



NextGRID Data Transfer Use Cases

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1 Introduction

This document discusses the NextGRID Data Transfer use cases that accompany the *NextGRID Data Transfer Profile 1.0* [1].

The NextGRID Generalized Specifications aim at capturing NextGRID architectural concepts in a set of profiles that may be composed together. These profiles are specified in such a way that they could be implemented in terms of other well known specifications. While overall consistency is achieved at the conceptual level, and captured through the motivating Use Cases accompanying each Generalized Specification, system implementations, which may be based on other specifications, may not be consistent with this profile. Thus, each profile defines a realisation of the underlying concept that can be implemented. However, implementers of the NextGRID architecture may need to support multiple underlying specifications.

1.1 Data Transfer Profile Overview

The NextGRID Data Transfer Profile [1] is intended for use when implementing data transfer services that are in line with the concepts of NextGRID [2]. It mandates the adherence to a certain set of specifications and clarifies their use. A service implementation that uses those specifications in a manner conformant with the Profile may be said to be an “implementation of the NextGRID Data Transfer Profile 1.0” or, informally, to be a “NextGRID Data Transfer Service”.

Data transfer is the movement of data from a data source to a data sink.

2 Use Cases

NextGRID Data Transfer is based on the OGSA-DMI Functional Specification 1.0 draft 50 [3], and the NextGRID Data Transfer Profile references and uses the OGSA-DMI specification.

The NextGRID Data Transfer use cases are, therefore, the same as those described in the OGSA-DMI specification. They can be found in Section 3.3 of the OGSA-DMI Functional Specification 1.0 draft 50 [3], with a detailed architectural description of OGSA-DMI, including definitions of components and concepts, given in the rest of Section 3.



References

- [1] M. Drescher, S. Davey and A. Anjomshoaa, *NextGRID Data Transfer Profile*, v1.0, NextGRID Project, 19 February 2008.
- [2] D. Snelling, M. Fisher, A. Basermann, F. Wray, P. Wieder and M. SurrIDGE, *NextGRID White Paper*, v0.5, NextGRID Project, July 2005, http://www.nextgrid.org/download/publications/NextGRID_Architecture_White_Paper.pdf
- [3] M. Antonioletti, M. Drescher, A. Luniewski, S. Newhouse and R. Madduri, *OGSA-DMI Functional Specification 1.0*, Public Review Draft 50, OGSA-DMI Working Group, Open Grid Forum, 1 February 2008, http://www.ogf.org/Public_Comment_Docs/Documents/2008-02/ogsa-dmi-spec-editor-submission.pdf