

ACIF G608:2004

AUSTRALIAN COMMUNICATIONS INDUSTRY FORUM

INDUSTRY GUIDELINE

EIE INFRASTRUCTURE COMMON NETWORK SPECIFICATION Industry Guideline - EIE Infrastructure Common Network Specification

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EXPLANATORY STATEMENT

This Explanatory Statement is to be read in conjunction with the ACIF G608:2004 *EIE Infrastructure Common Network Specification* Industry Guideline, "the Guideline".

This Explanatory Statement outlines the background, scope, objectives, processes and procedures described in the Code. The anticipated costs and benefits are also discussed.

The Guideline replaces ACIF G608:2002 *EIE Infrastructure Common Network Specification* Industry Guideline

Expressions used in this Explanatory Statement have the same meaning as in the Guideline.

Background

The need for an Electronic Information Exchange Common Network (EIEnet) evolved from a long process of reviewing the way that industry does business.

The Australian Communications Industry Forum (ACIF), the Service Provider's Industry Association (SPAN) and Telstra (AST) Working Groups were established in March 1998 to find solutions to identified problems in commercial churn, inter-operator billing and wholesale service provisioning & restorations, produced recommendations that led to the forming of the Telecommunications On-Line Initiative (TOLI).

TOLI identified a number of activities required to progress the on-line initiative in the short to medium term.

The TOLI identified objectives that include, but were not limited to:

- the telecommunications industry should be characterised by on-line electronic processes as opposed to paper based processes;
- wherever possible and appropriate for the particular transaction, electronic processes should allow more than the electronic transmission of data; and
- establishing on-line processes should be to facilitate competition and remove artificial barriers to entry. Accordingly, requirements for on-line interfacing should not themselves become barriers to entry.

This subsequently resulted in the establishment of the EIE Reference Panel under the direction of the ACIF and the formation of Working Committees to progress components of the initiative, titled the Electronic Information Exchange Programme.

The EIE Programme seeks to address the industry needs for on-line electronic capability for the exchange of information between telecommunications operators and to achieve the above objectives.

The industry recognised that the programme needed to be phased in with activities for planning and building infrastructure and capability, while fostering an industry mind-set favourably disposed towards standard interchange arrangements. Key to this approach is actual usage through pilot projects, incentives for early adoption and ongoing application development.

The Architecture and Planning Phase produced various documents which specified the requirements for the Administration Node and Business Process Models and Transactions. These include:

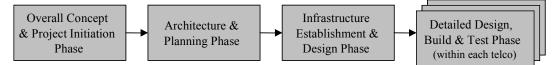
- Infrastructure Inventory of Systems
- Architecture Requirements
- Security Addendum to the Architecture Requirements
- Infrastructure Architecture
- Business Process Hierarchy Attributes
- Business Process Inventory
- Business Process Models

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- Process Requirements
- Data Repository Glossary
- EIE Message Derivation Process
- Repository Framework and Requirements
- EIE Operations Manual
- Resale Operations Manual
- Transaction to EIE Data Attribute Matrix
- EIE Change Management
- EIE Project Methodology
- Final Report V4

The Infrastructure Establishment and Design Phase covers the design and establishment of the Administration Node, the EIEnet and the messaging solution. The Administration Node has been developed and delivered.

The Detailed Design, Build and Test Phase covers the implementation of the EIE in each operator organisation.



The EIEnet is intended to enhance inter-operator arrangements by providing interconnectivity for the transfer of electronic transactions between Participants

The EIE Infrastructure Requirements

The EIE Infrastructure requirements are derived from the Terms of Reference of the EIE Reference Panel:

"To develop effective and efficient Business-to-Business (B2B) e-commerce systems to streamline industry interworking. This includes setting standards for on-line processes and the architecture through which on-line processes can take place."

The requirements that are most demanding of any infrastructure are non-functional. This is especially the case with EIE Infrastructure since the solution is required to support known and unforeseen inter-operator processes. The EIE Infrastructure non-functional requirements include:

- Openness open to multiple operators and their business and technical systems
- Extensibility able to expand in capability as required
- Affordability the cost of implementation should not restrict participation
- Scalable EIE must be able to grow in absolute terms
- Longevity the solution should remain contemporary for some years
- Resilience and security EIE needs to be trusted

The EIE Infrastructure is intended to support many processes and functions. Of these, the two key functions are:

- Messaging Transport of the messages that make up valid transactions and processes
- Bulk file transfer Transport of larger existing and anticipated files not suited to messaging

The EIEnet solution has also been guided by the preference of the Architecture Working Committee for a decentralised peer to peer solution for EIE Infrastructure where possible.

Leveraging off prior experience

The most significant existing common network is that used for MNP. While the MNP Common Network meets many EIE requirements it was designed for specific types of Participants and does not cater for Participants with less complex needs and smaller volumes of transactions. The EIEnet is based on the good design laid down by MNP and also caters for Participants whose needs are different to encourage early actual usage of EIE by a wider variety of Participants.

Objectives to be Achieved

The EIEnet is intended to support:

- a wide range of connection methods to support various levels of activity for EIE processes;
- access to EIEnet for all relevant Participants such that no party is placed at a competitive disadvantage;
- growth in such a way as to facilitate and not hinder increased usage of EIE;
- an EIE Infrastructure that will be contemporary, accessible and sufficiently long lived to encourage business and technical adoption;
- messaging and bulk file transfer;
- independence of suppliers and transparency to any other EIE Participant; and
- an architecture and infrastructure that does not require centralised management.

EIE Participants

A number of different categories of organisations are likely to benefit from the EIEnet:

Industry Operators

Access Service Deliverers

Carriage Service Providers

Portability Service Suppliers

Service Providers

Wholesalers

Retailers

Regulators and Regulatory bodies

ACIF

ACCC

ACA

Suppliers

Equipment

Facilities

Infrastructure

Developers

Organisations can have access to the EIEnet when they participate in one or more EIE applications.

Anticipated Benefits to Consumers

By providing a common network infrastructure, the EIEnet will provide benefits to all consumers of telecommunication related industries by enabling:

- lower costs for transaction transport between Participants;
- shorter lead times to develop transport mechanisms and therefore faster time for application development to bring new products to market;
- data transfer with less errors as a result of the automated electronic exchange; and
- provide greater security over data being exchanged between Participants.

Anticipated Benefits to Industry

The communications industry operates within a diverse and complex process environment. The processes within this environment and the relationships between industry operators often require multiple links to various Participants for various applications.

The development of an EIEnet represents an opportunity to improve greatly the interactions between the industry operators by providing a single connection for a multiplicity of applications with various other Participants. The eventual migration of some applications that presently require dedicated links will also minimise costs for many EIE Participants.

The EIEnet forms the backbone method of facilitating delivery of transactions to other industry Participants allowing Participants to concentrate on the actual application development. By not having to reinvent new delivery mechanisms this makes it easier for industry to develop and deploy new products and applications.

Anticipated Cost to Industry

The communications industry operates within a diverse and complex process environment. The processes within this environment and the relationships between industry operators often require multiple links to various Participants for various applications.

The development of an EIEnet represents an opportunity to improve greatly the interactions between the industry operators by providing a single connection for a multiplicity of applications with various other Participants. The eventual migration of some applications that presently require dedicated links will also minimise costs for many EIE Participants.

The EIEnet forms the backbone method of facilitating delivery of transactions to other industry Participants allowing Participants to concentrate on the actual application development. By not having to reinvent new delivery mechanisms this makes it easier for industry to develop and deploy new products and applications.

Ownership

Ownership of the EIE Administration Node application software belongs with ACIF.

The EIEnet is a virtual network. Respective supplier(s) and EIE Participants will own the physical elements, but to ensure that no EIE application impacts on another application, access to the EIEnet will be under the control of the EIE Management Committee.

The owner(s) of the physical elements will have a number of responsibilities including security of access, transparency of interconnection, performance, reliability and change management. Implementation of relevant EIE applications will be the responsibility of the Participants.



Review

The Guideline was reviewed in late 2003 to standardise the use of terms used to identify EIEnet users, to allow the use of the same MNP PIPN infrastructure for EIE purposes (where approved by the EIEMC and the MNP Administration Group and subject to the effect that it has no impact on MNP performance) and includes checklists to assist users of the EIEnet.

Alexander R Osborne Chairman *EIEMC/WG1 : EIE Infrastructure Common Network* Working Group



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1 SCOPE AND OBJECTIVES

1.1 Scope

This document specifies the requirements of the EIEnet to provide interconnectivity which facilitates electronic information exchange between Participants.

1.2 Objectives

The purpose of this document is to define technical specifications and other requirements for interfacing between Participants and the behaviour of a single and multiple provider EIEnet.

A multiple provider EIEnet must provide seamless and transparent interconnection between any and every EIE Participants.

1.3 Guideline Review

Review of the Guideline will be conducted after 12 months of initial commencement and every five years subsequently.



2 ACRONYMS, DEFINITIONS AND INTERPRETATIONS

2.1 Acronyms

For the purposes of the Guideline, the following acronyms apply:

ATM	Asynchronous Transfer Mode
ACIF	Australian Communications Industry Forum
BGP	Border Gateway Protocol
CSP	Carriage Service Provider
DNS	Domain Name Server
DSL	Digital Subscriber Line
EIE	Electronic Information Exchange
EIEMC	Electronic Information Exchange Management Committee
IP	Internet Protocol
IPsec	IP Security
ISDN	Integrated Service Digital Network
MNP	Mobile Number Portability
PIPN	Private IP Network
PSTN	Public switched telephone network
SLA	Service Level Agreement

2.2 Definitions

For the purposes of the Guideline, the following definitions apply:

Act

means the Telecommunications Act 1997.

Application Provider

means the entity providing an application deployed on the EIEnet.

Application User

means the entity using an application deployed on the EIEnet.

Carriage Service Provider

has the meaning given by section 87 of the Act.

Carrier

has the meaning given by section 7 of the Act.

DS3

means Digital Signal Level 3 digital signal transmission at 45 Mbps bit rate.

E1

means the label used to describe the digital signal transmission at 2 Mbps bit rate.

EIE Administration Node

means the central node that provides services to support applications deployed on the EIEnet.

EIEnet

means the EIE Common Network.

EIEnet Provider

means the Network Provider of the EIEnet.

Network Provider

means a supplier of the physical EIE network infrastructure.

Participant

means a party involved in EIE applications.

xDSL

means the family of digital subscriber line products.

2.3 Interpretations

In the Guideline, unless the contrary appears:

- (a) a reference to a statute, ordinance, code or other law includes regulations and other instruments under it and consolidations, amendments, re-enactments or replacements of any of them;
- (b) words in the singular includes the plural and vice versa;
- (c) words importing persons include a body whether corporate, politic or otherwise;
- (d) a reference to a person includes a reference to the person's executors, administrators, successors, officer, employee, volunteer, agent and/or subcontractor (including but not limited to, persons taking by novation) and assigns;
- (e) if a period of time is specified and dates from a given day or the day of an act or event, it is to be calculated exclusive of that day; and
- (f) a reference to a day is to be interpreted as the period of time commencing at midnight and ending 24 hours later.

3 REFERENCES

Publication	Title
Industry Guidelines	
ACIF G573.3:2004	Mobile Number Portability IT Specification, Part 3: Common Network
Industry Documents	
EIE Architecture and Pla	nning Phase - Infrastructure Architecture Issues and Requirements
EIE Architecture and Plan	nning Phase - Security Addendum to the Architecture Requirements
EIE Architecture and Plan	nning Phase - Final Report
EIE Overview and Conce	epts
T 1	1005

Telecommunications Act 1997



4 EIE COMMON NETWORK (EIENET)

4.1 Introduction

4.1.1 EIE infrastructure is an electronic Business-to-Business (*B2B*) messaging platform that allows Participants to exchange information electronically with each other, in order to perform business functions. The EIE Infrastructure is designed to accommodate a large variety of business applications.

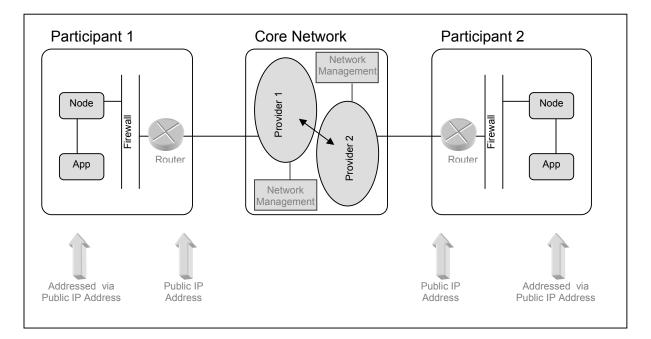


FIGURE 1

ElEnet – Conceptual View

- 4.1.2 The EIEnet will be provided by one or more Network Providers. A multipleprovider EIE Common Network will provide seamless and transparent interconnection between any and every EIE Participant. Network management is expected to be provided by each Network Provider.
- 4.1.3 Information exchange is essentially between peer-to-peer messaging nodes. Messaging nodes are connected through the EIEnet. Connection to the EIEnet will be via a supported dedicated access or dial-up access method.
- 4.1.4 Nodes will be connected to the EIEnet via Participant supplied equipment (i.e. routers) and are protected by firewalls and other relevant security provisions. Each node must be addressable via a public IP address.

4.2 Access

- 4.2.1 The EIEnet is a communications medium that is only available to those parties approved by the EIEMC for EIE approved applications.
- 4.2.2 EIEnet Providers must not provide access to the EIEnet without the written consent of the EIEMC.





- 4.2.3.1 Dedicated access will support one or more of the following technologies:
 - (a) ATM

- (b) Frame Relay
- (c) E1
- (d) DS3
- 4.2.3.2 Dial-up access will support one or more of the following technologies:
 - (a) Internet access
 - (b) xDSL access
 - (c) Service Provider solutions (PSTN, ISDN)
 - (d) Cable modems

NOTE: Applications will determine whether dial-up access is supported.

Detailed requirements for the access technologies are specified in the following table.

Access Specification					
Access Technology	Connection Protocol	Authentication Protocol	IP Address	Routing Protocols	Potential Speeds to be supported
АТМ	ATM-UNI 3.1	N/A	Public	BGP4, Static	16Kbps to 34Mbps
Frame Relay	V.35, X.21, G.704	N/A	Public	BGP4, Static	16Kbps to 34Mbps
E1	E1	N/A	Public	BGP4, Static	2Mbps
DS3	DS3	N/A	Public	BGP4, Static	45Mbps
Internet access	PPP	RADIUS & IPsec	Public	Static	56Kbps to 128Kbps
XDSL access	PPP	RADIUS	Public	Static	64Kbps to 1.5Mbps
SP Solutions	PPP	RADIUS	Public	Static	56Kbps to 128Kbps
Cable modems	PPP	RADIUS	Public	Static	Up to 10Mbps

TABLE 1 Access Specification

NOTE: The parameters used in the authentication of a dial-up access must, as a minimum, include the ability to track a user name to a valid access organisation (Network Provider). For example, ensuring a User Name contains a registered internet domain name (eg. joe.bloggs@mysp.com.au).

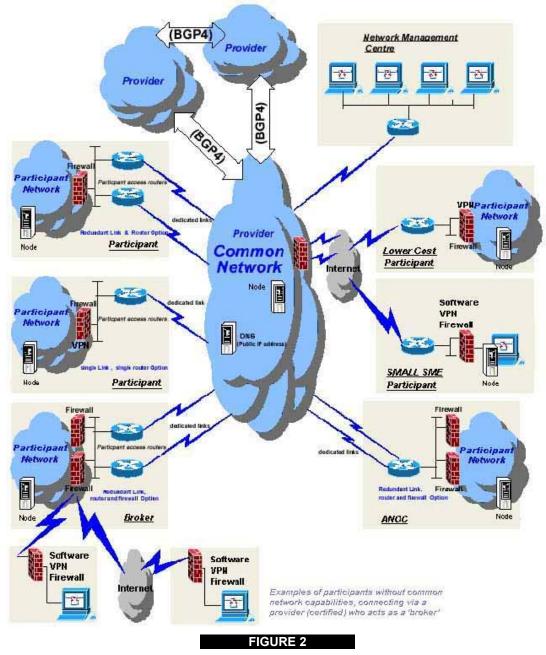
The internet access must be secured with an encrypted IPsec tunnel. X.509 digital certificate or IPsec shared secret, IKE protocol, and Triple-DES with 128-bit encryption must be used with the establishment of an IPsec tunnel.

Network Providers must apply firewall policies to permit packets only with a valid source address for the IP address range defined for each access connection. Additional firewall security must be applied for each internet access to deny packets that bear a source address used with other access methods.

4.3 ElEnet Access Technologies

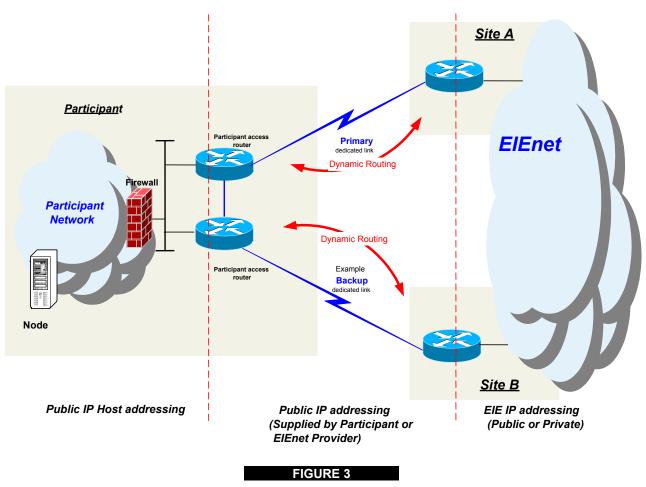
4.3.1 Various permutations of EIEnet access technology are shown in the following diagrams.

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EIEnet with access permutations

SECTION 4



Example of access to ElEnet with dynamic routing



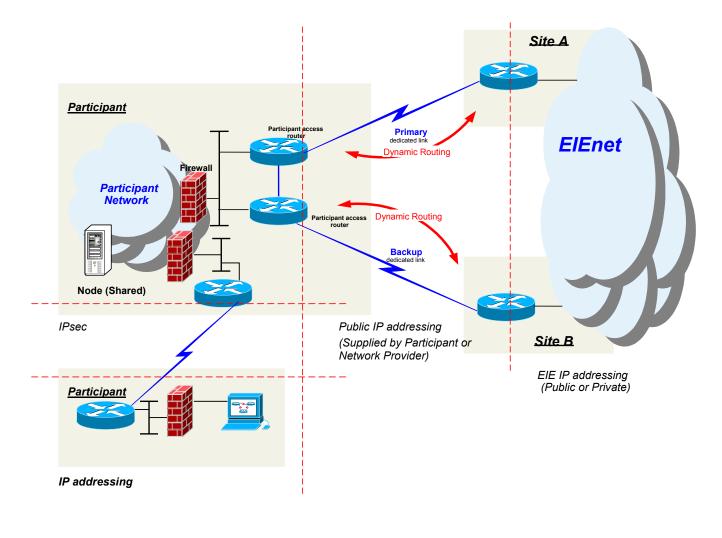


FIGURE 4

Example of a certified EIE Participant providing a bureau service

4.4 Interconnection

- 4.4.1 Network Provider to Network Provider
 - 4.4.1.1 Border Gateway Protocol (BGP4) must be used as the base routing protocol for interconnection between Network Providers.
- 4.4.2 Participant to Network Provider
 - 4.4.2.1 A Participant will access the EIEnet through the network access device (e.g. router) located on the Participant's premise. The network access device can be managed either by the EIEnet Provider or by the Participant.

- 4.4.2.2 If using a router, the Participant may elect to use static or dynamic routing between themselves and the EIEnet dependent on their choice of access and application.
- 4.4.2.3 It is highly recommended that Border Gateway Protocol (BGP4) is used as the base routing protocol for interconnection between the Participant and Network Provider where dynamic routing protocol is required.
- 4.4.2.4 For maximum compatibility, proprietary network routing protocols (for example, IGRP, EIGRP) must not be used.

4.4.3 Priority Scheme

- 4.4.3.1 A priority scheme is a term that refers to a traffic path associated with a data traffic priority. A minimum of two priority schemes must be supported by the Network Provider. This is to facilitate separation of applications with different data traffic priorities (e.g. test and production).
- 4.4.3.2 The implementation of the priority scheme will be negotiated between the Participant and the Network Provider.
- 4.4.3.3 Where a Participant uses the MNP PIPN as the EIEnet, each application associated with the EIEnet as authorised in Clause 5.1 of ACIF G573.3:2004 *Mobile Number Portability IT Specification, Part 3: Common Network* Industry Guideline must be on a channel separate to those used for MNP, and must not have any impact on any MNP channel or priority scheme.

4.5 IP Addressing

- 4.5.1 EIE application servers and Participant access routers must be addressable using public IP addresses. Where the Participant does not supply the Public IP addresses then they may be supplied by the Network Provider.
- 4.5.2 Within the EIEnet, public or private IP addresses may be used.
- 4.5.3 IP v4 is the protocol to be used.

4.6 Setup of Firewall

4.6.1 A firewall must be used in the Participant network. The firewall must be capable of passing authorised inbound and outbound traffic of relevant EIE applications.

4.7 Domain Name System (DNS)

4.7.1 A Network Provider may provide a DNS service for use by the EIE Participants. Where the DNS service is provided it must be accessible using a public IP address.

4.8 Network Security between the Participant and Network Provider

- 4.8.1 Dial-up Access
 - 4.8.1.1 IP tunnels are to be used over internet connections. The security method to be used is IPsec. It is highly recommended that IPsec client software supplied will conform to Internet Engineering Task Force *(IETF)* IPsec Working Group RFCs.

- 4.8.1.2 The parameters used in the authentication of a dial-up access must, as a minimum, include the ability to track a user name to a valid access a User Name containing a registered internet domain name *(eg. joe.bloggs@mysp.com.au)* and a password.
- 4.8.1.3 The internet access must be secured with an encrypted IPsec tunnel. X.509 digital certificate or IPsec shared secret, IKE protocol, and Triple-DES with 128-bit encryption must be used with the establishment of an IPsec tunnel.
- 4.8.1.4 Network Providers must apply firewall policies to permit packets only with a valid source address for the IP address range defined for each access connection. Additional firewall security must be applied for each internet access to deny packets that bear a source address used with other access methods.

4.8.2 Wireless Access

4.8.2.1 If access is wireless, the Network Provider must demonstrate that the wireless network is secure. Encryption provided from the device to the network must meet or exceed the same level of security as specified for dial-up access over the internet.

4.9 Network Scalability

4.9.1 The network solution must be scalable to be able to carry actual volumes of EIE transactions. It is expected that each Network Provider has monitoring and upgrade capabilities to ensure that their network can meet the demand.

5 DATA LINK REDUNDANCY

5.1 Participant

- 5.1.1 It is highly recommended that Participants subscribe to a back-up link to an alternative physical path. This is to be addressed through commercial agreement between each Participant and a nominated Network Provider.
- 5.1.2 Participants may arrange back-up links in two ways:
 - (a) by subscribing to multiple Network Providers (where available); or
 - (b) by having fully redundant (and, where possible, diversely routed) links to different locations of a single Network Provider.

5.2 Network Provider

- 5.2.1 The Network Providers must ensure their networks have no single point of failure and must be able to support requirements for back-up links with location diversity.
- 5.2.2 It is the responsibility of the Network Provider to meet minimum SLAs as specified in Section 6 of this document and relevant application specific SLAs.

6 SERVICE LEVELS

6.1 Core Network Availability

- 6.1.1 The standard availability target for all EIE Network Providers is 99.85%.
- 6.1.2 The service performance objectives in Table 2 apply to EIE Network Providers.

TABLE 2

Service Performance Objectives

Class of Service	Standard
Data Delivery Ratio %	99.90%
Frame Relay	V.35, X.21, G.704
Network Availability %	99.98%
Round Trip Transit Delay (milliseconds maximum)	100
Packet Delay Variation (milliseconds maximum)	20

6.1.3 Availability targets are averaged over a one calendar month period. All targets apply within the EIEnet and do not include access services. Planned outages are excepted.

NOTE: The above figures do not include access points.

6.2 Planned Outages

- 6.2.1 In the event that a Network Provider needs to carry out maintenance on their network, they must notify ACIF, each of their Participant customers and other Network Providers as per pre-established bilateral arrangements. Should maintenance require industry co-ordination with respect to scheduling the planned outage, agreement must be sought through the EIE Management Committee and agreement must be in place before the planned outage is carried out.
- 6.2.2 Details of all planned outages will be provided on the ACIF website and updated when there is a change.
- 6.2.3 ACIF will maintain the planned outages log on their website www.acif.org.au with updates on a daily basis or within 24 hours (1 business day) of notification of the outage. The planned outage log is password protected.

7 COMMERCIAL OFFERING

Access to the EIEnet will be provided to Participants by Network Providers on a commercial basis.

8 FAULT MANAGEMENT

8.1 General

- 8.1.1 The EIEnet must provide self-diagnostic capability to identify faults in the network. The self-diagnostic capability includes the ability for any Participant to 'ping' and 'trace-route' to all other Participants' access routers and edge routers across different EIEnet physical networks.
- 8.1.2 A contact list must be provided to ACIF by each EIEnet Provider for the reporting and escalation of faults. The list must include first, second and third level contact details. The contact list will be available to EIEnet Participants on the ACIF website.
- 8.1.3 Fault management procedures and Service Levels must be agreed between the Participant and the EIEnet Provider.

8.2 Participant to ElEnet Provider

8.2.1 EIEnet Participants and Provider(s) are responsible for ensuring that appropriate arrangements are agreed between themselves for fault management procedures.

APPENDIX A EIENET APPLICATION PROVIDER CHECKLIST

For applications enabling peer to peer communications

An Application Provider is required to go through the following steps to arrange connection to the EIEnet and use of an application on the EIEnet:

1. ACIF

- 1.1 If not currently an EIE Subscriber, approach the ACIF EIEMC for approval to subscribe to the EIE.
- 1.2 If a current EIE Subscriber go to next step.

Description	The Application Provider's organisation must be an EIE contracted subscriber. This is the " <i>financial</i> " subscription where the organisation pays its dues.
Rationale	Without being a subscriber, access to EIE will not be given by ACIF.
Cost	EIE membership fees are incurred.
	No system cost impact
Reference Documentation	EIE Overview and Concepts
Documentation	EIE Subscriber Agreement

- 1.3 Approach the ACIF EIEMC for approval to deploy the application on the EIEnet
- 1.4 Where the Application Developers request to deploy the application on the EIEnet is approved, the EIEMC to authorise the EIEnet Provider(s) to implement an application access connection within the EIEnet.

NOTE: The new application access connection must not impact the existing applications if an existing channel is shared. The network solution provider and the Application Provider and Application User will determine the optimum solution for application access connection.

2. Administration Node Operating Company (ANOC)

- 2.1 Approach the ANOC to arrange:
 - EIE Subscription

Description	The Application Provider's organisation must be registered upon the EIE Administration Node. This is the "physical" subscription where the organisation is assigned a userid and password
Rationale	Without system registration an organisation and its staff cannot access the EIE Administration Node and utilise it components.
Cost	No further system cost impact to deploy the application.
	However, cost will be incurred for any specific application development required to support the application in the EIE Administration Node (e.g. specialised screens)

Reference
DocumentationApplication Provider can confirm registration through EIE web
portal subscriber administrator details.

- Loading of application service definitions into the "centralised register and repository"
- Development of test scenarios for "compliance checking" (optional) where it is requested by the Application Provider.

3. ElEnet Provider

- 3.1 Approach EIEnet Provider(s) to discuss the impact of the new application; including identifying target audience and size and volume of transactions; to determine most appropriate EIEnet access solution, then:
 - if no link in place, arrange EIEnet connection; or
 - if link in place, review current bandwidth and assess need for additional bandwidth;
 - identify approach to either sharing a channel, or adding an additional channel for the new application

Description	Where approval given by the EIEMC to deploy an application on the EIEnet:
	 ACIF EIEMC to authorise the EIEnet Provider to implement an application access connection within the EIEnet.
	• the Application Provider to determine with the EIEnet Provider and the Application User the optimum solution for application access connection.
	NOTE: The new application access connection must not impact any existing applications, especially where an existing channel is shared.
Rationale	To ensure that access to existing applications over the EIEnet is not adversely impacted.
Cost	Network dollars will be incurred by the Application Provider and/or Application Users if new network connection or additional bandwidth on an existing network connection is required. The magnitude of the cost will vary, depending on the solution determined for the specific application.
Reference Documentation	ACIF G608:2004 EIE Infrastructure Common Network Specification Industry Guideline

4. Application Provider to ensure:

4.1 Applications using WSDL must be compliant with Web Services International Standards.

Description	This can be done by utilising the EIE Administration Node's WSDL compliance checker.
Rationale	This is the only way to ensure full interoperability across any to any platform communication.
Cost	No cost to provide ability to access the International Web Services

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Standards body for WSDL standard compliance checking and functionality is fully re-useable.

Reference	ws-i.com website (http://www.ws-i.org/implementation.aspx) will be
Documentation	used.

4.2 The Application Provider must arrange with the ANOC to ensure that the appropriate WSDL is loaded into the "centralised register and repository".

Description	The EIE Administration Node must be enabled to extract and download the WSDL from the Application Provider's storage source.
	The EIE Administration Node will support multiple versions of the WSDL documents.
	The EIE Administration Node has the ability to:
	 provide a Polling and synchronisation mechanism between the EIE Administration Node and the Application Provider's document source
	notify subscribers of service definition changes
	 display registered service definitions for viewing by subscribers
Rationale	Ensure any organisation can view application service definitions (WSDL and associated content).
Cost	Any costs associated with the development of specific screens required for an application are the responsibility of the Application Provider.
Reference Documentation	Centralised registry and repository is accessible through: https://prod.eie.net.au/portal

4.3 Compliance checking must be available on the EIE Administration Node.

Description Application Provider is to provide the appropriate documentation that will enable application level compliance checking to be performed by the EIE Administration Node:

- WSDLs
- transaction dialogues
- · test scenarios that meet compliance criteria

Application Provider must request a new Application User to undertake compliance checking against the EIE Administration Node. Upon successful completion of compliance checking by the Application User, the ANOC must send e-mail notification to the Application Provider and Application User, including compliance checker logs. The Application Provider must obtain this notification in relation to an Application User before allowing that Application user access to the application.

The EIE Administration Node will support the testing of multiple

releases.

	Where an existing application is being made available via the EIEnet the Application Provider may waive compliance testing against the EIEnet Administration Node by the Application User, and in this case will provide the certificate of compliance to the Application User itself.
Rationale	Enables shake out of potential system issues.
	Enables any valid customer to commence development without having to be scheduled into an Application Provider's deployment schedule.
	Compliance checking on the EIE Administration Node is always available (as per the contractual SLA's between ANOC and ACIF), i.e. no dependency on the Application Provider.
	Enables a much smoother transition into integration testing with the Application Provider.
Cost	Any costs associated with development or deployment of required test scenarios for the EIE Administration Node are the responsibility of the Application Provider.
Reference Documentation	EIE Administration Node Core Services
	EIE Compliance Checking – Application Provider Template

APPENDIX B EIENET APPLICATION USER CHECKLIST

For applications enabling peer to peer communications

On approval from an Application Provider to allow access to an application deployed over the EIEnet, the Application User is required to go through the following steps to arrange connection to the EIEnet:

1. ACIF

- 1.1 If not currently an EIE Subscriber, approach the ACIF EIEMC to subscribe to the EIE
- 1.2 If a current EIE Subscriber go to step 2.

Description	The Application User's organisation must be an EIE contracted subscriber. This is the "financial " subscription where the organisation pays its dues.
Rationale	Without being a subscriber, access to EIE will not be given by ACIF.
Cost	EIE membership fees are incurred.
	No system cost impact
Reference Documentation	EIE Overview and Concepts
	EIE Subscriber Agreement

2. Administration Node Operating Company (ANOC)

2.1 Approach the ANOC to register subscription to the EIE and to use application(s) deployed on the EIEnet

Description	The Application User's organisation must be registered upon the EIE Administration Node. This is the "physical" subscription where the organisation is assigned a userid and password
Rationale	Without system registration an organisation and its staff cannot access the EIE Administration Node and utilise it components.
Cost	No further ACIF cost to access the deployed application.
	However, costs are likely to be incurred to access specific applications, payable to the Application Provider
Reference Documentation	Application Provider can confirm registration through EIE web portal subscriber administrator details.

3. ElEnet Provider

- 3.1 Approach EIEnet Provider(s) to discuss the impact of accessing the application; including size and volume of transactions; to determine most appropriate EIEnet access solution, then:
 - if no link in place, arrange EIEnet connection; or

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- if link in place, review current bandwidth and assess need for additional bandwidth;
- identify approach to either sharing a channel, or adding an additional channel for the new application.

Description	Where the Application User has subscribed to EIE and approval given by the Application Provider to access a deployed application on the EIEnet the Application User to determine with the EIEnet Provider and the Application Provider the optimum solution for application access connection.
	NOTE: The new application access connection must not impact any existing applications, especially where an existing channel is shared.
Rationale	To ensure that access to existing applications over the EIEnet is not adversely impacted.
Cost	The Application User will incur network dollars if new network connection or additional bandwidth on an existing network connection is required. The magnitude of the cost will vary, depending on the solution determined for the specific application.
Reference Documentation	ACIF G608:2004 <i>EIE Infrastructure Common Network</i> <i>Specification</i> Industry Guideline

4. Application User to ensure:

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4.1 The appropriate WSDL is loaded from the "centralised register and repository" (where applicable).

Description	The EIE Administration Node must be enabled to extract and download the WSDL from the Application Provider's storage source.
	The EIE Administration Node will support multiple versions of the WSDL documents.
	The EIE Administration Node has the ability to:
	 provide a Polling and synchronisation mechanism between the EIE Administration Node and the Application Provider's document source
	notify subscribers of service definition changes
	 display registered service definitions for viewing by subscribers
Rationale	Ensure any organisation can view application service definitions (WSDL and associated content).
Cost	Any costs associated with the development of specific screens required for an application are the responsibility of the Application Provider.
Reference Documentation	Centralised registry and repository is accessible through: https://prod.eie.net.au/portal

4.2 Compliance checking carried out on the EIE Administration Node

NOTE: Where the Application User has undertaken previous testing with a satisfactory result, or is a current user of the application via another delivery method, this step may not be required and is a matter between the Application Provider and the Application User. However, where compliance testing against the EIEnet Administration Node is not required, the Application Provider must issue a certificate of compliance to the Application User, who may then use this as proof of compliance to other Application Users and the ANOC.

Description	Application User to access appropriate documentation to carry out application level compliance checking to be performed by the EIE Administration Node:
	• WSDLs
	transaction dialogues
	test scenarios that meet compliance criteria
	Upon successful completion of compliance checking, the ANOC must send e-mail notification to the Application Provider and Application User, including compliance checker logs. The Application Provider must obtain this notification in relation to the Application User before allowing that Application User access to the application.
	NOTE: The EIE Administration Node will support the testing of multiple releases.
Rationale	Enables shake out of potential system issues.
	Enables any valid customer to commence development without having to be scheduled into an Application Provider's deployment schedule.
	Compliance checking on the EIE Administration Node is always available (as per the contractual SLA's between ANOC and ACIF), i.e. no dependency on the Application Provider.
	Enables a much smoother transition into integration testing with the Application Provider.
Cost	Any costs associated with completing the required test scenarios for the EIE Administration Node are the responsibility of the Application Provider.
Reference Documentation	EIE Administration Node Core Services
	EIE Compliance Checking – Application Provider Template

ACIF is an industry owned, resourced and operated company established to implement and manage communications self-regulation within Australia. ACIF's role is to develop and administer technical and operating arrangements to foster a thriving, effective communications industry serving the Australian community through

- the timely delivery of Standards, Codes and other documents to support competition and protect consumers;
- widespread compliance; and
- the provision of facilitation, coordination and implementation services to enable the cooperative resolution of strategic and operational industry issues.

ACIF comprises a Board, an Advisory Assembly, standing Reference Panels, task specific Working Committees, Industry Facilitation/Coordination Groups, Consumer Advisory Bodies and a small Executive. Its members include carriers, carriage/content service providers, business and residential consumer groups, industry associations and individual companies.

The ACIF Standards and Codes development process involves the ACIF Board, Reference Panels, Working Committees and the ACIF Executive. The roles and responsibilities of all these parties and the applicable operating procedures are specified in the ACIF Operating Manual.

These procedures are based upon ACIF's openness, consensus, representation and consultation imperatives and have been designed to ensure that all sectors of Australian society are reasonably able to influence the development of Standards and Codes. Reference Panels and Working Committees must be representative of parties interested in the subject matter of the body of work being undertaken. All draft Codes/Standards are also released for public comment prior to publication to ensure outputs reflect the needs and concerns of all stakeholders.

Care should be taken to ensure that material used is from the current version of the Standard or Industry Code and that it is updated whenever the Standard or Code is amended or revised. The number and date of the Standard or Code should therefore be clearly identified. If in doubt please contact ACIF.



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