

# Requirements

- [Data Structure](#)
- [Json Schemas](#)
- [GPG Sign RPMs](#)

# Data Structure

## NEW implementation

- **name** : Software name
- **version** : version of the software name
- **contact** : contact name of the software
- **technicalContact**: technical contact name of the developer
- **description** : Software shor description
- **releaseDate** : Date of the release deployed in UMD/CMD etc.
- **majorVersion** : Major version of the release
- **minorVersion** : Minor version of the release
- **revisionVersion** : Revision version of the release
- **releaseNotes** : Descriptiopn or link to the relase notess
- **changeLog** : Change log description or link to change log
- **documentationLinks** : Documentation link for the software
- **distributionType** ": [retrieved from distribution list]
- **distributionVersion**: [retrieved from distribution distributed version list]
- ~~**MajordistributionVersion**: [retrieved from distribution distributed version list]~~
- **capabilities** : [retrieved from capabilities definition list]
- **target**:  
["platform": "centos7"];  
["arch": "x86\_64"];  
[repositoryURL": "sw/production/umd/4/centos7/x86\_64/updates]
- **softwareConfigurationLink** : link for the UMD/CMD software configuration
- ~~**softwareConfigurationManagement** : link for the UMD/CMD software configuration~~

## target

### platform

- centos 7
- centos 8
- centos 9
- ubuntu 18
- ubuntu 20
- Docker

## arch

- X86\_64

# Capabilities

(list of possible capabilities)

- **Accounting**
- **Authorization**
- **Attribute Authority**
- **Client Tools**
- **Credential Management**
- **Data Access**
- **File Access, File Transfer**
- **Interactive Job Management**
- **Information Model**
- **Information Discovery**
- **Job Execution**
- **Metadata Catalogue**
- **Parallel Job**
- **Storage Management**

## distributionType

- **UMD**
- **CMD-OS**
- **CMD-ONE**
- **Community**

## MajordistributionVersion

- 1
- 2
- 3
- 4
- 5

# OLD

- **currentState** : State of the "Production",

- **additionalDetails** : Wiki link for Knon issues
- **repositoryURL** : "sw/production/umd/4/centos7/x86\_64/updates",
- **keywords** :

# Json Schemas

## Product

```
{
  "name" : "htcondor",
  "version" : "9.0.1",
  "currentState" : "Production",
  "technologyProvider" : "CHTC (UW-Madison)",
  "contact" : "jfrey.at.cs.wisc.edu",
  "technicalContact" : "jfrey.at.cs.wisc.edu",
  "description" : " HTCondor is a specialized workload management system for compute-intensive jobs. Like other
full-featured batch systems, HTCondor provides a job queueing mechanism, scheduling policy, priority scheme,
resource monitoring, and resource management. Users submit their serial or parallel jobs to HTCondor,
HTCondor places them into a queue, chooses when and where to run the jobs based upon a policy, carefully
monitors their progress, and ultimately informs the user upon completion.
",
  "releaseDate" : "2021-06-01",
  "majorVersion" : "9",
  "minorVersion" : "0",
  "revisionVersion" : "1",
  "releaseNotes" : "https://htcondor.readthedocs.io/en/v9_0/",
  "changeLog" : "N/A",
  "documentationLinks" : ["http://research.cs.wisc.edu/htcondor/manual/","link2"],
  "repositoryURL" : "sw/production/umd/4/centos7/x86_64/updates",
  "distributionType": "UMD",
  "distributionVersion": "4.15.0",
  "capabilities": ["File Access", "Workload Management System"],
  "targets": [
    {
      "platform": "centos7",
      "arch": "x86_64",
      "repositoryURL": "sw/production/umd/4/centos7/x86_64/updates",
      "gpgkey": "http://repository.egi.eu/sw/production/umd/UMD-RPM-PGP-KEY",
      "rpms": [
```

```

    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-9.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/blahp-2.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-all-9.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-annex-ec2-9.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-boinc-7.16.16-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-bosco-9.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-classads-9.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-classads-devel-9.0.1-
1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-credmon-oauth-9.0.1-
1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-devel-9.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-externals-9.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-kbdd-9.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-procd-9.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-tarball-9.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-test-9.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/condor-vm-gahp-9.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/python2-condor-9.0.1-1.el7.x86_64.rpm",
    "https://research.cs.wisc.edu/htcondor/repo/9.0/el7/release/python3-condor-9.0.1-1.el7.x86_64.rpm",
    "https://repo.opensciencegrid.org/osg/3.5/el7/release/x86_64/python2-scitokens-1.3.1-
1.osg35.el7.noarch.rpm"
  ]
}
],
"softwareConfigurationLink": ""
}

```

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- **documentationLinks** : Documentation link for the software
- **distributionType** : [retrieved from distribution list]

- **distributionVersion**: [retrieved from distribution distributed version list]
- **capabilities** : [retrieved from capabilities definition list]
- **target**:  

```
[ "platform": "centos7"
  "arch": "x86_64"
  "repositoryURL": "sw/production/umd/4/centos7/x86_64/updates
  "gpgkey": ""
  "rpms": [
    "https://...1",
    "https://...n"
  ]
]
```
- **softwareConfigurationManagement** : link for the UMD/CMD software configuration

# Distributions

```
{
  "title": "Channel: EGI Repository - Production level releases",
  "description": "This is the EGI Repository Releases RSS channel.",
  "item": [
    {
      "distributionIdentifier": "UMD-5",
      "description": "UMD 5 is a new release of UMD...",
      "currentState": "Production"
    },
    {
      "distributionIdentifier": "UMD-4.15.0",
      "description": "UMD 4.15.0 is an update release of UMD 4. It includes StoRM 1.11.21, lcms-plug-ins 1.8.1, CERN Frontier 4.15.2, dmlite 1.15.0, APEL SSM 3.2.1, DDNS Nagios probe 1.0.1, dCache 6.2.24, Infrastructure Manager Nagios probe 1.0.1",
      "currentState": "Production"
    },
    {
      "distributionIdentifier": "UMD-4.14.0",
      "description": "UMD 4.14.10 is an update release of UMD 4. It includes ARC 6.12.0, xrootd 5.2.0, xrootd 5.2.0, davix 0.7.6, gridftp 13.24.1, gfal2 2.18.2",
      "currentState": "Production"
    }
  ]
}
```

If we need to add dates to help user control the info:

```
"pubdate": "2020-11-26 11:44:25 EEST",  
"updated": "2020-11-26 11:45:02 EEST",
```

# Software Catalog

```
{  
  "title": "Channel: EGI Repository - Production level releases",  
  "description": "Here you can find the complete list of EGI Software products.",  
  "item": [  
    {  
      "name" : "nagios-probe-im",  
      "version" : "1.0.2",  
      "distroIdentifier": "UMD-5",  
      "capabilities": ["client tools", "monitoring"],  
      "description" : "probe for Infrastructure Manager service to ARGO-SAM release",  
      "pubdate": "2021-12-02"  
    },  
    {  
      "name" : "nagios-probe-im",  
      "version" : "1.0.1",  
      "distroIdentifier": "UMD-4.15.0",  
      "capabilities": ["client tools", "monitoring"],  
      "description" : "probe for Infrastructure Manager service to ARGO-SAM release",  
      "pubdate": "2021-07-21"  
    }  
  ],  
  {  
    "name" : "nagios-probe-im",  
    "version" : "1.0.1",  
    "distroIdentifier": "UMD-4.15.0",  
    "capabilities": ["client tools", "monitoring"],  
    "description" : "probe for Infrastructure Manager service to ARGO-SAM release",  
    "pubdate": "2021-07-21"  
  }  
}
```

# Other info

## target

### platform

- centos 7
- centos 8
- centos 9
- ubuntu 18
- ubuntu 20
- Docker

### arch

- X86\_64

## Capabilities

- **Accounting**
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## distributionType

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# Major distribution Version

- 1
- 2
- 3
- 4
- 5

# GPG Sign RPMs

## GPG key generation

A gpg key was generated with the following parameters:

```
gpg --full-generate-key
```

Please select what kind of key you want:

(1) RSA and RSA (default)

Your selection? 1

RSA keys may be between 1024 and 4096 bits long.

What keysize do you want? (3072) 4096

Please specify how long the key should be valid.

0 = key does not expire

Key is valid for? (0) 0

Real name: RPM sign UMD/CMD

Email address: grid.admin@lip.pt

Comment:

You selected this USER-ID:

"RPM sign UMD/CMD <grid.admin@lip.pt>"

public and secret key created and signed.

pub rsa4096 2022-02-21 [SC]

FDA5272E8C8A03597BFA253511339AA2D60A5E99

uid RPM sign UMD/CMD <grid.admin@lip.pt>

sub rsa4096 2022-02-21 [E]

The passphrase is in monica (under NCG site).

The public and private keys were exported:

```
gpg --export -a 'RPM sign UMD/CMD' > RPM-GPG-KEY-umd-cmd
```

```
gpg --export-secret-key 'RPM sign UMD/CMD' > RPM-GPG-KEY-umd-cmd.key
```

Copy the keys to monica, and import them:

```
gpg --import RPM-GPG-KEY-umd-cmd
gpg --import --allow-secret-key-import RPM-GPG-KEY-umd-cmd.key
```

On the host that will sign the RPMs:

```
rpm --import RPM-GPG-KEY-umd-cmd
```

To list all rpm gpg keys:

```
rpm -q gpg-pubkey --qf '%{name}-%{version}-%{release} --> %{summary}\n'
```