

## Release Notes for INfinity 510 Protocol Reference Guide v3.0

### New Functions, Variables, and Events

New Function/Variable	Description	Type
reader.create_csd	Creates customer support data (csd)	function
reader.events.buffer	Buffer events for higher throughput	var
reader.license.import	Imports license file to reader.	function
reader.license.status	Responds with enable/disable status of reader licenses.	function
info.sub_model	Reader sub model.	var
diag.clear_error_status	Clears the error status variable	function
diag.error_status	Indicates whether an error or warning has occurred.	var
diag.error_handler.period	Time period at which the error event filter is flushed.	var
modem.protocol.easalarm.control.tx_atten	Transmit attenuation for EasAlarm in ddBm.	var
modem.protocol.isob.control.read_variable_cmd	Enable use of optional ISO-B read_variable command.	var
modem.protocol.isob.control.tx_atten	Transmit attenuation for ISO-B in ddBm.	var
modem.protocol.isob.control.user_data_length	The block length of ISO-B user data specified in 8 byte blocks.	var
modem.protocol.isoc.block_permaLock	Perform BlockPermaLock on an ISO-C tag.	function
modem.protocol.isoc.cmd_seq_end	End the command sequence for an ISO-C tag.	function
modem.protocol.isoc.cmd_seq_start	Singulate an ISO-C tag and ready it for subsequent commands.	function
modem.protocol.isoc.recomm	Recommission an ISO-C tag.	function
modem.protocol.isoc.alien.block_read_lock	Perform Alien custom command, BlockReadLock.	function
modem.protocol.isoc.control.enable_umi_method_2	Enable support of Method 2 for UMI control.	var
modem.protocol.isoc.control.tx_atten	Transmit attenuation for ISO-C in ddBm.	var
modem.protocol.isoc.control.user_data_length	The number of 16-bit words of ISO-C user_memory data to read during inventory.	var
modem.protocol.isoc.control.user_data_offset	The word offset of ISO-C user_memory data at which to start reading/writing.	var
modem.protocol.isoc.control.auto_mac.enable	Enable automatic MAC layer adaptation.	var
modem.protocol.isoc.control.auto_mac.threshold	Adaptation threshold for automatic MAC	var

New Function/Variable	Description	Type
modem.protocol.isoc.nxp.easalarm_on_collision	Assert an EASALARM on tag collisions	var
modem.protocol.supertag.control.min_dwell_time	The minimum time (millisecs) per round that the reader searches for SuperTag	var
modem.protocol.supertag.control.tx_atten	Transmit attenuation for Supertag in ddBm.	var
modem.protocol.supertag.physical.max_demod_dist	Maximum demodulator distance metric for successful demodulation.	var
modem.protocol.supertag.physical.sensitivity	Sensitivity for supertag detection.	var
com.network.1.ipv6_address	IPV6 addresses of first network interface on reader.	var
com.network.1.ipv6_default_gateway	Default IPV6 gateway used for first network interface on reader.	var
com.network.1.ipv6_method	Method used to acquire IPV6 address.	var
com.network.discovery.autonomous	Enables/disables autonomous discovery	var
com.network.discovery.ipv6_request_address	Multicast address used for discovery requests.	var
com.network.discovery.ipv6_response_address	Multicast address used for discovery responses.	var
tag.db.max_user_data	Maximum number of bytes of user data that can be stored in the tag	var
tag.filter.antenna_cross.enabled	Enable/disable antenna crossing events	var
tag.filter.antenna_cross.max_speed	Max speed of tags in deci-meters per second	var
tag.filter.antenna_cross.performance_metric	Performance metric to set latency of event versus noise handling	var
tag.filter.portal_cross.enabled	Enable/disable portal crossing tag events	var
tag.filter.portal_cross.1.threshold	Threshold for determining if a tag has crossed a portal.	var
tag.filter.portal_cross.1.threshold	Threshold for determining if a tag has crossed a portal.	var
tag.reporting.antenna_cross_fields	Tag fields reported in event.tag.portal_cross events.	var
tag.reporting.arrive_generation	Defines when the arrive event gets generated.	var
event.tag.antenna_cross	Tag has crossed an antenna.	event
event.tag.portal_cross	Tag has crossed a portal	event
event.tag.raw	Raw data for a tag read, or read attempt.	event
event.warning.license	Reader license is expiring or has expired	event
definitions.enum.network.ipv6_acq_methods	IP address acquisition method.	var
definitions.enum.protocol.isoc_advanced_pie.physical.tr_encoding	Tag to reader encoding format for ISO-C Advanced PIE.	var

New Function/Variable	Description	Type
definitions.enum.protocol.isoc_manchester. activation.hibernate_timeout	ISO-C Manchester hibernate timeouts	var
definitions.enum.protocol.isoc_manchester. physical.return_link_freq	ISO-C Manchester Return link frequency from tag.	var
definitions.enum.protocol.isoc_manchester. physical.tari	ISO-C Manchester Tari value.	var
definitions.enum.protocol.isoc_manchester. physical.tr_encoding	Tag to reader encoding format for ISO-C Manchester.	var
definitions.enum.tag.antenna_cross_fields	Tag fields included on event.tag.antenna_cross event.	var
definitions.enum.tag.portal_cross_fields	Tag fields included on event.tag.portal_cross event.	var

## Superceded Functions, Variables, and Events

Not applicable.

## Renamed Functions, Variables, and Events

Deleted Function/Variable	Description	Type
N/A		

## Deleted Functions, Variables, and Events

Deleted Function/Variable	Description	Type
modem.protocol.isoc.control.inventory_antenna_switch	Allow antenna switching during inventory.	var
modem.protocol.isoc.control.slots_restart	Number of slots before a round is restarted.	var

## New or Updated Parameters added to the following:

Function/Variable	New/Updated Parameter
setup.install_type	<b>Adds:</b> SHELF_READER
setup.region	<b>Adds:</b> barbados columbia peru

Function/Variable	New/Updated Parameter
setup.sub_region	<b>Adds:</b> barbados      barbados_dense columbia      columbia_dense peru      peru_dense std_t89_rev_2_0_shift std_t89_rev_2_0_dense japan_expand_1_shift japan_expand_2    japan_expand_2_shift japan_expand_3_shift
setup.valid_region	<b>Adds:</b> barbados columbia peru
setup.valid_sub_regions	<b>Adds:</b> barbados      barbados_dense columbia      columbia_dense peru      peru_dense std_t89_rev_2_0_shift std_t89_rev_2_0_dense japan_expand_1_shift japan_expand_2    japan_expand_2_shift japan_expand_3_shift
tag.reporting.report_fields	<b>Adds:</b> phase rn16_phase snr xpc ssd
antennas.<n>.conducted_power	<b>Change:</b> 300 to 330
com.network.1.set	<b>Adds:</b> ipv6_method (enum definitions.enum.network.ipv6_acq_methods ) ipv6_address (string) ipv6_default_gateway (string)
com.network.1.method	<b>Adds:</b> DISABLED
tag.reporting.arrive_fields	<b>Adds:</b> user_data_offset
tag.reporting.depart_fields	<b>Adds:</b> user_data_offset
tag.reporting.report_fields	<b>Adds:</b> user_data_offset
tag.reporting.taglist_fields	<b>Adds:</b> user_data_offset
modem.protocol.isob.read	<b>Adds:</b> block_count (int)
modem.protocol.isoc.physical.set	<b>Adds:</b> port (int)
event.tag.arrive	<b>Deletes:</b> time(string) <b>Adds:</b> first(string)
event.tag.depart	<b>Deletes:</b> time(string) <b>Adds:</b> last(string)
event.tag.report	<b>Adds:</b> user_data_offset (string)
definitions.enum.install_types	<b>Adds:</b> SHELF_READER
definitions.enum.regions	<b>Adds:</b> barbados columbia peru

Function/Variable	New/Updated Parameter
definitions.enum.sub_regions	<b>Adds:</b> barbados      barbados_dense columbia      columbia_dense peru      peru_dense std_t89_rev_2_0_shift std_t89_rev_2_0_dense japan_expand_1_shift japan_expand_2    japan_expand_2_shift japan_expand_3_shift
definitions.enum.network.ip_acq_methods	<b>Adds:</b> DISABLED
definitions.enum.protocol.isoc.test_commands	<b>Adds:</b> HEX_XMIT QUERY_NAK
definitions.enum.tag.arrival_fields	<b>Adds:</b> user_data_offset
definitions.enum.tag.depart_fields	<b>Adds:</b> user_data_offset
definitions.enum.tag.portal_cross_fields	<b>Deletes:</b> user_data
definitions.enum.tag.report_fields	<b>Adds:</b> phase rn16_phase snr xpc user_data_offset

### Default Parameters changed on the following:

Function/Variable	Default Parameter
modem.protocol.isoc.control.crc_retries	1
tag.filter.antenna_cross.performance_metric	10
modem.protocol.isoc.control.auto_mac.threshold	8

### Permissions were changed for the following:

Not applicable.

### Description added/changed to the following:

reader.set\_pwd  
com.network.tcpkeepalive  
tag.reporting.raw\_tag\_data  
com.network.1.set  
modem.protocol.isoc.control.inventory\_both\_targets  
modem.protocol.isoc.control.max\_incr\_slots\_q  
modem.protocol.isoc.control.select\_cmd\_period  
modem.protocol.isoc.physical.set  
tag.reporting.report\_fields

### Other

Miscellaneous text and grammar editing.