

Oscilloquartz SyncSeminar

Montreux, Switzerland, 02nd to 04th October



Speakers:

Hasnat Babar, Network Consultant Gregory Binggeli, Mgr. System Consulting Alain Michaud, Dir R&D and PLM T&F

Igal Pinhasov, Dir R&D SIT Dominik Schneuwly, Mgr. Network Consulting

Agenda - Monday, 02nd October 2017 **Seminar: Addressing Critical Synchronization Topics**

13:00-13:30	Registration
13:30-13:45	Opening Address (Jean Dubuis, Dominik Schneuwly)
13:45-14:45	 Synchronization Needs in Telecoms (Hasnat Babar) Synchronization needs in packet switched networks Synchronization needs in macro and small cells Synchronization needs in TV cable networks
14:45-15:10	 Other Synchronization Needs (Gregory Binggeli) Synchronization needs in the power and finance industries
15:10-15:30	Coffee & tea break
15:30-16:00	 Synchronization Sources (Alain Michaud) Primary reference phase & time sources PRC, ePRC, PRTC and ePRTC standards
16:00-17:30	 Sync Distribution: General Principles (Dominik Schneuwly) Physical layer synchronization transfer Packet-based synchronization transfer
17:30	Close
18:00	Ice Breaker Event



Tuesday, 03rd October 2017 Seminar: Addressing Critical Synchronization Topics (cont'd)

08:15-08:30	Registration
08:30-10:10	 Synchronization Performance Metrics (Dominik Schneuwly) Metrics for frequency transfer over the physical layer Metrics for packet-based frequency transfer Metrics for packet-based phase & time transfer
10:10-10:30	Coffee & tea break
10:30-12:00	 Solution 1: Synchronous Ethernet (Dominik Schneuwly) Working principle Clocks and their specifications Architecture and network engineering Relevant standards
12:00-13:30	Lunch
13:30-15:00	Solution 2: PTP (IEEE 1588) without Timing Support (Dominik Schneuwly) • Working principle • Clocks and their specifications • Architecture and network engineering • Relevant standards
15:00-15:20	Coffee & tea break
15:20-16:30	Solution 3: PTP (IEEE 1588) with Full Timing Support (Hasnat Babar) • General introduction to phase synchronization with PTP • Working principle • Clocks and their specifications
16:30-16:40	Reviews, discussions, questions and answers
16:40	Close
17:00	Social Event



Agenda - Wednesday, 04th October 2017 Seminar: Addressing Critical Synchronization Topics (cont'd)

08:15-08:30	Registration
08:30-09:25	Solution 3: PTP (IEEE 1588) with Full Timing Support cont'd (Hasnat Babar) • Architecture and network engineering
09:20-10:10	 Solution 4: PTP (IEEE 1588) with Partial Timing Support (Hasnat Babar) Working principle Clocks and their specifications
10:10-10:30	Coffee & tea break
10:30-11:15	Solution 4: PTP (IEEE 1588) with Partial Timing Support cont'd (Hasnat Babar) • Architecture and network engineering
11:15-12:00	Synchronization Assurance (Dominik Schneuwly)Monitoring and probing
12:00-13:30	Lunch

Workshop: Applications and Demonstrations

13:30-14:30	 Product Presentations (Gregory Binggeli) Oscilloquartz product overview Products: OSA 5335, OSA 541x, OSA 542x & OSA 540x Network management system FSP NM
14:30-15:00	 Synchronization-related Services (Igal Pinhasov) Synchronization assurance services Network synchronization as a service
15:00-15:20	Coffee & tea break
15:20-16:15	Live Demos with: OSA 5335, OSA 5410/11, OSA 5420/21, OSA 5401 & OSA 5405 in Grandmaster, APTS and probe configurations
16:15-16:30	Farewell Address & Close (Jean Dubuis)