

Backport %JSON.* to Caché

Article

[Robert Cemper](#) · Jun 25, 2020

 12m read

Backport %JSON.* to Caché

Attention:

This is a coding example working on Caché 2018.1.3
It will not be kept in sync with new versions
It is also **NOT** serviced by InterSystems **Support** !

Full backport from IRIS for Windows (x86-64) 2020.1 (Build 215U) Mon Mar 30 2020 20:14:33 EDT

IRIS brought us an excellent %JSON.Package

It is an essential component of the Project Manager (ZPM)

This backport makes it available also in Caché and builds a base to eventually backport also ZPM.

As writing to SYSLIB / IRISLIB is a strict NO-NO all .cls and .inc names now start with %Z*

So %JSON.Adaptor became %ZJSON.Adaptor. Names of Properties & Methods inside the classes didn't change.

An extension of specific error codes was required as they don't exist in Caché

Installation & Content

As ZPM is not available (yet?) the traditional install of a package as .XML applies.

It is all packed into [%ZJSON.XML](#)

I just tested it in Namespace "%SYS" with Studio import + compile

Examples

In Namespace SAMPLES I extended

- Class Sample.Address Extends (%SerialObject, %Populate, %XML.Adaptor, %ZJSON.Adaptor)
- Class Sample.Person Extends (%Persistent, %Populate, %XML.Adaptor, %ZJSON.Adaptor)
- recompiled Class Sample.Employee Extends Person
- Class Sample.Company Extends (%Persistent, %Populate, %XML.Adaptor, %ZJSON.Adaptor)

Quick Test

single object

```
USER>ZN "SAMPLES"
```

```
SAMPLES>do ##class(Sample.Person).%OpenId(3).%JSONexportToString(.jsn) w !,jsn,!
```

```
{"Name":"Eno,Ashley T.,"SSN":"655-23-7554","DOB":"1957-10-05","Home":{"Street":"4763  
Madison Place","City":"Elmhurst","State":"AR","Zip":"44523"},"Office":{"Street":"655  
1 First Blvd","City":"Chicago","State":"WV","Zip":"12600"},"FavoriteColors":["Red","O
```

Backport %JSON.* to Caché

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```
range" ], "Age": "62" }
```

```
SAMPLES>do ##class(%ZJSON.Formatter).%New().Format(jsn)
{
  "Name": "Eno, Ashley T.",
  "SSN": "655-23-7554",
  "DOB": "1957-10-05",
  "Home": {
    "Street": "4763 Madison Place",
    "City": "Elmhurst",
    "State": "AR",
    "Zip": "44523"
  },
  "Office": {
    "Street": "6551 First Blvd",
    "City": "Chicago",
    "State": "WV",
    "Zip": "12600"
  },
  "FavoriteColors": [
    "Red",
    "Orange"
  ],
  "Age": "62"
}
SAMPLES>
```

complex object

```
SAMPLES>
do ##class(Sample.Employee).%OpenId(103).Company.%JSONExportToString(jsn) w !,jsn,!
do ##class(%ZJSON.Formatter).%New().Format(jsn)

{"Name": "TeraData Partners", "Mission": "Providers of high-tech predictive analytic XML gaming for high-worth individuals.", "TaxID": "G3790", "Revenue": "427485809", "Employees": [{"Name": "Lennon, Xavier B.", "SSN": "949-36-7517", "DOB": "2011-03-02", "Home": {"Street": "7251 Madison Avenue", "City": "Vail", "State": "KS", "Zip": "12629"}, "Office": {"Street": "9419 Clinton Drive", "City": "Jackson", "State": "IL", "Zip": "95635"}, "Spouse": {"Name": "Gaboriault, Tara K.", "SSN": "196-41-3278", "DOB": "2015-06-16", "Home": {"Street": "4435 Second Place", "City": "Hialeah", "State": "VA", "Zip": "37962"}, "Office": {"Street": "3237 Washington Avenue", "City": "Tampa", "State": "AR", "Zip": "91726"}, "FavoriteColors": ["White", "Red"], "Age": "5"}, {"Age": "9", "Title": "Associate Product Manager", "Salary": "59576", "Notes": "Xavier used to work at OptiSystems Group Ltd. as a(n) Executive Systems Engineer", "Picture": "iVBORw0KGgoAAAANSUhEUgAAABIAAAARCAIAAABfOGuuAAAAK3RFWHRDcmVhdGlvbiBUaW1lAFRodSA2IEphbiAyMDExIDE2OjIwOjU4IC0wNTAw73VlcAAAAAd0SU1FB9sBBhUWCKSIbF4AAAAJcEhZcwAACxIAAAsSAdLdfvAAAAEZ0FNQQAAsY8L/GEFAAAC1klEQVR42l2TyW/TQBSHZ7MdO3HsZmubtKnUTaWlKggEhwoJOCAh9W/ljjhxAEErBwMhFaVruiXYbpw43sYzHhyo2N5tpPfnPq9edBlXfBvCQGYEClgEEAEEIYIw9aPn7wAXwKLCsZidRhK9kFNRIroTKGjIVLP9N/8FiDo+9dJdefOODTlBNMFCQ019s3ZaVYtIw0fyoVpUw/geLGdiyo3fBJa+2GNZVovth3YnmfbaLzA/TeP3k+mKRPWoW6wSjG4yn4ND1Xtq7tGLN5+vjuAkU7ZMn7Qjk0LGDRJspXGp4+LNFVbw2ppcz2SHaC5P19n6PbFVMboDKg1RZyuWbCtQIZ0hcc8VLSQ40Du3XO1dfkGcZgrLcOp6353x1qR0kkZs6nTi2YuhSGFMEOIQCHThnblutIOltznz9f4gRxxXb7bcHXUuGzr1SkUunsiIhdhYC2xcRSFJGnU4TWflxbS/wW5YbVoo5wpjo9lLnfMrrjTJzqquVLxSICuzTLKeEoYhxRbNLNwiDVFjWteP6YtIkAAIey0lXSXxCYxGP+EH2WBZXXlKW5KTew5n04yVvAtq9LnmR2Qs6lCQYFBVZiiQQXwmaJoMRkJfBEEsh9RpTGyuFzhiEqQ8vLS5xtVRQsySJRFC9pEwaoaG+DXjx8HQp4qbASHComQvI/h6xNlxRkYTncQ1NVkZ0COFwbhM19eGcfjQIPmJJaf8ffz7hQR6wNGXRaUd2jXzk4ca01xgtP19ZNgq5m3EbuVrgYfb0zaIVOM2x47DrXu7WWNvIPL3vWiJrmo5E1Vy4s3z31pws4xsMITjbrK7Rp6822Ym/XTZZqHKey0yRLBFZwmZZWV1Yenb/3i/DP38yu2NxukHgk/fbo5vn3z1J6IjIdkZVSb2u373XWF2dmxwvDQP8Wfd3vnHOGyDoe77jDKyO3+/HCAHDUKo1vVTSi0VNVVWE0K/mHyUqfH/CYktlAAAA
```

Backport %JSON.* to Cache

Published on InterSystems Developer Community (<https://community.intersystems.com>)

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AE1FTkSuQmCC"}, {"Name": "Ipsen, Jules U.", "SSN": "297-21-2682", "DOB": "2009-10-20", "Home": {"Street": "4291 Main Place", "City": "Newton", "State": "DE", "Zip": "47093"}, "Office": {"Street": "2019 Franklin Place", "City": "Newton", "State": "VA", "Zip": "92649"}, "Spouse": {"Name": "Adam, Jane C.", "SSN": "970-42-3768", "DOB": "1980-03-04", "Home": {"Street": "1395 Maple Court", "City": "Boston", "State": "IL", "Zip": "80443"}, "Office": {"Street": "38 Franklin Avenue", "City": "Oak Creek", "State": "ME", "Zip": "42689"}, "FavoriteColors": ["Purple"], "Age": "40"}, "Age": "10", "Title": "Strategic Accounts Rep.", "Salary": "64695", "Notes": "Jules used to work at BioNet LLC. as a(n) Global Developer", "Picture": "iVBORw0KGgoAAAANSUUhEUgAAABIAAAARCAIAAABfOGuuAAAAK3RFWHRdcmVhdGlvbiBUaWw1AFRodSA2IEphbiAyMDExIDE2OjIwOjU4IC0wNTAw73VlcAAAAAd0SU1FB9sBBhUWCKS1bF4AAAAAJcEhZcwAACxIAAAASAdLdfvAAAAEZ0FNQQAAsY8L/GEFAAAC1klEQVR42l2TyW/TQBSHZ7MdO3HsZmubtKnUTaWlKggEhwoJOCah9W/lj jhxAEERbWmhFaVruiXYbpw43sYzHhyo2N5tpPfNfPq9edBlXfBvCQGYEClgEEAEIYIwv9aAPn7wAXwKLCsZidRhK9kFNRIroTKGjIVLP9N/8FiDo+9dJdefOODTlBNMFCQO19s3ZaVytIw0fyoVpUw/geLGdiyo3fBJa+2GNZVovth3YnmfbaLzA/TeP3k+mKRPWoW6wSjG4yn4ND1Xtq7tGLN5+vjuAkU7ZMn7Qjk0LGDRJspXGp4+LFNVbv2ppcz2SHaC5P19n6PbFV MboDKglRZyuWbCtQIZ0hcc8VLSQ40Du3XO1dfKGcZgrLcOp6353x1qR0kkZs6nTi2YuhSGFMEOIQCHThnblut IOltznzh9f4gRxxB7bcHXUuGzrlSkUunsiIhdhYC2xcRSFJGnU4TWflxbS/wW5YbVoo5wpjo9lLnfmrrjTJzquVLxSicUzTLKeEoYhxRbNLNWiDVFjWteP6YtIkAAIey0lXSXxCYxGP+EH2WBZXXlKW5KTew5n04yVvAtq9Ln mR2Qs6lCQYFBVZiiQQXwmaJomRkJfBEEsh9RpTGyuFzhiEqQ8vLS5xtVRQsySJRFC9pEwaoaG+DXjx8HQp4qb ASHComQvI/h6xNlxRkYtncQlNVkz0COFwbhM19eGcfjQIpMJJaF8ffz7hQR6wNGXRaUd2jXzk4ca01xgtP19Z Ngq5m3EbuVrgYfb0zaIVOM2x47DrXu7WWNvIPL3vWiJrmo5ElVy4s3z3lpws4xSMITjbrK7Rp6822Ym/XTZZq HKey0yRLBFZwmZZWV1Yenb/3i/DP38yu2NukHgk/fbo5vn3z1J6IjIdkZVsb2u373XWF2dmxwvDQP8WfD3vn HOgyDoe77jDKyO3+/HCAHDUKolvVTSi0VNVVWE0K/mHyUqfH/CYktlAAAAAE1FTkSuQmCC"}, {"Name": "Uhles, Clint S.", "SSN": "469-62-1638", "DOB": "1944-03-26", "Home": {"Street": "3155 Elm Blvd", "City": "Reston", "State": "SC", "Zip": "83447"}, "Office": {"Street": "7476 Clinton Blvd", "City": "Newton", "State": "MS", "Zip": "82343"}, "Spouse": {"Name": "Paladino, Imelda S.", "SSN": "355-51-9101", "DOB": "2016-04-09", "Home": {"Street": "6070 Main Place", "City": "Fargo", "State": "ID", "Zip": "36015"}, "Office": {"Street": "4662 Second Drive", "City": "Albany", "State": "VT", "Zip": "41903"}, "FavoriteColors": ["Green", "Green"], "Age": "4"}, "FavoriteColors": ["Yellow"], "Age": "76", "Title": "Senior Marketing Manager", "Salary": "488"}, {"Name": "Evans, Zoe Y.", "SSN": "836-46-4116", "DOB": "1961-11-12", "Home": {"Street": "5158 Second Street", "City": "Newton", "State": "CO", "Zip": "36004"}, "Office": {"Street": "5665 Main Avenue", "City": "Tampa", "State": "CA", "Zip": "22666"}, "Spouse": {"Name": "Chadwick, David D.", "SSN": "867-20-2567", "DOB": "1982-09-04", "Home": {"Street": "1252 Franklin Avenue", "City": "Zanesville", "State": "LA", "Zip": "74755"}, "Office": {"Street": "9640 Washington Court", "City": "Boston", "State": "AZ", "Zip": "61846"}, "Age": "37"}, "Age": "58", "Title": "Assistant Systems Engineer", "Salary": "58285"}, {"Name": "Yancik, Roberta U.", "SSN": "864-70-8242", "DOB": "1998-01-12", "Home": {"Street": "9652 Maple Court", "City": "Chicago", "State": "MS", "Zip": "67796"}, "Office": {"Street": "6014 Washington Court", "City": "Ukiah", "State": "WV", "Zip": "56011"}, "Spouse": {"Name": "Eagleman, Valery P.", "SSN": "231-81-6984", "DOB": "1996-12-25", "Home": {"Street": "3118 Ash Street", "City": "Miami", "State": "MI", "Zip": "84970"}, "Office": {"Street": "3776 Clinton Blvd", "City": "Ukiah", "State": "CT", "Zip": "57613"}, "FavoriteColors": ["Green"], "Age": "23"}, "Age": "22", "Title": "Resources Director", "Salary": "75331"}, {"Name": "Braam, Kim D.", "SSN": "119-77-3119", "DOB": "1954-01-17", "Home": {"Street": "5808 Franklin Drive", "City": "Elmhurst", "State": "MD", "Zip": "19151"}, "Office": {"Street": "4002 Oak Street", "City": "Xavier", "State": "NH", "Zip": "90182"}, "Spouse": {"Name": "Uelman, Ralph Z.", "SSN": "686-57-5448", "DOB": "2014-07-24", "Home": {"Street": "3482 Franklin Court", "City": "Bensonhurst", "State": "IL", "Zip": "67956"}, "Office": {"Street": "7438 Elm Street", "City": "St Louis", "State": "VT", "Zip": "51597"}, "FavoriteColors": ["Blue", "Black"], "Age": "5"}, "FavoriteColors": ["Orange"], "Age": "66", "Title": "Laboratory Hygienist", "Salary": "65936"}]}
```

```
{
  "Name": "TeraData Partners",
  "Mission": "Providers of high-tech predictive analytic XML gaming for high-worth individuals.",
  "TaxID": "G3790",
  "Revenue": "427485809",
  "Employees": [
```

```
{
  "Name": "Lennon, Xavier B.",
  "SSN": "949-36-7517",
  "DOB": "2011-03-02",
  "Home": {
    "Street": "7251 Madison Avenue",
    "City": "Vail",
    "State": "KS",
    "Zip": "12629"
  },
  "Office": {
    "Street": "9419 Clinton Drive",
    "City": "Jackson",
    "State": "IL",
    "Zip": "95635"
  },
  "Spouse": {
    "Name": "Gaboriault, Tara K.",
    "SSN": "196-41-3278",
    "DOB": "2015-06-16",
    "Home": {
      "Street": "4435 Second Place",
      "City": "Hialeah",
      "State": "VA",
      "Zip": "37962"
    }
  },
  "Office": {
    "Street": "3237 Washington Avenue",
    "City": "Tampa",
    "State": "AR",
    "Zip": "91726"
  },
  "FavoriteColors": [
    "White",
    "Red"
  ],
  "Age": "5",
  "Age": "9",
  "Title": "Associate Product Manager",
  "Salary": "59576",
  "Notes": "Xavier used to work at OptiSystems Group Ltd. as a(n) Executive System s Engineer",
  "Picture": "ivBORw0KGgoAAAANSUUhEUgAAABIAAAARCAIAAAABfOGuuAAAAK3RFWHRDcmVhdGlvbiBUaW1lAFRodSA2IEphbiAyMDExIDE2OjIwOjU4IC0wNTAw73VlcAAAAAd0SU1FB9sBBhUWCKSIbF4AAAAJcEhZcwAACxIAAAASAdLdfvAAAAEZ0FNQQAAsY8L/GEFAAAC1klEQVR42l2TyW/TQBShZ7Md03HsZmubtKnUTaWlKgEhwoJOCaH9W/ljjhxAEErbWmhFaVruiXYbpw43sYzHhyo2N5tpPfNfPq9edBlXfBvCQGYEClgEEAEEIYIwv9aAPn7wAXwKLCsZidRhK9kFNRiRoTKGjIVLP9N/8FiDo+9dJdefOODTLBNMFCQ019s3ZaVYtIw0fyoVpUw/geL Gdiyo3fBJa+2GNZVovth3YnmfbaLzA/TeP3k+mKRPWoW6sJg4yn4ND1Xtq7tGLN5+vjuAkU7ZMn7Qjk0LGDR JspXGp4+LFNVbw2ppcz2SHaC5P19n6PbFVMboDKglRZyuWbCtQIZ0hcc8VLSQ40Du3X01dfKGcZgrLcOp6353 x1qR0kkZs6nTi2YuhSGFME0IQCHThnblutIOltnzh9f4gRxxB7bcHXUuGzrlSkUunsiIhdhYC2xcrSFJGnU4 TWflxbS/wW5YbVoo5wpjo9lLnfmrrjTJzqqvVLxSiCuzTLKeEoYhxRbNlNwiDVFjWteP6YtIkAAIey0lXSxxC YxGP+EH2WBZXXkLKW5KTew5n04yVvAtq9LnmR2Qs6lCQYFBVZiiQQXwmaJoMRkJfBEEsh9RpTGyuFzhiEqQ8vL S5xtVRQsySJRFC9pEwaoaG+DXjx8HQp4qbASHComQvI/h6xNlxRkYtncQ1NVkZ0COFwBhM19eGcfjQIpMJJaF 8ffZ7hQR6wNGXRaUd2jXzk4ca01xgtP19ZNgq5m3EbuVrgYfb0zaIVOM2x47DrXu7WwNvIPL3vWiJrmo5E1Vy 4s3z31pws4xsmITjbrK7Rp6822Ym/XTZZqHKey0yRLBFZwmZZWV1Yenb/3i/DP38yu2NxukHgk/fbo5vn3z1J 6IjIdkZVsb2u373XWF2dmxwvDQP8WfD3vnHogyDoe77jDKyO3+/HCAHDUK0lvVTSi0VNVVWE0K/mHyUqfH/CY KtlAAAAAE1FTkSuQmCC"
}
,
```

```
{
  "Name": "Ipsen, Jules U.",
  "SSN": "297-21-2682",
  "DOB": "2009-10-20",
  "Home": {
    "Street": "4291 Main Place",
    "City": "Newton",
    "State": "DE",
    "Zip": "47093"
  },
  "Office": {
    "Street": "2019 Franklin Place",
    "City": "Newton",
    "State": "VA",
    "Zip": "92649"
  },
  "Spouse": {
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    "SSN": "970-42-3768",
    "DOB": "1980-03-04",
    "Home": {
      "Street": "1395 Maple Court",
      "City": "Boston",
      "State": "IL",
      "Zip": "80443"
    }
  },
  "Office": {
    "Street": "38 Franklin Avenue",
    "City": "Oak Creek",
    "State": "ME",
    "Zip": "42689"
  },
  "FavoriteColors": [
    "Purple"
  ],
  "Age": "40"
},
"Age": "10",
"Title": "Strategic Accounts Rep.",
"Salary": "64695",
"Notes": "Jules used to work at BioNet LLC. as a(n) Global Developer",
"Picture": "ivBORw0KGgoAAAANSUUhEUgAAABIAAAARCAIAAAABfOGuuAAAAK3RfWHRDcmVhdGlvbiBU
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KtIAAAAAElFTkSuQmCC"
},
{
  "Name": "Uhles, Clint S.",
```

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"SSN": "469-62-1638",
"DOB": "1944-03-26",
"Home": {
  "Street": "3155 Elm Blvd",
  "City": "Reston",
  "State": "SC",
  "Zip": "83447"
},
"Office": {
  "Street": "7476 Clinton Blvd",
  "City": "Newton",
  "State": "MS",
  "Zip": "82343"
},
"Spouse": {
  "Name": "Paladino, Imelda S.",
  "SSN": "355-51-9101",
  "DOB": "2016-04-09",
  "Home": {
    "Street": "6070 Main Place",
    "City": "Fargo",
    "State": "ID",
    "Zip": "36015"
  },
  "Office": {
    "Street": "4662 Second Drive",
    "City": "Albany",
    "State": "VT",
    "Zip": "41903"
  },
  "FavoriteColors": [
    "Green",
    "Green"
  ],
  "Age": "4"
},
"FavoriteColors": [
  "Yellow"
],
"Age": "76",
"Title": "Senior Marketing Manager",
"Salary": "488"
},
{
  "Name": "Evans, Zoe Y.",
  "SSN": "836-46-4116",
  "DOB": "1961-11-12",
  "Home": {
    "Street": "5158 Second Street",
    "City": "Newton",
    "State": "CO",
    "Zip": "36004"
  },
  "Office": {
    "Street": "5665 Main Avenue",
    "City": "Tampa",
    "State": "CA",
    "Zip": "22666"
  },
}
```

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"Spouse":{
  "Name":"Chadwick,David D.",
  "SSN":"867-20-2567",
  "DOB":"1982-09-04",
  "Home":{
    "Street":"1252 Franklin Avenue",
    "City":"Zanesville",
    "State":"LA",
    "Zip":"74755"
  },
  "Office":{
    "Street":"9640 Washington Court",
    "City":"Boston",
    "State":"AZ",
    "Zip":"61846"
  },
  "Age":"37"
},
"Age":"58",
"Title":"Assistant Systems Engineer",
"Salary":"58285"
},
{
  "Name":"Yancik,Roberta U.",
  "SSN":"864-70-8242",
  "DOB":"1998-01-12",
  "Home":{
    "Street":"9652 Maple Court",
    "City":"Chicago",
    "State":"MS",
    "Zip":"67796"
  },
  "Office":{
    "Street":"6014 Washington Court",
    "City":"Ukiah",
    "State":"WV",
    "Zip":"56011"
  },
  "Spouse":{
    "Name":"Eagleman,Valery P.",
    "SSN":"231-81-6984",
    "DOB":"1996-12-25",
    "Home":{
      "Street":"3118 Ash Street",
      "City":"Miami",
      "State":"MI",
      "Zip":"84970"
    },
    "Office":{
      "Street":"3776 Clinton Blvd",
      "City":"Ukiah",
      "State":"CT",
      "Zip":"57613"
    },
    "FavoriteColors":[
      "Green"
    ],
    "Age":"23"
  },
}
```

Backport %JSON.* to Caché

Published on InterSystems Developer Community (<https://community.intersystems.com>)

```
"Age": "22",
"Title": "Resources Director",
"Salary": "75331"
},
{
  "Name": "Braam, Kim D.",
  "SSN": "119-77-3119",
  "DOB": "1954-01-17",
  "Home": {
    "Street": "5808 Franklin Drive",
    "City": "Elmhurst",
    "State": "MD",
    "Zip": "19151"
  },
  "Office": {
    "Street": "4002 Oak Street",
    "City": "Xavier",
    "State": "NH",
    "Zip": "90182"
  },
  "Spouse": {
    "Name": "Ulman, Ralph Z.",
    "SSN": "686-57-5448",
    "DOB": "2014-07-24",
    "Home": {
      "Street": "3482 Franklin Court",
      "City": "Bensonhurst",
      "State": "IL",
      "Zip": "67956"
    },
    "Office": {
      "Street": "7438 Elm Street",
      "City": "St Louis",
      "State": "VT",
      "Zip": "51597"
    },
    "FavoriteColors": [
      "Blue",
      "Black"
    ],
    "Age": "5"
  },
  "FavoriteColors": [
    "Orange"
  ],
  "Age": "66",
  "Title": "Laboratory Hygienist",
  "Salary": "65936"
}
]
}
SAMPLES>
```

Note

This works of course also in IRIS.

Backport %JSON.* to Caché

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