IEEE P802.19  
Wireless Coexistence

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Keep alive mechanism | | | | |
| Date: 2014-01-21 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | email |
| Stanislav Filin | NICT |  |  | sfilin@nict.go.jp |
| Hiroshi Harada | NICT |  |  |  |

Abstract

This document is a submission to IEEE 802.19 TG1 proposing resolution to comment i-82.

**Notice:** This document has been prepared to assist IEEE 802.19. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.

# Proposed update

*It is proposed to modify draft as shown in the text below.*

*In Annex B.1:*

**-----------------------------------------------------------**

**--Connection establishment**

**-----------------------------------------------------------**

--Request for connection

TrConnectionRequest ::= SEQUENCE {

--Source ID

sourceID CxID,

--Destination ID

destinationID CxID,

--Keep alive interval [s]

keepAliveInterval REAL OPTIONAL

}

*In clause 6.1.1.3:*

* + - 1. Connection establishment

Figure 48 shows COEX\_TR\_SAP operation during connection establishment.



1. ・COEX\_TR\_SAP operation during connection establishment.

The source entity shall generate ***TrConnectionRequest*** primitive and send it to the source entity transport service using its COEX\_TR\_SAP. ***keepAliveInterval*** is an optional parameter that is used for indicating keep alive interval to transport service. If the source entity does not need to use keep alive mechanism, ***keepAliveInterval*** parameter shall not be used. When generating the ***TrConnectionRequest*** primitive, the source entity shall set its parameters as shown in the table below.

|  |  |  |
| --- | --- | --- |
| *Parameter* | *Data type* | *Value* |
| ***sourceID*** | ***CxID*** | Source entity ID. |
| ***destinationID*** | ***CxID*** | Destination entity ID. |
| ***keepAliveInterval*** | ***REAL OPTIONAL*** | Keep alive interval. |

The source entity transport service maps the destination entity ID to the destination entity IP address and port number, generates transport packet, and sends it to the destination entity via the underlying layers.

After the destination entity transport service has received the transport packet containing connection establishment request, it generates and sends ***TrConnectionIndication*** primitive to the destination entity.

Table below shows expected values of the parameters in the ***TrConnectionIndication*** primitive.

|  |  |  |
| --- | --- | --- |
| *Parameter* | *Data type* | *Value* |
| ***sourceID*** | ***CxID*** | Source entity ID from the received connection establishment request. |

After the destination entity has received the ***TrConnectionIndication*** primitive, it shall generate the ***TrConnectionResponse*** primitive and shall send it to its transport service. When generating the ***TrConnectionResponse*** primitive, the destination entity shall set its parameters as shown in the table below.

|  |  |  |
| --- | --- | --- |
| *Parameter* | *Data type* | *Value* |
| ***destinationID*** | ***CxID*** | Value of the ***sourceID*** parameter from the received ***TrConnectionIndication*** primitive. |
| ***status*** | ***Status*** | ***noError*** |

The destination entity transport service maps the destination entity ID to the destination entity IP address and port number, generates transport packet, and sends it to the destination entity via the underlying layers.

After the source entity transport service has received the transport packet containing connection establishment response, it generates and sends ***TrConnectionConfirm*** primitive to the source entity.

Table below shows expected values of the parameters in the ***TrConnectionConfirm*** primitive.

|  |  |  |
| --- | --- | --- |
| *Parameter* | *Data type* | *Value* |
| ***sourceID*** | ***CxID*** | Destination entity ID from the received connection establishment response. |
| ***status*** | ***Status*** | ***noError*** |