



Cisco Access Registrar Scripts

This chapter describes the scripts provided with Cisco Access Registrar.

Using Cisco AR Scripts

The scripts are stored in `/localhost/Radius/Scripts`.

UseCLIDAsSessionKey

UseCLIDAsSessionKey is used to specify that the Calling-Station-Id attribute should be used as the session key to correlate requests for the same session. This is a typical case for 3G mobile user session correlation.

ParseTranslationGroupsByRealm

ParseTranslationGroupsByRealm is referenced from the rule engine to determine the incoming and outgoing translation groups based on realm set in the rule engine so that the attributes can be added/filtered out by the configuration data set in MCD.

ParseTranslationGroupsByCLID

ParseTranslationGroupsByCLID is referenced from the rule engine to determine the incoming and outgoing translation groups based on CLID set in the rule engine so that the attributes can be added/filtered out by the configuration data set in MCD.

ExecRealmRule

ExecRealmRule is referenced from the rule engine to determine the authentication and authorization service and policy based on the realm set in the rule engine.

ExecDNISRule

ExecDNISRule is referenced from the rule engine to determine the authentication and authorization service and policy based on the DNIS set in the rule engine.

ParseProxyHints

ParseProxyHints is referenced from the NAS IncomingScript scripting point. It looks for a realm name on the user name attribute as a hint of which AAA services should be used for this request. If @radius is found, a set of AAA services is selected which will proxy the request to a remote radius server. If @tacacs is found, the AuthenticationService is selected that will proxy the request to a tacacs server for authentication. For any services not selected, the default service (as specified in the configuration by the administrator) will be used.

ParseServiceAndProxyHints

ParseServiceAndProxyHints is referenced from the NAS IncomingScript scripting point. It calls both ParseServiceHints and ParseProxyHints.

ParseAARealm

ParseAARealm is referenced from the NAS IncomingScript scripting point. It looks for a realm name on the user name attribute as a hint of which AAA service should be used for this request. If @<realm> is found, the AAA service is selected which has the same name as the realm.

ParseAASRealm

ParseAASRealm is referenced from the NAS IncomingScript scripting point. It looks for a realm name on the user name attribute as a hint of which Authentication+Authorization service and of which SessionManager should be used for this request. If @<realm> is found, the AA service and the SessionManager which have the same name as the realm are selected. The Accounting service will be the DefaultAccountingService (as specified in the configuration by the administrator)

ParseServiceAndAARealmHints

ParseServiceAndAARealmHints is referenced from the NAS IncomingScript scripting point. It calls both ParseServiceHints and ParseAARealm.

ParseServiceAndAASRealmHints

ParseServiceAndAASRealmHints is referenced from the NAS IncomingScript scripting point. It calls both ParseServiceHints and ParseAASRealm.

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ParseServiceAndAASRealmHints

ParseServiceAndAASRealmHints is referenced from the NAS IncomingScript scripting point. It calls both ParseServiceHints and ParseAASRealm.

AuthorizePPP

AuthorizePPP is referenced from either the user record for users who's sessions are always PPP or from the script AuthorizeService, which checks the request to determine which service is desired. This script merges in the Profile named "default-PPP-users" into the response dictionary.

AuthorizeSLIP

AuthorizeSLIP is referenced from either the user record for users who's sessions are always SLIP or from the script AuthorizeService, which checks the request to determine which service is desired. This script merges in the Profile named "default-SLIP-users" into the response dictionary.

AuthorizeTelnet

AuthorizeTelnet is referenced from either the user record for users who's sessions are always telnet or from the script AuthorizeService, which checks the request to determine which service is desired. This script merges in the Profile named "default-Telnet-users" into the response dictionary.

AuthorizeService

AuthorizeService is referenced from user record for users who's sessions might be PPP, SLIP or Telnet depending on how they are connecting to the NAS. This script checks the request to determine which service is desired. If it is telnet, it calls the script AuthorizeTelnet. If it is PPP, it calls the script AuthorizePPP. If it is SLIP, it calls the script AuthorizeSLIP. If it is none of these, it rejects the request.

ACMEOutgoingScript

ACMEOutgoingScript is referenced from Vendor ACME for the outgoing script. If we are accepting this Access-Request and the response does not yet contain a Session-Timeout, set it to 3600 seconds.

DynamicLDAPSearchBase

DynamicLDAPSearchBase is referenced from the LDAP service incoming script. Based on the domain information in the user-name, LDAP DN based search will be performed. This allows the same user-name to exist under the same tree but of different path, such as in the case of directory tree merge.

This requires

1. the filter attribute in the LDAP remote server configuration to be "%s" only
2. The search base to be highest common root. For case below, the search base should be "o=company"
3. Assume to use uid for user record or change code here, see UID_NOTE.

InitEntryPoint

InitEntryPoint initializes the global variables that hold the byte codes for the attributes we are interested in. Doing it this way saves us the lookup time for each request. Note that this is not thread-safe.

ParseServiceHints

ParseServiceHints is referenced from the NAS IncomingScript scripting point. Check to see if we are given a hint of the service type or the realm. If so, set the appropriate attributes in the request or radius dictionary to record the hint and rewrite the user name to remove the hint.

ParseTranslationGroupsByRealm

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ParseTranslationGroupsByDNIS

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ParseARealm is referenced from the NAS IncomingScript scripting point. It looks for a realm name on the user name attribute as a hint of which Authentication+Authorization service should be used for this request. If @<realm> is found, the AA service is selected which has the same name as the realm. The Accounting service will be the DefaultAccountingService (as specified in the configuration by the administrator).

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ACMEOutgoingScript

ACMEOutgoingScript is referenced from Vendor ACME for the outgoing script. If we are accepting this Access-Request and the response does not yet contain a Session-Timeout, set it to 3600 seconds.

ExecFilterRule

ExecFilterRule is referenced from the rule engine to determine whether a user packet should be rejected or not based on whether a special character like "*", "/", "\" or "?" shows up in the packet.

ExecDNISRule

ExecDNISRule is referenced from the rule engine to determine the authentication and authorization service and policy based on the DNIS set in the rule engine.

ExecCLIDRule

ExecCLIDRule is referenced from the rule engine to determine the authentication and authorization service and policy based on the CLID set in the rule engine.

ParseTranslationGroupsByCLID

ParseTranslationGroupsByCLID is referenced from the rule engine to determine the incoming and outgoing translationgroups based on CLID set in the rule engine so that the attributes can be added/filtered out by the configuration data set in MCD.

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