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| CHANGE REQUEST | |
| Meeting ID:\* | SDS #49 |
| Source:\* | Andreas Kraft, DT, [Andreas.Kraft@t-systems.com](mailto:Andreas.Kraft@t-systems.com)  Andreas Neubacher, DT, [Andreas.Neubacher@magenta.at](mailto:Andreas.Neubacher@magenta.at) |
| Date:\* | 2021-01-07 |
| Reason for Change/s:\* | Editorial corrections for TS-0004 |
| CR against: Release\* | Release 4 |
| CR against: WI\* | Active WI-xxxx  MNT maintenance / < Work Item number(optional)>  Is this a mirror CR? Yes  No  mirror CR number: (Note to Rapporteur - use latest agreed revision)  STE Small Technical Enhancements / < Work Item number (optional)>  Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0004, V4.3.0 |
| Clauses \* | 6.3.5.27, 8.2.5 |
| Type of change: \* | Editorial change  Bug Fix or Correction  Change to existing feature or functionality  New feature or functionality  Only ONE of the above shall be ticked |
| Impacted other TS/TR(s) |  |
| Post Freeze checking:\* | This CR contains only essential changes and corrections? YES  NO  This CR may break backwards compatibility with the last approved version of the TS? YES  NO |
| Template Version: January 2017 (Do not modify) | |

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GUIDELINES for Change Requests:

Provide an informative introduction containing the problem(s) being solved, and a summary list of proposals.

Each CR should contain changes related to only one particular issue/problem.

In case of a correction, and the change apply to previous releases, a separate “mirror CR” should be posted at the same time of this CR

Mirror CR: applies only when the text, including clause numbering are exactly the same.

Companion CR: applies when the change means the same but the baselines differ in some way (e.g. clause number).

Follow the principle of completeness, where all changes related to the issue or problem within a deliverable are simultaneously proposed to be made E.g. A change impacting 5 tables should not only include a proposal to change only 3 tables. Includes any changes to references, definitions, and acronyms in the same deliverable.

Follow the drafting rules.

All pictures must be editable.

Check spelling and grammar to the extent practicable.

Use Change bars for modifications.

The change should include the current and surrounding clauses to clearly show where a change is located and to provide technical context of the proposed change. Additions of complete clauses need not show surrounding clauses as long as the proposed clause number clearly shows where the new clause is proposed to be located.

Multiple changes in a single CR shall be clearly separated by horizontal lines with embedded text such as, start of change 1, end of change 1, start of new clause, end of new clause.

When subsequent changes are made to content of a CR, then the accepted version should not show changes over changes. The accepted version of the CR should only show changes relative to the baseline approved text.

Introduction

This CR proposes a couple of editorial corrections for TS-0004.

Change 1: in “Table 6.3.5.27 1: Type Definition of m2m:accessControlRule” the attribute “accessControlTimeWindow” is written as “accessControlWindow” in two cases. This is corrected in change 3. Also the note is changed since it is no longer valid.

Change 2 : in “Table 8.2.5 1: Complex data type member short names” the long name of the attribute “accessControlTimeWindow” is written as “accessControWindow”. This is corrected in change 4.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 6.3.5.27 m2m:accessControlRule

Table 6.3.5.27‑1: Type Definition of m2m:accessControlRule

|  |  |  |  |
| --- | --- | --- | --- |
| **Element Path** | **Element Data Type** | **Multiplicity** | **Note** |
| accessControlOriginators | list of xs:anyURI | 1 | See clause 0 for the detail |
| accessControlOperations | m2m:accessControlOperations | 1 |  |
| accessControlContexts |  | 0..n |  |
| accessControlContexts/accessControlTimeWindow | m2m:scheduleEntry | 0..n |  |
| accessControlContexts/accessControlIpAddresses |  | 0..1 |  |
| accessControlContexts/accessControlIpAddresses/ipv4Addresses | list of m2m:ipv4 | 0..1 | List of IPv4 addresses |
| accessControlContexts/accessControlIpAddresses/ipv6Addresses | list of m2m:ipv6 | 0..1 | List of IPv6 addresses |
| accessControlContexts/accessControlLocationRegions | m2m:locationRegion | 0..1 |  |
| accessControlContexts/accessControlUserIDs | m2m:listOfM2MID | 0..1 |  |
| accessControlAuthenticationFlag | xs:boolean | 0..1 |  |
| accessControlObjectDetails |  | 0..n |  |
| accessControlObjectDetails/resourceType | m2m:resourceType | 0..1 | resourceType identifier of the targeted parent resource |
| accessControlObjectDetails/specializationType | m2m:specializationType | 0..1 | This could be a containerDefinition or mgmtDefinition |
| accessControlObjectDetails/childResourceType | list of m2m:resourceType | 1 |  |
|  | | | |

The accessControlContexts/accessControlIpAddresses element may include either the ipv4Addresses element, ipv6Addresses element, or both elements.

Each individual IPv4 address of data type m2m:ipv4 in the list of IPv4 addresses is represented in dotted-decimal notation with optional Classless Inter-Domain Routing (CIDR) suffix in accordance with IETF RFC 4632 [29]. Each individual IPv6 address of data type m2m:ipv6 in the list of IPv6 addresses is represented in colon separated groups of hexadecimal digits with optional network prefix in accordance with IETF RFC 5952 [30]. Example IPv4 and IPv6 addresses which comply with data types m2m:ipv4 and m2m:ipv6, respectively, are given in Table 6.3.2-1. If the accessControlAuthenticationFlag element is not present, then the value is assumed to be false.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of Change 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 8.2.5 Complex data types members

In protocol bindings complex data types member names shall be translated into short names of Table 8.2.5-1.

Table 8.2.5‑1: Complex data type member short names

| Member Name | Occurs in | Short Name |
| --- | --- | --- |
| createdBefore | filterCriteria, eventNotificationCriteria | ***crb*** |
| createdAfter | filterCriteria, eventNotificationCriteria | ***cra*** |
| modifiedSince | filterCriteria, eventNotificationCriteria | ***ms*** |
| unmodifiedSince | filterCriteria, eventNotificationCriteria | ***us*** |
| stateTagSmaller | filterCriteria, eventNotificationCriteria | ***sts*** |
| stateTagBigger | filterCriteria, eventNotificationCriteria | ***stb*** |
| expireBefore | filterCriteria, eventNotificationCriteria | ***exb*** |
| expireAfter | filterCriteria, eventNotificationCriteria | ***exa*** |
| labels | filterCriteria, eventNotificationCriteria | ***lbl\**** |
| labelsQuery | filterCriteria | ***lbq*** |
| resourceType | filterCriteria, accessControlObjectDetails | ***ty\**** |
| sizeAbove | filterCriteria, eventNotificationCriteria | ***sza*** |
| sizeBelow | filterCriteria, eventNotificationCriteria | ***szb*** |
| contentType | filterCriteria | ***cty*** |
| limit | filterCriteria | ***lim*** |
| attribute | filterCriteria, eventNotificationCriteria | ***atr*** |
| contentFilterSyntax | filterCriteria | ***cfs*** |
| contentFilterQuery | filterCriteria | ***cfq*** |
| level | filterCriteria | ***lvl*** |
| offset | filterCriteria | ***ofst*** |
| geoQuery | filterCriteria | ***gq*** |
| geometryType | geoQuery | ***gmty*** |
| geometry | geoQuery | ***geom*** |
| geoSpatialFunction | geoQuery | ***gsf*** |
| notificationEventType | eventNotificationCriteria, notificationEvent | ***net*** |
| operationMonitor | eventNotificationCriteria, notificationEvent | ***om*** |
| representation | notificationEvent | ***rep*** |
| filterUsage | filterCriteria | ***fu\**** |
| eventCatType | eventCat | ***ect*** |
| eventCatNo | eventCat | ***ecn*** |
| number | batchNotify | ***num*** |
| duration | batchNotify | ***dur*** |
| notification | aggregatedNotification,  Request Primitive Content | ***sgn*** |
| notificationEvent | notification | ***nev*** |
| verificationRequest | notification | ***vrq*** |
| subscriptionDeletion | notification | ***sud*** |
| subscriptionReference | notification | ***sur*** |
| creator | notification | ***cr\**** |
| notificationForwardingURI | notification | ***nfu\**** |
| notificationTarget | notification | ***ntt*** |
| targetRemovalRequest | notification | ***trr*** |
| targetRemovalAllowance | notification | ***tra*** |
| IPEDiscoveryRequest | notification | ***idr*** |
| AERegistrationPointChange | notification | ***aerp*** |
| AEReferenceIDChange | notification | ***aerid*** |
| trackingID1 | notification | ***tid1*** |
| trackingID2 | notification | ***tid2*** |
| filterCriteria | IPEDiscoveryRequest | ***fc\**** |
| operation | operationMonitor, dynAuthDasRequest | ***op\**** |
| operations | operationMonitor, filterCriteria | ***ops*** |
| originator | operationMonitor, IPEDiscoveryRequest, dynAuthDasRequest | ***or\**** |
| action | actionStatus, e2eQosPolicy | ***acn\**** |
| status | actionStatus, e2eQosPolicy | ***sus\**** |
| childResource | All except execInstance, announced resource, management resources from firmware | ***ch*** |
| accessControlRule | privileges, selfPrivileges | ***acr*** |
| accessControlOriginators | accessControlRule | ***acor*** |
| accessControlOperations | accessControlRule | ***acop*** |
| accessControlContexts | accessControlRule | ***acco*** |
| accessControlTimeWindow | accessControlContexts | ***actw*** |
| accessControlIpAddresses | accessControlContexts | ***acip*** |
| ipv4Addresses | accessControlIpAddress | ***ipv4*** |
| ipv6Addresses | accessControlIpAddress | ***ipv6*** |
| accessControlLocationRegion | accessControlContexts | ***aclr*** |
| countryCode | accessControlLocationRegion | ***accc*** |
| circRegion | accessControlLocationRegion | ***accr*** |
| name | attribute, anyArgType, mgmtLinkRef, childResourceRef, contentRef | ***nm\**** |
| specializationType | childResourceRef, accessControlObjectDetails | ***spty\**** |
| containerDefinition | specializationType | ***cnd\**** |
| mgmtDefinition | specializationType | ***mgd\**** |
| value | attribute | ***val*** |
| type | anyArgType, childResourceRef, mgmtLinkRef, location | ***typ*** |
| maxNrOfNotify | rateLimit | ***mnn*** |
| timeWindow | rateLimit | ***tww*** |
| scheduleEntry | scheduleElement | ***sce*** |
| aggregatedNotification | Request Primitive Content | ***agn*** |
| attributeList | Request Primitive Content | ***atrl*** |
| securityInfo | Request Primitive Content, Response Primitive Content | ***seci*** |
| aggregatedResponse | Response Primitive Content | ***agr*** |
| resource | Response Primitive Content | ***rce*** |
| URIList | Response Primitive Content | ***uril*** |
| debugInfo | Response Primitive Content | ***dbg*** |
| queryResult | Response Primitive Content | ***qres*** |
| anyArg | resetArgsType, rebootArgsType, uploadArgsType, downloadArgsType, softwareInstallArgsType softwareUpdateArgsType, softwareUninstallArgsType, execReqArgsListType | ***any*** |
| fileType | downloadArgsType | ***ftyp*** |
| URI | resourceWrapper, dynAuthTokenReqInfo | ***uri*** |
| URL | downloadArgsType | ***url\**** |
| username | uploadArgsType, downloadArgsType, softwareUpdateArgsType, softwareUninstallArgsType | ***unm*** |
| password | uploadArgsType, downloadArgsType, softwareUpdateArgsType, softwareUninstallArgsType | ***pwd*** |
| filesize | downloadArgsType | ***fsi*** |
| targetFile | downloadArgsType | ***tgf*** |
| delaySeconds | downloadArgsType | ***dss*** |
| successURL | downloadArgsType | ***surl*** |
| startTime | downloadArgsType | ***stt*** |
| completeTime | downloadArgsType | ***cpt*** |
| UUID | softwareInstallArgsType softwareUpdateArgsType, softwareUninstallArgsType | ***uuid*** |
| executionEnvRef | softwareInstallArgsType softwareUpdateArgsType, softwareUninstallArgsType | ***eer*** |
| version | softwareUninstallArgsType, tokenClaimSet | ***vr\**** |
| reset | execReqArgsListType | ***rst*** |
| reboot | execReqArgsListType | ***rbo\**** |
| upload | execReqArgsListType | ***uld*** |
| download | execReqArgsListType | ***dld*** |
| softwareInstall | execReqArgsListType | ***swin*** |
| softwareUpdate | execReqArgsListType | ***swup*** |
| softwareUninstall | execReqArgsListType | ***swun*** |
| tracingOption | deliveryMetaData | ***tcop*** |
| tracingInfo | deliveryMetaData | ***tcin*** |
| responseTypeValue | responseTypeInfo | ***rtv*** |
| notificationURI | responseTypeInfo | ***nu*** |
| timeOfDay | deletionContexts | ***tod*** |
| locationRegions | deletionContexts | ***lr*** |
| URIReference | contentRef | ***urir*** |
| semanticsFilter | filterCriteria | ***smf*** |
| missingData | eventNotificationCriteria | ***md*** |
| tokenID | tokenClaimSet, dynAuthLocalTokenIdAssignments | ***tkid*** |
| holder | tokenClaimSet | ***tkhd\**** |
| issuer | tokenClaimSet | ***tkis\**** |
| notBefore | tokenClaimSet | ***tknb\**** |
| notAfter | tokenClaimSet | ***tkna\**** |
| tokenName | tokenClaimSet | ***tknm\**** |
| audience | tokenClaimSet | ***tkau\**** |
| permissions | tokenClaimSet | ***tkps\**** |
| extension | tokenClaimSet | ***tkex\**** |
| permission | tokenPermissions | ***pm*** |
| resourceIDs | tokenPermission | ***ris*** |
| privileges | tokenPermission, setOfPermissions | ***pv\**** |
| roleIDs | tokenPermission | ***rids\**** |
| localTokenIdAssignment | dynAuthLocalTokenIdAssignments | ***ltia*** |
| localTokenID | dynAuthLocalTokenIdAssignment | ***lti*** |
| dasInfo | dynAuthTokenReqInfo | ***dasi*** |
| securedDasRequest | dynAuthTokenReqInfo | ***sdr*** |
| filterOperation | filterCriteria, eventNotificationCriteria | ***fo*** |
| targetedResourceType | dynAuthDasRequest | ***trt*** |
| originatorIP | dynAuthDasRequest | ***oip\**** |
| ipv4Address | dynAuthDasRequest, ipAddress | ***ip4*** |
| ipv6Address | dynAuthDasRequest, ipAddress | ***ip6*** |
| originatorLocation | dynAuthDasRequest | ***olo\**** |
| originatorRoleIDs | dynAuthDasRequest | ***orid*** |
| requestTimestamp | dynAuthDasRequest | ***rts*** |
| targetedResourceID | dynAuthDasRequest | ***trid*** |
| proposedPrivilegesLifetime | dynAuthDasRequest | ***ppl*** |
| roleIDsFromACPs | dynAuthDasRequest | ***rfa*** |
| tokenIDs | dynAuthDasRequest | ***tids*** |
| dynamicACPInfo | dynAuthDasResponse | ***dai*** |
| grantedPrivileges | dynAuthDasResponse | ***gp*** |
| privilegesLifetime | dynAuthDasResponse | ***pl*** |
| tokens | dynAuthDasResponse | ***tkns*** |
| securityInfoType | securityInfo | ***sit*** |
| dasRequest | securityInfo, dynAuthTokenReqInfo | ***dreq*** |
| dasResponse | securityInfo | ***dres*** |
| dynAuthRelMapRequest | securityInfo | ***darq*** |
| dynAuthRelMapResponse | securityInfo | ***dars*** |
| esprimRandObject | securityInfo | ***ero*** |
| esprimObject | securityInfo | ***epo*** |
| escertkeMessage | securityInfo | ***eckm*** |
| resourceRef | listOfChildResourceRef | ***rrf*** |
| resourceRefList | Response Primitive Content | ***rrl*** |
| esprimRandID | originatorESPrimRandObject, receiverESPrimRandObject | ***esri*** |
| esprimRandValue | originatorESPrimRandObject, receiverESPrimRandObject | ***esrv*** |
| esprimRandExpiry | originatorESPrimRandObject, receiverESPrimRandObject | ***esrx*** |
| esprimKeyGenAlgID | originatorESPrimRandObject | ***esk*** |
| esprimKeyGenAlgIDs | receiverESPrimRandObject | ***esks*** |
| esprimProtocolAndAlgIDs | originatorESPrimRandObject, receiverESPrimRandObject | ***espa*** |
| supportede2ESecFeatures | e2eSecInfo | ***esf*** |
| certificates | e2eSecInfo | ***escert*** |
| sharedReceiverESPrimRandObject | e2eSecInfo | ***esro*** |
| networkAction | backOffParameters | ***nwa*** |
| initialBackoffTime | backOffParameters | ***ibt*** |
| additionalBackoffTime | backOffParameters | ***abt*** |
| maximumBackoffTime | backOffParameters | ***mbt*** |
| optionalRandomBackoffTime | backOffParameters | ***rbt*** |
| backOffParametersSet | backOffParameters | ***bops*** |
| dataLink | listOfDataLinks | ***dali*** |
| attributeName | dataLink | ***atn*** |
| dataContainerID | dataLink | ***dcid*** |
| accessControlAuthenticationFlag | accessControlRule | ***acaf*** |
| accessControlObjectDetails | accessControlRule | ***acod*** |
| dataLinkEntry | listOfDataLinks | ***dle*** |
| childResourceType | accessControlObjectDetails, eventNotificationCriteria, filterCriteria | ***chty*** |
| parentResourceType | filterCriteria | ***pty*** |
| childLabels | filterCriteria | ***clbl*** |
| parentLabels | filterCriteria | ***palb*** |
| childAttribute | filterCriteria | ***catr*** |
| parentAttribute | filterCriteria | ***patr*** |
| applyRelativePath | filterCriteria | ***arp*** |
| sessionDescription | sessionDescriptions | ***sdc*** |
| activityPattern | activityPatternElements | ***apt*** |
| stationaryIndication | activityPattern | ***sti*** |
| dataSizeIndicator | activityPattern | ***dsi*** |
| eventNotificationCriteriaEntry | eventNotificationCriteriaSet | ***encn*** |
| memberURI | mashupMembers | ***muri*** |
| memberValue | mashupMembers | ***mvl*** |
| coordinates | location | ***crd*** |
| qosLevel | e2eQosRequirements | ***qosl*** |
| resourceIDList | e2eQosRequirements | ***ril*** |
| sessionSchedule | e2eQosRequirements | ***ssch*** |
| numOfRequests | e2eQosRequirements | ***nor*** |
| numOfBytes | e2eQosRequirements | ***nob*** |
| accessControlUserIDs | accessControlContexts | ***acui*** |
| timeSyncBeaconReference | timeSyncBeaconNotification | ***tbr*** |
| currentTime | timeSyncBeaconNotification | ***ctm\**** |
| timeOffset | timeSyncBeaconNotification | ***tost*** |
| NOTE: \* marked short names have been already assigned in attribute Table 8.2.3-1 to Table 8.2.3-6. | | |

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*