

Title:	
A8.4-D1 Framework Version 3	
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Short Description:
This document acts as a proxy for the Deliverable A8.4-D1 Framework Version 3 and briefly describes activities that contributed to this version and provides additional information.
Keywords:
Framework implementation, development.

History:			
Version	Author(s)	Status	Comment
001-379	Thorsten Reitz	FINAL	Finalised version.

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1 Introduction

1.1. Purpose of this document

This document summarizes the software releases made in the scope of the Activity A8.4 in between January and September 2010. It also acts as a proxy document for the deliverable of this activity.

2 Releases that are part of Framework Version 3

This chapter provides information on the releases made during the Framework Version 3 Activity. The last release of each component is the final one.

2.1. HUMBOLDT Alignment Editor

Information on all releases can be retrieved from <http://community.esdi-humboldt.eu/projects/hale/news>

- **2.0.0.M1: 9th of February 2010**
 - Addition of a tabular data representation for source data and transformed data
 - Completion of the task management for schema mapping for better process management
 - Improvements to schema import and schema display, including a new Properties dialogue and an option to expand complex properties
 - Support for enumerations e.g. in the Classification Mapping Function
 - Possibility to store custom view configurations as perspectives
 - Addition of new functions:
 - Support for creating INSPIRE GeographicalNames (#19)
 - Provision of a Constant Value Function (#57)
 - Function for date conversion (#59)
 - Addition of a "generic function wizard" that you can use when adding your own functions to the CST (#52)
 - New plug-in architecture
 - Usage of a custom target platform
 - CST functions plug-ins can be added by configuration
- **2.0.0.M2: 4th of April 2010**
 - We have improved schema import further;
 - There is now the capability to declare "User-defined functions";
 - Codelists can be imported and used;
 - We added a manual to the software;
 - We improved error messages that are given to users;
 - and you can now read a schema from a shapefile (but no instance data yet).
- **2.0.0.M3: 26th of May 2010**
 - Feature #48: Load instance data from a WFS
 - Feature #117: Graphical Mapping Representation

- Feature #139: Clicking on the Map View to select Feature shown in table views
- Feature #158: Wizard for Concatenation of Attributes
- Feature #177: Display feature lineage metadata in transformed data view
- Feature #179: Add an extension point for exporting mappings
- Bug #78: Transforming data when transferred entity is assignable from Property
- Bug #136: General Wizard should not appear when mapping FeatureTypes
- Bug #176: Value assignments to complex properties fail
- Bug #178: Handle features in Map View that don't have default geometry
- **2.0.0.M4: 21st of June 2010**
 - Feature #157: ConstantValueFunction and wizard should also support assigning values to nested attributes
 - Feature #183: Add a button to the schema explorer to show/hide abstract types instead of the show/hide property types function
 - Feature #185: Auto-expand attributes and metadata in table views
 - Feature #193: Better support for Rename/Default value functions for attributes with URI binding
 - Feature #194: Improved support for MD Types, such as CharacterString_PropertyType
 - Feature #195: Copy text to clipboard in properties dialog
 - Bug #186: Map View hangs up after transforming data
 - Bug #187: Correct Cell definition for Concatenation Function
 - Bug #188: Ensure consistent sorting of table view columns
 - Bug #189: Fix feature type recognition
 - Bug #190: IdentifierFunction uses FeatureId instead of source entity
 - Bug #191: IdentifierFunction execution fails
 - Bug #192: Data view crashes with INSPIRE/ProtectedSite (cycles in aggregation)
- **2.0.0.RC1: 12th of July 2010 (final release for framework version 3)**
 - Feature #110: Several common UI features, such as validating URI/URL editors, implemented
 - Feature #175: Export Mapping as HTML documentation
 - Feature #198: Ask user whether project should be saved on close of application
 - Feature #204: Improve detection of Coordinate Reference System for map, allow specification of additional CRSes through preferences
 - Bug #174: Loading GML Instance Data not working
 - Bug #201: Nested properties support for ClassificationMappingFunction

- Bug #202: AttributeDefaultFunction crashes on CodeListValue_Type
- Bug #203: Executing a transformation fails if a namespace ends with a /
- Bug #205: The ReferencedEnvelope of the map area has no CRS associated even if a CRS was detected or set manually
- Bug #206: PositionStatus shows no CRS information for detected CRS
- Bug #207: GML2 files cannot be loaded as source data if they contain Polygons
- Bug #208: Loading source data fails if an unknown CRS is referenced

2.2. Workflow Editor and Repository Service

Information on all releases can be retrieved from
<http://community.esdi-humboldt.eu/projects/wdcs/news>

- **2.0.0.M1: 21st of April 2010**
 - Allows registering OGC WFS and OGC WPS and composing them into workflows.
 - Workflows can be exported to the HUMBOLDT Workflow Repository Service.
 - Any running WFS or WPS can be registered to the editor via its registration interface, simply by providing the URL.
- **2.0.0.M2: 20th of June 2010**
 - Removal of some known bugs (see tickets on community website)
- **2.0.0.RC1: 12th of August 2010 (final release for framework version 3)**
 - allows executing the workflows and gives access to all (intermediate) results.
 - allows specifying execution settings such as how values are passed between services (by-reference, by-value), whether the execution shall be performed in parallel (multi-threaded), whether metadata files on the obtained datasets shall be generated, whether the WPS requests and responses shall be logged etc.

2.3. Conceptual Schema Translation Service and CST-WPS

Information on all releases can be retrieved from
<http://community.esdi-humboldt.eu/projects/roadmap/cst>

- **2.0.0.M1: 8th of February 2010**
 - Feature #55: Support Instance Splits and Merges
 - Feature #64: Implement DefaultValueFunction
 - Feature #65: Implement DateExtractionFunction
 - Feature #66: Implement inspire.IdentifierFunction
 - Feature #67: implement inspire.GeographicalNameFunction
 - Feature #70: Refactor out CstFunction implementations to own plug-in
 - Feature #71: Implement dependency injection for CstFunctionFactory

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- Feature #72: Fix pom.xml for cst and cst.corefunctions
- Feature #85: Improve error handling and tolerance in CST
- Feature #146: Add a MakePointFromOrdinates function
- **2.0.0.RC1: 20th of September 2010 (final release for framework version 3)**
 - Feature #53: Package CST as WPS
 - Feature #73: GML Unmarshalling for the WPS
 - Feature #74: GML Marshalling for WPS
 - Feature #87: Document Lineage for transformed Data
 - Feature #108: Support joins between Features of multiple Feature Types
 - Feature #142: Add function for attribute concatenation

2.4. Edge Matching Service

Information on all releases can be retrieved from
<http://community.esdi-humboldt.eu/wiki/ems>

In Version 3, there was only a single minor bugfixing release for the EMS.

2.5. Coordinate Transformation Service

In Version 3, there was only a single minor bugfixing release for the EMS.

2.6. Mediator Service

Information on all releases can be retrieved from
<http://community.esdi-humboldt.eu/projects/roadmap/ms>

In Version 3, there was a prototype release for three selected scenarios:

- **3.0.0-M1: 20th of September 2010 (final release for framework version 3)**
 - Feature #159: Set up new project structure based on last trunk version
 - Feature #161: Implement ITF for WFS 1.1.0
 - Feature #164: Virtual Capabilities Construction
 - Feature #165: Internal Context Repository implementation
 - Feature #167: Retrieve executable workflows from WRS
 - Feature #168: Execute internal transformation libraries
 - Feature #170: CST Integration