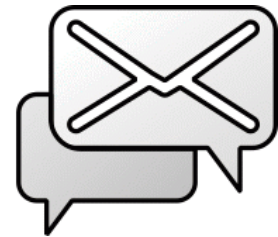

IceWarp Unified Communications

IceWarp Server API Reference

Version 11.4

IceWarp[®]



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IceWarp Server API

Introduction

The IceWarp Server API is an application programming interface for developers who wish to maintain basic tasks with the IceWarp Email Server objects. These tasks can maintain domains, accounts and other global server settings.

The API can be used in several different ways, including the COM object, RPC or the direct API library linking.

Once installed the IceWarp Email Server the API COM object gets registered automatically and can be used immediately.

It is recommended for developers to use the COM object which is the easiest way to get started.

Use the RPC for platform independent usage and remote calls. See more information in the *IceWarp\api\readme.txt* file.

You might also want to take a look at sources and examples in the API folders.

\delphi – Delphi sources, Users and Domains command line tools

\vc – Visual C++

\vb – Visual Basic

\php – examples for using IceWarp COM API with IceWarp webserver PHP engine

\calendar\doc – more info for working with GroupWare API

For the complete list of properties/constants see the **\delphi\apiconst.pas** file.

Some of the other programming language directories might be obsolete and contain old information.

If you are looking for something specific always see the **\delphi** directory and update your files accordingly.

apiconst.pas:

Contains all constants required to use the API functions.

Function results

OK: >=0

ERROR: < 0

Study the constant names carefully. They also contain comments that might be useful for you.

NOTE FOR USERS OF IIS AND EXTERNAL DB SYSTEMS

If you use API through IIS or similar, and an external Database Storage system, strongly consider adding <InstallDirectory> to your PATH variable as it contains some libraries that will be required.

API COM Object

Introduction

Maintaining the IceWarp Email Server has never been easier. The API brings you the best way to maintain your IceWarp Server from any programming language such as Visual C++, Visual Studio, Delphi, FreePascal, PHP, ASP, Visual Basic, Microsoft .NET or any other.

You can use the RPC (Remote Procedure Call) to access the server remotely or COM object. Both RPC and COM can be used right after the IceWarp Server installation has been finished

There are multiple objects you can use to maintain the server. The class names are:

IceWarpServer.APIObject

IceWarpServer.DomainObject

IceWarpServer.AccountObject

IceWarpServer.RemoteAccountObject

IceWarpServer.ScheduleObject

IceWarpServer.StatisticsObject

IceWarpServer.TokenObject

All of them interact with each other and make the hardest work for you.

The APIObject is the root of the whole API. It offers the basic functions like Backup, Restore, Global settings maintenance and Domain access.

When accessed a domain the DomainObject is returned. This object lets you maintain your domains, edit, delete, settings, and account access. The object can be created without even creating the APIObject.

When accessing an account the AccountObject is returned which offers you complete account management features, edit, delete, settings, browse all users and much more.

You can also create this object without any prior object creation.

Every object has the LastErr property which contains the last error. Error is any negative number a function or property returned. Any positive or zero number is considered as a success.

Any properties set or retrieved are automatically converted to the right variable type no matter if it is a number, string or date. See the complete list of all constant names in the **api\delphi\apiconst.pas** file.

IceWarpServer.APIObject

```
IAPIDObjectDisp = dispinterface
  ['{BFD83E1B-6F4A-4E06-B0DE-0427C73753C0}']
  procedure Done; dispid 201;
  function Init(const Path: WideString): WordBool; dispid 202;
  procedure UpdateConfiguration; dispid 203;
  procedure ReloadServices; dispid 204;
  function BackupConfig(const Path: WideString): WordBool; dispid 205;
  function RestoreConfig(const Path: WideString; const Password: WideString): WordBool; dispid 206;
  function SpamIndexNow(const Email: WideString): WordBool; dispid 207;
  function GetDomainCount: Integer; dispid 208;
```

function Save: WordBool; dispid 209;

function DeleteDomain(const Domain: WideString): WordBool; dispid 210;

function RenameDomain(const OldDomain: WideString; const NewDomain: WideString): WordBool; dispid 211;

function SetProperty(Command: OleVariant; Value: OleVariant): WordBool; dispid 212;

property LastErr: Integer readonly dispid 217;

function GetDomainList: WideString; dispid 213;

function GetDomain(Index: Integer): WideString; dispid 214;

function OpenDomain(const Domain: WideString): OleVariant; dispid 215;

function NewDomain(const Domain: WideString): OleVariant; dispid 216;

function GetProperty(Command: OleVariant): OleVariant; dispid 218;

function GetDomainIndex(const Domain: WideString): Integer; dispid 219;

function GetSchedule(Command: OleVariant): OleVariant; dispid 220;

function SetSchedule(Command: OleVariant; Schedule: OleVariant): WordBool; dispid 221;

function GetUserStatistics(const From: WideString; const To_: WideString; const Filter: WideString): WideString; dispid 222;

function GetUserStatisticsDays(const From: WideString; const To_: WideString; const Filter: WideString): WideString; dispid 223;

function CreateTable(Service: Integer; const Connection: WideString): WordBool; dispid 224;

function DropTables(Service: Integer): WordBool; dispid 225;

function ChallengeResponseList(const Recipient: WideString; const Flags: WideString): WideString; dispid 226;

function ChallengeResponseAdd(const Recipient: WideString; const Email: WideString; const State: WideString): WordBool; dispid 227;

function ChallengeResponseDelete(const Recipient: WideString; const Email: WideString; const Folder: WideString): WordBool; dispid 228;

function ChallengeResponseAuthorize(const Folder: WideString): WordBool; dispid 229;

function ChallengeResponsePath(const Folder: WideString): WideString; dispid 230;

procedure AntiVirusUpdate; dispid 231;

procedure AntiSpamUpdate; dispid 232;

procedure SpamCompactDB; dispid 233;

procedure ConnectNow; dispid 234;

procedure RemoteServerWatchdogNow; dispid 235;

procedure TaskEventNow(Index: Integer); dispid 236;

procedure RemoteAccountNow(Index: Integer); dispid 237;

procedure FTPSyncNow(Item: Integer); dispid 238;

procedure ETRNNow(Index: Integer); dispid 239;

function CheckDBConnection(const Connection: WideString): WordBool; dispid 240;

function CheckDNSServer(const DNS: WideString): WordBool; dispid 241;

function Migration_MigrateMessages(Single: WordBool; const User: WideString; const Pass: WideString; const Domain: WideString; const BulkBuffer: WideString): WordBool; dispid 242;

function Migration_MigrateMessagesAccounts(Single: WordBool; const User: WideString; const Pass: WideString; const BulkBuffer: WideString): WordBool; dispid 243;

function Migration_Finish: Integer; dispid 244;

function ProcessUpgradeTasks(const PreviousVersion: WideString): WordBool; dispid 245;

function IDNToUTF8(const IDN: WideString): WideString; dispid 246;

function UTF8ToIDN(const UTF8: WideString): WideString; dispid 247;

```
function GetLocalIPs: WideString; dispid 248;
property TokenHandle: Integer dispid 249;
function LocateString(const String_: WideString): WideString; dispid 250;
function QuarantineAuthorize(const Folder: WideString): WordBool; dispid 251;
function QuarantineDelete(const Owner: WideString; const Sender: WideString; const Folder: WideString): WordBool; dispid 252;
function QuarantineList(const Owner: WideString; const Flags: WideString; Count: Integer; Offset: Integer): WideString; dispid 253;
function SIPReferCall(const Owner: WideString; const Number: WideString): WordBool; dispid 226;
function GLList(const Email: WideString; const Flags: WideString; Count: Integer; Offset: Integer): WideString; dispid 227;
function QuarantineAdd(const Recipient: WideString; const Email: WideString; const State: WideString): WordBool; dispid 228;
function QuarantineSet(const Recipient: WideString; const Email: WideString; const State: WideString): WordBool; dispid 229;
function GLSet(const Value: WideString; const Email: WideString; const Status: WideString): WordBool; dispid 230;
function GLAdd(const Value: WideString; const Email: WideString; const Status: WideString): WordBool; dispid 254;
function GLDelete(const Value: WideString; const Email: WideString; const Status: WideString): WordBool; dispid 255;
function GetFolderList(const Folder: WideString; Rec: WordBool): WideString; dispid 256;
function DeleteFiles(const Folder: WideString; const Files: WideString; Rec: WordBool; Older: Integer): WordBool; dispid 257;
procedure PostServiceMessage(Service: Integer; Msg: Integer; WParam: Integer; LParam: Integer); dispid 258;
function MakePrimaryDomain(const Domain: WideString): WordBool; dispid 259;
function MigrateDatabase(const SourceDSN: WideString; const DestDSN: WideString; const LogFile: WideString; DBIndex: Integer): WordBool; safecall; dispid 260;
function ConvertStorage(ToDB: WordBool): WordBool; dispid 261;
function GetFileList(const Folder: WideString; Rec: WordBool): WideString; dispid 262;
function GetMessageContent(const FileName: WideString; const Type_: WideString; MaxSize: Integer; MaxLines: Integer): WideString; dispid 263;
function Base64FileEncode(const Source: WideString; const Dest: WideString): WordBool; dispid 264;
function SMSHTTP(const HTTP: WideString; BypassAuth: WordBool): WordBool; dispid 265;
function SyncMLPush(const Param1: WideString; const Param2: WideString; const Param3: WideString; const Param4: WideString): WideString; dispid 266;
function CryptData(const Alg: WideString; const Key: WideString; const Data: WideString; Encode: WordBool): WideString; dispid 267;
end;
```

Init

function Init(const Path: WideString): WordBool

The Init function is automatically called by any object created. You should not call the function.

The path can be empty and in such case the COM object locates the IceWarp Email Server configuration files automatically or it can be the full path to the IceWarp Email Server directory. It loads all the settings and information the COM object might need.

Done

procedure Done

The Done function closes the COM object and frees the allocated data. It also saves the changed settings if any.

The function is called automatically when the COM object is freed.

UpdateConfiguration

procedure UpdateConfiguration

Notifies all of the running services of any new changes to the settings. This is required for global settings changed.

In such case the services need to be notified to reload their configuration files.

ReloadServices

procedure ReloadServices

The ReloadServices restarts SMTP and POP3 service. To restart all services use function Start(stAll) from the *IceWarpServer.StatisticsObject* object .

BackupConfig and RestoreConfig

function BackupConfig(const Path: WideString): WordBool

function RestoreConfig(const Path: WideString; const Password: WideString): WordBool

The Backup and Restore functions are identical to the IceWarp Email Server administration interface backup and restore features.

They let you backup and restore the IceWarp Email Server settings. The Path parameter specifies the complete file name of the destination backup file.

SpamIndexNow

function SpamIndexNow(const Email: WideString): WordBool

This function takes care of indexing the spam and genuine messages. The Email is the account email address to be indexed.

If empty the global spam and genuine messages will be indexed.

Save

function Save: WordBool

function SetProperty(Command: OleVariant; Value: OleVariant): WordBool

function GetProperty(Command: OleVariant): OleVariant

These three functions make it all easy. You can set or read any global setting value. The command specifies the variable ID and the value the variable content. When set all properties you should call the Save function.

Example

```
$com->GetProperty("c_name");  
$com->SetProperty("c_name", "mail.domain.com");
```

```
$com->Save();
```

GetDomainCount

function GetDomainCount: LongWord

Returns the number of all domains on the IceWarp Server.

GetDomainList

function GetDomainList: WideString

Returns the whole list of domains separated with semicolon.

DeleteDomain

function DeleteDomain(const Domain: WideString): WordBool

Deletes an existing domain with all its accounts.

RenameDomain

function RenameDomain(const OldDomain: WideString; const NewDomain: WideString): WordBool

Renames an old domain to the new domain name.

GetDomain

function GetDomain(Index: LongWord): WideString

Returns the name of the domain specified by the Index position from the domain list.

OpenDomain, NewDomain

function OpenDomain(const Domain: WideString): OleVariant

function NewDomain(const Domain: WideString): OleVariant

Both of these functions return an instance to the IceWarpAPI.DomainObject.

The Domain parameter specifies the name of the domain to be opened or created.

Once the instance returned use the DomainObject functions and properties.

Use the OpenDomain function to edit an existing domain.

You can change the properties or accounts of the domain.

The NewDomain lets you add a new domain.

Example

```
$domain = $com->NewDomain("test.com");
```

GetDomainIndex

function GetDomainIndex(const Domain: WideString): Integer

Returns the position of the domain in the list. If not found a negative number will be returned.

LastErr

property LastErr: Integer

The LastErr property specifies the numeric value of the last function result. See the result description in the Introduction.

GetSchedule

function GetSchedule(Command: OleVariant): OleVariant;

Returns the schedule object for the specified variable.

SetSchedule

function SetSchedule(Command: OleVariant; Schedule: OleVariant): WordBool;

Sets the schedule data from the schedule object for the given variable.

GetUserStatistics, GetUserStatisticsDays

function GetUserStatistics(const From: WideString; const To_: WideString; const Filter: WideString): WideString;

function GetUserStatisticsDays(const From: WideString; const To_: WideString; const Filter: WideString): WideString;

Retrieves the user statistics. From and To are date indicators, filter can contain email patterns.

CreateTables, DropTables, CheckDBConnection

function CreateTables(Service: Integer; const Connection: WideString): WordBool;

function DropTables(Service: Integer): WordBool;

function CheckDBConnection(const Connection: WideString): WordBool;

Creates and destroys tables of specific services. Connection is the new connecting string.

Service values:

0 – Storage

1 – Logs

2 – GroupWare

3 – Challenge Response

Challenge Response functions

function ChallengeResponseList(const Recipient: WideString; const Flags: WideString): WideString;

function ChallengeResponseAdd(const Recipient: WideString; const Email: WideString; const State: WideString): WordBool;

function ChallengeResponseDelete(const Recipient: WideString; const Email: WideString; const Folder: WideString): WordBool;

function ChallengeResponseAuthorize(const Folder: WideString): WordBool;

function ChallengeResponsePath(const Folder: WideString): WideString;

Challenge response management functions.

IceWarpServer.DomainObject

IDomainObjectDisp = dispinterface

['{92E93C97-041B-47CB-A565-387C44BCB9A7}']

property LastErr: Integer readonly dispid 201;

property Name: WideString dispid 202;

property IPAddress: WideString dispid 203;

function Open(const Domain: WideString): WordBool; dispid 204;

function Save: WordBool; dispid 205;

function New(const Domain: WideString): WordBool; dispid 206;

function GetAccountCount: Integer; dispid 207;

function GetAccountList: WideString; dispid 208;

function GetAccount(Index: Integer): WideString; dispid 209;

function DeleteAccount(const Email: WideString): WordBool; dispid 210;

function DeleteAccountID(ID: Integer): WordBool; dispid 219;

function Delete: WordBool; dispid 211;

function GetProperty(Command: OleVariant): OleVariant; dispid 212;

function SetProperty(Command: OleVariant; Value: OleVariant): WordBool; dispid 213;

function OpenAccount(const Email: WideString): OleVariant; dispid 214;

function NewAccount(const Email: WideString): OleVariant; dispid 215;

function GetAccountIndexByAlias(const Email: WideString): Integer; dispid 216;

property TokenHandle: Integer dispid 218;

function ApplyTemplate(const Name: WideString): WordBool; dispid 217;

end;

Name

property Name: WideString

The Name property lets you read or set the Name of the domain you want to create or save. Usually you do not need to set this at all. Use the Open and New functions instead.

Open, New

function Open(const Domain: WideString): WordBool

function New(const Domain: WideString): WordBool

The Open new functions let you open an existing domain or create a new domain. It loads the settings and initializes the variables. When accessed the domain from APIObject you do not need to use these functions. Use them only if creating a new object.

Delete

function Delete: WordBool

When editing an existing domain you can delete it by calling this function. The domain must be properly loaded.

GetProperty, SetProperty, IPAddress, Save

function GetProperty(Command: OleVariant): OleVariant

function SetProperty(Command: OleVariant; Value: OleVariant): WordBool

property IPAddress: WideString

function Save: WordBool

You can edit or read the properties of the domain using these functions. The IPAddress property lets you specify all virtual IP addresses of the domain. The Save function is required to be called when finished editing.

When creating a new domain you also need to call the Save function once finished setting the properties.

You can then call the Save function again and the domain will be only updated and not added again.

Example

```
$domain->SetProperty("d_postmaster", "postmaster;webmaster;admin");  
$domain->SetProperty("d_description", "Demo Domain");  
$domain->IPAddress = "192.168.0.1;192.168.0.2";  
$domain->Save();
```

GetAccountCount

function GetAccountCount: LongWord

Returns the number of all accounts in the domain.

GetAccountList

function GetAccountList: WideString

Returns the whole domain list of all account aliases separated with semicolon.

DeleteAccount, DeleteAccountID

function DeleteAccount(const Email: WideString): WordBool

function DeleteAccountID(ID: Integer): WordBool

Deletes an existing account. The Email parameter can be either a complete email address or just an alias.

GetAccount

function GetAccount(Index: LongWord): WideString

Return the account's alias specified by the Index in the account list.

OpenAccount, NewAccount

function OpenAccount(const Email: WideString): OleVariant

function NewAccount(const Email: WideString): OleVariant

Both of these functions return an instance to the IceWarpAPI.AccountObject. The Email parameter can be either an alias or a complete domain name. Once the instance returned use the AccountObject functions and properties.

Use the OpenAccount function to edit an existing account. The NewAccount lets you add a new account.

Example

```
$account = $domain->NewAccount("test");
```

GetAccountIndexByAlias

function GetAccountIndexByAlias(const Email: WideString): Integer

Tries to find the alias in the domain. If found the index will be returned. If not a negative number will be returned.

The Email parameter can contain only the alias and in that case the domain name of the object will be used or it can contain the full email address.

LastErr

property LastErr: Integer

The LastErr property specifies the numeric value of the last function result. See the result description in the Introduction.

IceWarpServer.AccountObject

```
IAccountObjectDisp = dispinterface
    ['{F0816647-788E-4520-8685-BCDDAEBECCEF}']
    property LastErr: Integer readonly dispid 201;
    property Domain: WideString readonly dispid 202;
    function New(const Email: WideString): WordBool; dispid 203;
    function Open(const Email: WideString): WordBool; dispid 204;
    function Save: WordBool; dispid 205;
    function Delete: WordBool; dispid 206;
    function SetProperty(Command: OleVariant; Value: OleVariant): WordBool; dispid 207;
    function GetProperty(Command: OleVariant): OleVariant; dispid 208;
    function AuthenticateUser(const Username: WideString; const Password: WideString;
    const IP: WideString): WordBool; dispid 211;
    function FindInit(const Domain: WideString): WordBool; dispid 212;
    function FindNext: WordBool; dispid 213;
    procedure FindDone; dispid 214;
    function CanCreateMailbox(const Alias: WideString; const Mailbox: WideString;
    const Password: WideString; const Domain: WideString): WordBool; dispid 209;
    function FindInitQuery(const Domain: WideString; const Query: WideString): WordBool; dispid 216;
    property EmailAddress: WideString readonly dispid 217;
    function AuthenticateUserHash(const Username: WideString; const Hash: WideString;
    const IP: WideString; const Method: WideString;
    Flags: Unsigned Integer): WordBool; safecall; dispid 218;
    function ValidateUser(Account: Integer): WordBool; dispid 219;
    function GetUserGroups(const User: WideString): WideString; dispid 215;
    property TokenHandle: Integer dispid 220;
    function ApplyTemplate(const Name: WideString): WordBool; dispid 210;
    function ValidateData(const Type_: WideString): WordBool; dispid 221;
end;
```

Domain

property Domain: WideString readonly

The Domain property returns the name of the domain the account resides in.

EmailAddress

property EmailAddress: WideString readonly

The email address of the current user.

New, Open

function New(const Email: WideString): WordBool

function Open(const Email: WideString): WordBool

The Open new New functions let you open an existing account or create a new one. It loads the settings and initializes the variables. When accessed the account from APIDomain you do not need to use these functions. Use them only if creating a new object.

Delete

function Delete: WordBool

You can delete an existing account you are editing by calling the Delete function.

SetProperty, GetProperty, Save

function SetProperty(Command: OleVariant; Value: OleVariant): WordBool

function GetProperty(Command: OleVariant): OleVariant

function Save: WordBool

The same logic is applied as to other Property functions. When finished editing call the Save function. When adding a new user you are required to call the Save function which will add and save the user. You can then call the Save function again and the user will be only updated and not added again.

Example

```
$account->SetProperty("u_name", "My Name");
$account->SetProperty("u_password", "pass01");
$account->Save();
```

AuthenticateUser, AuthenticateUserHash, ValidateUser

function AuthenticateUser(const Username: WideString; const Password: WideString; const IP: WideString): WordBool

function AuthenticateUserHash(const Username: WideString; const Hash: WideString; const IP: WideString; const Method: WideString; Flags: Unsigned Integer): WordBool; safecall;

function ValidateUser(Account: Integer): WordBool;

The AuthenticateUser function lets you check and load the user specified by the Username, Password and IP address.

If successful the user is loaded and you can edit it. The IP address is not required. Methods supported can be:

CRAM-MD5

DIGEST-MD5

SHA256

MD5

The flags parameter is interpreted as a bit mask. Bit 0: EmailLogin, Bit 1: Support migration (if login is not successful and migration is running, migration session is initiated).

The ValidateUser function checks whether the successfully authenticated user can access his mailbox. Basically the validation function makes sure the user is not expired, has the right to login and other user restrictions.

FindInit, FindNext, FindDone, FindInitQuery

function FindInit(const Domain: WideString): WordBool

function FindNext: WordBool

procedure FindDone

function FindInitQuery(const Domain: WideString; const Query: WideString): WordBool;

These functions let you loop through all accounts in the domain. It is not recommended to use the GetDomainCount and loop thru each account based on the Index. That would be too slow. Use these functions instead.

The FindInit function initializes the buffer and opens the database. If returned False there are no accounts and you must not call the other functions. If returned True call then the FindNext function in a loop until False returned. For each successful call you can use the object properties to query and update the account. Call the FindDone when finished to free the resources.

Example 1:

```
if ($account->FindInit("test.com"))
{
    While ($account->FindNext()) {
        echo $account->GetProperty("u_alias");
    }
    $account->FindDone();
}
```

FindInitQuery function does the same job as the FindInit function except it accepts a Query parameter which lets you to loop thru accounts meeting the criteria. The query uses SQL syntax and is supported for file system accounts too. Numeric parameters should be treated like strings. Always use grouping brackets. The LIKE operator is also supported in the file system accounts mode.

Example 2:

```
$account->FindInitQuery("test.com", "(u_alias like '%john%') or (u_admin = '1')");
```

function CanCreateMailbox(const Alias: WideString; const Mailbox: WideString; const Password: WideString; const Domain: WideString): WordBool

Returns an integer number (which means "true") if an account with the given details can be created. You can call Save() instead to see if a false result will be returned but this function makes sure you know the state before.

MailboxConvertMessages

function MailboxConvertMessages(const MailboxPath: WideString; FromIMAP: WordBool): WordBool;

Converts all messages in the mailbox path of the account IMAP to POP3 and POP3 to IMAP.

LastErr

property LastErr: Integer

The LastErr property specifies the numeric value of the last function result. See the result description in the Introduction.

IceWarpServer.RemoteAccountObject

```
IRemoteAccountObjectDisp = dispinterface
    ['{7C845AFF-8FB4-4C67-AC29-7B47D11B6001}']
    property LastErr: Integer readonly dispid 201;
    function New: WordBool; dispid 203;
    function Open(Index: Integer): WordBool; dispid 204;
    function Save: WordBool; dispid 205;
    function Delete: WordBool; dispid 206;
    function SetProperty(Command: OleVariant; Value: OleVariant): WordBool; dispid 207;
    function GetProperty(Command: OleVariant): OleVariant; dispid 208;
    function DeleteIndex(Index: Integer): WordBool; dispid 209;
    function Count: Integer; dispid 210;
    function GetSchedule(Command: OleVariant): OleVariant; dispid 211;
    function SetSchedule(Command: OleVariant; Schedule: OleVariant): WordBool; dispid 212;
    property TokenHandle: Integer dispid 213;
    function ApplyTemplate(const Name: WideString): WordBool; dispid 202;
end;
```

LastErr

property LastErr: Integer

The LastErr property specifies the numeric value of the last function result. See the result description in the Introduction.

Count

function Count: Integer;

Returns the total number of all system remote accounts on the server.

New

function New: WordBool;

Resets all settings and inner variables to create a new remote account.

Open

function Open(Index: Integer): WordBool;

Lets you load an existing remote account. You can then perform any actions on the loaded remote account.

SetProperty, GetProperty, Save

function SetProperty(Command: OleVariant; Value: OleVariant): WordBool;

function GetProperty(Command: OleVariant): OleVariant;

function Save: WordBool;

When finished editing call the Save function. When adding a new remmote account you are required to call the Save function which will add and save the account. You can then call the Save function again and the account will be only updated and not added again.

Delete, DeleteIndex

function Delete: WordBool;

function DeleteIndex(Index: Integer): WordBool;

The Delete function lets you delete the currently open remote account. The DeleteIndex lets you delete an account without even opening it knowing the Index of the account.

GetSchedule

function GetSchedule(Command: OleVariant): OleVariant;

Returns the schedule object for the specified variable.

SetSchedule

function SetSchedule(Command: OleVariant; Schedule: OleVariant): WordBool;

Sets the schedule data from the schedule object for the given variable.

Example

```
$ra->SetProperty("ra_name", "Remote Name");  
$ra->SetProperty("ra_domainstring", "domain.com");  
$ra->SetProperty("ra_pop3server", "server.isphost.com");  
$ra->SetProperty("ra_username", "userlogin");  
$ra->SetProperty("ra_password", "password");  
$ra->SetProperty("ra_forwardto", "john@domain.com");  
$ra->Save();
```


IceWarpServer.ScheduleObject

```
IScheduleObjectDisp = dispinterface
  ['{3411CE71-91A5-42D1-93F3-A0A38EF541D0}']
  property LastErr: Integer readonly dispid 201;
  function Add: WordBool; dispid 203;
  function Delete(Index: Integer): WordBool; dispid 204;
  function Select(Index: Integer): WordBool; dispid 205;
  function GetProperty(Command: OleVariant): OleVariant; dispid 207;
  function SetProperty(Command: OleVariant; Value: OleVariant): WordBool; dispid 208;
  property Count: Integer dispid 206;
  property TokenHandle: Integer dispid 209;
  property Data: Integer readonly dispid 202;
end;
```

The schedule object makes it possible to edit and read any schedule structure of different mail server settings.

LastErr

property LastErr: Integer

The LastErr property specifies the numeric value of the last function result. See the result description in the Introduction.

Count

property Count: Integer

Lets you change and read the total number of all schedule items

Add

function Add: WordBool;

Adds a new schedule item to the structure and sets the active position to it.

Delete

function Delete(Index: Integer): WordBool;

Deletes a schedule item from the structure.

Select

function Select(Index: Integer): WordBool;

Selets a schedule item so all property changes and reads will be done to that schedule item.

SetProperty, GetProperty

function SetProperty(Command: OleVariant; Value: OleVariant): WordBool;

function GetProperty(Command: OleVariant): OleVariant;

Functions to manipulate the properties of the whole schedule structure.

Example

```
$ra->Open(0); // Opens the first remote account
$chedule = $ra->GetSchedule('ra_schedule'); // Retrieve the schedule for the object
$chedule->Count = 1; // Sets 1 schedule item
$chedule->SetProperty("s_weekdays_su", true);
$chedule->SetProperty("s_weekdays_mo", true);
$chedule->SetProperty("s_weekdays_tu", true);
$chedule->SetProperty("s_weekdays_we", true);
$chedule->SetProperty("s_weekdays_th", true);
$chedule->SetProperty("s_weekdays_fr", true);
$chedule->SetProperty("s_weekdays_sa", true);
$chedule->SetProperty("s_scheduledtype", 0); // Every x minutes type
$chedule->SetProperty("s_every", 1200); // Sets 20 minutes
$chedule->SetProperty("s_wholeday", true); // Do not use day interval but rather the whole day
$ra->SetSchedule('ra_schedule', $chedule); // Sets the changed schedule structure back to the remote account
$ra->Save(); // Save the changed remote account
```

IceWarpServer.StatisticsObject

IStatisticsObjectDisp = dispinterface

```
['{A17B4801-6473-475E-89C9-20E246D1B4A6}']
function IsRunning(const Service: WideString): WordBool; dispid 201;
function Reset(const Service: WideString): WordBool; dispid 202;
function Poll(const Service: WideString): WordBool; dispid 203;
function GetProperty(Command: OleVariant): OleVariant; dispid 204;
function Start(const Service: WideString): WordBool; dispid 205;
function Stop(const Service: WideString): WordBool; dispid 206;
function GetSessions(const Service: WideString; History: WordBool): WideString; dispid 207;
property TokenHandle: Integer dispid 208;
```

end;

The statistics object lets you poll different services of the mail server and read the statistics such as running time, server connections, data sent received and much more.

Service variable can contain these values:

SMTP

POP3

IMAP

IM

GW

FTP

Control

SIP

LDAP

IsRunning

function IsRunning(const Service: WideString): WordBool; dispid 201;

Returns True if the service is running.

Reset

function Reset(const Service: WideString): WordBool; dispid 202;

Resets the counters for the specified service. Only the datetime will be preserved.

Poll

function Poll(const Service: WideString): WordBool; dispid 203;

Reads the statistics from the service. Call this function once a time and then use the GetProperty method to retrieve the counters.

GetProperty

function GetProperty(Command: OleVariant): OleVariant; dispid 204;

Once used the Poll method use this method to retrieve the particular counters. All variables/commands can be found in the APIConst.pas file.

Start, Stop

function Start(Service: OleVariant): WordBool;

function Stop(Service: OleVariant): WordBool;

Starts and stops services.

Example

```
$stat = new COM("IceWarpServer.StatisticsObject");
$stat->Poll("SMTP");
echo $stat->GetProperty("st_serverconns"); // Total number of server connections
echo $stat->GetProperty("st_server"); // Number of concurrent connections to the server
echo $stat->GetProperty("st_smtp_messagesout"); // Number of sent messages
```

IceWarpServer.TokenObject

```
ITokenObjectDisp = dispinterface
    [{4BF40970-D018-430C-A7B4-6D141F14102F}]
    property URL: WideString dispid 201;
    property TokenHandle: Integer readonly dispid 202;
    property Counter: Integer readonly dispid 203;
end;
```

The token object lets you run API using RPC (Remote Procedure Calls) and connect to any remote server over the internet and use the API.

Before using any other class create the token object and set the URL to format:

administrator ":" password "@" server

Then retrieve the TokenHandle.

Each class of the API has also the TokenHandle. Set the retrieved TokenHandle to any API class so it will use the RPC. It is easy as that.

List of variables that can be retrieved remotely:

U_RulesContentXML

U_ResponderContent

U_MailboxSize

U_MailboxQuota

D_IPAddress

D_RulesContentXML

C_TimeZone

C_AS_Info_UpdateDate

C_AS_Info_UpdateVersion

C_AS_Info_UpdateSize

C_AS_Info_BayesWords

C_AS_Info_BayesSpamMessages

C_AS_Info_BayesGenuineMessages

C_AS_Info_EngineVersion

C_AV_Info_UpdateDate

C_AV_Info_UpdateSize

C_AV_Info_UpdateVersion

`C_License`

NOTE: If you call any other API variable remotely, only the local value is returned.

Example

```
$token = new COM("IceWarpServer.TokenObject");
$token->URL = "admin:password@remote.server.com";
$sapi = new COM("IceWarpServer.APIObject");
$sapi->TokenHandle = $token->TokenHandle;
$sapi->GetProperty("C_License");
```

The example above connects to remote.server.com and retrieves the C_License API variable.

IceWarpServer.Mailer

IMailerDisp = dispinterface

{'AFE68541-8496-11D7-BE4E-00055DDED8D2'}

property RemoteHost: WideString dispid 201;



NOTE: Domain name or IP address of the SMTP server to connect to.

Optionally, a port can be specified, e.g. `$com->RemoteHost="smtp.somedomain.com:655"`.

By default, localhost on port 25 will be used.

property FromAddress: WideString dispid 202;

property FromName: WideString dispid 203;

property Indent1: WideString dispid 204;

property Subject: WideString dispid 205;

property Recipients: WideString dispid 206;

property MailFrom: WideString dispid 207;

property ContentTransferEncoding: WideString dispid 208;

property Charset: WideString dispid 209;

property IsHTML: WordBool dispid 210;

property Result: Integer readonly dispid 211;

property Response: WideString readonly dispid 212;

procedure Reset; dispid 213;

property Helo: WideString dispid 214;

procedure AddRecipient(const Email: WideString; const Name: WideString); dispid 215;

procedure AddCc(const Email: WideString; const Name: WideString); dispid 216;

procedure AddBcc(const Email: WideString; const Name: WideString); dispid 217;

function SendMail: WordBool; dispid 218;

procedure AddCustomHeader(const HeaderValue: WideString); dispid 219;

procedure AddAddress(const Email: WideString; const Name: WideString); dispid 220;

```
procedure AddReplyTo(const Email: WideString; const Name: WideString); dispid 221;
procedure AddAttachment(const Attachment: WideString); dispid 222;
function EncodeHeader(const Header: WideString): WideString; dispid 223;
procedure AddEmbeddedImage(const FileName: WideString; const CID: WideString); dispid 224;
procedure AppendBodyFromFile(const FileName: WideString); dispid 225;
procedure ResetRecipients; dispid 226;
property UserName: WideString dispid 227;
property Password: WideString dispid 228;
end;
```

IceWarpServer.IMMessage

```
IIMMessageDisp = dispinterface
  ['{A28A1D42-848B-11D7-BE4E-00055DDED8D2}']
  property MessageBody: WideString dispid 201;
  property MessageFrom: WideString dispid 202;
  property MessageSubject: WideString dispid 203;
  property MessageTo: WideString dispid 204;
  property MessageType: WideString dispid 205;
  property MessageTag: WideString dispid 206;
  procedure Reset; dispid 207;
  function SendMessage: WordBool; dispid 208;
  procedure AddAttribute(const Attribute: WideString; const Value: WideString); dispid 209;
  procedure AddTag(const Tag: WideString); dispid 210;
  function IsOnline(const Email: WideString): WordBool; dispid 211;
end;
```

IceWarpServer.IDP

```
IIDPDisp = dispinterface
  ['{AEE4E6B2-CE55-4838-A591-056E56553AC0}']
  function AddFiles(const PackageFile: WideString; const Directory: WideString): WordBool; dispid 201;
  procedure RestoreFiles(const PackageFile: WideString; const Directory: WideString;
    var Result: WordBool); dispid 202;
  function ListFiles(const PackageFile: WideString): WideString; dispid 203;
  function RestoreFilesEx(const PackageFile: WideString; const Directory: WideString;
    const FilesList: WideString; const Password: WideString): WordBool; dispid 205;
  function AddFilesEx(const PackageFile: WideString; const Directory: WideString;
    const Password: WideString): WordBool; dispid 204;
end;
```

IceWarpServer.IceWarpLicense



BE AWARE: This API object is obsolete and no longer returns correct values due to change in internal license system.

To get license data call `GetProperty('c_license_xml')` instead. You will obtain all license data in the xml format.

```
IceWarpLicenseDisp = dispinterface
    ['{E0D781D9-47A0-425A-A02D-C537441B3CF2}']
    property LicenseDemo: WordBool readonly dispid 201;
    property LicenseAppID: Integer readonly dispid 202;
    property LicenseDomains: Integer readonly dispid 203;
    property LicenseUsers: Integer readonly dispid 204;
    property LicenseProductID: Integer readonly dispid 205;
    property LicenseExpiresAfter: Integer readonly dispid 206;
    property LicenseValid: WordBool readonly dispid 207;
    function ValidateLicense(const LicenseKey: WideString): WordBool; dispid 208;
    function ValidateLicenseWithReferenceKey(const LicenseKey: WideString;
    const ReferenceKey: WideString): WordBool; dispid 209;
    property LicenseCreationDate: Integer readonly dispid 210;
    property LicenseValidFor: Integer readonly dispid 211;
    property LicenseCount: Integer readonly dispid 212;
    function SelectLicense(Index: Integer): WordBool; dispid 213;
    property LicenseXML: WideString readonly dispid 214;
    property LicenseVersion: Integer readonly dispid 215;
    property LicenseFraud: Integer readonly dispid 216;
end;
```

IceWarpServer.Groupware

```
IGroupWare = interface(IDispatch)
    ['{6C999005-6566-47EC-852F-57AAC2B7BBE4}']
    function FunctionCall(const FuncName: WideString; const Param1: WideString; const Param2: WideString; const Param3:
    WideString; const Param4: WideString): WideString; safecall;
    function Connect(const Server: WideString; SSL: WordBool): WordBool; safecall;
    function Disconnect: WordBool; safecall;
end;
```



NOTE: For more information on these functions and parameters, refer to the `<install_dir>\calendar\doc\api.txt` file.

IceWarpServer.ChallengeResponse

```
IChallengeResponse = interface(IDispatch)
    ['{52A61EE2-1539-4669-B934-482470ACFCE6}']
    function FunctionCall(const FuncName: WideString; const Param1: WideString; const Param2: WideString; const Param3: WideString): WideString; safecall;
end;
```

Examples

You can find some simple example scripts in the **API\COM** directory. They demonstrate the basic functionality of the COM object. Adapting it to any other programming language is very easy.

Other examples can be found in this documentation below.

Creating New Domain

```
if ($com = new COM("IceWarpServer.APIObject"))
{
    $domain = $com->NewDomain("test.com");
    $domain->SetProperty("d_description", "Description");
    $domain->SetProperty("d_adminemail", "postmaster@test.com");
    $domain->Save();
}
```

Creating New User

```
if ($account = new COM("IceWarpServer.AccountObject"))
{
    $account->New("postmaster@test.com");
    $account->SetProperty("u_name", "Test Account");
    $account->SetProperty("u_password", "Pass1");
    $account->SetProperty("u_mailbox", "postmaster");
    $account->Save();
}
```

Deleting User

```
if ($account = new COM("IceWarpServer.AccountObject"))
{
    $account->Open("postmaster@test.com");
    $account->Delete();
}
```


COM Usage under PHP



NOTE: Scripts based on API COM object are limited to Windows operating system. To have a universal solution, you have to use PHP API.

Creating Object

```
<?
    if ($com = new COM("IceWarpServer.APIObject"))
    {
        echo "COM object created\r\n";
        echo "\r\n";
    }
?>
```

Working with Object

```
<?
    $domcount = $com->GetDomainCount();
    echo "Domain count: $domcount\r\n";
    $domlist = $com->GetDomainList();
    echo "Domain list: $domlist\r\n";
    $domainname = $com->GetDomain(0);
    echo "First domain: $domainname\r\n";
    echo "\r\n";
?>
```

Working with Domain

```
<?
    $domain = $com->OpenDomain($domainname);
    $domname = $domain->Name;
    echo "Loaded domain: $domname\r\n";
    $accnum = $domain->GetAccountCount();
    echo "Account count: $accnum\r\n";
    $acclist = $domain->GetAccountList();
    echo "Account list: $acclist\r\n";
    $acc = $domain->GetAccount(0);
    echo "First account: $acc\r\n";
    echo "\r\n";
?>
```

Working with Accounts

```
<?
    $account = $domain->OpenAccount($acc);
    echo "Loaded account: $acc\r\n";
    $accdom = $account->Domain;
    echo "Account's domain: $accdom\r\n";
    echo "\r\n";
?>
```

Creating Domain

```
<?
    $domain = $com->NewDomain("test.com");
    $domain->SetProperty("D_Description", "Test Domain");
    $domain->SetProperty("D_AdminEmail", "postmaster@test.com");
    $domain->Save();
?>
```

Creating Account

```
<?
    $account = $domain->NewAccount("test");
    $account->SetProperty("U_Password", "password");
    $account->SetProperty("U_Name", "Test");
    $account->SetProperty("U_Comment", "Comment");
    $account->Save();
?>
```

List all Accounts in all Domains

```
<?
    $api=new COM("IceWarpServer.APIObject");
    $account=new COM("IceWarpServer.AccountObject");
    $domcount = $api->GetDomainCount();
    for ($i=0;$i<$domcount;$i++)
    {
        $domain_name=$api->GetDomain($i);
        if (!$domain_name) break;
        printf("%s:", $domain_name);
        if ($account->FindInit($domain_name))
        {
            while ($account->FindNext())
```

```
    printf("%s", $account->GetProperty("u_alias") . " " . $account->GetProperty("u_name"));
    $account->FindDone();
}
printf("\r\n");
}
?>
```

PHP API

IceWarp Server offers for integration with web applications also PHP API. There are implemented usual methods of standard IceWarp Server objects (it is same as for the COM object – i.e. the same documentation applies). It is suitable to use PHP API for those solutions that are not to be used on Windows only.

The basic difference lies in the fact that **apiobjectcall** is used instead of the COM object. Also, in contrast to the COM object that supports strings in Unicode format, **apiobjectcall** supports UTF-8 (that is easily usable in PHP). In the practice, this is advantageous when setting values with non-ASCII characters into objects features – e.g. *description* or *name*.

How to Include PHP API into Script

To use PHP API, it is necessary to include appropriate scripts. There is a special script file for every IceWarpServer object. These can be found within the directory for shared libraries. The path to this directory is added to PHP configuration (end of the **php.ini** file) – the *icewarp_sharedlib_path* variable.

Example:

```
define( SHAREDLIB_PATH, get_cfg_var( 'icewarp_sharedlib_path' ) );
require_once( SHAREDLIB_PATH . 'api/api.php' );
require_once( SHAREDLIB_PATH . 'api/domain.php' );
```

How to Initialize New IceWarpServer Object

It is similar to the way how the COM object is initialized. Therefore it is very easy to change your current scripts to use PHP API instead of COM. Please note that object names are slightly different – IceWarpServer.AccountObject becomes IceWarpAccount class and so on (the same pattern applies for other objects).

Example:

```
$domainObj = new IceWarpDomain();
if ( $apiObj = new IceWarpAPI() )
{
    echo "[OK] API init done";
}
else
{
    die ( '[CRITICAL] IceWarp API could not be initialized.' );
}
```

Differences from COM Usage

Besides of the difference mentioned in the previous section, the method of **New** was renamed to **New_** in PHP API.

It is also possible to use special method of *FunctionCall(\$funcName, \$param1, ...\$param5)* which provides the alternative that is suitable for calling of various methods.

Example:

```
function DomainWorker( $action, $domainName, $params = array() )
{
    $domainObj = &$GLOBALS['domainObj'];
    $exists = $domainObj->Open( $domainName ); // does domain exists?
    if ( !$exists && $action == 'add' ) // not exists and want to add it
    {
        echo " Adding domain {$domainName}: ";
        $domainObj->New_( $domainName ); // only defines action as create
        // set some domain properties
        empty( $params[0] ) ?
        null : $domainObj->SetProperty( 'D_AdminEmail', $params[0] );
        empty( $params[1] ) ?
        null : $domainObj->FunctionCall( 'SetProperty', 'D_description', $params[1] );
        if ( $domainObj->Save() ) // actions are performed at this point
        {
            echo 'domain saved';
        }
        else
        {
            $e = $domainObj->LastError; // get last action error code
            echo "save failed[$e]"; // codes in api/delphi/apiconst.pas
        }
    }
}
DomainWorker( 'add', 'iwdemo.com', array( 'admin@iwdemo.com', 'robot' ) );
```

NOTE: You can copy & paste all above examples into single working PHP example script.

RPC

If you are a developer and do not wish to use the COM you can use the RPC calls directly without any libraries from IceWarp. All you need to know is the RPC usage. Read about RPC at <http://www.xmlrpc.com/>

NOTE: RPC is not recommended for integration to bigger server solutions (hosting). Use PHP API instead (it is more efficient and stable) or calling from native code (C++, Delphi). It is also possible to create an IceWarp Server wrapper and communicate with this wrapper (from an external server). Keep in your mind that you have to secure also this communication.

The API resides at [http://server\[:32000\]/rpc/](http://server[:32000]/rpc/) and that is the URL you need to direct the RPC calls to.

There is a special way how to handle API classes over the RPC. See example below:

// The request below creates a new instance of the APIObject on the remote server

// The output will be the instance id of the handle you need to use for subsequent class calls

```
<?xml version="1.0"?>
```

```
<methodCall>
```

```
  <methodName>0->Create</methodName>
```

```
  <params>
```

```
    <param>
```

```
      <value>IceWarpServer.APIObject</value>
```

```
    </param>
```

```
  </params>
```

```
</methodCall>
```

// The call below assumes we already have the class instance which is 123456 from the server and thus

// need to specify it. We call the GetProperty method of the API class and request the c_version property.

```
<?xml version="1.0"?>
```

```
<methodCall>
```

```
  <methodName>123456->GetProperty</methodName>
```

```
  <params>
```

```
    <param>
```

```
      <value>c_version</value>
```

```
    </param>
```

```
  </params>
```

```
</methodCall>
```

Tool.exe

Usage

tool [options] <command> <object> <parameters>

Commands

Command	Options	Object	Parameters
Create New Add Creates a new object	-r	system	<name>
	-p	domain	[<variable1>=<value1>
	-f	account	<variable2>=<value2>
	-q	remoteaccount	<parameterN>=<valueN>]
		tables	service connectionstring
		backup	filename
Modify Set Change the properties of an object	-r	system	<name>
	-p	domain	[<variable1>=<value1>
	-f	account	<variable2>=<value2>
	-q	remoteaccount	<parameterN>=<valueN>]
		storage	1 (Convert to database Storage)
Delete Delete an object	-r	system	<name>
	-p	domain	
	-f	account	
	-q	remoteaccount	
		tables	service connectionstring
Display Get List Display the selected properties of an object	-r	system	<name>
	-p	domain	[<variable1>
	-f	account	<variable2>
	-q	remoteaccount	<parameterN>]
		service	or <mask> (e.g. * to display all properties and values)
		userstatistics	fromdate todate filterstring

Command	Options	Object	Parameters
Check Validate Check the validity of a user account in accordance with the password policy	-r -p -f -q	account	passpolicy
Search Search the API for a string			string
Upgrade Upgrade IceWarp Server's database to the latest version			<old version>
Export Import Export or Import data to a file	-r -p -f -q	domain account remoteaccount backup	<name> [<variable1> <variable2> <parameterN>] Filename

Options

Option	Function
-m (--template=) name	Applies an object template. -m MyTemplate
-r (--remote=) info	Connects to a remote server. -r=user,userpw,www.RemoteServer:32001[,"ssl"]
-p (--path=) dir	Path to the server directory.
-f (--filter=) value	Filter for objects. --f="((U_Name like "John%") OR (U_Name like "George%")) AND (U_AccountDisabled <> "0")"
-q (--quiet)	Runs in quiet mode.
-h (--help / -?)	Displays help.
-t (--tutorial)	Displays a short tutorial.
-v (--version)	Displays tool.exe version.

Parameters

Examples

Create New Domain

```
tool create domain doe.com d_description "Test domain"
```

Create Accounts Using Name, Pass and Comment

```
tool create account john@doe.com u_name "John Doe" u_password "john_pass" u_comment "First test account"
```

```
tool create account alex@doe.com u_name "Alex Doe" u_password "alex_pass" u_comment "Second test account"
```

```
tool create account tom@doe.com u_name "Thomas Doe" u_password "tom_pass" u_comment "Third test account. Tom's first mail account."
```

Display Comments of All doe.com Accounts

```
tool display account "*@doe.com" domain u_comment
```

Export All Accounts...

of doe.com Where Comment Contains Word "first" to File doe_com.csv Using --filter Option

```
tool --filter="u_comment like \"%first%\"" export account "*@doe.com" u_name u_password u_comment > doe_com.csv
```

Export All Accounts...

of doe.com to csv File (base64 Encoded)

```
tool export account "*@doe.com" u_backup > doe_com.csv
```

Display Comments of All doe.com Accounts

```
tool display account "*@doe.com" domain u_comment
```

Delete All Domain Accounts

```
tool delete account "*@doe.com"
```

Import Accounts from File

```
tool import account "doe_com.csv" u_name u_password u_comment
```

Modify Comment of All Accounts @doe.com

```
tool modify account "*@doe.com" u_comment "Modified comment"
```

Delete All Accounts of doe.com Domain and Delete doe.com Domain

```
tool delete account "*@doe.com"
```

```
tool delete domain "doe.com"
```

Show some System Variables

```
tool display system c_system_services_smtp_port c_version c_configpath
```

Change System Variable

```
tool modify system c_as_general_enable 1
```

Display some Information

```
tool display service smtp st_runningtime st_serverout st_server
```

```
tool display userstatistics 2004/10/01 2004/10/31 ""
```

```
tool display remoteaccount "*@icewarp.com" ra_server ra_username
```

Create Remote Account

```
tool create remoteaccount @doe.com ra_server server.name.com ra_username user_name
```

Upgrade Database from Version 8.0.3 to Current

```
tool upgrade 8.0.3
```

NOTE: Backup your database before calling this upgrade function.

Display All Domains on Remote Server and its Description

```
tool -remote="admin,adminspass,remote.server.com:32000" display domain "*" D_Description
```

Display Variables of Object

```
tool search domain
```

Accessing a Remote Server

```
tool --remote=<info> [options] <command> <object> <parameters>
```

where <info>=<user>,<pass>,<server:port>[, "ssl"]

user = admin username

pass = admin password

server:port = remote server and port

Using Filters

Usage:

```
tool (--filter|-f)=<conditions> [options] <command> <object> <params>
```

<conditions> are specified using an SQL-like syntax:

```
--filter="( <variable> like "<pattern>" ) AND ( <variable> = "<value>" )"
```

Example

```
tool --filter="((U_Name like "John%") OR (U_Name like "George%")) AND (U_AccountDisabled <> "0")" get account  
*@icewarpdemo.com U_Name'
```

NOTES:

If you are using file-system account storage you can use all API variables.

If you are using database account storage you can only use a subset of the API variables, based on the defined fields in the database.

You cannot use filter for domain variables, only for user variables.

Command Line Tool

There is a completely new command line tool which you can use to administer domains and accounts as well as all system variables. This tool is called **tool.exe** and you can find it directly in the **<InstallDirectory>** folder. For Linux this is called **tool.sh**. It is easy to use and you only have to know the API constants. Complete list of API constants is in **APIconst.pas** file in the **<InstallDirectory>\API\Delphi** folder.



NOTE: Using tool.exe for performing large operation can cause temporary service unavailability because the service needs to be restarted for some changes in configuration. For servers with many domains and many users with high load, restarting can take some time. Therefore, we recommend performing large batches of changes in low-load periods.



NOTE: Command line tool does not support multi-line – you can encounter this e.g. using the autoresponder variable.

Command	Description
CREATE	Creates a new object. It is followed by a type (domain or account) and a list of variables and values you want to assign to these variables.
DELETE	Deletes an object. It is followed by a type (domain or account) and a unique name of object you want to delete.
MODIFY	Modifies any variable (property) of an object. It is followed by a type of object and a list of variables and values you want to assign to these variables.
DISPLAY	Displays any variable (property) of an object. It is followed by a type of object (domain, account or system) and a list of variables you want to show. Result is generated with double line feeds.
EXPORT	Does the same as DISPLAY command but this command shows on the screen everything separated by comma (CSV format). Result is generated without double line feeds.
FILE	Calls file functions. It is followed by USERSTATISTICS and all its parameters (see below).

Parameter	Description
ACCOUNT [variables]	Address any account on the server.
DOMAIN [variables]	Address any domain on the server.
SYSTEM [variables]	Address any system variable such as c_version, c_name, etc. List is also in APIConst.pas
BATCH batchfile	Allows you to run a batch file with a set of commands included. See examples below. Batchfile is just a common text file with commands. Each on a separate line. These commands must not include "tool" at the beginning. Just the commands and parameters.
USERSTATISTICS fromdate todate filterstring outputfile	Saves userstatistics between fromdate and todate to specified output file for all users that fulfill the condition of filterstring. fromdate,todate have yyyy/mm/dd format filterstring supports also asterisks and question marks to specify more accounts. If it does not contain @ symbol it is considered as domain name. outputfile If you do not specify absolute path, it will be saved to <InstallDirectory> folder.

How to create other types of accounts

To do this, you have to use `u_type` property. Its values are also written in `APIConst.pas` file. For example mailing list has 1 as a value of this property. So if I want to create mailing list I will have to use this:

```
tool create account mailing@icewarpdemo.com u_type 1 m_owneraddress "admin@icewarpdemo.com"
```

Usage

```
tool create account new@icewarpdemo.com u_name "New Account" u_password "pass" u_accounttype 2
```

- It creates an account with New Account in Full Name field and pass as password.

```
tool display account new@icewarpdemo.com u_mailbox u_accounttype
```

- It shows you values of both variables `u_mailbox` and `u_accounttype` of `new@icewarpdemo.com` account.

```
tool delete domain oldone.net
```

- It deletes `oldone.net` domain from your server.

```
tool modify account *@icewarpdemo.com u_accounttype 2
```

- It changes all accounts in `icewarpdemo.com` to IMAP accounts.

```
tool file userstatistics 2004/12/25 2004/12/31 icewarpdemo.com statistics.txt
```

- It saves `userstatistics` between dates `2004/12/25` and `2004/12/31` for all accounts in `icewarpdemo.com` domain to `statistics.txt` file. This file can be found in `<InstallDirectory>` folder.

```
tool export domain * d_description d_postmaster
```

- It shows on the screen `d_description` and `d_postmaster` variables for all domains in CSV format - each value is separated by comma.

```
tool export account *@* u_mailbox u_name u_password > accounts.txt
```

- besides exporting the 3 above fields it also puts user's full email address in first column

```
tool import account "domain_com.csv" u_name u_password u_comment
```

- import the 3 fields from CSV



NOTE: The first field imported from this CSV file is an email address – it is imported automatically and is not to be written in the import command. It has to be specified in CSV in the first place.

```
tool display system c_config_services_pop3_port
```

- It shows the system variable that contains a POP3 service port.

```
tool file batch create_mailing.txt
```

- where `create_mailing.txt` looks like:

```
create account mailing1@icewarpdemo.com u_type 1 m_owneraddress "admin@icewarpdemo.com"
```

```
create account mailing2@icewarpdemo.com u_type 1 m_owneraddress "admin@icewarpdemo.com"
```

```
create account mailing3@icewarpdemo.com u_type 1 m_owneraddress "admin@icewarpdemo.com"
```

- It creates three mailing lists defined in `create_mailing.txt` file.

```
tool check account *@* passpolicy
```

- It verifies which accounts do not comply with the new password policy.

```
tool check account *@* passpolicy > <filename>
```

- It redirects to a file.

Example:

```
tool check account *@* passpolicy>outofpolicy.txt
```

```
tool display account @*@ > accounts.txt
```

- gets a listing of accounts with double line feeds

*tool export account *@* > accounts.txt*

- gets listing with single line feeds

Sendmail.exe

This tool (located in the installation directory) is used for sending email messages via command line. It can be used in a batch file.

Syntax Examples

1. `sendmail.exe < messagefile.imap`

It reads the headers from the file and then sends it to the proper recipient(s)

2. `sendmail.exe sender@domain1.com recipient@domain2.com`

Interactive mode – you can compose a message. The mail FROM: header will read sender@domain1.com, the RCPT TO: one will read berecipient@domain2.com.

3. `sendmail.exe -F fullname -f sender@domain1.com recipient@domain2.com < message_file`

Message file have to be placed in the same directory as sendmail.exe.

The tool has following switches:

-F fullname – sets the full name of the sender

-f name – sets the name of the 'from' person (mail From:)

-i – Ignore dots alone on lines (in Interactive mode - it doesn't end the input by "." on a line by itself)

-t – Read message for recipients

E. g.: `sendmail.exe -F Flavio -f avisos@pingu.company.com.br angela@company.com.br < teste.tmp`

A message included in the **teste.tmp** file is sent to `angela@company.com.br` with sender's full name of Flavio and the mail *From:* header of `avisos@pingu.company.com.br`.

Config.exe

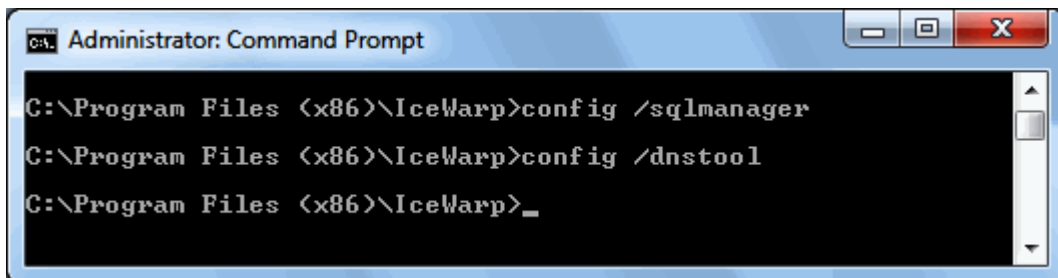
This is a tool that enables the administrator to remotely access the server to configure basic settings.

You can run multiple instances of Config.exe allowing you to compare settings on different servers. All you need to install on the machine you are connection from is the Remote Administration Console, or Remote Config. Simply unzip it to any directory and you can access a remote IceWarp Server by launching the config.exe program.

Command Line Use

You can use command line parameters for Config.exe:

Parameter	Description
/dnstool	Launches the console and opens the DNS Tool dialog.
/sqlmanager	Launches the console on the SQL Manager tab.
/bookmark=<server>	Launches the console and connects it with the specified server.
/ftpsync=<item_no>	Launches FTP synchronization. (E. g. /ftpsync=7)
/forceconnect=ID	Launches the console and connects it with the server defined by its ID. The QuickID is meant here. See Bookmarks Manager – QuickID.



```
Administrator: Command Prompt
C:\Program Files (x86)\IceWarp>config /sqlmanager
C:\Program Files (x86)\IceWarp>config /dnstool
C:\Program Files (x86)\IceWarp>_
```

API Variables

This section lists all the available API variables.

These variables can be used either with the tool.exe command line tool or directly for API programming.

Function Result Codes

Variable Name	Type	Description
S_OK		Function Successful
E_FAILURE		Function failure
E_LICENSE		Insufficient license
E_PARAMS		Size of parameters too short
E_PATH		
E_CONFIG		Configuration not found
E_PASSWORD		Password policy
E_CONFLICT		Item already exists
E_INVALID		Item already exists

Configuration

Version & License

Variable Name	Type	Description
C_Version	String	Server version
C_Date	String	Server release date
C_Backup	String	
C_OS	Bool	Server OS version 0 - Windows 1 - Linux
C_TimeZone	Int	Time zone in seconds
C_SuiteType	Int	IceWarp Email Server license type 1 - Pro 2 - Standard 3 - Lite NOTE: Deprecated.
C_InstallPath	String	IceWarp Email Server installation path
C_ConfigPath	String	Path to Config folder
C_WebPath	String	
C_SpamPath	String	
C_CalendarPath	String	
C_PathServiceID	String	
C_GUI_RequireAuth	Bool	Require authentication to access Admin console
C_GUI_SafeConfirm	Bool	Use Safe confirmation
C_License_XMLFile	String	XML license
C_License	String	Server license (read/export and add new license)
C_Reference	String	Server reference key
C_OnlineLicense	String	Retrieve online license using orderid

Domains

Domain

Variable Name	Type	Description
D_Description	String	Domain description
D_Type	Int	Domain Type 0 - Standard domain 1 - ETRN/ATRN queue 2 - Domain Alias 3 - Backup domain 4 - Distributed domain
D_DomainValue	String	Domain Type To value
D_VerifyType	Int	User verification mode 0 - Default 1 - Issue RCPT 2 - Issue VRFY
D_PostMaster	String	Default Administrator's alias
D_AdminEmail	String	Administrator's email
D_UnknownUsersType	Int	Unknown users action 0 - Reject 1 - Forward to address 2 - Delete
D_UnknownForwardTo	String	Unknown users Forward to Address
D_InfoToAdmin	Bool	Send information to administrator 0

Limits

Variable Name	Type	Description
D_AccountNumber	Int	Domain Admin account limit
D_DiskQuota	Int	Domain disk quota (kB)
D_VolumeLimit	Int	Limit of data sent from domain per day
D_NumberLimit	Int	Limit of emails sent from domain per day
D_DisableLogin	Bool	Disable login to this domain 0

D_UserMailbox	Int	User Mailbox size (kB)
D_UserMsg	Int	User max message size (kb)
D_UserMB	Int	User send out data limit (MB/day)
D_UserNumber	Int	User send out messages limit (#/day)
D_Expires	Bool	Enable domain expiration 0
D_ExpiresOn	Int	Domain Expires On (Date)
D_NotifyExpire	Bool	Enable Notify before expiration 0
D_NotifyBeforeExpires	Int	Notify before expiration (Days)
D_DeleteExpired	Bool	Delete Expired domains 0

Options

Variable Name	Type	Description
D_IPAddress	String	
D_Hostname	String	Hostname
D_Folderpath	String	Folder path
D_AVScan	Bool	Access mode - AV
D_AntiSpam	Bool	Access mode - Antispam
<BAC998XY> quarantine?		THIS WAS CHALLENGE RESPONSE?
D_IM	Bool	Access mode - IM
D_Calendar	Bool	Access mode - GW
D_SyncML	Bool	Access mode - SyncML
D_SIP	Bool	Access mode - SIP
D_ChallengeResponse	Bool	Access mode - Challenge Response
D_Backup	String	Structure backup
D_RulesContentXML	String	

Accounts

Accounts, Shared

Variable Name	Type	Description
U_Type	Int	Account type 0 - User 1 - Mailing list 2 - Executable 3 - Notification 4 - Static Route 5 - Catalog 6 - List server 7 - User group
U_Alias	String	Account's alias
U_Name	String	Account's full name/description
U_Backup	String	Structure backup
U_NonUserAS	Bool	Non user account antispam access
U_NonUserQA	Bool	Non user account quarantine access

User Account

Read-only Variables

Variable Name	Type	Description
U_QuarantineSupport	Bool	Read only variable to check if the user has quarantine enabled
U_ASSupport	Bool	Read only variable to check if the user has antispam enabled
U_SpamFolderSupport	Bool	Read only variable to check if the user has spam folder enabled
U_SIPSupport	Bool	Read only variable to check if the user has SIP enabled
U_AVSupport	Bool	Read only variable to check if the user has IceWarp Anti-Virus enabled
U_IMSupport	Bool	Read only variable to check if the user has instant messaging enabled

U_GWSupport	Bool	Read only variable to check if the user has GroupWare enabled
U_SyncMLSupport	Bool	Read only variable to check if the user has syncML enabled

User

Variable Name	Type	Description
U_EmailAlias	String	Email alias
U_PhoneAlias	String	Phone alias
U_Mailbox	String	Username
U_Password	String	Password
U_AuthMode	Int	Authentication mode 0 - Standard 1 - NT domain 2 - Active Directory 3 - Any password
U_AuthModeValue	String	Authentication mode value This variable can also contain a full path to a file. If the path is valid and the file exists, its content is used as <i>U_AuthModeValue</i> . However, it is not possible to combine file paths with server definitions using the " " (vertical bar) character.
U_Comment	String	User comment
U_AccountType	Int	Mailbox protocol type 0 - POP3 1 - IMAP & POP3 2 - IMAP
U_Admin	Bool	Administrator permissions 0
U_DomainAdmin	Bool	Domain administrator permissions 0
U_ForwardTo	String	Forward to address
U_GW_DailyAgenda	Bool	Sending of daily agenda to a user
U_GW_Reminders	Bool	Sending of reminders to a user

Mailbox

Variable Name	Type	Description
U_MailBoxPath	String	Mailbox path
U_FullMailboxPath	String	Full mailbox path
U_UseRemoteAddress	Bool	Mailbox local/remote 0 - Local mailbox 1 - Remote address
U_RemoteAddress	String	Remote address
U_NULL	Bool	Null account 0
U_DeleteOlder	Bool	Enable Delete messages older than 0
U_DeleteOlderDays	Int	Delete messages older than (Days)
U_ForwardOlder	Bool	Enable Forward messages older than 0
U_ForwardOlderDays	Int	Forward messages older than (Days)
U_ForwardOlderTo	String	Forward messages older then x to address
U_MailIn	String	Copy incoming email address
U_MailOut	String	Copy outgoing email address
U_AlternateEmail	String	Alternate email

Limits

Variable Name	Type	Description
U_MaxBox	Bool	Enable mailbox size limit 0
U_MaxBoxSize	Int	Mailbox size limit (kB)
U_MaxMessageSize	Int	User max message size (kB)
U_MegabyteSendLimit	Int	Send out data limit (MB/day)
U_NumberSendLimit	Int	Send out messages limit (#/day)
U_AccountDisabled	Int	Account state 0 - Enabled 1 - Disabled (Login) 2 - Disabled (Login, Receive) 3 - Disabled (Tarpitting)

U_InactiveFor	Int	Expires if inactive for (Days)
U_AccountValid	Bool	Enable Expires on 0
U_AccountValidTill	Int	Expires on (Date)
U_ValidityReport	Bool	Enable Notify before expiration 0
U_ValidityReportDays	Int	Notify before expiration (Days)
U_DeleteExpire	Bool	Delete account when expired 0
U_ValidReport	String	Notification file

Options

Variable Name	Type	Description
U_SMTP	Bool	Access mode - SMTP 1
U_POP3IMAP	Bool	Access mode - IMAP & POP3 1
U_WebMail	Bool	Access mode - Webmail 1
U_AVScan	Bool	Access mode - AV 1
U_AS	Bool	Access mode - AntiSpam 1
U_Quarantine	Bool	Access mode - Challenge response 1
U_IM	Bool	Access mode - IM 1
U_GW	Bool	Access mode - GroupWare 1
U_SyncML	Bool	Access mode - SyncML 1
U_SIP	Bool	Access mode - SIP 1
U_QuarantineReports	Int	0 - Disabled 1 - Default 2 - New Items only 3 - All items
U_SpamFolder	Int	Spam folder mode 0 - Default 1 - Do not use Spam folder 2 - Use Spam folder
U_SpamAdmin	Bool	Spam administrator 0
U_ETRN	Bool	ETRN/ATRN account 0
U_XEnvelopeTo	Bool	Add X-Envelope-To header to all messages

		0
U_NoMailList	Bool	No mailing lists 0 Setting this to 1 will have the effect of removing this User account from any Mailing list where it not explicitly specified as a member. For example, if this user is a Domain Admin and a Mailing List has been setup for "Domain Admins" then this user is included unless this variable is set to 1.
U_LocalDomain	Bool	User can send to local domains only 0

Responder

Variable Name	Type	Description
U_Respond	Int	Autoresponder mode 0 - Do not respond 1 - Respond always 2 - Respond once 3 - Respond once in period
U_RespondPeriod	Int	Responder period (Days)
U_RespondWith	String	Responder file
U_ReplyFrom	String	Reply from
U_RespondBetweenFrom	String	Responder active from (Date)
U_RespondBetweenTo	String	Responder active till (Date)
U_RespondOnlyIfToMe	Bool	Reply only if to me 0
U_ResponderContent	String	Auto responder content

B&W List

Variable Name	Type	Description
U_BlackWhiteFilter	Bool	Use B&W list 0
U_RulesContentXML	String	Rules content xml
U_IMAPMailbox	String	IMAP mailbox settings
U_PasswordExpired	Bool	
U_MailboxQuota	Int	

U_MailboxSize	Int	
---------------	-----	--

Group Account

Group

Variable Name	Type	Description
G_Name	String	Folder name
G_Description	String	Description
G_GroupwareShared	Bool	GroupWare shared
G_GroupwareDefaultRights	String	GroupWare default rights
G_GroupwareMailDelivery	Bool	GroupWare mail delivery
G_GroupwareMembers	Bool	GroupWare members address book

Members

Variable Name	Type	Description
G_ListFile	String	List file

Options

Variable Name	Type	Description
G_Moderated	Int	Moderated mode 0 - None 1 - Client moderated 2 - Server moderated
G_ModeratedPassword	String	Password
G_AVScan	Bool	Access mode - AntiVirus 1
U_GW_DailyAgenda	Bool	Sending of daily agenda to group members
U_GW_Reminders	Bool	Sending of reminders to group members

Rules

Variable Name	Type	Description
G_BlackWhiteFilter	Bool	Use B&W list 0

Mailing List Account

Mailing List

Variable Name	Type	Description
M_Alias	String	Alias
M_Name	String	Description
M_OwnerAddress	String	Owner address
M_SendAllLists	Int	Members source 0 - List file 1 - All current domain users 2 - All system users 3 - All domain administrators 4 - All system administrators 5 - Members from ODBC
M_ListFile	String	Path to list file
M_ODBC	String	ODBC connection DSN,user,pwd,server,type
M_SQL	String	SQL statement

Message

Variable Name	Type	Description
M_SetSender	Int	Set From or Reply-to headers to sender 0 - Off 1 - Set From: to sender 2 - Set Reply-To: to sender
M_SetValue	Int	Set From or Reply-to headers to value 0 - Off 1 - Set From: to value 2 - Set Reply-To: to value

M_ValueMode	Bool	Order of "header value" mode 0 - From: header set to value 1 - Reply To: header set to value
M_HeaderValue	String	From or Reply-to headers value
FromValue ReplyToValue		
M_SeparateTo	Bool	Set Recipients to To: header 1
M_AddToSubject	String	Add to Subject value
M_AddToHeader	String	Add headers value
M_ListSender	Int	Originator 0 - Blank 1 - Sender 2 - Owner
M_HeaderFile	String	Header file
M_FooterFile	String	Footer file

Security

Variable Name	Type	Description
M_MembersOnly	Bool	Only members can post new messages 0
M_Moderated	Int	Moderated mode 0 - None 1 - Client moderated 2 - Server moderated
M_ModeratedPassword	String	Moderated password
M_AllowSubscribers	String	Allow subscribers file
M_DefaultRights	Int	Default rights 0 - Receive & post 3 bits - 1st (Receive), 2nd (Post), 3rd (Digest)
M_MaxList	Bool	Enable Maximum message size 0
M_MaxListSize	Int	Maximim message size value (kB)
M_MaxMembers	Int	Max members
M_DenyEXPList	Bool	Deny EXPN 0
M_AVScan	Bool	Access mode - Antivirus 1

M_AS	Bool	Access mode - Antispam
M_QA	Bool	Access mode - Quarantine

Options

Variable Name	Type	Description
M_SendToSender	Bool	Send copy to Sender 1
M_CopyToOwner	Bool	Forward copy to owner 0
M_DigestConfirmed	Byte	Digest mailing list 0
		Relay local messages
M_ListSubject	Bool	Process mailing list variables 0
M_Personalized	Bool	Personalized mailing list 0
M_RemoveDead	Bool	Remove dead email addresses 0
M_ListBatch	Int	Max # of messages sent out in 1 minute
M_NotifyJoin	Bool	Notify owner - Join 0
M_NotifyLeave	Bool	Notify owner - Leave 0
M_SubListFile	String	Join file
M_LeaveFile	String	Leave file

Rules

Variable Name	Type	Description
M_BlackWhiteFilter	Bool	Use B&W list 0

List Server Account

List Server

Variable Name	Type	Description
L_Alias	String	Alias
L_Name	String	Description
L_OwnerAddress	String	Owner address

L_SendAllLists	Int	Members source 0 - List file 1 - All domain mailing lists
L_ListFile	String	Path to list file
L_DigestConfirmed	Byte	Subscription 0 - No confirmation 1 - User confirmation 2 - Owner confirmation
L_ListSubject	Bool	Commands in subject 1
M_JoinR	Bool	Join right 1
M_LeaveR	Bool	Leave right 1
M_ListsR	Bool	Lists right 1
M_WhichR	Bool	Which right 1
M_ReviewR	Bool	Review right 1
M_VacationR	Bool	Vacation right 1
M_WLR	Bool	Whitelist right 1
M_BLR	Bool	Blacklist right 1
M_DeliverExternally	Bool	Deliver externally 1

Lists

Variable Name	Type	Description
M_ListServer	Bool	List server vs mailing list 1

Options

Variable Name	Type	Description
L_Moderated	Bool	Moderated list server 0
L_ModeratedPassword	String	Moderated password
M_HelpFile	String	List server help file
L_ListSender	Int	Originator 0 - Blank

		1 - Sender 2 - Owner
L_MaxList	Bool	Suppress command responses 0
L_AVScan	Bool	Access mode - Antivirus 1
L_AS	Bool	Access mode - Antispam
L_QA	Bool	Access mode - Quarantine

Rules

Variable Name	Type	Description
L_BlackWhiteFilter	Bool	Use B&W list 0

Executable Account

Executable

Variable Name	Type	Description
E_Alias	String	Alias
E_Name	String	Description
E_Application	String	Application
E_ExecType	Int	Application type 0 - Executable 1 - StdCall library 2 - Cdecl library 3 - URL
E_Parameters	String	Application parameters
E_ExecPass	String	Password
E_ExecForwardCopy	String	Forward to address
E_AVScan	Bool	Access mode - Antivirus 1
E_AS	Bool	Access mode - Antispam
E_QA	Bool	Access mode - Quarantine

Rules

Variable Name	Type	Description
E_BlackWhiteFilter	Bool	Use B&W list 0

Remote Account

Remote Account

Variable Name	Type	Description
RA_Enabled	Bool	Is this Account Active 0 - No 1 - Yes
RA_Name	String	Name
RA_Server	String	Server
RA_IMAP	Bool	Server type 0 - POP3 1 - IMAP
RA_UserName	String	Username
RA_Password	String	Password
RA_APOP	Bool	Logging using APOP 0
RA_TLSSSL	Int	TLS/SSL 0 - Detect TLS/SSL 1 - Direct TLS/SSL 2 - Disable TLS/SSL
RA_ForwardTo	String	Forward to address
RA_Schedule		Schedule Remote account schedule

Options

Variable Name	Type	Description
RA_NotifyAdmin	Bool	Notify administrator of session problems
RA_Dedupe	Bool	Dedupe collected emails 0

RA_LeaveMessagesOnServer	Bool	Leave messages on server 0
RA_DeleteOlder	Bool	Delete messages older than (Days)
RA_DeleteCount	Int	Delete if more than (Messages)
RA_ExtraForward	String	Forward extra copy to address
RA_ConvertDomains	Bool	Convert domain names 0
RA_Routing	Bool	Email address routing 0

DomainPop

Variable Name	Type	Description
RA_DomainPOP	Bool	Domain POP 0
RA_NoReceived	Bool	Do not processed Received: header 0
RA_ReceiveAll	Bool	Stop parsing if Received: yields a local address 0
RA_XEnvelopeTo	Bool	Parse these headers 0
RA_NoNames	Bool	Real name address matching 0
RA_MatchEmail	String	If email:
RA_DomainString	String	Domain it belongs to
RA_LeaveMessageFile	String	Path to file to keep uids
RA_Backup	String	Structure backup

Static Route Account

Static Route

Variable Name	Type	Description
R_Alias	String	Alias
R_Name	String	Description
R_Activity	Int	Action 0 - Forward to address 1 - Forward to domain 2 - Forward to host 3 - Delete

		4 - Deliver to this domain
R_ExternalDomain	Bool	Forward
R_ActivityValue	String	Value
R_SaveTo	String	Forward to address
		Service access??
R_ExternalFilter	Int	Filter 0 - Filter 1 - External 2 - All
R_FilterFile	String	Filter file
R_ExternalFilterFile	String	External filter file
R_ExternalFilterType	Int	External filter type 0 - StdCall library 1 - Cdecl library 2 - Executable 3 - URL

Notification Account

Notification

Variable Name	Type	Description
N_Alias	String	Alias
N_Name	String	Description
N_NotifyTo	String	Notify to:
N_IMNotification	Bool	IM notification
N_Size	Int	Max message size (Bytes) 128
N_Count	Int	Split to multiple messages (Messages) 1
N_FilterType	Int	Filter 0 - All 1 - None 2 - Filter
N_Send	Bool	Send 0
N_FilterFile	String	Filter file path

Options

Variable Name	Type	Description
N_IntoSubject = \$A1;	Bool	Insert information into subject 1
N_SendTo	Bool	Insert To: header 0
N_SendFrom	Bool	Insert From: header 0
N_SendSubject	Bool	Insert Subject 1
N_SendDateTime	Bool	Insert Date/Time 0
N_SendBody	Bool	Insert Body 1
N_From	String	From:
N_Subject	String	Subject
N_Body	String	Body
N_File	String	Text file
N_ForwardCopy	String	Forward to:
N_Sender	Int	Originator 0 - Empty 1 - Sender 2 - Owner
N_AVScan	Bool	Access mode - Antivirus 1
N_AS	Bool	Access mode - Antispam
N_QA	Bool	Access mode - Quarantine

Rules

Variable Name	Type	Description
N_BlackWhiteFilter	Bool	Use B&W list 0

Catalog Account

Catalog

Variable Name	Type	Description
T_Alias	String	Alias
T_Name	String	Description
T_CatalogPass	String	Password
T_CatalogSubject	Bool	Commands in subject 1
T_CatalogFile	String	Catalog file

Options

Variable Name	Type	Description
T_CatalogGet	Bool	Get right 1
T_CatalogDir	Bool	Dir right 1
T_CatalogSendTo	Bool	SendTo right 1
T_CatalogSender	Int	Originator 0 - Empty 1 - Sender 2 - Owner
T_AVScan	Bool	Access mode - Antivirus 1
T_AS	Bool	Access mode - Antispam
T_QA	Bool	Access mode - Quarantine

Rules

Variable Name	Type	Description
T_BlackWhiteFilter	Bool	Use B&W list 0

Global Settings

Accounts

Variable Name	Type	Description
C_Accounts_Global_Accounts_MaintenanceLog	Bool	Maintenance log
C_Accounts_Global_Accounts_DisableCache	Bool	When the account cache is enabled, information about all accounts from a particular domain is loaded into memory immediately when information about one member of that domain is requested. This greatly improves speed of accessing the information next time. It works with DB account storage the same way as with file system account storage.

Domains

Variable Name	Type	Description
C_Accounts_Global_Domains_UseDiskQuota	Bool	Use Domain disk quota 0
C_Accounts_Global_Domains_UseDomainLimits	Bool	Use Domain limits 0
C_Accounts_Global_Domains_UseUserLimits	Bool	Use Domain user limits 0
C_Accounts_Global_Domains_UseExpiration	Bool	Use Domain expiration 0
C_Accounts_Global_Domains_OverrideGlobal	Bool	Override global limits 0
C_Accounts_Global_Domains_DomainKeys	Bool	Enable DomainKeys support 0
C_Accounts_Global_Domains_Literals	Bool	Enable Domain literals 0
C_Accounts_Global_Domains_Hostname	Bool	Use domain hostnames for outgoing msgs 0
C_Accounts_Global_Domains_IPAddress	Bool	Use domain IP address for outgoing msgs 0
C_Accounts_Global_Domains_WelcomeMsgs	Bool	Use Welcome messages 0
C_Accounts_Global_Domains_WarnMailboxUsage	Int	Warn when mailbox size exceeds (%)
C_Accounts_Global_Domains_WarnDomainSize	Int	Warn when domain size exceeds (%)
C_Accounts_Global_ActiveDirectorySyncInterval	Int	Minutes interval
C_Accounts_Global_Domains_UserAccountDisable dReceive	Bool	True – after expiration, the account is set to disabled (login, receive). False – after expiration, the account is set to disabled (login).

Advanced

Variable Name	Type	Description
C_Accounts_Global_LDAP_Synchronize	Bool	LDAP user synchronization 0
C_Accounts_Global_LDAP_Host	String	
C_Accounts_Global_LDAP_Base	String	
C_Accounts_Global_LDAP_User	String	
C_Accounts_Global_LDAP_Pass	String	
C_Accounts_Global_LDAP_SyncPrimaryAliasOnly	Bool	If enabled, only primary alias is synchronized to the LDAP server.
C_Accounts_Global_Console_ShowAccounts	Int	Number of shown accounts in a domain 1000
C_Accounts_Global_Console_AccountsPosition	Int	Database account display start position 0
C_Accounts_Global_Console_DomainDescription	Int	Domain list display mode 0 - Domain 1 - Description + Domain 2 - Domain + Description
C_Accounts_Global_SpaceReplaceChar	String	One char only! Default character replacing spaces in alias. Some characters are forbidden – e.g. @. More information: http://tools.ietf.org/html/rfc5322 , http://tools.ietf.org/html/rfc5321 . WARNING: Alias must not begin with a white space – the corresponding email address would be invalid.

Policies

Login Policy

Variable Name	Type	Description
C_Accounts_Policies_Login_Enable	Bool	Enable Login policy 0
C_Accounts_Policies_Login_Attempts	Int	Number of failed logins
C_Accounts_Policies_Login_BlockPeriod	Int	Block user login for (Min)
C_Accounts_Policies_Login_Block	Bool	0 - Do not block but delay authentication 1 - Block account for specified time
C_Accounts_Policies_Login_LoginSettings	Bool	Login settings mode 0 - login with username

		1 - login with full email address
C_Accounts_Policies_Login_ConvertChars	Bool	Convert chars %/ to @ in username 0
C_Accounts_Policies_Login_IPRestriction	Bool	Enables account IP restriction
C_Accounts_Policies_Login_RevealPasswords	Bool	
C_Accounts_Policies_Login_DisableDomainIPLogin	Bool	
C_Accounts_Policies_SuperUser	Bool	
C_Accounts_Policies_SuperUserPassword	String	
C_Accounts_Policies_Login_AuthWISIDDisable	Bool	

Password Policy

Variable Name	Type	Description
C_Accounts_Policies_Pass_Enable	Bool	Enable Password policy 0
C_Accounts_Policies_Pass_UserAlias	Bool	Check password against username/alias 0
C_Accounts_Policies_Pass_Encrypt	Bool	Password database encryption 0
C_Accounts_Policies_Pass_MinLength	Int	Min password length
C_Accounts_Policies_Pass_Digits	Int	Number of numeric chars in password
C_Accounts_Policies_Pass_NonAlphaNum	Int	Number of non alphanumeric characters
C_Accounts_Policies_Pass_Alpha	Int	Number of alpha characters
C_Accounts_Policies_Pass_Expiration	Bool	Enable password expiration 0
C_Accounts_Policies_Pass_ExpireAfter	Int	Expire after (Days)
C_Accounts_Policies_Pass_DenyExport	Bool	Passwords cannot be read or exported 0
C_Accounts_Policies_Pass_AllowAdminPass	Bool	Allow Admin's password to be exported 0

System

System Services

SMTP Service

Variable Name	Type	Description
C_System_Services_SMTP_Port	Int	SMTP service port 25

C_System_Services_SMTP_SSLPort	Int	SMTP service SSL port 465
C_System_Services_SMTP_AltPort	Int	SMTP service alternative port 366
C_System_Services_SMTP_Traffic	Bool	Enable SMTP traffic logs 1
C_System_Services_SMTP_IPList	String	List of Denied/Granted IPs
C_System_Services_SMTP_AccessMode	Bool	Service access mode 0 - Deny 1 - Grant
C_System_Services_SMTP_ThreadCache	Int	SMTP service Thread cache 40
C_System_Services_SMTP_MonitorData	Int	Monitor increased traffic
C_System_Services_SMTP_MonitorConn	Int	Monitor number of increased connections
C_System_Services_SMTP_MaxInConn	Int	Max number of Incoming connections 256
C_System_Services_SMTP_MaxOutConn	Int	Max number of Outgoing connections 256
C_System_Services_SMTP_Bandwidth	Int	Max transfer bandwidth (kB/s) 0

POP3 Service

Variable Name	Type	Description
C_System_Services_POP3_Port	Int	POP3 service port 110
C_System_Services_POP3_SSLPort	Int	POP3 service SSL port 995
C_System_Services_POP3_Traffic	Bool	Enable SMTP traffic logs 1
C_System_Services_POP3_IPList	String	List of Denied/Granted IPs
C_System_Services_POP3_Accessmode	Bool	Service access mode 0 0 - Deny 1 - Grant
C_System_Services_POP3_ThreadCache	Int	POP3 service thread cache 40
C_System_Services_POP3_MaxInConn	Int	Max number of Incoming connections 256
C_System_Services_POP3_MaxOutConn	Int	Max number of Outgoing connections 1
C_System_Services_POP3_Bandwidth	Int	Max transfer bandwidth (kb/s) 0
C_System_Services_POP3_MonitorData	Int	Monitor increased traffic
C_System_Services_POP3_MonitorConn	Int	Monitor number of increased connections

IMAP Service

Variable Name	Type	Description
C_System_Services_IMAP_Port	Int	IMAP service port 143
C_System_Services_IMAP_SSLPort	Int	IMAP service SSL port 993
C_System_Services_IMAP_Traffic	Bool	Enable IMAP traffic logs 1
C_System_Services_IMAP_ThreadCache	Int	IMAP service thread cache 40
C_System_Services_IMAP_MaxInConn	Int	Max number of Incoming connections 256
C_System_Services_IMAP_MaxOutConn	Int	Max number of Outgoing connections 1
C_System_Services_IMAP_Bandwidth	Int	Max transfer bandwidth (kB/s) 0
C_System_Services_IMAP_IPList	String	List of Denied/Granted IPs
C_System_Services_IMAP_Accessmode	Bool	Service access mode 0
C_System_Services_IMAP_MonitorData	Int	Monitor increased traffic
C_System_Services_IMAP_MonitorConn	Int	Monitor number of increased connections
C_System_Services_IMAP_FileNameFlags	Bool	

Web / Control Service

Variable Name	Type	Description
C_System_Services_Control_Port	Int	Control service port 32000
C_System_Services_Control_SSLPort	Int	Control service SSL port 32001
C_System_Services_Control_Traffic	Bool	Enable Control traffic logs 1
C_System_Services_Control_IPList	String	List of Denied/Granted IPs
C_System_Services_Control_AccessMode	Bool	Service access mode 0 - Deny 1 - Grant
C_System_Services_Control_ThreadCache	Int	Control service Thread cache 40
C_System_Services_Control_MaxInConn	Int	Max number of Incoming connections 256
C_System_Services_Control_Bandwidth	Int	Max transfer bandwidth (kB/s) 0
C_System_Services_Control_MonitorData	Int	Monitor increased traffic
C_System_Services_Control_MonitorConn	Int	Monitor number of increased connections

FTP Service

Variable Name	Type	Description
C_System_Services_FTP_Port	Int	FTP service port 21
C_System_Services_FTP_SSLPort	Int	FTP service SSL port 990
C_System_Services_FTP_Traffic	Bool	Enable FTP traffic logs 1
C_System_Services_FTP_IPList	String	List of Granted/Denied IPs
C_System_Services_FTP_AccessMode	Bool	Service access mode 0 – Deny 1 - Grant
C_System_Services_FTP_ThreadCache	Int	Service thread cache 40
C_System_Services_FTP_MaxInConn	Int	Max number of Incoming connections 256
C_System_Services_FTP_MaxOutConn	Int	Max number of Outgoing connections 256
C_System_Services_FTP_Bandwidth	Int	Max transfer bandwidth (kB/s) 0
C_System_Services_FTP_MonitorData	Int	Monitor increased traffic
C_System_Services_FTP_MonitorConn	Int	Monitor number of increased connections

GroupWare Service

Variable Name	Type	Description
C_System_Services_GW_Port	Int	GW service port 5229
C_System_Services_GW_Traffic	Bool	Enable GW traffic logs 1
C_System_Services_GW_IPList	String	List of Denied/Granted IPs
C_System_Services_GW_AccessMode	Bool	Service access mode 0 - Deny 1 - Grant
C_System_Services_GW_ThreadCache	Int	GW service Thread cache 40
C_System_Services_GW_MaxInConn	Int	Max number of Incoming connections 256
C_System_Services_GW_Bandwidth	Int	Max transfer bandwidth (kB/s) 0
C_System_Services_GW_MonitorData	Int	Monitor increased traffic
C_System_Services_GW_MonitorConn	Int	Monitor number of increased connections
C_System_Services_SyncML_AccessMode	Bool	Service access mode 0

C_System_Services_SyncML_AccessGroup	String	
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Instant Messaging Service

Variable Name	Type	Description
C_System_Services_IM_Port	Int	IM service port 5222
C_System_Services_IM_SSLPort	Int	IM service SSL port 5223
C_System_Services_IM_AltPort	Int	IM service alternative port 5269
C_System_Services_IM_Traffic	Bool	Enable IM traffic logs 1
C_System_Services_IM_IPList	String	List of Granted?Denied IPs
C_System_Services_IM_AccessMode	Bool	Service access mode 0 - Deny 1 - Grant
C_System_Services_IM_ThreadCache	Int	Service thread cache 40
C_System_Services_IM_MaxInConn	Int	Max number of Incoming connections 256
C_System_Services_IM_Bandwidth	Int	Max transfer bandwidth (kB/s) 0
C_System_Services_IM_MonitorData	Int	Monitor increased traffic
C_System_Services_IM_MonitorConn	Int	Monitor number of increased connections

LDAP Service

Variable Name	Type	Description
C_System_Services_LDAP_Enable	Bool	Enable LDAP service 0
C_System_Services_LDAP_Port	Int	LDAP service port 389
C_System_Services_LDAP_SSLPort	Int	LDAP service SSL port 636
C_System_Services_LDAP_MaxInConn	Int	Max number of Incoming connections 256
C_System_Services_LDAP_Bandwidth	Int	Max transfer bandwidth (kB/s) 0

System Logging

General

Variable Name	Type	Description
C_System_Logging_General_AppendFiles	Bool	Append logs to files 1
C_System_Logging_General_DeleteOlder	Int	Delete logs after (Days) 7
C_System_Logging_General_Archive	Bool	
C_System_Logging_General_ArchiveTo	String	
C_System_Logging_General_LogCache	Int	Logging cache (B) 0
C_System_Logging_General_LogRotation	Int	Size of the log file (kB) 0
C_System_Logging_General_SystemLogFunction	Bool	Send logs to system log function 0
C_System_Logging_Syslog_Active	Bool	Send logs to server 0
C_System_Logging_Syslog_Server	String	Syslog server name
C_System_Logging_General_EnableODBCLog	Bool	Enable ODBC logging
C_System_Logging_General_ODBCLogConn	String	ODBC logging connection
C_System_Logging_General_LogTimeFormat	Int	Log time format 0 - sltfTime 1 - sltfScientific 2 - sltfRFC822
C_System_Sessions_DisableHistory	Bool	Disable session history

Services

Variable Name	Type	Description
C_System_Log_Services_SMTP	Int	SMTP service logging level 0 - None 1 - Debug 2 - Summary 3 - Debug & Summary
C_System_Log_Services_POP3	Int	POP3 service logging level 0 - None 1 - Debug 2 - Summary

		3 - Debug & Summary
C_System_Log_Services_IMAP	Int	IMAP service logging level 0 - None 1 - Debug 2 - Summary 3 - Debug & Summary
C_System_Log_Services_IM	Int	IM service logging level 0 - None 1 - Debug 2 - Summary 3 - Debug & Summary
C_System_Log_Services_GW	Int	GW service logging level 0 - None 1 - Debug 2 - Summary 3 - Debug & Summary
C_System_Log_Services_Control	Int	Control service logging level 0 - None 1 - Debug 2 - Summary 3 - Debug & Summary
C_System_Log_Services_FTP	Int	FTP service logging level 0 - None 1 - Debug 2 - Summary 3 - Debug & Summary
C_System_Log_Services_LDAP	Int	LDAP service logging level 0 - None 1 - Debug 2 - Summary 3 - Debug & Summary
C_System_Log_Services_AV	Int	AV logging level 0 - None 1 - Debug 2 - Summary 3 - Debug & Summary
C_System_Log_Services_AS	Int	AS logging level 0 - None

		1 - Debug 2 - Summary 3 - Debug & Summary
C_System_Log_Services_SIP	Int	SIP logging level 0 - None 1 - Debug 2 - Summary 3 - Debug & Summary
C_System_Log_Services_SMS	Int	SMS service logging level 0 - None 1 - Debug 2 - Summary 3 - Debug & Summary
C_System_Log_Services_SyncMLPush	Int	SyncML service logging level 0 - None 1 - Debug 2 - Summary 3 - Debug & Summary
C_System_Log_MailQueue	Bool	Debug logging - internal usage only

System Tools

System Backup Tool

Variable Name	Type	Description
C_System_Tools_AutoBackup_Enable	Bool	Enable Auto backup 0
C_System_Tools_AutoBackup_BackupTo	String	Path to backup file
C_System_Tools_AutoBackup_Password	String	Password
C_System_Tools_AutoBackup_Schedule		Schedule Auto backup Schedule
C_System_Tools_AutoBackup_DeleteAfter	Int	Delete backup file after (Days)
C_System_Tools_IncludeMailDir	Bool	Include mail folder settings to backup 0
C_System_Tools_ExcludeLicense	Bool	Do not include license to backup file 0
C_System_Tools_Backup_Emails	Bool	Backup emails
C_System_Tools_Backup_SkipLarger	Int	Skip emails larger (MB)
C_System_Tools_Backup_SkipOlder	Int	Skip emails older (Days)

C_System_Tools_Backup_Dirs	String	Additional directories to backup
C_System_Tools_Backup_Logs	Bool	Backup logs

Server Watchdog Tool

Variable Name	Type	Description
C_System_Tools_WatchDog_SMTP	Bool	Enable Watchdog for SMTP 0
C_System_Tools_WatchDog_POP3	Bool	Enable Watchdog for POP3 0
C_System_Tools_WatchDog_IM	Bool	Enable Watchdog for IM 0
C_System_Tools_Watchdog_GW	Bool	Enable Watchdog for GW 0
C_System_Tools_Watchdog_Control	Bool	Enable Watchdog for Control 0
C_System_Tools_Watchdog_Int	Int	Watchdog Interval

System Monitor Tool

Variable Name	Type	Description
C_System_Tools_Monitor_Enable	Bool	Enable System monitor 0
C_System_Tools_Monitor_ReportAddress	String	Disk monitor report address
C_System_Tools_Monitor_FreeMem	Int	Alert if free memory drops below (kB) 0
C_System_Tools_Monitor_DiskSize	Int	Alert if free disk space drops below (MB) 0
C_System_Tools_Monitor_CPUUsagePerc	Int	CPU utilization threshold (%) 0
C_System_Tools_Monitor_CPUUsagePeriod	Int	Alert if CPU usage exceeds threshold for (Min) 0

Remote Server Watchdog Tool

Variable Name	Type	Description
C_System_Tools_RemoteServer_Enable	Bool	Enable Remote server watchdog 0
C_System_Tools_RemoteServer_MoreThan	Int	Server is down if unreachable for (Min) 0
C_System_Tools_RemoteServer_Email	String	Report Email address
C_System_Tools_RemoteServer_Schedule		Schedule Remote Server Watchdog Schedule

C_System_Tools_RemoteServer_NotifyAgain	Bool	Notify when server is back online 0
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TCP/IP Tunnel Tool

Variable Name	Type	Description
C_System_Tools_Tunnel_Enable	Bool	Enable TCP/IP tunnel 0

Server Migration Tool

Variable Name	Type	Description
C_System_Tools_Migration_Active	Bool	Enable Migration 0
C_System_Tools_Migration_Server	String	Migration source host
C_System_Tools_Migration_MigrateService	Int	Migration service 0 - Both 1 - POP3 2 - IMAP
C_System_Tools_Migration_InfoAccount	String	Migration account
C_System_Tools_Migration_LogFile	String	Path to log file
C_System_Tools_Migration_MessageProcessType	Int	Access mode 0 - Standard 1 - Extended alias resolving 2 - Username
C_System_Tools_Migration_NoXEnvelopeTo	Bool	Do not use X-Envelope-To header 0
C_System_Tools_Migration_NoReceived	Bool	Do not process received header 0
C_System_Tools_Migration_MultiDomain	Bool	Multidomain migration 0

Statistics

Variable Name	Type	Description
C_System_Tools_Migration_Stat_Start	Int	Unix time of start
C_System_Tools_Migration_Stat_TotalUsers	Int	Total number of migrated mailboxes
C_System_Tools_Migration_Stat_Users	Int	Number of migrated mailboxes

C_System_Tools_Migration_Stat_Aliases	Int	Number of migrated aliases
C_System_Tools_Migration_Stat_Messages	Int	Number of messages migrated
C_System_Tools_Migration_Stat_Last	Int	Unix time of last migrated mailbox
C_System_Tools_Migration_Stat_Errors	Int	Number of migration errors

System Storage

Accounts

Variable Name	Type	Description
C_System_Storage_Accounts_StorageMode	Int	(stProfessional, stFileSystem, stODBC) 1 Accounts storage mode 0 - Professional file system 1 - Standard file system 2 - ODBC
C_System_Storage_Accounts_ProModeCache	Int	Professional file system memory cache 10
C_System_Storage_Accounts_ODBCConnectionString	String	ODBC connection string
C_System_Storage_Accounts_ODBCMultithread	Bool	Use Multithreaded ODBC 0
C_System_Storage_Accounts_ODBCMaxThreads	Int	

Directories

Variable Name	Type	Description
C_System_Storage_Dir_MailPath	String	Path to mail folder
C_System_Storage_Dir_TempPath	String	Path to temp folder
C_System_Storage_Dir_LogPath	String	Path to log folder
C_System_Storage_Mailbox_UseSorting	Bool	Enables mailbox path alphabetical sorting
C_System_Storage_Mailbox_PrefixLen	Int	Number of characters from alias to prefix

Load Balancing

Variable Name	Type	Description
C_System_Storage_LB_ServerID	String	Server ID
C_System_Storage_LB_AutoCheckConfig	Bool	Periodically check if settings have been changed and auto-reloaded 0
C_System_MySQLDefaultCharset	String	Default charset for direct mysql client library - as of v5 the default is latin1 so this needs to be changed to utf8

System Internet Connection

Variable Name	Type	Description
C_System_Conn_Type	Int	Connection mode 0 - Network connection 1 - Dial-up 2 - Dial-up on demand router
C_System_Conn_UpName	String	Connection name
C_System_Conn_UpUsername	String	Username
C_System_Conn_UpPassword	String	Password
C_System_Conn_UpHangUpAfter	Int	Hang up after (sec)
C_System_Conn_UpOlderthan	Int	COConnect if msg waits for more than (Min)
C_System_Conn_DialOnDemandExceed	Int	Connect if number of msgs exceeds
C_System_Conn_DialOnDemandHeader	Bool	Connect if message with this header
C_System_Conn_Schedule		Schedule Connection schedule
C_System_Conn_GlobalSchedule		Schedule Global schedule

System Advanced

Variable Name	Type	Description
C_System_Adv_Protocols_SessionTimeOut	Int	Session timeout 300
C_System_Adv_Protocols_ResponseDelay	Int	Protocol response delay 0
C_System_Adv_Protocols_MaxBadCommands	Int	Max number of bad commands 8

C_System_Adv_Protocols_BackLog	Int	Listen back logs 5
C_System_Adv_Protocols_DNSTimeout	Int	DNS Timeout 5
C_System_Adv_Protocols_DNSCache	Bool	Use DNS smart cache 1
C_System_Adv_Protocols_DNSRetry	Int	DNS retries 1
C_System_Adv_Protocols_DNSCacheLimit	Int	DNS cache items limit 128
C_System_Adv_Protocols_IMAPTimeout	Int	IMAP timeout
C_System_Adv_Ext_DisableSSLTLS	Bool	Disable SSL/TLS 1
C_System_Adv_Ext_EnableIPv6	Bool	Enable IPv6 Protocol 0
C_System_Adv_Ext_ChangePassServer	Bool	Enable Change password server 0
C_System_Adv_Ext_DaytimeServer	Bool	Enable Daytime server 0
C_System_Adv_Ext_DayTimePort	Int	Daytime port
C_System_Adv_Ext_DisableMultiCPU	Bool	Disable Multiple CPU 1
C_System_Adv_Ext_SNMPServer	Bool	Enable SNMP server
C_System_Adv_Ext_SNMPPort	Int	SNMP port
C_System_Adv_Ext_SocksServer	Bool	Enable Socks server
C_System_Adv_Ext_SocksPort	Int	Socks port
C_System_Adv_Ext_SSLServerMethod	Int	Supported Server SSL Protocol 0 – Default (currently the same as 4, but will be increased in future according to the actual security trends) 1 – Deprecated (the same as 3) 2 – Deprecated (the same as 3) 3 – Supports SSL3 and newer (SSL3,TLS1,TLS1.1.TLS1.2) 4 – Supports TLS1 and newer (TLS1,TLS1.1.TLS1.2) 5 – Supports TLS1.1 and newer (TLS1.1.TLS1.2) 6 – Supports TLS1.2 and newer (TLS1.2)
C_System_Adv_Ext_SSLClientMethod	Int	Supported Client SSL Protocol 0 – Default (currently the same as 4, but will be increased in future according to the actual security trends) 1 – Deprecated (the same as 3) 2 – Deprecated (the same as 3) 3 – Supports SSL3 and newer (SSL3,TLS1,TLS1.1.TLS1.2) (Client will send out TLSv1 client hello messages including

		<p>extensions and will indicate that it also understands TLSv1.1, TLSv1.2 and permits a fallback to SSLv3)</p> <p>4 – Supports TLS1 and newer (TLS1,TLS1.1.TLS1.2) (Client will send out TLSv1 client hello messages including extensions and will indicate that it also understands TLSv1.1, TLSv1.2)</p> <p>5 – Supports TLS1.1 and newer (TLS1.1.TLS1.2) (Client will send out TLSv1.1 client hello messages including extensions and will indicate that it also understands TLSv1.2)</p> <p>6 – Supports TLS1.2 and newer (TLS1.2) (Client will send out TLSv1.2 client hello messages)</p>
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System Active Directory

Variable Name	Type	Description
C_System_ADsyncLogType	Integer	AD synchronization logging level. 0 – none, 1 – debug, 2 – summary, 3 – debug & summary.
C_System_ADsyncIgnoreSearchError	Bool	If AD synchronization search returns error, but still some data returned, by default (false), synchronization does not perform any delete operation. Set to true, delete operations are enabled from these cases.
C_System_ADsyncMaxDeleteThreshold	Integer	If set to value greater than 0 (zero), AD synchronization does not perform any account delete, if the number should exceed this value.
C_System_ADsyncDisableVCardSync	Integer	This variable disables personal data synchronization from AD, only accounts are then synchronized from AD.

SMTP Service

SMTP Service

General

Variable Name	Type	Description
C_Mail_SMTP_General_HostName	String	Mailserver hostname
C_Mail_SMTP_General_DeliveryMode	Bool	SMTP service delivery mode 0 - Use SMTP relay server 1 - Use DNS lookup
C_Mail_SMTP_General_RelayMailServer	String	SMTP relay server
C_Mail_SMTP_General_ParallelIPConnectionsLimit	Int	<p>When = 0, no limits are checked.</p> <p>When > 0, global limit applies for all IPs (if there is no setting for them in the "bypass" file).</p> <p>This "bypass" file (<i><install_dir>\config\ipclbypass.dat</i>) overrides the global limit.</p> <p>Each line of the <i>ipclbypass.dat</i> file includes information about one IP or one IP range in the following format:</p> <p><i>IP;Limit</i></p> <p><i>IPRange;Limit</i></p> <p>IP ranges can be specified as:</p> <ol style="list-style-type: none"> wildcards: 255.255.* IP ranges: 255.0.0.0-255.255.0.0 CIDR (but it is difficult to use) <p>Examples:</p> <p><i>127.0.0.1;10</i> (10 connections allowed from the IP address of 127.0.0.1)</p> <p><i>127.0.0.*;5</i> (5 connections allowed for all IPs from the range of 127.0.0.0-127.0.0.255)</p> <p><i>127.0.0.0-127.0.0.2;2</i> (2 connections allowed for IPs from the give range)</p>
C_Mail_SMTP_General_DNSServer	String	DNS servers
C_Mail_SMTP_Other_Dedupe	Bool	Dedupe email messages 0
C_Mail_SMTP_Other_SearchInLocalDomains	Bool	Search for alias in other local domains 0
C_Mail_SMTP_Other_HeaderFunctions	Bool	Activate message header functions 0
C_Mail_SMTP_Other_MaxHopCount	Int	Max SMTP hop count 20

C_Mail_SMTP_Other_MaxRecipients	Int	Max SMTP server recipients 32768
C_Mail_SMTP_Other_MaxMTARecipients	Int	Max SMTP client recipients 100
C_Mail_SMTP_Other_LocalDelivery	Bool	Enable remote delivery from local server 0
C_Mail_SMTP_Other_ExternalDelivery	Bool	Deliver all messages externally 0
C_Mail_SMTP_Other_NoRetryQueue	Bool	Do not queue messages 0
C_Mail_SMTP_Other_BounceBackMode	Int	Bounce back mode
C_Mail_SMTP_Other_SMTPPipelining	Bool	Enable SMTP pipelining 0
C_Mail_SMTP_Other_SPFSRS	Bool	Enable SRS 0
C_Mail_SMTP_Other_SPFSRSKey	String	SRS secret key
C_Mail_SMTP_Other_MailboxSeparator	String	Mailbox separator / extension separator (eg: alias:extension@domain)

Delivery

Variable Name	Type	Description
C_Mail_SMTP_Delivery_UseTLSSSL	Bool	Use TLS/SSL 0
C_Mail_SMTP_Delivery_RetrySMTP	Bool	Retry with SMTP when ESMTP failed
C_Mail_SMTP_Delivery_LimitMsgSize	Bool	Enable Max message size 0
C_Mail_SMTP_Delivery_MaxMsgSize	Int	Max message size (B)
C_Mail_SMTP_Delivery_MXReconnectFailure	Bool	Deliver message via relay server when direct delivery fails
C_Mail_SMTP_Delivery_HideIP	Bool	Hide IP from received header
C_Mail_SMTP_Delivery_RDNSLookup	Bool	
C_Mail_SMTP_Delivery_UndelivAfter	Int	Undeliverable after (Minutes) 0
C_Mail_SMTP_Delivery_UndelivWarning	Int	Undeliverable warning (Minutes) 0
C_Mail_SMTP_Delivery_DaemonAlias	String	Mailer Daemon report alias MAILER-DAEMON
C_Mail_SMTP_Delivery_DaemonName	String	Mailer Daemon report name Mail Delivery Subsystem
C_Mail_SMTP_Delivery_BadMail	String	Bad mail address
C_Mail_SMTP_Delivery_DoNoTruncate	Bool	Do not truncate mailer daemon's msgs 0
C_Mail_SMTP_Delivery_InfoToAdmin	Bool	Send info to admin 0

C_Mail_SMTTP_Delivery_UseIncomingQueue	Bool	Use incoming mail queue
C_Mail_SMTTP_Delivery_IncomingQueueSize	Int	Size of the queue (# threads)
C_Mail_SMTTP_Delivery_MDAInternal	Bool	Use MDA queue for internal delivery 0
C_Mail_SMTTP_Delivery_ReturnPath	Bool	Add return-path

Header / Footer

Variable Name	Type	Description
C_Mail_SMTTP_HeaderFooter_Enable	Bool	Enable Header/Footer 0

SMTP Security

General

Variable Name	Type	Description
C_Mail_Security_Relay_RelayMode	Bool	Relay mode 0 - Open relay 1 - Close relay
C_Mail_Security_Relay_IPList	String	List of relayed IP addresses
C_Mail_Security_Relay_POPSMTP	Bool	Enable POP before SMTP
C_Mail_Security_Relay_POPSMTPInt	Int	POP before SMTP interval (Min)
C_Mail_Security_Relay_POPSMTPGlobal	Bool	Enable POP before SMTP global mode
C_Mail_Security_Relay_RejectLocalUnauth	Bool	Reject if orig's domain is local&unauth 0

DNS

Variable Name	Type	Description
C_Mail_Security_Protection_DNSBL	Bool	Enable DNSBL 0
C_Mail_Security_Protection_ClosedNSBLConn	Bool	Close connection for DNSBL sessions 0
C_Mail_Security_Protection_RejectrDNS	Bool	Reject if sender's IP has no rDNS 0
C_Mail_Security_Protection_RejectMX	Bool	Reject if orig's domain has no MX rec 0

C_Mail_Security_Protection_SMTPWait	Int	Wait before processing a new conn 0
C_Mail_Security_Protection_LocalDomain	Bool	Relay only if orig's domain's local 0
C_Mail_Security_Protection_DomainIPShield	Bool	Use Domain IP shielding 0
C_Mail_Security_Protection_RejectSMTPAuthSender	Bool	Reject if SMTP AUTH different from sender
C_Mail_Security_Protection_HELOEHLO	Bool	Require HELO/EHLO 0
C_Mail_Security_Protection_IgnoreBlankHeloHost	Bool	Ignore Blank Helo Host

Intrusion Prevention

Variable Name	Type	Description
C_Mail_Security_Tarpit_Enable	Bool	Enable tarpitting 0
C_Mail_Security_Tarpit_Count	Int	Number of attempts
C_Mail_Security_Tarpit_Period	Int	Tarpitting interval (intrusion prevention)
C_Mail_Security_Tarpit_RelayTarpit	Bool	Tarpit relay rejected IPs 0
C_Mail_Security_Tarpit_BlockIP	Bool	Block IPs that establish more than BlockIPValue connections within a minute 0
C_Mail_Security_Tarpit_BlockIPValue	Int	Number of limited of connections
C_Mail_DoNot_Tarpit_IPs	Bool	Do not tarpit IP addresses 0
C_Mail_Security_Tarpit_CloseConnection	Bool	Close tarpitted connections 0
C_Mail_Security_Tarpit_CrossSession	Bool	Cross session processing 0
C_Mail_Security_Tarpit_Msg_Enabled	Bool	Tarpit message size
C_Mail_Security_Tarpit_Msg_Value	Int	Tarpit message size value
C_Mail_Security_Tarpit_Spam	Bool	Tarpit spam
C_Mail_Security_Tarpit_SpamScore	Int	Tarpit spam score (* 100)
C_Mail_Security_Tarpit_DNSBL	Bool	Tarpit DNSBL
C_Mail_Security_Tarpit_RSET	Bool	Tarpit RSET
C_Mail_Security_Tarpit_RSETCount	Int	Tarpit RSET count

Advanced

Variable Name	Type	Description
C_Mail_Security_Protocols_DenyESMTP	Bool	Deny ESMTP protocol 0
C_Mail_Security_Protocols_AllowSMTPAuth	Bool	Allow SMTP Auth 1
C_Mail_Security_Protocols_DenyVRFY	Bool	Deny VRFY command 0
C_Mail_Security_Protocols_DenyEXPN	Bool	Deny EXPN command 0
C_Mail_Security_Protocols_DenyTelnet	Bool	Deny Telnet access 0

SMTP Filters

Content Filters

Variable Name	Type	Description
C_Mail_Filter_Content_Enable	Bool	Enable Content filters 0

Rules

Variable Name	Type	Description
C_Mail_Filter_BW_Enable	Bool	Enable B&W lists 0
C_Mail_Filter_RulesContentXML	String	
C_Mail_Filter_MaxThreads	Int	Number of filter threads 0

SMTP Archive

Variable Name	Type	Description
C_System_Tools_AutoArchive_Enable	Bool	Enable Auto archive 0
C_System_Tools_AutoArchive_Path	String	Auto archive path
C_System_Tools_AutoArchive_DeleteOlder	Int	Delete archive older than (Days)
C_System_Tools_AutoArchive_Outgoing		(ammIncoming, ammBoth, ammOutgoing)
C_System_Tools_AutoArchive_Backup_Active	Bool	Backup archive
C_System_Tools_AutoArchive_Backup_Delete	Int	Delete old archive backups

eOlder		
C_System_Tools_AutoArchive_Backup_File	String	Archive backup file
C_System_Tools_AutoArchive_Backup_Password	String	Password
C_System_Tools_AutoArchive_Backup_Domains	Bool	Archive specified domains
C_System_Tools_AutoArchive_IMAPArchiveSent	String	Archive subfolders rename
C_System_Tools_AutoArchive_IMAPArchiveInbox	String	Archive subfolders rename
C_System_Tools_AutoArchive_UnknownUsers	Bool	Archive emails for unknown users. NOTE: Applies only for backup domains or distributed ones, as standard domains do not accept such emails.

SMTP ETRN Download

Variable Name	Type	Description
C_Mail_ETRN_Count	Int	Number of ETRN connections 0
C_Mail_ETRN_Config	Int	Pointer to ETRN conn configuration
C_Mail_ETRN_Schedule		Schedule ETRN Schedule

AntiSpam

AS General

Variable Name	Type	Description
C_AS_General_Enable	Bool	Enable Spam Engine 1
C_AS_General_ProcessingMode	Int	AS access mode bit 0 - All messages 1 - All except selected 3 - Group 5 - Selected domains only 9 - Selected accounts only
C_AS_General_ProcessingGroup	String	Access mode group
C_AS_Info_UpdateDate	String	Update date

C_AS_Info_UpdateVersion	String	Update version
C_AS_Info_EngineVersion	String	Engine version
C_AS_Info_UpdateSize	Int	
C_AS_Info_BayesWords	Int	
C_AS_Info_BayesSpamMessages	Int	
C_AS_Info_BayesGenuineMessages	Int	
C_AS_SpamMaxTextBytes	Int	This variable controls how many bytes from the beginning of the message will be processed by Anti-Spam. The default value is 4096 bytes. When a mail message has more bytes than this setting and there is something spam significant behind the limit, it will not be found, Anti-Spam checks only the first x bytes. This does not apply to Anti-Spam live.

AS Quarantine

Variable Name	Type	Description
C_AS_Challenge_ProcessingMode	Int	CR access mode bit 0 - All messages 1 - All except selected 3 - Group 5 - Selected domains only 9 - Selected accounts only
C_AS_Challenge_ProcessingGroup	String	Access mode group
C_AS_Challenge_ReportsSchedule	Schedule	

Anti-Virus

General

Variable Name	Type	Description
C_AV_General_IntegratedAV	Bool	Enable Integrated AV scanner 1
C_AV_General_ProcessingMode	Int	AV access mode - bit based bit 0 - All messages 1 - All except selected 3 - Group 5 - Selected domains only 9 - Selected accounts only
C_AV_General_ProcessingGroup	String	Access mode group
C_AV_General_UpdateType	Int	Update Schedule 0 - Disabled 1 - Once at 2 - Every x hours
C_AV_General_UpdateNotWeekdays	Int	List of days when server does not check for update bit 1 - Monday ... bit 7 - Sunday
C_AV_General_UpdateTime	Int	Update time hours - upper byte minutes - lower byte
C_AV_General_EveryHour	Int	Check for update every (Hours)
C_AV_General_ActiveUpdate	Bool	Enable Active Update 0 Deprecated.
C_AV_General_ActiveAddress	String	Active update email trigger Deprecated.
C_AV_Info_UpdateDate	String	Update date
C_AV_Info_UpdateSize	Int	Update size
C_AV_Info_UpdateVersion	String	Update version

Action

Variable Name	Type	Description
C_AV_Action_ScanAllParts	Int	Scan All message parts
C_AV_Action_Mode	Int	AV Action mode 1 - Reject 2 - Remove infected attachments 3 - Delete
C_AV_Action_CleanInfected	Bool	Clean infected messages if possible 0
C_AV_Action_InfoToAdmin	Bool	Notification to Admin 0
C_AV_Action_InfoToRecipient	Bool	Notification to Recipient 0
C_AV_Action_InfoToSender	Bool	Notification to Sender 0
C_AV_Action_UseQuarantine	Bool	Quarantine infected messages 0
C_AV_Action_QuarantineAddress	String	Quarantine address/path
C_AV_Action_QuarantineMode	Bool	Virus Quarantine mode 0 - Quarantine whole infected messages 1 - Quarantine only infected attachments

Filters

Variable Name	Type	Description
C_AV_Filters_BlockFiles	Bool	Block files with following extensions 0

Other

Variable Name	Type	Description
C_AV_Misc_RejectPassProtected	Bool	Reject password protected files 0
C_AV_Misc_ApplyAsLast	Bool	Apply antivirus as the last filter 0
C_AV_Misc_Outgoing	Bool	Apply antivirus to outgoing messages
C_AV_Misc_DisableExternalAV	Bool	Disable External AV 1
C_AV_MaxThreads	Int	Max number of concurrent threads 0
C_AV_MaxFile	Int	Max message size

C_AV_Avast	Int	Avast Antivirus usage 0 - Default 1 - Enabled 2 - Disabled
C_AV_Symantec	Int	Symantec Antivirus usage 0 - Default 1 - Enabled 2 - Disabled
C_AV_AVG	Int	AVG Antivirus usage 0 - Default 1 - Enabled 2 - Disabled
C_AV_Kaspersky	Int	Kaspersky Antivirus usage 0 - Default 1 - Enabled 2 - Disabled

Services

Web Service

Variable Name	Type	Description
C_WebService_AppMaxThreads	Int	Number of web service application threads

FTP Service

Variable Name	Type	Description
C_FTPService_Active	Bool	Activate FTP service

GroupWare

Variable Name	Type	Description
C_GW_General_Disable	Bool	Disable GW service 0
C_GW_ProcessingMode	Int	GW service access mode bit 0 - All messages 1 - All except selected

		3 - Group 5 - Selected domains only 9 - Selected accounts only
C_GW_ProcessingGroup	String	
C_GW_SuperUser	String	
C_GW_SuperPass	String	
C_GW_ACLNotifications	Bool	0 – ACL notifications (folder sharing) are not sent 1 – ACL notifications (folder sharing) are sent – default value

SyncML

Variable Name	Type	Description
C_SyncML_Push_Active	Bool	Set SyncML PUSH active: 1 = Active 0 = Inactive
C_SyncML_Push_Port	Int	Set port for SyncML PUSH
C_SyncML_URL	String	Set URL for SyncML PUSH

SMS Service

Variable Name	Type	Description
C_SMSService_Active	Bool	Enable SMS service
C_SMSService_RequireAuth	Bool	Enable SMS service authentication

Instant Messaging

General

Variable Name	Type	Description
C_IM_General_Disable	Bool	Disable IM service 0
C_IM_General_Redirectunknown	Bool	Redirect unknown domain to local domain 0
C_IM_General_Anonymous	Bool	Enable Anonymousserver to server communication 0

C_IM_General_FileTransfer	Bool	Enable Server file transfer 0
C_IM_General_AccountRegistration	Bool	Enable Account registration 0
C_IM_General_ServerOSReport	Bool	Enable Server OS report 0
C_IM_ProcessingMode	Int	IM access mode - bit based bit 0 0 - All messages 1 - All except selected 3 - Group 5 - Selected domains only 9 - Selected accounts only
C_IM_ProcessingGroup	String	
C_IM_EmailTransportNode	String	
C_IM_SocksServerIP	String	

Archive/History

Variable Name	Type	Description
C_IM_Archive_Enable	Bool	Enable IM archive
C_IM_Archive_DeleteAfter	Int	Delete IM archive after (Days)
C_IM_Presence_History	Bool	
C_IM_Presence_HistoryDelete	Int	

SIP Service

Variable Name	Type	Description
C_System_Services_SIP_Enable	Bool	
C_System_Services_SIP_Port	Int	
C_System_Services_SIP_DebugFile	String	
C_System_Services_SIP_NoRecordRoute	Bool	
C_System_Services_SIP_LocalNet	String	
C_System_Services_SIP_RemoteAccessHost	String	
C_System_Services_SIP_LocalAccessHost	String	

C_System_Services_SIP_OtherProxy	String	
C_System_Services_SIP_UseOtherProxy	Bool	
C_System_Services_SIP_DisableAnonymousAccess	Bool	
C_System_Services_SIP_DisableRegistrar	Bool	
C_System_Services_SIP_DisableSymmetricResponseRouting	Bool	
C_System_Services_SIP_Calls	Bool	
C_System_Services_SIP_CallsFile	String	
C_System_Services_SIP_UserCalls	Bool	
C_System_Services_SIP_AwayPrefix	String	
C_System_Services_SIP_ResetPrefix	String	
C_System_Services_SIP_RedialPrefix	String	
C_System_Services_SIP_ENUM	Bool	
C_System_Services_SIP_SDPProxy	Bool	
C_System_Services_SIP_SDPRemoteAccessHost	String	
C_System_Services_SIP_Mode	Int	
C_System_Services_SIP_RTPProxy	Int	
C_System_Services_SIP_RTPStart	Int	
C_System_Services_SIP_RTPMax	Int	
C_System_Services_SIP_MaxCalls	Int	
C_System_Services_SIP_DNSEnabled	Bool	
C_System_Services_SIP_AccessGroup	String	
C_System_Services_SIP_SSLPort	Int	
C_System_Services_SIP_List	String	
C_System_Services_SIP_Grant	Bool	
C_System_Services_SIP_DisableRTPProxy	Bool	
C_System_Services_SIP_ContactExpires	Int	

Statistics

Variable Name	Type	Description
ST_Time	Int	Unix time
ST_ServerOut	Int	kB
ST_ServerIn	Int	kB
ST_ClientOut	Int	kB
ST_ClientIn	Int	kB
ST_Server	Int	
ST_ServerPeak	Int	
ST_Client	Int	
ST_ClientPeak	Int	
ST_ServerConns	Int	
ST_PeakWorkingSetSize	Int	
ST_PageFileUsage	Int	
ST_WorkingSetSize	Int	
ST_RunningTime	Int	
ST_SMTP_MessageOut	Int	
ST_SMTP_MessageIn	Int	
ST_SMTP_MessageFailed	Int	
ST_SMTP_FailedGL	Int	
ST_SMTP_FailedVirus	Int	
ST_SMTP_FailedCF	Int	
ST_SMTP_FailedStaticFilter	Int	
ST_SMTP_FailedFilter	Int	
ST_SMTP_FailedRBL	Int	
ST_SMTP_FailedTarpit	Int	
ST_SMTP_FailedSpam	Int	
ST_SMTP_FailedSpamQuarantine	Int	
ST_SMTP_FailedSpamRefused	Int	

ST_SIP_PacketsIn	Int	
ST_SIP_PacketsOut	Int	
ST_SIP_RTTPacketsIn	Int	
ST_SIP_RTTPacketsOut	Int	

Schedule

Variable Name	Type	Description
S_ForceDial	Bool	
S_WeekDays_Mo	Bool	
S_WeekDays_Tu	Bool	
S_WeekDays_We	Bool	
S_WeekDays_Th	Bool	
S_WeekDays_Fr	Bool	
S_WeekDays_Sa	Bool	
S_WeekDays_Su	Bool	
S_ScheduleType		(stEvery, stOnce, stDisabled)
S_ScheduleWhen		(stWeekdays, stDaysInMonth, stDisabled)
S_DaysInMonth	String	
S_OnceAt	Int	
S_Every	Int	
S_WholeDay	Bool	
S_BetweenFrom	Int	
S_BetweenTo	Int	
S_Backup	String	

Validation

Variable Name	Type	Description
V_Account_PassPolicy = 'passpolicy';		

Mailing List

Variable Name	Type	Description
M_GroupwareDefaultRights	String	GroupWare default rights
C_AS_Mailinglist_Quarantine_Disable	Bool	Disables quarantine for all account types except for user accounts (not only for mailing lists) 0 – enabled, 1 – disabled
C_AS_Mailinglist_Antispam_Disable	Bool	Disables AntiSpam for all account types except for user accounts (not only for mailing lists) 0 – enabled, 1 – disabled
G_CR	Bool	Quarantine access mode for groups 0 – enabled, 1 – disabled
G_AS	Bool	AntiSpam access mode for groups 0 – enabled, 1 – disabled
M_CR	Bool	Quarantine access mode for mailing lists 0 – enabled, 1 – disabled
M_AS	Bool	AntiSpam access mode for mailing lists 0 – enabled, 1 – disabled

Services

Variable Name	Type	Description
C_System_Services_Firewall	Bool	Restrict access to all services 0
C_System_Services_BindIPAddress	String	IP addresses to bind services to

Atomic Clock Sync

Variable Name	Type	Description
C_System_Tools_AtomicClockSync_Enable	Bool	Enable Atomic clock sync

Notification

Variable Name	Type	Description
C_System_Adv_Notification_Active	Bool	Notification messages active
C_System_Adv_Notification_Host	String	Notification messages host