

E0016

DNA & e-HTPX: High Throughput and Remote Access PX. Graeme Winter ^{a*}, DNA Developers ^{abcdg}, e-HTPX Developers ^{adefh}, ^aDaresbury Laboratory, UK, ^bESRF, France, ^cMRC LMB, Cambridge, UK, ^dEMBL Grenoble, France, ^eEBI, UK, ^fYork Univ., UK, ^gEMBL Hamburg, Germany, ^hWellcome Trust Centre for Human Genetics, Oxford.

The DNA project ^[1] has developed reliable automation for data collection and processing of PX data. DNA consists of a number of separate modules: Beamline control; Data processing; Analysis and decision making. This has led to a highly portable system, which is currently operating at the ESRF, SRS, EMBL Hamburg and NSLS.

The e-HTPX project aims to provide remote access to the entire PX pipeline through a standard web interface. This has been achieved by contribution to existing efforts, including the DNA project and CCP4 ^[2]. Web service interfaces to all of the key stages have been provided, as well as a single portal to unify the workflow into a “1-stop shop” for PX.

To provide this kind of services, there are three main areas of development work needed: A simple but powerful and intuitive interface; Instill “expertise” in the services; Development of the technologies; The challenges and solutions we have found will be described.

The development audience for e-HTPX has included academic and commercial groups.

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[1] <http://www.dna.ac.uk>

[2] <http://www.ccp4.ac.uk>

