

InterPort™ service OAM software module

Kuatro's InterPort Service OAM software module is a portable implementation of Ethernet Service Operation, Administration and Maintenance (OAM) as defined in IEEE 802.1ag, ITU Y.1731-2011 standards and MEF PM & FM IA specifications.

Kuatro's InterPort Service OAM module significantly improves the network's OAM capabilities and enables robust and reliable Ethernet services to be deployed. This is a platform and OS-independent, standard compliant and field proven solution which can be incorporated in a variety of systems including Carrier Ethernet access and aggregation products, NIDs, wireless backhaul products, Ethernet and IP based 3G/4G base stations, and next-generation Carrier Ethernet test equipment.

features

InterPort Service OAM implements key fault management and performance monitoring features as defined in IEEE 802.1ag, ITU Y.1731-2011 and MEF PM and FM IA specifications.

benefits

- > Up to 60% time to market reduction
- > Up to 50% savings in development costs
- > Pre-tested software modules minimize project risks
- > Integrated solution delivery by Kuatro's R&D design services
- > Portable to various OS and hardware platforms
- > Target carrier ethernet and broadband access and wireless backhaul applications

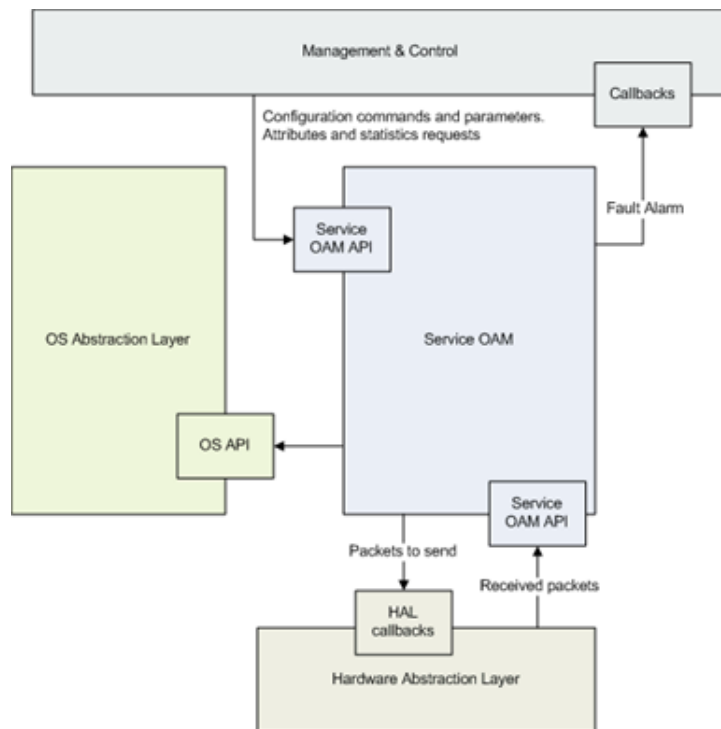
Feature		802.1 ag	Y.1731-2011
Connectivity Fault Management	Continuity check	Yes	Yes
	Loopback	Yes	Yes
	Link Trace	Yes	Yes
	AIS	Not applicable	Yes
	RDI	Yes	Yes
	Y.1731 and 802.1ag inter-op	Yes	Yes
	MEP Auto-detection	Yes	Yes
	ETH-MCC		
Performance Monitoring	Frame Loss Measurement	Not applicable	Yes
	ETH-TST	Not applicable	Yes
	Delay Measurement and Delay Variation Measurement	Not applicable	Yes
	Synthetic Frame Loss Measurement (SLM)	Not applicable	Yes
	CoS Awareness	Yes	Yes
High Availability	Dual stateless mode	Yes	Yes
	Single and dual stateful mode	Yes	Yes

features - continued

- > Connectivity failure detection using CCM with support of CCM database
- > Fault notification and alarm suppression with AIS and RDI
- > Fault localization using loopback (LB). Support both unicast and multicast LB
- > Linktrace from a source MEP to a destination MEP/MAC address
- > Round trip delay and delay variation measurement using delay measurement (DM) capability
- > On demand and periodic frame loss measurement (FLM)
- > On demand and periodic synthetic frame loss measurement (SLM)
- > CoS aware parallel performance monitoring sessions
- > Stateless and stateful High Availability support.
- > APIs based on IEEE 802.1ap standard MIB and MEF 31 SOAM MIB specification

architecture

InterPort Service OAM module has well defined interfaces including OS abstraction APIs, Hardware Abstraction Layer (HAL) callbacks and APIs to management and control layer software. These APIs enable portability to various platforms using different operating systems and different data plane designs whether FPGA, network processor, Ethernet silicon or virtual platform based.



supported standards

- > IEEE 802.1ag (2007)
- > ITU Y.1731-2011
- > IEEE 802.1ap (2008)
- > MEF 30 and MEF 31
- > MEF PM specifications and MIBs

deliverables

- > Source code in C
- > Programmer's Reference Guide
- > Porting Guide and Release Notes

kuatro 

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