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[Home](#) \* **Protocols**

A **Protocol** is a [formal description](#) of [digital message formats](#) and the rules for exchanging those [messages](#) in or between computing systems. A protocol describes the [syntax](#), [semantics](#), and [synchronization](#) of [communication](#). The nature of the communication, the actual [data](#) exchanged and any state-dependent behaviors are defined by a protocol [specification](#), the rules can be expressed by [algorithms](#) and data structures.

## Computer Chess Protocols

The aim of computer chess protocols is to define a standard to let a chess engine communicate with a [user-](#)

or [graphical user interfaces](#) (GUI), including a game- or match controller to let engines play automatically on a computer, inside a [computer network](#) or over the [internet](#). Chess engines, usually instantiated as [child process](#) of the GUI application, use [standard streams](#) or [pipelines](#) to receive and respond [ASCII strings](#) as messages.

- [Auto232](#) (deprecated)
- [Chess Engine Communication Protocol](#) as used by the [XBoard](#) or [WinBoard GUI](#)
- [icsdrone](#)
- [TLCs/TLCV](#) ([Web Broadcast](#))
- [Universal Chess Interface](#) (UCI)

## See also

- [Chess Server](#)
- [GUI](#)
- [InBetween](#)
- [Web Broadcast](#)

## Publications

- [Jean-Luc Koning](#), [Marc-Philippe Huget](#) (2000). *A Semi-Formal Specification Language Dedicated to Interaction Protocols*. [EJC 2000](#)
- [Chih-Hung Chen](#), [Shun-Shii Lin](#), [Min-Huei Huang](#) (2012). *Volunteer Computing System Applied to Computer Games*. [TCGA 2012 Workshop](#), [pdf](#)

## Forum Posts

### 2000 ...

- [Communication between two program versions](#) by [Leen Ammeraal](#), [CCC](#), September 07, 2000

### 2005 ...

- [Extensible Chess Interface \(XCI\) : updated draft](#) by [Michael Yee](#), [CCC](#), March 14, 2005
- [Re: Extensible Chess Interface \(XCI\) : updated draft](#) by [Lance Perkins](#), [CCC](#), March 14, 2005
- [XCI \(Extensible Chess Interface\) new draft](#) by [Michael Yee](#), [CCC](#), March 18, 2005

### 2010 ...

- [What should I support, UCI or Winboard?](#) by Asim Pereira, [CCC](#), April 22, 2012
- [for Chess-variant authors](#) by [Harm Geert Muller](#), [CCC](#), September 17, 2014 » [Chess Engine Communication Protocol](#), [WinBoard](#), [XBoard](#)

- [XBoard and chess variants](#) by [Evert Glebbeek](#), [CCC](#), October 28, 2014
- [UCCI2WB](#) by [Harm Geert Muller](#), [CCC](#), October 27, 2014 » [Chinese Chess](#), [UCI](#)
- [UCI protocol for chess variants](#) by [Evert Glebbeek](#), [CCC](#), October 28, 2014 » [UCI](#)

## 2015 ...

- [Crafty UCI version](#) by [Marek Soszynski](#), July 10, 2015 » [Crafty](#), [UCI](#)
- [communication protocols/servers for other games](#) by [Robert Pope](#), [CCC](#), September 08, 2017

## External Links

- [Protocol from Wikipedia](#)
- [Communication protocol from Wikipedia](#)
- [GUI Protocol List](#) from [Computer-Chess Wiki](#) by [Ron Murawski](#)

## Layers and Protocols

- [OSI model from Wikipedia](#)
- [TCP/IP model from Wikipedia](#)
- [Protocol stack from Wikipedia](#)
- [Internet Protocol Suite from Wikipedia](#)
- [Application Layer from Wikipedia](#)
  - [Hypertext Transfer Protocol \(HTTP\) from Wikipedia](#)
  - [File Transfer Protocol \(FTP\) from Wikipedia](#)
  - [Post Office Protocol \(POP\) from Wikipedia](#)
  - [Internet Message Access Protocol \(IMAP\) from Wikipedia](#)
- [Transport Layer from Wikipedia](#)
  - [Transmission Control Protocol \(TCP\) from Wikipedia](#)
  - [User Datagram Protocol \(UDP\) from Wikipedia](#)
- [Internet Layer from Wikipedia](#)
  - [Internet Protocol \(IP\) from Wikipedia](#)
  - [Internet Control Message Protocol \(ICMP\) from Wikipedia](#)
- [Link Layer from Wikipedia](#)
  - [Point-to-Point Protocol from Wikipedia](#)

## Related Standards

- [Message Passing Interface \(MPI\) from Wikipedia](#)
- [Common Object Request Broker Architecture \(Corba\) from Wikipedia](#)
- [JSON from Wikipedia](#)
- [SOAP from Wikipedia](#)
- [XML from Wikipedia](#)
- [XML Protocol from Wikipedia](#)

## Misc

- [Datagram](#)
- [Alpha Protocol](#) the [Role-playing video game](#)

## Simon Phillips

- [Simon Phillips](#), [Anthony Jackson](#) and [Ray Russell](#) - [Protocol](#) from [Simon Phillips Returns](#) 1992, [YouTube](#) Video
- [Simon Phillips](#) & Protocol, with [Ndugu Chancler](#) and [Billy Ward](#) - Biplane to Bermuda, MD Drumfestival 2008, [YouTube](#) Video featuring [Andy Timmons](#), [Everette Harp](#), [Steve Weingart](#), [Del Atkins](#)

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