

ANALOGUE CONDITIONAL ACCESS SPECIFICATIONS

FOR THE TELSTRA MULTIMEDIA ACCESS AGREEMENT

Version 1.1 - Dated 20 November 2002

Customer:

1. General

- 1.1 These Specifications are the Analogue Conditional Access Specifications to the *Telstra Multimedia Access Agreement - Analogue Services (with transition to Digital Services)* between Telstra Multimedia Pty Limited ("**Telstra**") and the Customer ("**Agreement**"), as referenced by the Analogue Services Module to the Agreement.
- 1.2 Capitalised terms used in these Specifications have the same meaning as defined terms in the Dictionary and Analogue Services Module to the Agreement.
- 1.3 These Specifications may be varied from time to time in accordance with the Agreement. A later Version of these Specifications replaces every earlier Version.

2. CAS Usage Constraint

- 2.1 The Customer's use of the Analogue Conditional Access Service is subject to the following constraints ("**CAS Usage Constraints**"):

(a) Size

No more than 1 million active Smartcards in aggregate can be supported by the Conditional Access Gateway (including active Smartcards allocated to all other users of the Telstra HFC Network).

(b) Immediate Transactions

The Analogue Conditional Access Service is configured to process 100% of Immediate Transactions initiated by the Customer in an elapsed time \leq 120 seconds, provided no more than 200 immediate transactions are delivered to the Conditional Access Gateway per minute by all users of the Analogue Conditional Access Service.

"Immediate Transactions" are the initial End User Service entitlement messages generated by the Conditional Access Gateway when an End User Service entitlement is changed. Such messages are intended for transmission to the Smartcard at the relevant End User Premises, and when received by the relevant Smartcard, appropriately alter the End User Service entitlements of the End User.

(c) Queued Transactions

The Analogue Conditional Access Service is configured to process Queued Transactions at a rate of not more than 12,000 transactions per hour (being the aggregate number of transactions generated by all users of the Analogue Conditional Access Service).

"Queued transactions" are End User Service entitlement messages generated periodically by the Conditional Access Gateway to confirm an End User's End User Service entitlements.

(d) Smartcard Activation

The Analogue Conditional Access Service is capable of activating up to 200 Smartcards per hour (being the aggregate number of activations generated by all users of the Analogue Conditional Access Service, including FOXTEL).

(e) Number of Services

The Analogue Conditional Access Service delivered to the Customer is limited to a maximum of 2 End User Service Groups per Analogue Channel allocated to the Customer.

“End User Service Groups” are defined groups of End User Services such as a Basic or Premium. Each End User Service Group can be conceptually thought of as a slot on the Smartcard and if the slot is enabled then the relevant End User is entitled to watch the End User Services within the End User Service Group.

(f) Conditional Access Gateway Ports

There are only 3 ports available for the connection of subscriber management systems to the Conditional Access Gateway. Two of these ports must be shared between the Customer and other users of the Conditional Access Gateway. Telstra has already allocated the remaining port for connection of the Telstra Subscriber Management System to the Conditional Access Gateway.

(g) Smartcard Verification Database

The Customer will not send a Smartcard Number/checkdigit to the SMS Data Interface Point if the number is invalid using the checkdigit routine – see paragraph 2 of this Specification.

There are no detailed designs for the Smartcard Number verification database or SMS Data Interface Point, so complete descriptions of the constraints are not known at the date of this Specification. Any constraints in relation to such items will be advised by Telstra once known.

(h) CAG Data Interface Point

There are no detailed designs for the CAG Data Interface Point, so a complete description of the constraints is not known at the date of this Specification. Any constraints in relation to such item will be advised by Telstra once known.

(i) Conditional Access Equipment

The Conditional Access Equipment comprise Enhancements and Extensions and have not been acquired at the date of this Specification. Any constraints in relation to Conditional Access Equipment will be advised by Telstra once known.

2.2 The Customer must ensure that its use of the Analogue Conditional Access Service does not exceed any CAS Usage Constraints.

2.3 Where the aggregate usage of the Analogue Conditional Access Service by the Customer and other users exceeds a CAS Usage Constraint, the capacity of the Analogue Conditional Access Service may be allocated to the Customer and other users of the Conditional Access Service on a pro rata basis based on the number of Analogue Channels allocated to each user at the relevant time

3. Existing Smartcards – Smartcard Number Verification

- 3.1 Telstra will verify whether assumed Smartcard Numbers provided by the Customer for verification are the Smartcard Numbers of Existing Smartcards. Such verification is only possible in relation to active subscribers to FOXTEL's analogue Subscription Television Service.
- 3.2 The procedure to be followed for verification is:
- (a) the Customer must verify the Smartcard Number quoted by a prospective End User (obtained from the address panel of the End User's FOXTEL magazine) is valid using the checkdigit routine advised by Telstra from time to time before seeking verification of that number from Telstra;
 - (b) if the Smartcard Number and checkdigit quoted by a prospective End User is found to be valid using the checkdigit routine, the Customer may make a verification request to Telstra while supplying the Smartcard Number and checkdigit in the Customer SMS Data sent to Telstra;
 - (c) Telstra will attempt to determine whether the Smartcard Number and checkdigit accurately identify the number of an Existing Smartcard;
 - (d) subject to paragraphs 3.3 and 3.4, Telstra will return a response of either 'active' or 'not active' in the electronic format advised by Telstra
- 3.3 Only 3 verification requests per day are permitted on any one Smartcard Number. Telstra will not respond to any verification request from the Customer in respect of a particular Smartcard Number if the Customer has already made 3 verification requests in that day in respect of that Smartcard Number.
- 3.4 In circumstances where an Existing Smartcard is replaced or deactivated, Telstra is not required to notify the Customer of such replacement or deactivation.¹ The Customer must rely on the relevant End User to advise the Customer, and supply the new Smartcard Number and checkdigit in the case of a replacement. Telstra recommends that the Customer include a provision addressing this issue in the Customer's contract with its End Users.

4. Use of Customer STUs and Smartcards

- 4.1 Where an End User of the Customer is not a subscriber of FOXTEL's analogue Subscription Television Service, the Customer may supply its own smartcards and STUs in accordance with the process in paragraph 4.2 ("**Customer Smartcards**" and "**Customer STUs**", respectively).
- 4.2 Customer Smartcards and Customer STUs proposed to be used by the Customer in connection with the Analogue Conditional Access Service must be fully compatible with the Analogue Conditional Access Service and the Analogue Transmission Service. Customer STUs must not be used to receive a signal from the Telstra HFC network until approved by Telstra. Customer Smartcards must not be used to decrypt a signal from the Telstra HFC Network until approved by Telstra.
- 4.3 The process of approval for Customer Smartcards and Customer STUs is as follows.
- (a) the Customer must provide a detailed design to Telstra for assessment;
 - (b) Telstra will assess the design and provide a certificate of compatibility if the design is compatible with the Analogue Conditional Access Service and HFC network technology. Telstra will provide a rejection notice if the design is not compatible;
 - (c) as soon as a prototype Customer STU and Customer Smartcard is available, the Customer must provide the prototype Customer STU and Customer Smartcard to Telstra for testing;
 - (d) Telstra will conduct testing and provide a certificate of authorisation if the Customer STU and Customer Smartcard prototype is suitable for use with the Analogue Conditional Access Service and Analogue Transmission Service. Telstra will provide a rejection notice if the Customer STU and Customer Smartcard are not suitable. Telstra may

¹ Subject to any such functionality being included as an Enhancements and Extension.

impose conditions in relation to any certificate or authorisation if such conditions are reasonable in the circumstances.

- 4.4 The Customer is responsible for ensuring that any Customer STU it wishes to connect to the Telstra HFC Network is compliant with all other applicable requirements, regulatory standards and industry standards (eg electricity authorities, ACA, etc).

5. Customer CAG Data and CAG Data Interface Point

- 5.1 Customer CAG Data must be delivered by the Customer to the CAG Data Interface Point via a real-time interface, and in a format, which complies with the CAG Data Interface Point specification. The CAG Data Interface Point has not been designed at the date of this Specification and the CAG Data Interface Point specification will therefore be advised by Telstra once known.
- 5.2 Telstra will monitor the Customer CAG Data for compliance with the CAS Usage Constraints. Telstra will also seek to identify any unauthorised CAG transactions.
- 5.3 Telstra may reject Customer CAG Data in the following circumstances:
- (a) where a CAS Usage Constraint is exceeded;
 - (b) when an active Smartcard or Customer Smartcard already exists for a request to activate a Smartcard or Customer Smartcard;
 - (c) where the Customer requests to activate or de-activate an End User Service that is not an End User Service supplied by the Customer;
 - (d) where the Customer attempts to perform a transaction that the Customer is not allowed to perform; and
 - (e) where the Customer CAG Data is not in the required format.
- 5.4 The following are required Enhancements and Extensions for the purposes of the Agreement:
- (a) CAG Data Interface Point;
 - (b) equipment for the connection of the CAG Data Interface Point to the Customer's telecommunications link used to carry the Customer CAG Data to the CAG Data Interface Point; and
 - (c) equipment for the connection of the CAG Data Interface Point to the Conditional Access Gateway.

6. Customer SMS Data and SMS Data Interface Point

- 6.1 Since the interface between the SMS Data Interface Point and the Customer's SMS has not been designed at the date of this Specification, the interface specification will be advised by Telstra once known.
- 6.2 Telstra will monitor the Customer SMS Data for compliance with the CAS Usage Constraints.
- 6.3 The following are required Enhancements and Extensions for the purposes of the Agreement:
- (a) SMS Data Interface Point;
 - (b) equipment for the connection of the SMS Data Interface Point to the Customer's telecommunications link used to carry the Customer SMS Data to the SMS Data Interface Point; and
 - (c) equipment for the connection of the SMS Data Interface Point to the Conditional Access Gateway.

7. Conditional Access Equipment

- 7.1 The Conditional Access Equipment has not been acquired at the date of this Specification. The relevant specifications in relation to the Conditional Access Equipment will be advised by Telstra once known.

- 7.2 The Conditional Access Equipment is a required Enhancement and Extension for the purposes of the Agreement.