Attributes

Chris Watson

November 2018

1 Attributes for ABE Resource Server

$\mathbf{U}_s$ = Subject Attributes

Below are the defined attributes for Subjects, in the case of the ABE Resource Server:

$\mathbf{U}_s$ ::= role : Staff | Student
    | staffRole : Professor | Reader | Senior Lecturer | Lecturer |
            LTS Lecturer | Research Associate | Tutor |
            Demonstrator
    | studentRole : Tutor | Class Rep | Grad Teaching Assistant |
            Demonstrator PG | Demonstrator UG
    | rschGroup : GIST | FATA | IDA | GLASS | CCSE
    | jobTitle : Head of School | Head of Section | Head of Theme |
            Professor | Reader | Senior Lecturer | Lecturer |
            LTS Lecturer | Research Associate | Tutor |
            Demonstrator
    | jobField : Research & Teaching | Tutors & Demonstrators |
            Associate | Professional, Administrative & Support |
            Honorary & Visiting
    | college : College of Social Sciences | College of Arts |
            College of Science & Engineering |
            College of Medical, Veterinary & Life Sciences
    | department : DCS | DC | DE | DGES | DMS | DPA | DP
    | studentLevel : 1 | 2 | 3 | 4 | MSci | Postgraduate
    | accountStatus : Active | Suspended | Inactive
    | enrolledCourses : 1001 | 1016 | 1017 | 1018 | 1019 | ...
                 2003 | 2007 | 2011 | 2024 | 2031 | ...
                 3004 | 3005 |
                 4002 | 4021 | 4022 | 4072 | 4075 | ...
                 5002 | 5004 | 5056 | 5083 | 5088 | ...
    | matriculated : <Date> : 19-09-2015
    | willGraduate : <Date> : 21-06-2019

    | startDate : <Date> : 17-09-2018
    | endDate : <Date> : 31-04-2019
    | demonstratorClass : 1CT | 1P | 1PX | 2JP | 2OOSE
    | coordinatorFor : <courseCode> : 2024 | 3005 | 5083 | ...
    | headLecturerFor : <courseCode> : 1001 | 2007 | 4021 | ...
    | teamOrGroup : Systems | MIG | HUSH | NS | GPG | IDI |
                    CVAS | MOG | IR | ...

U_e = Environment Attributes

Below are the defined attributes for Environment, in the case of the ABE Resource Server:

$\mathbf{U}_e$ ::= network : External | Internal
    | internalNetwork : DCS | Campus | Library | Roaming | NULL
    | connection : IPv4 | IPv6 | HTTP | HTTPS
    | serverEvents : Busy | Error | Normal | Urgent | Unknown |
                 Maintenance | Migration | Upgrade
    | serverTime : <DateTime> : 19-09-2013 03:14:03.000Z
    | deviceTime : <DateTime> : 21-06-2014 14:44:39.000Z
    | requestTime : <DateTime> : 17-09-2011 22:07:41.000Z
    | responseTime : <DateTime> : 04-11-2020 11:58:55.000Z
    | clientLocation : GPS | IP Geolocation
    | serverLocation : GPS | IP Geolocation
    | device : Desktop | Laptop | Portable | Handheld | Mobile |
           Tablet | Unknown
    | deviceOS : Windows | RHEL | Ubuntu | Linux | iOS | Android |
            Other UNIX | Unknown
    | request : srcAddress | srcPort | srcMac | srcClient
    | locale : language | region | timezone | location
    | clientInfo : version | abeVersion | keyValidity
    | serverInfo : version | compatibility | storage
    | abeLifespan : updatedAt | nextUpdate | supportBackDate |
              updatedBy
    | keyCreation : <DateTime> : 04-12-2018 11:58:55.000Z
    | keyExpiry : <DateTime> : 03-12-2019 11:58:55.000Z
    | keyUpdated : <DateTime> : 03-04-2019 11:58:55.000Z
    | keyAuthority : serverId | serverName
    | keyOwner : <Subject> : Owner

U_r = Resource Attributes

Below are the defined attributes for Resources, in the case of the ABE Resource Server:

$\mathbf{U}_r$ ::= mimeType : text/plain | image/png | application/pdf | ...
  | fileCount : 1 | 2 | 3 | 4 | ...
  | authorCount : 1 | 2 | 3 | 4 | ...
  | authors : <Subject> : Author
  | isCollaboration : True | False
  | collaborators : <Subject> : Collaborator
  | dateCreated : <DateTime> : 23-05-2013 07:00:43.000Z
  | dateModified : <DateTime> : 01-09-2018 15:41:29.000Z
  | releaseDate : <DateTime> : 17-10-2018 10:00:00.000Z
  | isDraft : True | False
  | title : "Such a Great Document" | "Important Report | ...
  | fileSize : 143,761 bytes | 14.3MB | 2.1GB | ...
  | fileExtension : jpg | png | docx | txt | pdf | ...
  | associatedResources : <Resource> : ResourceA | ResourceB | ...
  | version : <semVer> : 0.0.3 | 1.0.7 | 3.4.0 | ...
  | modifiedBy : <Subject> : Modifier
  | abeVersion : <semVer> : 0.3.8 | 2.0.17 | 4.14.1 | ...
  | signingAuthority : serverId | serverName