KGS-510F v1.3x Configuration Data Information (2006/11/6)

| Data type | Variabe | Function description | Data range |
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| uchar | signature | Reserved for no modification | |
| swup_info_t | swup_info | Reserved for no modification | |
| uchar | eeprom_version | Reserved for no modification | |
| uchar | spare_1 [2] | Reserved | |
| mac_addr_t | mac_addr | MAC address of the device | |
| uchar | user_prompt [MAX_USER_PROMPT_LEN + 1] | Reserved | |
| uchar | mirror_port | One bit mask to specify the sniffer port | 4: Port 1<br>3: Port 2<br>2: Port 3<br>1: Port 4<br>0: Port 5<br>6: Port 6 |
| port_bit_mask_t | mirror_src | Multiple bit masks to specify the mirror (source) ports | Bit7: 0<br>Bit6: Port 6<br>Bit5: 0<br>Bit4: Port 1<br>Bit3: Port 2<br>Bit2: Port 3<br>Bit1: Port 4<br>Bit0: Port 5 |
| ushort | console_timeout | Reserved | |
| uchar | port_config [MAX_PORT] | port_config[x] :<br>Port x Configuration<br>- Auto-negotiation<br>- Speed capability | Bit7: 0<br>Bit6: 1<br>Bit5: Flow control (0=disable, 1=enable)<br>Bit4: Duplex (0=half, 1=full) |

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| | | - Duplex capability<br>x=0: Port 5<br>x=1: Port 4<br>x=2: Port 3<br>x=3: Port 2<br>x=4: Port 1<br>x=5: Port 6 | Bit3: 0<br>Bit2: 0<br>Bit1-0: Speed<br>(00= 10M, 01=100M, 10=1000M,<br>11=Auto) |
| ushort | agetime | Reserved for no modification | |
| uchar | aggr_mode | Aggregation function mode<br>Reserved for no modification | Not available on v1.3x |
| port_bit_mask_t | aggr_group [MAX_AGGR_GROUP] | Aggregation function group<br>Reserved for no modification | Not available on v1.3x |
| ushort | pvid [MAX_PORT] | Reserved | |
| uchar | system_name [MAX_SYSTEM_NAME_LEN + 1] | System name for the switch unit | |
| uchar | password [MAX_PASSWORD_LEN + 1] | Password for web access | |
| uchar | port_misc [MAX_PORT] | port_misc[x] :<br>Per QoS Configuration<br>x=0: Port 5<br>x=1: Port 4<br>x=2: Port 3<br>x=3: Port 2<br>x=4: Port 1<br>x=6: Port 6 | Bit3-2: QoS Service Policy<br>(00: strict priority,<br>01: ratio 4:3:2:1,<br>10: ratio 5:3:1:1,<br>11: ratio 1:1:1:1)<br>Bit 1-0: QoS configuration<br>(0: 802.1p Only,<br>1: All Disabled,<br>2: DSCP Only,<br>3: All Enabled) |
| vlan_tab_t | vlan_tab [MAX_VLAN] | Reserved | |
| mac_tab_t | mac_tab [16] | Reserved | |

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| prio_list_8_t | qos_tag_prio [MAX_PORT] | | qos_tag_prio[x]:<br>Per port 802.1p mapping yable<br>x=0: Port 5<br>x=1: Port 4<br>x=2: Port 3<br>x=3: Port 2<br>x=4: Port 1<br>x=6: Port 6 | Bit15-14: tag 7 priority class<br>Bit13-12: tag 6 priority class<br>Bit11-10: tag 5 priority class<br>Bit9-8: tag 4 priority class<br>Bit7-6: tag 3 priority class<br>Bit5-4: tag 2 priority class<br>Bit3-2: tag 1 priority class<br>Bit1-0: tag 0 priority class<br>(tag n priority class=00: Class 0,<br>tag n priority class=01: Class 1,<br>tag n priority class=10: Class 2,<br>tag n priority class=11: Class 3) |
| diffserv_t | diffserv [8] | | diffserv [x]: DSCP mapping table<br>x=0 ~ 7 – 7 DSCP code mapping<br>x=8 – all others DSCP codes | |
| | uchar | dscp_no | DSCP code value | 0 ~ 63 |
| | uchar | class | Map to Priority class | 00: Class 0<br>01: Class 1<br>10: Class 2<br>11: Class 3 |
| ushort | max_frame [MAX_PORT] | | Reserved | |
| uchar | qos_misc_prio [MAX_PORT] | | qos_misc_prio [x]:<br>Per port default priority class<br>x=0: Port 5<br>x=1: Port 4<br>x=2: Port 3<br>x=3: Port 2 | Bit7-2: 0<br>Bit1-0: Port default priority class<br>(00: Class 0<br>01: Class 1<br>10: Class 2<br>11: Class 3) |

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| | | x=4: Port 1<br>x=6: Port 6 | |
| port_bit_mask_t | user_group [NO_OF_USER_GRPS] | Reserved | |
| uchar | ip_mode | Reserved | |
| ushort | ip_vid | Management VLAN VID | 1 ~ 4095 |
| ip_addr_t | ip_addr | Device's IP | |
| ip_addr_t | gateway_ip_addr | Device's default gateway IP | |
| ip_addr_t | subnet_mask | Device's subnet mask | |
| uchar | vlan_main | VLAN configuration | 0: VLAN Disable<br>1: Port-based VLAN Mode<br>2: Port-based VLAN ISP Mode<br>3: Advanced VLAN Mode |
| uchar | vlan_pb_group1 | Port-based VLAN mode<br>Group1 member port mask | Bit6: Port 6<br>Bit4: Port 1<br>Bit3: Port 2<br>Bit2: Port 3<br>Bit1: Port 4<br>Bit0: Port 5 |
| uchar | vlan_pb_group2 | Port-based VLAN mode<br>Group2 member port mask | Bit6: Port 6<br>Bit4: Port 1<br>Bit3: Port 2<br>Bit2: Port 3<br>Bit1: Port 4<br>Bit0: Port 5 |
| uchar | vlan_isp_joint_port | Port-based VLAN ISP mode<br>Joint port number | 1: Port 1<br>2: Port 2<br>3: Port 3 |

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| | | | 4: Port 4<br>5: Port 5<br>6: Port 6 |
| ushort | vlan_pvid [MAX_PORT] | vlan_pvid[x]: Per port ingress default tag<br>x=0: Port 5<br>x=1: Port 4<br>x=2: Port 3<br>x=3: Port 2<br>x=4: Port 1<br>x=6: Port 6 | Bit15: CFI<br>Bit14-12: User Priority (0 ~7)<br>Bit11-0: PVID (1~4095) |
| uchar | vlan_ingress [MAX_PORT] | vlan_ingress[x]:<br>Per port ingress setting<br>x=0: Port 5<br>x=1: Port 4<br>x=2: Port 3<br>x=3: Port 2<br>x=4: Port 1<br>x=6: Port 6 | Bit3: Drop Tag (1: enable)<br>Bit2: Drop Untag (1: enable)<br>Bit1: Keep Tag (1: enable)<br>Bit0: Tag Aware<br>(1: tag_aware, 0: tag_ignore) |
| uchar | vlan_egress [MAX_PORT] | vlan_egress[x]: Per port egress setting<br>x=0: Port 5<br>x=1: Port 4<br>x=2: Port 3<br>x=3: Port 2<br>x=4: Port 1<br>x=6: Port 6 | Bit1: Untagging Specific VID<br>(0: disable, 1: enable)<br>(See next for per port vid settings)<br>Bit0: Insert Tag (0: disable, 1: enable) |
| ushort | vlan_untagging_vid [MAX_PORT] | vlan_ untagging_vid [x]: Per port untagging vid setting | Bit11-0: Untagging VID ( 1 ~ 4095) |

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| | | | x=0: Port 5<br>x=1: Port 4<br>x=2: Port 3<br>x=3: Port 2<br>x=4: Port 1<br>x=6: Port 6 | |
| ushort | vlan_group_vid [MAX_VLAN_GROUP] | | vlan_group_vid[x]: per group vid setting<br>x=0: Vlan Group 1<br>x=1: Vlan Group 2<br>x=2: Vlan Group 3<br>x=3: Vlan Group 4<br>x=4: Vlan Group 5<br>x=5: Vlan Group 6<br>x=6: Vlan Group 7<br>x=7: Vlan Group 8 | Bit11-0: VID (1~4095) |
| uchar | vlan_group [MAX_VLAN_GROUP] | | vlan_group[x]: per group member port setting<br>x=0: Vlan Group 1<br>x=1: Vlan Group 2<br>x=2: Vlan Group 3<br>x=3: Vlan Group 4<br>x=4: Vlan Group 5<br>x=5: Vlan Group 6<br>x=6: Vlan Group 7<br>x=7: Vlan Group 8 | Bit7: Source_port_check<br>(1: enable, 0: disable)<br>Bit6: Port 6<br>Bit4: Port 1<br>Bit3: Port 2<br>Bit2: Port 3<br>Bit1: Port 4<br>Bit0: Port 5 |
| dot1x_struc_0_t | uchar | dot1x. enable | 802.1x function main control | 0: disable,<br>1: enable |

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| | port_bit_mask_t | AuthControlledPortStatus_0 | Bit6: Port 6 A0<br>Bit4: Port 1 A0<br>Bit3: Port 2 A0<br>Bit2: Port 3 A0<br>Bit1: Port 4 A0<br>Bit0: Port 5 A0 | Authentication port control:<br>A0 A1= 00 : Auto<br>A0 A1= 10 : Force authorized<br>A0 A1= 01 : Force unauthorized |
| | port_bit_mask_t | AuthControlledPortStatus_1 | Bit6: Port 6 A1<br>Bit4: Port 1 A1<br>Bit3: Port 2 A1<br>Bit2: Port 3 A1<br>Bit1: Port 4 A1<br>Bit0: Port 5 A1 | |
| | ip_addr_t | radius_ip_addr | Radius server's IP | RADIUS IP |
| | ushort | radius_udp_port | Radius server's UDP port no. | RADIUS UDP Port |
| | uchar | radius_secret[MAX_RADIUS_SECRET_LEN] | | RADIUS Secret |
| | ushort | reAuthTimer_reauthEnabled | Periodical re-authentication | Bit15: Enable (0: disable, 1: enable)<br>Bit11-0: Re-authentication Period<br>(0 ~ 3600 seconds) |
| | uchar | eapTimeout | EAP timeout | 1 ~ 255 seconds |