

- version 1.5.1 or later - for updating the environment from a software version previous to 1.5.1 the following steps must be done:

1) execute the following query in the AUTHDB:

```
DELETE FROM AUTH_DB_CONNECTION;
```

```
DELETE FROM AUTH_CONNECTION_STRING;
```

2) save the node from the Node - Configuration page

- for updating the environment from a software version previous to 1.5.3 the main\files\UpdateScript\DDB_UpdateVers1.5.3.sql script must be executed in the DDB.

The same script should be executed when using a version previous to 1.5.3 with datasets with not annual frequency referencing year 2021 or later.

- for updating the environment from a software version previous to 1.8.0 the main\files\UpdateScript\AUTHDB_UpdateVers1.8.0.sql script must be executed in the AUTHDB.

- version 1.9.0 introduces some breaking changes in configurations and databases. This steps must be followed to update a previous MDM version:

- scripts DDB_UpdateVers1.9.0.sql, RMDB_UpdateVers1.9.0 and MSDB_UpdateVers1.9.0.sql must be executed in the correspondent DB

- file main\app\ws\NODE_API\config\nodesConfigDefault.json must be added

- in main\app\ws\NODE_API\appsettings.json the following lines must be added at base level:

```
"NODES_DEFAULT_CONFIG_PATH": "config/nodesDefaultConfig.json",
```

```
"PasswordRequiredLength": 12,
```

```
"PasswordRequireNonAlphanumeric": true,
```

```
"PasswordRequireNonAlphanumericChars": "$@!%*?&",
```

```
"PasswordRequireLowercase": true,
```

```
"PasswordRequireUppercase": true,
```

```
"PasswordRequireDigit": true,
```

```
"PasswordCheckUserid": true,
```

```
"PasswordCheckPrevious": true
```

- in main\app\ws\NODE_API\config\appConfig.json the following line must be added in "User Interface" section:

```
"DefaultSidebar2ndLevelMenu": false,
```

- Nodes' configuration should be redefined from scratch deleting all existent nodes.

Alternatively in main\app\ws\NODE_API\config\nodesConfig.json nodes' annotation configuration section must be changed with the following lines:

```
"Annotations": {  
  "HaveMetadata": {  
    "Id": "HAVE_METADATA",  
    "Type": "HAVE_METADATA"  
  },  
  "DDBDataflow": {  
    "Id": "DDBDataflow",  
    "Type": "DDBDataflow"  
  },  
  "Metadataset": {  
    "Id": "AssociatedMetadataSet",  
    "Type": "AssociatedMetadataSet"  
  },  
  "AssociatedCube": {  
    "Id": "AssociatedCube",  
    "Type": "AssociatedCube"  
  },  
  "CustomDSD": {  
    "Id": "CustomDSD",  
    "Type": "CustomDSD"  
  },  
  "Changed": {  
    "Id": "CHANGED",
```

```
"Type": "CHANGED"
},
"LayoutRow": {
  "Id": "LAYOUT_ROW",
  "Type": "LAYOUT_ROW"
},
"LayoutColumn": {
  "Id": "LAYOUT_COLUMN",
  "Type": "LAYOUT_COLUMN"
},
"LayoutRowSection": {
  "Id": "LAYOUT_ROW_SECTION",
  "Type": "LAYOUT_ROW_SECTION"
},
"LayoutFilter": {
  "Id": "LAYOUT_FILTER",
  "Type": "LAYOUT_FILTER"
},
"NotDisplayed": {
  "Id": "NOT_DISPLAYED",
  "Type": "NOT_DISPLAYED"
},
"FullName": {
  "Id": "FULL_NAME",
  "Type": "FULL_NAME"
},
"Default": {
  "TimePeriodStart": "TIME_PERIOD_START",
  "TimePeriodEnd": "TIME_PERIOD_END",
  "LastNObservation": "LASTNOBSERVATION",
  "LastNPeriod": "LASTNPERIOD",
  "Id": "DEFAULT",
```

```
"Type": "DEFAULT"
},
"ConceptSchemesOrder": {
  "Id": "ORDER",
  "Type": "ORDER"
},
"CategorySchemesOrder": {
  "Id": "ORDER",
  "Type": "ORDER"
},
"CodelistsOrder": {
  "Id": "ORDER",
  "Type": "ORDER"
},
"CategorisationsOrder": {
  "Id": "ORDER",
  "Type": "ORDER"
},
"AttachedFilePath": {
  "Id": "ATTACHED_FILE_PATH",
  "Type": "ATTACHED_FILE_PATH"
},
"RestrictedForPublication": {
  "Id": "RESTRICTED_FOR_PUBLICATION",
  "Type": "RESTRICTED_FOR_PUBLICATION"
},
"DCAT_IsMultilingual": {
  "Id": "SDMX21_IsMultilingual",
  "Type": "SDMX21_IsMultilingual"
},
"CustomIsPresentational": {
  "Id": "CUSTOM_IS_PRESENTATIONAL",
```

```
"Type": "CUSTOM_IS_PRESENTATIONAL"
},
"LayoutDataflowKeywords": {
  "Id": "LAYOUT_DATAFLOW_KEYWORDS",
  "Type": "LAYOUT_DATAFLOW_KEYWORDS"
},
"LayoutCriteriaSelection": {
  "Id": "LAYOUT_CRITERIA_SELECTION",
  "Type": "LAYOUT_CRITERIA_SELECTION"
},
"LayoutAttachedDataFiles": {
  "Id": "LAYOUT_ATTACHED_DATA_FILES",
  "Type": "LAYOUT_ATTACHED_DATA_FILES"
},
"LayoutDefaultPresentation": {
  "Id": "LAYOUT_DEFAULT_PRESENTATION",
  "Type": "LAYOUT_DEFAULT_PRESENTATION"
},
"LayoutDecimalSeparator": {
  "Id": "LAYOUT_DECIMAL_SEPARATOR",
  "Type": "LAYOUT_DECIMAL_SEPARATOR"
},
"LayoutNumberOfDecimals": {
  "Id": "LAYOUT_NUMBER_OF_DECIMALS",
  "Type": "LAYOUT_NUMBER_OF_DECIMALS"
},
"LayoutReferenceMetadata": {
  "Id": "LAYOUT_REFERENCE_METADATA",
  "Type": "LAYOUT_REFERENCE_METADATA"
},
"LayoutEmptyCellPlaceholder": {
  "Id": "LAYOUT_EMPTY_CELL_PLACEHOLDER",
```

```
"Type": "LAYOUT_EMPTY_CELL_PLACEHOLDER"
},
"LayoutDataflowNotes": {
  "Id": "LAYOUT_DATAFLOW_NOTES",
  "Type": "LAYOUT_DATAFLOW_NOTES"
},
"LayoutMaxTableCells": {
  "Id": "LAYOUT_MAX_TABLE_CELLS",
  "Type": "LAYOUT_MAX_TABLE_CELLS"
},
"LayoutTerritorialDimensionIds": {
  "Id": "LAYOUT_TERRITORIAL_DIMENSION_IDS",
  "Type": "LAYOUT_TERRITORIAL_DIMENSION_IDS"
},
"LayoutDataflowSource": {
  "Id": "LAYOUT_DATAFLOW_SOURCE",
  "Type": "LAYOUT_DATAFLOW_SOURCE"
},
"LastUpdate": {
  "Id": "LAST_UPDATE",
  "Type": "LAST_UPDATE"
},
"LinkedDataflowNode": {
  "Id": "LINKEDDATAFLOWNODE",
  "Type": "LINKEDDATAFLOWNODE"
},
"DataflowCatalogType": {
  "Id": "DataflowCatalogType",
  "Type": "DataflowCatalogType"
},
"LayoutChartPrimaryDim": {
  "Id": "LAYOUTCHARTPRIMARYDIM",
```

```
"Type": "LAYOUTCHARTPRIMARYDIM"
},
"LayoutChartSecondaryDim": {
  "Id": "LAYOUTCHARTSECONDARYDIM",
  "Type": "LAYOUTCHARTSECONDARYDIM"
},
"LayoutChartFilter": {
  "Id": "LAYOUTCHARTFILTER",
  "Type": "LAYOUTCHARTFILTER"
},
"LayoutDataflowHidden": {
  "Id": "DATAFLOW_HIDDEN",
  "Type": "DATAFLOW_HIDDEN"
},
"TemporalDimOrder": {
  "Id": "TEMPORAL_DIM_ORDER",
  "Type": "TEMPORAL_DIM_ORDER"
},
"DisabledViewers": {
  "Id": "DISABLED_VIEWERS",
  "Type": "DISABLED_VIEWERS"
},
"TableLockedDims": {
  "Id": "TABLE_LOCKED_DIMS",
  "Type": "TABLE_LOCKED_DIMS"
},
"GraphLockedDims": {
  "Id": "GRAPH_LOCKED_DIMS",
  "Type": "GRAPH_LOCKED_DIMS"
},
"HCLReference": {
  "Id": "@SDMX",
```

```

    "Type": "HIER_CONTEXT"
  }
},

```

Personalization of the configuration must be reported properly. Please note that annotation's type for LinkedataflowNode is now LINKEDDATAFLOWNODE.

- version 2.0.0 introduces a new technological upgrade (.NET 6.0), new features and plugin management. To update MDM version, follow these steps:

- install .NET Core Runtime and the ASP.NET Core Module 6.0 in order to allow ASP.NET Core app to run with IIS. Download and execute Hosting Bundle 6.0.20 from:

<https://dotnet.microsoft.com/en-us/download/dotnet/thank-you/runtime-aspnetcore-6.0.20-windows-hosting-bundle-installer>

- run scripts AUTHDB_UpdateVers2.0.0.sql in AUTHDB

- run scripts DDB_UpdateVers2.1.4.sql in DDB

- Nodes' configuration should be redefined from scratch deleting all existent nodes.

Otherwise, in main\app\ws\NODE_API\config\nodesConfig.json:

- add the following lines at the end of the "Annotations" section of each node:

```

    "Annotations": {

        "DDBContentConstraint": {
            "Id": "DDB_CONTENT_CONSTRAINT",
            "Type": "DDB_CONTENT_CONSTRAINT"
        },

        "AnticipationExceedingMaxNumRecords": {
            "Id": "ANITICIP_EXCEEDING_MAX_NUM_REC",
            "Type": "ANITICIP_EXCEEDING_MAX_NUM_REC"
        },

        "LayoutMapFilter": {

```

```

    "Id": "LAYOUTMAPFILTER",
    "Type": "LAYOUTMAPFILTER"
  }
},

```

- for updating the enviroment from the software version 2.0.0 to 2.1.10

the main\files\UpdateScript\AUTHDB_UpdateVers2.1.0.sql and
main\files\UpdateScript\AUTHDB_UpdateVers2.1.8.sql scripts must be executed in the AUTHDB.

the main\files\UpdateScript\DDB_UpdateVers2.1.4.sql and
main\files\UpdateScript\DDB_UpdateVers2.1.6.sql scripts must be executed in the DDB.

- Nodes' configuration should be redefined from scratch deleting all existent nodes.

Otherwise, in main\app\ws\NODE_API\config\nodesConfig.json:

- add the following lines at the end of the "Annotations" section of each node:

```

    "Annotations": {
      "NonReadyForProduction": {
        "Id": "NON_READY_FOR_PRODUCTION",
        "Type": "NON_READY_FOR_PRODUCTION"
      },
      "ReadyForProduction": {
        "Id": "READY_FOR_PRODUCTION",
        "Type": "READY_FOR_PRODUCTION"
      },
      "DataFlowHeaderCustom": {
        "Id": "DATAFLOW_HEADER_CUSTOM",
        "Type": "DATAFLOW_HEADER_CUSTOM"
      }
    },

```

- add the following lines at the end of the "DataManagement" section in
main\app\ws\NODE_API\config\appConfig.json:

```
"DataManagement": {  
  
  "DatasetPrefix": "DS_",  
  "StruvalFormat": "structurespecificdata",  
  "LimitPagingMa": 500,  
  "MaxRowsErrorMappingValidation": 100  
},
```

- for updating the enviroment from the software version 2.1.10 to 2.1.11

the main\files\UpdateScript\DDB_UpdateVers2.1.11.sql script must be executed in the DDB.

- Nodes' configuration should be redefined from scratch deleting all existent nodes.

Otherwise, in main\app\ws\NODE_API\config\nodesConfig.json:

- add the following lines at the end of the "Annotations" section of each node:

```
"Annotations": {  
  
  "AttributeAsDim": {  
    "Id": "ATTRIBUTE_AS_DIM",  
    "Type": "ATTRIBUTE_AS_DIM"  
  },  
  "LayoutAggregateCells": {  
    "Id": "LAYOUT_AGGREGATE_CELLS",  
    "Type": "LAYOUT_AGGREGATE_CELLS"  
  },  
  "LayoutChartPrimaryDimCartesian": {  
    "Id": "LAYOUT_CHART_PRIMARY_DIM_CARTESIAN",  
    "Type": "LAYOUT_CHART_PRIMARY_DIM_CARTESIAN"  
  },  
  "LayoutChartSecondaryDimCartesian": {
```

```
"Id": "LAYOUT_CHART_SECONDARY_DIM_CARTESIAN",
"Type": "LAYOUT_CHART_SECONDARY_DIM_CARTESIAN"
},
"LayoutChartFilterCartesian": {
  "Id": "LAYOUT_CHART_FILTER_CARTESIAN",
  "Type": "LAYOUT_CHART_FILTER_CARTESIAN"
},
"GraphLockedDimsCartesian": {
  "Id": "GRAPH_LOCKED_DIMS_CARTESIAN",
  "Type": "GRAPH_LOCKED_DIMS_CARTESIAN"
},
"LayoutChartPrimaryDimRadial": {
  "Id": "LAYOUT_CHART_PRIMARY_DIM_RADIAL",
  "Type": "LAYOUTCHARTPRIMARYDIM_RADIAL"
},
"LayoutChartSecondaryDimRadial": {
  "Id": "LAYOUT_CHART_SECONDARY_DIM_RADIAL",
  "Type": "LAYOUT_CHART_SECONDARY_DIM_RADIAL"
},
"LayoutChartFilterRadial": {
  "Id": "LAYOUT_CHART_FILTER_RADIAL",
  "Type": "LAYOUT_CHART_FILTER_RADIAL"
},
"GraphLockedDimsRadial": {
  "Id": "GRAPH_LOCKED_DIMS_RADIAL",
  "Type": "GRAPH_LOCKED_DIMS_RADIAL"
},
"LayoutCategorySchemesOrder": {
  "Id": "LAYOUT_CATEGORY_SCHEMES_ORDER",
  "Type": "LAYOUT_CATEGORY_SCHEMES_ORDER"
}
},
```

- add the following line at the end of the "DataManagement" section in
main\app\ws\NODE_API\config\appConfig.json:

```
"DataManagement": {  
  
    "BlackListQueryWord": "INDICATOR|TIME|VALUES|VALUE"  
  
},
```

- for updating the enviroment from the software version 2.1.11 to 2.1.12
- rename the following annotations:

```
"Annotations": {  
"GraphLockedDimsCartesian": {  
    "Id": "GRAPH_LOCKED_DIMS_CARTESIAN",  
    "Type": "GRAPH_LOCKED_DIMS_CARTESIAN"  
},  
"GraphLockedDimsRadial": {  
    "Id": "GRAPH_LOCKED_DIMS_RADIAL",  
    "Type": "GRAPH_LOCKED_DIMS_RADIAL"  
},  
"LayoutCategorySchemesOrder": {  
    "Id": "LAYOUT_CATEGORY_SCHEMES_ORDER",  
    "Type": "LAYOUT_CATEGORY_SCHEMES_ORDER"  
}  
},
```

in:

```
"Annotations": {  
"LayoutGraphLockedDimsCartesian": {  
    "Id": "LAYOUT_GRAPH_LOCKED_DIMS_CARTESIAN",
```

```

    "Type": "LAYOUT_GRAPH_LOCKED_DIMS_CARTESIAN"
  },
  "LayoutGraphLockedDimsRadial": {
    "Id": "LAYOUT_GRAPH_LOCKED_DIMS_RADIAL",
    "Type": "LAYOUT_GRAPH_LOCKED_DIMS_RADIAL"
  },
  "LayoutCategorySchemesOrder": {
    "Id": "ORDER",
    "Type": "ORDER"
  }
},

```

- for updating the enviroment from the software version 2.1.12 to 2.2.0

- rename the following annotations:

```

    "Annotations": {
      "LayoutGraphLockedDimsCartesian": {
        "Id": "LAYOUT_GRAPH_LOCKED_DIMS_CARTESIAN",
        "Type": "LAYOUT_GRAPH_LOCKED_DIMS_CARTESIAN"
      },
      "LayoutGraphLockedDimsRadial": {
        "Id": "LAYOUT_GRAPH_LOCKED_DIMS_RADIAL",
        "Type": "LAYOUT_GRAPH_LOCKED_DIMS_RADIAL"
      }
    }
  },

```

in:

```

    "Annotations": {
      "LayoutChartLockedDimsCartesian": {
        "Id": "LAYOUT_CHART_LOCKED_DIMS_CARTESIAN",
        "Type": "LAYOUT_CHART_LOCKED_DIMS_CARTESIAN"
      }
    }
  },

```

```

"LayoutChartLockedDimsRadial": {
  "Id": "LAYOUT_CHART_LOCKED_DIMS_RADIAL",
  "Type": "LAYOUT_CHART_LOCKED_DIMS_RADIAL"
}
},

```

- for updating the environment from the software version 2.2.0 to 2.3.0
 - the main\files\UpdateScript\AUTHDB_UpdateVers2.3.0 script must be executed in the AUTHDB.
 - in main\app\ws\NODE_API\appsettings.json the following lines must be added at base level:

```

"Cors": {
  "Enabled": false,
  "Origins": ""
},
"ACL_CONFIG_PATH": "config/acl.json",

```

Into Cors sections, set Enabled to true if you want to enable CORS. If you set Enabled to true, set the list of allowed origins in Origins, separated by ;

- in main\app\ws\DM_API_WS\appsettings.json the following lines must be added into section AuthCore:

```

"MaxLoginAttempts": 3,
"MinLoginAttemptInterval": 60,
"LockLoginDuration": 600,

```

Refer to the installation manual for the meaning of these keys

- for updating the environment from the software version 2.3.0 to 2.4.0
 - run scripts DDB_UpdateVers2.4.0.sql in DDB

- for updating the environment from the software version 2.4.0 to 2.4.6
- add the "Crypted" parameter in the "Endpoint" section of each node:

```
"Endpoint": {  
  "Crypted": false  
}
```

- for updating the environment from the software version 2.4.6 to 2.4.8
- in main\app\ws\METADATA_API\appsettings.json the following lines must be added at base level:

```
"Cors": {  
  "Enabled": false,  
  "Origins": ""  
},
```

Into Cors sections, set Enabled to true if you want to enable CORS. If you set Enabled to true, set the list of allowed origins in Origins, separated by ;