



Joint Programmatic Activities

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COORDINATION OF OPERATION AND MAINTENANCE

In 2004, coordination throughout the Provisional Technical Secretariat (PTS) of operation and maintenance (O&M) of the whole CTBT monitoring system continued. Significant resources were dedicated to the planning, execution and analysis of the first progressive system-wide performance test (SPT1) (see “System-Wide Performance Test” below) and to the preparation and convening of an O&M workshop for station operators and National Data Centre (NDC) managers (see “Operation and Maintenance Workshop” in Major Programme 1). Development work also continued on processes and tools to monitor and report on O&M of the whole monitoring system (at remote facilities as well as in Vienna) and to support the physical infrastructure. An Integrated Logistics Support (ILS) study (see “Integrated Logistics Support Study” in Major Programme 1) provided a critical assessment of the current ILS activities of the PTS and valuable inputs to the strategic planning of the O&M process. In addition, newly developed processes, such as a joint daily operations meeting involving Sections of the International Monitoring System (IMS) and International Data Centre (IDC) Divisions, including the Global Communications Section, and the Global Communications Infrastructure (GCI) contractor, were created. A coherent framework was established for documenting O&M procedures and processes throughout the IMS and IDC Divisions.



Daily operations meeting.

SYSTEM-WIDE PERFORMANCE TEST

The preparatory phase (phase I) of SPT1 was carried out in May–June 2004 to test and assess the tools and methods to be used in the 2005 performance testing phase (phase II). Coordinated consideration was given to the elements of the verification system, the established O&M procedures for IMS stations, communication links, IDC operations and performance metrics for establishing an IMS/GCI/IDC system-wide performance. In particular, it involved the examination of the system-wide response to specific failures of selected components of the IMS/GCI/IDC system and reporting on the findings from phase I. The elaboration of failure scenarios and the estimation of their possible impacts on all areas of the system provided a critical review of current O&M procedures and failure mode effects. The analysis of the data recorded during the test in phase I required

significant effort and highlighted factors contributing to low performance. The analysis also demonstrated that in order to efficiently provide a continuous assessment of the performance of the system, a sustained effort in the development of system-wide reporting and state of health monitoring tools and procedures was required.

JOINT IMS AND IDC TRAINING COURSES

In 2004, three training courses were jointly organized by the IMS and IDC Divisions: an introductory course for station operators and NDC managers (Vienna, 8–12 March); and two regional technical courses for station operators and NDC technical staff members (Obninsk, Russian Federation, 12–18 May, and Caracas, 7–13 June). The two regional training courses included a special programme for station operators and NDC staff.