

**TO:** T10 Membership  
**FROM:** Paul A. Suhler, Quantum Corporation  
**DATE:** 15 February 2008  
**SUBJECT:** T10/08-111r0, IANA Notification of iADT Port Number

The Internet Assigned Numbers Authority (IANA) has assigned a Registered Port Number for the transmission of the Automation/Drive Interface Transport Protocol (ADT) frames over TCP. Following is the notification letter. It includes the text of the request.

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Dear Paul Suhler:

Thank you for your recent submission for a user port number (included below). We have reviewed and approved your application. The following user port number has been assigned to iadt with you as the point of contact:

```
iadt          4169/tcp    Automation Drive Interface Transport
iadt          4169/udp    Automation Drive Interface Transport
#             Paul Suhler <paul.suhler@quantum.com> 15 February 2008
```

See: <http://www.iana.org/assignments/port-numbers>

Please notify IANA if there is any change in contact information by completing the following template:

[http://www.iana.org/cgi-bin/mod\\_portno.pl](http://www.iana.org/cgi-bin/mod_portno.pl)

This ticket [IANA #142573] is considered resolved.

Best regards,

Pearl Liang  
IANA

On Tue Feb 12 14:38:42 2008, paul.suhler@quantum.com wrote:

```
>
> Application for User Registered Port Number
>
> Name :
> Paul Suhler
>
> E-mail :
> paul.suhler@quantum.com
>
> Protocol Number :
> TCP
>
> Message Formats :
> The most recent version of the ADT protocol is defined by ADT-2 rev. 5
> (http://www.t10.org/ftp/t10/drafts/adt2/adt2r05.pdf). Following is
> a brief summary of the protocol.
>
> The frame format and encoding is described in ADT-2 Clause 6. A frame
> consists of the ADT SOF character, header, payload, checksum, and
```

> ADT EOF character. The ADT Escape character is used in encoding to  
> ensure uniqueness of SOF and EOF in the byte stream.  
>  
> The frame header consists of Protocol, Frame Type, X\_Origin, Exchange  
> ID, Frame Number, and Payload Size.  
>  
> Message Types :  
> The message (information unit, or IU) type and the interpretation of  
> the Payload is determined by the Protocol and Frame Type fields.  
> The Link Service protocol (not to be confused with, e.g., the  
> Ethernet link layer) includes frame types ACK, NAK, Port Login,  
> Port Logout, NOP, Initiate Recovery, Initiate Recovery ACK,  
> Initiate Recovery NAK, Device Reset, and Timeout. The SCSI  
> Encapsulation protocol (Clause 7.1) includes Command, Response,  
> Transfer Ready, Data, and Task Management. The Fast Access  
> protocol includes VHF Request, VHF Data, Asynchronous Event  
> Report, and Asynchronous Event Report Control.  
>  
> Message opcodes :  
> The functions invoked by an information unit are specific to the  
> protocol. Link service actions are defined by ADT-2 Clauses 4 and  
> 6.5. Fast access actions are defined by Clause 7.2. SCSI  
> Encapsulation actions are defined by Clause 7.1 as well as by the  
> various INCITS T10 command standards, such as SPC-3 and ADC-2.  
>  
> Message Sequences :  
> The message sequences depend upon the protocol type. See the previous  
> question on op codes for the appropriate references.  
>  
> Protocol functions :  
> Control of removable-media storage devices installed in an automation  
> device, e.g., a tape drive in a tape library.  
>  
> Broadcast or Multicast used ?  
> no  
>  
> How and what for Broadcast or Multicast is used (if used):  
> n/a  
>  
> Description :  
> Tape drives (and other removable-media storage devices) installed in  
> libraries can use the Automation/Drive Interface Transport Protocol  
> (ADT) to communicate. Existing installations have used this  
> protocol over RS-422 serial connections. ADT provides framing,  
> login, and transport of SCSI and other upper-layer protocols.  
>  
> Next-generation tape drives may have Ethernet ports for communication  
> with their libraries. This can be done by running the ADT protocol  
> over TCP connections. A proposal for this (T10/07-469) is under  
> consideration by the ADI working group in the T10 technical  
> committee of INCITS. (Members of the working group include  
> Quantum, IBM, HP, Overland Storage, Storage Technology, BDT,  
> Tandberg Storage, and Sun Microsystems.)  
>  
> This request is to obtain a port number to be used for TCP connections  
> to carry ADT frames.  
>

> Name of the port :  
> Automation Drive Interface Transport  
>  
> Short name of the port :  
> iADT  
>  
>

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Internet Assigned Numbers Authority (IANA)  
4676 Admiralty Way, Suite 330  
Marina del Rey, California 90292

Voice: (310) 823-9358  
FAX: (310) 823-8649  
email: [miana-ports@iana.org](mailto:miana-ports@iana.org)  
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