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# INDUSTRY ADVISORY

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## Network-to-Network Interface Disclosure

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**May 28, 1999**

**No. SIA-4ad**

**Subject:**

**AIN SS7 Messaging Protocol - TELUS**

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TELUS announces enhancements in its use of the Advanced Intelligent Network (AIN) SS7 Messaging Protocol. The AIN 0.0 protocol was previously disclosed for AGT Limited (now TELUS) in Industry Canada Disclosure Notice No. I96-02 dated July 5, 1996. AIN 0.0 will be no longer available.

**Compatibility Impact:**

None.

**Signalling Point of Interconnection (SPOI)**

Access to the TELUS network will be at a TELUS (SPOI). TELUS reserves the right to augment gateway screening with mediation at the SPOI.

**SS7 Protocol Parts**

The SS7 Signalling Connection Control Part (SCCP), specified in ANSI T1.112, provides additional functions to the Message Transfer Part (MTP) to transfer non-circuit related signalling information. GR-1432-CORE (CCSNIS Supporting SCCP and TCAP, Issue 1, March 1994), together with the following clarification, specifies the use of the SCCP at the SPOI:

- All AIN messages are encoded in Class 0 (connectionless with no special options) Unit Data (UDT) messages only.

The SS7 Transaction Capabilities Application Part (TCAP), specified in ANSI T1.114, controls non-circuit related information exchanged between the signalling nodes. GR-1432-CORE (CCSNIS Supporting SCCP and TCAP, Issue 1, March 1994), together with the following clarification, specifies the use of the TCAP for AIN at the SPOI:

- Within the context of this Advisory, the only TCAP messages that may be seen at the SPOI are those having a TCAP Package Type of: Query with Permission, Response or Conversation with Permission, and Unidirectional; and have a minimum of one of the following TCAP components: Invoke (Last), Invoke (Not Last), Return Result (Last), Return Error or Reject.

Any use of other SS7 protocol parts, in particular the ISDN User Part (ANSI Standard T1.113), is outside the scope of this advisory.

**AIN Triggers**

The AIN, specified in Telcordia Technologies Inc (formerly Bellcore) GR-1298-CORE [AINGR: Switching Systems, Issue 04, Sep 1997 and Rev 01, Oct 1998], specifies the use of AIN at the SPOI. The specific portions of GR-1298-CORE currently supported by TELUS are:

- Section 4.2.2 - Originating Triggers (Off Hook Immediate, Off Hook Delay, Shared Interoffice Trunk, Public Feature Code, Specific Feature Code, Customized Dialing Plan, Specific Digit String, N11, Automatic Flexible Routing, O\_Called Party Busy, O\_No Answer)
- Section 4.2.3 - Terminating Triggers (Termination Attempt)

The Telcordia Technologies Inc. document GR-1298-CORE can be obtained from:

<http://telecom-info.bellcore.com/site-cgi/ido/index.html>

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TELUS reserves the right to modify the interface described in this Advisory for any reason including, but not limited to, ensuring that it conforms with standards promulgated by various agencies from time to time, utilisation of advances in the state of the technical arts, or the reflection of changes in the design of any equipment, techniques or procedures described or referred to herein.

TELUS shall not be liable for any damage or injuries incurred by any legal person or persons, including but not limited to corporations, arising directly or indirectly from a design incompatibility with the network, or any cause whatsoever.

This Advisory describes telecommunications services in generic terms only. This Advisory shall not be interpreted as a commitment by TELUS to offer a specific service, nor as a description of specific service offerings. TELUS offers services only on the basis of publicly filed tariff descriptions. These tariffs provide the only description of services offered by TELUS.

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