whenever possible. When not available, other specifications are permissible.

The specification documents usage:

Transparent - indicates the document does not contain explicit reference to the subject service or feature. However the service or feature will not be operational without the listed document(s).

Blank - support for the interface is not required for an end-to-end feature/service.

2. DEFINITIONS AND ABBREVIATIONS

The terms and abbreviations which are used within this document are defined as follows:

- 3GPP2: Third Generation Partnership Project 2
- AAA: Authorization, Authentication, Accounting
- BCMCS: Broadcast Multicast Service
- CDMA: Code Division Multiple Access
- EVRC: Enhanced Variable Rate Codec
- DHCP: Dynamic Host Configuration Protocol
- HRPD: High Rate Packet Data
- IOS: Interoperability Specification
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IOTA</td>
<td>Internet Over-The-Air</td>
</tr>
<tr>
<td>LLA ROHC</td>
<td>Link Layer Assisted Robust Header Compression</td>
</tr>
<tr>
<td>MMD</td>
<td>Multi-Media Domain</td>
</tr>
<tr>
<td>OTAPA</td>
<td>Over-the-Air Parameter Administration</td>
</tr>
<tr>
<td>OTASP</td>
<td>Over-the-Air Service Provisioning</td>
</tr>
<tr>
<td>PACA</td>
<td>Priority Access Channel Assignment</td>
</tr>
<tr>
<td>QoS</td>
<td>Quality of Service</td>
</tr>
<tr>
<td>RAN</td>
<td>Radio Access Network</td>
</tr>
<tr>
<td>RUIM</td>
<td>Removable User Identity Module</td>
</tr>
<tr>
<td>SMS</td>
<td>Short Message Service</td>
</tr>
<tr>
<td>TSG</td>
<td>Technical Specification Group</td>
</tr>
<tr>
<td>UICC</td>
<td>Universal Integrated Circuit Card</td>
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</table>
## 3. FEATURES AND SERVICES IN SYSTEM RELEASE 5 (SUBSCRIBER FEATURES)

### 3.1 System and Subscriber Features and Services

Table 1 System Subscriber Features and Services

<table>
<thead>
<tr>
<th>Feature/Service Name</th>
<th>WI</th>
<th>TSG-S</th>
<th>TSG-C</th>
<th>TSG-A</th>
<th>TSG-X (N, P)</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advice of Charge</td>
<td>S.R0011-0 S.R0006-537-A</td>
<td>C.S0001~6-0: Transparent C.S0024-0: Transparent</td>
<td>A.S0001-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Always ON</td>
<td>S.R0006-501-A</td>
<td>C.S0001~6-0: Transparent C.S0024-0: Transparent</td>
<td>A.S0011~17-A A.S0008-0 (HRPD) A.S0007-0 (HRPD)</td>
<td>X.S0011-B</td>
<td>Packet-switched only</td>
<td></td>
</tr>
<tr>
<td>Answer Hold</td>
<td>S.R0008-0</td>
<td>C.S0001~06: Transparent C.S0024-A: Transparent</td>
<td>A.S0001-0</td>
<td>N.S0022</td>
<td>Applies for Circuit-switched and VoIP</td>
<td></td>
</tr>
<tr>
<td>Broadcast SMS</td>
<td>S.R0006-501-A</td>
<td>C.S0015-0 C.S0001~6-0 C.S0044-0 C.S0061-0</td>
<td>A.S0001-0</td>
<td>X.S0004</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Call Delivery (CD)</td>
<td>S.R0006-501-A</td>
<td>C.S0001~6-0: Transparent C.S0024-A: Transparent</td>
<td>A.S0001-0</td>
<td>X.S0004-E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Call Transfer</td>
<td>S.R0006-506-A</td>
<td>C.S0001~6-0: Transparent C.S0024-A: Transparent</td>
<td>A.S0001-0</td>
<td>X.S0004-E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Call Waiting</td>
<td>S.R0006-507-A</td>
<td>C.S0001~6-0: Transparent C.S0024-A: Transparent C.S0044-0 C.S0058-0</td>
<td>A.S0001-0</td>
<td>X.S0004-E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feature/Service Name</td>
<td>WI</td>
<td>TSG-S</td>
<td>TSG-C</td>
<td>TSG-A</td>
<td>TSG-X (N, P)</td>
<td>Comment</td>
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<tr>
<td>Calling Name Presentation/Restriction (CNAP/CNAR)</td>
<td>S.R0006-526~527-A</td>
<td>C.S0001~6-0: Transparent, C.S0024-A: Transparent, C.S0043-A, C.S0044-0, C.S0058-0</td>
<td>A.S0001-0</td>
<td>X.S0004-E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calling Number Identity Presentation/Restriction (CNIP/CNIR)</td>
<td>S.R0006-508~509-A</td>
<td>C.S0001~6-0: Transparent, C.S0024-A: Transparent, C.S0044-0, C.S0058-0</td>
<td>A.S0001-0</td>
<td>X.S0004-E</td>
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<tr>
<td>cdma2000 Application on UICC (R5)</td>
<td>00116</td>
<td>S.R0037-A, S.R0037-B</td>
<td>C.S0065-0</td>
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<td>Concurrent Service Support</td>
<td>S.R0006-510-A</td>
<td>C.S0001~6-0: Transparent, C.S0024-A: Transparent</td>
<td>A.S0001-A</td>
<td>N.S0029</td>
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<tr>
<td>Conference Calling</td>
<td>S.R0006-510-A</td>
<td>C.S0001~6-0: Transparent, C.S0024-A: Transparent</td>
<td>A.S0001-0</td>
<td>X.S0004-E</td>
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<td>Data Service Continuity from HRPD to cdma2000 1X (R5)</td>
<td>00094</td>
<td>S.R0037-A, S.R0108-0</td>
<td>C.S0075-0, C.S0024-A: Transparent, A.S0008-A, A.S0009-A</td>
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<td>Do Not Disturb</td>
<td>S.R0006-511-A</td>
<td>C.S0001~6-0: Transparent, C.S0024-A: Transparent</td>
<td>A.S0001-0</td>
<td>X.S0004-E</td>
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<tr>
<td>Enhanced Call Recovery (R5)</td>
<td>00034</td>
<td>C.S0001~6-0: Transparent, C.S0024-A: Transparent</td>
<td>A.S0011~17-D</td>
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<td>Enhanced Message Service (R5)</td>
<td>00002</td>
<td>S.R0051-0</td>
<td>C.S0001~6-B</td>
<td>A.S0001: Transparent</td>
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<td>Enhanced Variable Rate Codec – Wideband over Circuit-Switched Network (R5)</td>
<td>00158</td>
<td>C.S0015-A, C.S0061-0</td>
<td>A.S0014-D</td>
<td>X.S0011-D</td>
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<td>Service option 70 is defined in C.R1001.</td>
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<td>Feature/Service Name</td>
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<td>TSG-S</td>
<td>TSG-C</td>
<td>TSG-A</td>
<td>TSG-X (N, P)</td>
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<td>Flexible Alerting</td>
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<td>S.R0006-512-A</td>
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<td>X.S0004-E</td>
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<td>Forward Link Performance Enhancements (R5)</td>
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<td>Generic Bootstrapping Architecture (R4)</td>
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<td>S.S0109-0</td>
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<td>Global Emergency Call Origination (GECO)</td>
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<td>S.S0083-0</td>
<td>C.S0001~6-A</td>
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<td>HRPD Authentication for Hybrid Mobile Station/Access Terminal (HAT) using 1x UIM (R4)</td>
<td>00085</td>
<td>S.R0104-0</td>
<td>C.S0024-0: Transparent</td>
<td>A.S0006-0</td>
<td>X.S0004-0</td>
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<td>HRPD Supplemental Services Update (R4)</td>
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<td>S.S0063-A</td>
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<td>IMS Conferencing (R5)</td>
<td>00082</td>
<td>S.S0082-0</td>
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<td>X.S0029-0</td>
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<tr>
<td>Intermediate Messaging (R4)</td>
<td>00030</td>
<td>S.R0061-0</td>
<td>C.S0001~6-0: Transparent, C.S0024-0: Transparent</td>
<td>A.S0001-0: Transparent</td>
<td>X.S0013-0</td>
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<td>Feature/Service Name</td>
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<td>TSG-S</td>
<td>TSG-C</td>
<td>TSG-A</td>
<td>TSG-X (N, P)</td>
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<td>Internet Over-the-Air Handset Configuration Management (IOTA) (R4)</td>
<td>00044</td>
<td>S.R0073-0</td>
<td>C.S0024-0: Transparent</td>
<td>A.S0001-0: Transparent</td>
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<td></td>
<td></td>
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<td>C.S0001-6: Transparent</td>
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<td>C.S0040-0</td>
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<td>IOTA Device Management (IOTA-DM) (R5)</td>
<td>00074</td>
<td>S.R0095-0</td>
<td>C.S0069-0, C.S0073-0, C.S0074-0</td>
<td>A.S0001-0: Transparent</td>
<td>X.S0013-B</td>
<td>OMA specs are referenced in his feature.</td>
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<td>LCS Authentication/Privacy/Security and Enhancements (R4)</td>
<td>00016</td>
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<td>X.S0002-0</td>
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<td>ME Personalization</td>
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<tr>
<td>Location Services (R5)</td>
<td>00022</td>
<td>S.R0066-0, S.R0110-0</td>
<td>C.S0022-A, C.S0036-0</td>
<td>A.S0001-0: Transparent</td>
<td>X.S0024-0</td>
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<tr>
<td>Message Waiting Notification (R4)</td>
<td>00089</td>
<td>S.R0006-513-A</td>
<td>C.S0043-0, C.S0044-0, C.S0058-0</td>
<td>A.S0001-0</td>
<td>X.S0004-E</td>
<td>X.S0030-0</td>
</tr>
<tr>
<td>Multimedia Streaming Service (R4)</td>
<td>00055</td>
<td>S.R0021-0</td>
<td>C.S0046-0</td>
<td>A.S0001-0: Transparent</td>
<td>X.S0002-0</td>
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<td>MMD Roaming (R5)</td>
<td>00171</td>
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<td>Multi-Media Messaging Service (R5)</td>
<td>00078</td>
<td>S.R0064-A</td>
<td>C.S0045-0</td>
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<td>X.S0016-0</td>
<td>X.S0016-A</td>
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<td>00078A</td>
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<td>C.S0045-A</td>
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<tr>
<td>Multi-Carrier Support for EV-DO (NxEV-DO) (R4)</td>
<td>00092</td>
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<td>C.S00024-B</td>
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<tr>
<td>Network Enhancement to Support CDMA SIM Roaming to GSM (R4)</td>
<td>00011</td>
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<td></td>
<td></td>
<td>X.S0003-0 v1.0</td>
<td>X.S0023-B v1.0 X.S0034-0 v1.0</td>
</tr>
<tr>
<td>Feature/Service Name</td>
<td>WI</td>
<td>TSG-S</td>
<td>TSG-C</td>
<td>TSG-A</td>
<td>TSG-X (N, P)</td>
<td>Comment</td>
</tr>
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<tr>
<td>Packet Switched Video Telephony (a.k.a., Multimedia Conversational Services) (R5)</td>
<td>00090</td>
<td>S.R0106-0</td>
<td>C.S0024-A: Transparent, C.S0055-0</td>
<td>A.S0008-A, A.S0009-A</td>
<td>X.R0039-0, X.S0011-D</td>
<td></td>
</tr>
<tr>
<td>Password Call Acceptance</td>
<td></td>
<td>S.R0006-515-A</td>
<td>C.S0001-6-0: Transparent, C.S0024-0: Transparent</td>
<td>A.S0001-0</td>
<td>X.S0004-E</td>
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</tr>
<tr>
<td>Priority Access Channel Assignment (PACA)</td>
<td></td>
<td>S.R0006-517-A</td>
<td>C.S0001-6-0</td>
<td>A.S0001-0</td>
<td>X.S0004-E</td>
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<tr>
<td>Personal Mobility</td>
<td></td>
<td>S.R0027-0</td>
<td>C.S0001-6-0: Transparent, C.S0024-0: Transparent</td>
<td>A.S0001-0</td>
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<td>Plus Code Dialing</td>
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<td>C.S0001-6-C</td>
<td>A.S0001-0: Transparent</td>
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<td>N.S0027</td>
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<tr>
<td>Asynchronous Data and Fax Services (R4)</td>
<td>00112</td>
<td></td>
<td>C.S0001-6-0: Transparent, C.S0017-010-A</td>
<td>A.S0001-0: Transparent</td>
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<td>Rejection of Undesired Annoying Calls</td>
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<td>User Selective Call Forwarding</td>
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<td>X.S0010-A v1.0 N.S0018-0, X.P0010</td>
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### 3.2 System Capabilities and Other Features and Services

#### Table 2 System Capabilities and Other Features and Services

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<td>1xEV-DV Capabilities (R5)</td>
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<td>C.S0043-0,</td>
<td>C.S0044-0</td>
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<td>800 MHz Band Class Updates for Japan (R4)</td>
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<td>Access Control Based on Call Type</td>
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<td>Adding UMB Security Algorithms to S.S0078-B (R5)</td>
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<td>Key new features in rev A are QoS support and Simultaneous voice and data.</td>
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<td>Circuit Services Notification Application (CSNA)</td>
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<td>Common Security Algorithms (R5)</td>
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<td>C.S0000(1~6)-C</td>
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<td>Cross Connectivity</td>
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<td>Resources sharing between Access Networks (a source AN uses the radio resources of a target AN to support an active session)</td>
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<td>Data Services on cdma2000 1x (R4)</td>
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<td>Enhanced cdma2000 Air Interface (R5)</td>
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<td>Enhancements to Roamer Database Verifications (R4)</td>
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<td>File and Media Format for Multimedia Services (R4)</td>
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<td>A.S0008-A, A.S0009-A</td>
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<td>Ability to page for cdma2000 1X services when mobile is on HRPD and vice versa.</td>
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### 3.3 Test Specifications

See note 3 in the Introduction regarding use of most recent publication of a test specification.

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4. DOCUMENT REFERENCES

Please note the following list identifies all documents reference in this document. For a complete list of published specifications refer to System Release Guides.

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