Report on the Development of ETD-MS Export Plugin in EPrints

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The implementation of ETD_MS export plugin follows EPrints system's plugin development guideline[1]. A new module (ETD_MS.pm) is placed at: /opt/eprints3/perl_lib/EPrints/Plugin/Export.

The ETD_MS export plugin needs to inherit from the EPrints::Plugin::Export class,

@ISA = ("EPrints::Plugin::Export");

The implementation of method *output_dataobj* handles the export of each *DataObj*, which is the super class of EPrints data type *EPrint*, *Document*, and *User*. With the method *convert_dataobj*, we extract the metadata fields of each DataObj required by ETD_MS schema[2].

The following table shows the mapping between ETD_MS element and the correspondent EPrints metadata field. Custom fields that we added are highlighted.

ETD_MS Element		EPrints Metadata Field	EPrints APIs Used
etd_ms:title		"title"	$eprint->get_value("title")
etd_ms:creator		"creators_name"	$eprint->get_value("creators_name")
etd_ms:subject		"keywords"	$eprint->get_value("keywords")
etd_ms:description		"abstract"	$eprint->get_value("abstract")
etd_ms:contributor		"thesis_advisors_name"	$eprint->get_value("thesis_advisors_name")
etd_ms:date		"date"	$eprint->get_value("date")
etd_ms:type		"type"	$eprint->get_value("type")
etd_ms:format		"format"	$document->get_value("format")
etd_ms:identifier[3]		"eprintid"	"[Your-Library-ID]"[4]. $eprint->get_value("eprintid")
etd_ms:identifier[5]		"url"	$document->get_url()
etd_ms:language		"language"	$document->get_value("language")
etd_ms:publisher		"publisher"	$eprint->get_value("publisher")
etd_ms:degree	etd_ms:name	"thesis_degree_name"	$eprint->get_value("thesis_degree_name")
	etd_ms:level	"thesis_type"	$eprint->get_value("thesis_type")
	etd_ms:discipline	"department"	$eprint->get_value("department")
	etd_ms:grantor	"institution"	$eprint->get_value("institution")

The ETD_MS.pl export script implementation is available in EPrints Files [6]

According to the standard, the ETD-MS field "thesis.discipline" is to contain the "Area of study of the intellectual content of the document. Usually, this will be the name of a program or department."

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[1] EPrints Wiki: Create Export Plugins. 20 March 2010. <http://wiki.eprints.org/w/Create_Export_Plugins>
[2] etdms.xsd The Networked Digital Library of Theses and Dissertations (NDLTD). 25 June 2008. <http://www.ndltd.org/standards/metadata/etdms/1.0/etdms.xsd/view>
[3] Identifier with the combination of university id and the document id (eprintid)
[4] Id for Concordia University
[5] Identifier with the accessing URL
[6] Neugebauer, Tomasz and Bin, Han (2010) ETD-MS Export Plugin. EPrints Files. <http://files.eprints.org/556/>