

# ifSystemLog

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## Implemented By

- roSystemLog

## Supported Methods

- EnableType(logType as String) as Void

## Description of Methods

### EnableType(logType as String) as Void

Enables log message of type logType. When a log type is enabled, system log messages of that type are sent to the message port which was set using SetMessagePort(). All system log events are disabled by default and must be explicitly enabled by the application.

The current valid logTypes are:

Valid logTypes	Description
"http.connect"	Sent whenever a successful HTTP connection is made. This means that the server responded to the HTTP request with a success (2xx) status code.  <b>Note:</b> This does not necessarily mean that all of the body of the request has been received successfully.
"http.error"	Sent whenever an error occurs while executing an HTTP request.  This may be sent during the time of the initial connection for two possible reasons: <ul style="list-style-type: none"><li>• because the server responded with an error code, or</li><li>• data is being read from the body after the initial connection takes place.</li></ul>
"bandwidth.minute"	Sent every minute to report the current measured bandwidth.

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<p><b>“http.complete”</b></p> <p><i>This function is available in firmware 7.7 or later.</i></p> <p><b>Note:</b> All items in this table (to the right) apply to “http.complete.”</p>	Property / Key	Type	Description
	LogType	String	When enabled, the “http.complete” events will be sent to Roku after an http transfer is completed for adaptive streams. This event consolidates information related to: <ul style="list-style-type: none"> <li>• a cURL transfer such as DNS look up time,</li> <li>• connection latency,</li> <li>• transfer speed,</li> <li>• and number of bytes.</li> </ul>
	DateTime	roDateTime	The GMT time of the event, with a resolution of one millisecond
	Url	String	The URL that was requested.
	OrigUrl	String	The original URL. If the original URL was redirected, then Url represents the new redirected URL and OrigURL the original. OrigURL is included so that it's easy to correlate between events and URLs passed to components.
	Method	String	The HTTP method. "GET", "POST", or "HEAD"
	Status	String	For LogType “http.complete”, this will be “ok”
	TargetIp	String	The IP address of the target server
	HttpCode	Integer	The HTTP response code if available
	ContentType	String	Content type or MIME type
	DNSLookupTime	Double	DNS name resolution time in seconds with double precision
	ConnectTime	Double	Time taken to connect to the server (seconds)
	FirstByteTime	Double	Time taken to receive the first byte from the server (seconds)
	TransferTime	Double	Total data transfer time (seconds)
	DownloadSpeed	Double	Transfer download speed in bytes per second
	BytesDownloaded	Integer	Number of bytes downloaded from the server
	UploadSpeed	Double	Transfer upload speed in bytes per second
BytesUploaded	Integer	Number of bytes uploaded to the server	

See [roSystemLogEvent](#) for details on the information reported for each log type.