Association Information Exchange Form

The attached ICCP Association Information Exchange Form has been created to facilitate ICCP associations between ICCP nodes. All fields are required to create an association. ICCP node administrators should fill out this form using their own setup information. Thus the form will contain information supplied by *company-A* to *company-B* detailing the parameters needed during *company-B’s* ICCP association configuration. Note that similar information needs to be supplied by *company-B* to *company-A*.

Date:

Company-A:

Contact for Company-A:

Company-B:

Contact for Company-B:

|  |
| --- |
| General Notes: |
|  |

**Table 1: Company-wide / Server independent information**

|  |  |
| --- | --- |
| 1. ICCP vendor and platform

The name of the Company-A’s ICCP vendor, vendor software version, as well what operating system and hardware platform used for the ICCP servers. |  |
| 1. Number of possible ICCP servers:

This is the total number of ICCP servers that may be available to a remote client to associate with. Include backup servers if they have unique addresses. This number should equal the number of copies of Table 2 included in this form. Typically 1 - 10. |  |
| 1. Company A’s domain name:

The domain name of company A. Recommended to be the 4 character ISN node name of C*ompany-A.*  |  |
| 1. Company B’s domain name:

The domain name of company B. Recommended to be the 4 character node name of *company-B*.  |  |
| 1. Association type

“Single direction Client-Server”: Enter this if Company A’s and Company B’s ICCP nodes act as either Client or Server over one association. Information can be sent in only one direction per association. The client must initiate the association.“Dual direction Client-Server”: Enter this if Company A’s and Company B’s ICCP nodes act as Client and Server over one association. Information can be sent in either direction per association. The association type is determined by prior agreement between the two users. Typically “Dual direction Client-Server”. |  |
| 1. Association Initiation:

This field is only used if the association type is “Dual direction Client-Server” and indicates which ICCPnode shall initiate the association (e.g. *company-A*). The initiator of the association is determined by prior agreement between the two users. |  |
| 1. Bilateral table ID:

Company A’s bilateral table name used when Company B is accessing Company A’s data (e.g. “1.1”). |  |
| 1. Supported ICCP services:

A list of the conformance blocks supported by the server (e.g. Blocks 1, 2). |  |
| 1. ICCP version:

The version of ICCP running on the server (e.g. TASE.2 Version 1996-08). |  |
| 1. Shortest periodic interval:

Frequency in seconds at which Company B can request data from Company A.  |  |
| 1. Maximum MMS PDU size.

Size in bytes of the maximum MMS protocol data unit.  |  |

**Table 2: ICCP Server specific information**

|  |  |
| --- | --- |
| 1. Server names and descriptions:The names by which *company-A* refers to these servers. (Note: The following information boxes must remain in same server order!) |  |
| 2. IP network addresses:If you are using TCP/IP, this optional field is the IP address for this ICCP server if TCP/IP can be used as the network transport. |  |
| 3. AP Titles:Object identifier representing the Application Process Title given to this application. The standardized format of the AP Title is found in Appendix A. |  |
| 4. AE QualifiersA long integer (32 bit signed) is used to qualify the application entity.  |  |
| 5. Presentation Selectors (PSEL)2 or 4 byte number used to select the correct instance of the presentation layer (e.g. 00 09 or 00 00 00 09). |  |
| 6. Session Selectors (SSEL)2 or 4 byte number used to select the correct instance of the session layer (e.g. 00 09 or 00 00 00 09). |  |
| 7. Transport Selectors (TSEL)2 or 4 byte number used to select the correct instance of the session layer (e.g. 00 09 or 00 00 00 09). |  |
| 8X.509 Certificate filenameSubject CN, and expiration date. The current in use certificate information for this server identified by the filename and the CN contained in the subject field of the certificate. (Note: Only required if running Secure ICCP) |  |

**Appendix A: AP Title Standard**

The AP Title is used by some ISO applications to determine what application is calling since NSAP’s, TSEL’s, SSEL’s and PSEL’s of the caller may not passed to applications upon association. The AP Title consists of 9 16 bit decimal numbers:

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | 1 | 2 | 3 |
| Field format | One single 16 bit decimal integer) | One 16 bit decimal integer | Seven 16 bit decimal integers |
| Required value in decimal | 2 (joint-iso-ccitt) | 16 (country based naming hierarchy) | 3826 XXXX XXXX XXXX XXXX YYYY 0073(3826 is the abbreviated NERC org ID used to specify ISN applications), XXXX XXXX XXXX XXXX is for the registered ISN node ID in decimal (one 16 bit decimal number for each ASCII character in the site ID including padding underscores), YYYY is the for the node number (one 16 bit decimal number), the last 16 bit number is an application specification where decimal 0073 indicates ICCP.) |

For example, an ICCP application at MAIN1 would have an AP Title of:

0002 0016 3826 0077 0065 0073 0078 0049 0073

Note: Some ICCP vendors do not provide a user interface for setting AP Titles. In this case the user may be required to manually edit a Directory Information Base ASCII file.

ASCII to Hex and Decimal Conversion Table:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ASCII | Dec | ASCII | Dec | ASCII | Dec | ASCII | Dec |
| \_ | 95 | 9 | 57 | I | 73 | R | 82 |
| 1 | 49 | A | 65 | J | 74 | S | 83 |
| 2 | 50 | B | 66 | K | 75 | T | 84 |
| 3 | 51 | C | 67 | L | 76 | U | 85 |
| 4 | 52 | D | 68 | M | 77 | V | 86 |
| 5 | 53 | E | 69 | N | 78 | W | 87 |
| 6 | 54 | F | 70 | O | 79 | X | 88 |
| 7 | 55 | G | 71 | P | 80 | Y | 89 |
| 8 | 56 | H | 72 | Q | 81 | Z | 90 |

Note: Only use this ASCII conversion table to calculate the AP Title.

**Revision history**:

|  |  |
| --- | --- |
| Version Date | Comments |
| 1/16/98 | Added transport layer parametersAdded AP Title and NSAP appendices |
| 1/23/98 | Fixed IP addressing and association parameter errorsChanged AP Title standard |
| 2/24/98 | Added ICCP vendor information |
| 5/20/98 | Added more instructions to help user fill out forms. |
| 5/26/98 | Added cover pageAdded M,R,O column |
| 9/25/98 | Moved rows (formerly labeled 2.3 – 2.8 now labeled 1.3 – 1.8). Deleted row (formerly labeled 1.5) |
| 12/1/98 | In table 2, changed fields 4, 8, 9, and 10 from “Recommended” to “Mandatory” |
| 1/19/99 | Fixed typographical errors |
| 5/13/99 | Moved Association type and initiator from Table 2 to Table 1. Updated version number and date in header/ footer. [kbp] |
| 7/15/1999Version 2.0 | Made AP Titles mandatory per Appendix B. Removed John Gillerman as document owner. Upgraded document to Version 2.0. |
| 7/9/2009Version 3.0 | Made extensive revisions due to intial yearly document review. |