

# **Domain Module**

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Revision History

Revision \$Revision: 1.2 \$ \$Date: 2003/07/14 21:05:11 \$

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# Chapter 1. User's Guide

## 1.1. Overview

Domain module implements checks that based on domain table determine if a host part of an URI is “local” or not. A “local” domain is one that the proxy is responsible for.

Domain module operates in caching or non-caching mode depending on value of module parameter *db\_mode*. In caching mode domain module reads the contents of domain table into cache memory when the module is loaded. After that domain table is re-read only when module is given *domain\_reload* command. Any changes in domain table must thus be followed by *domain\_reload* command in order to reflect them in module behavior. In non-caching mode domain module always queries domain table in the database.

Caching is implemented using a hash table. The size of the hash table is given by *HASH\_SIZE* constant defined in *domain\_mod.h*. Its “factory default” value is 128.

## 1.2. Dependencies

The module depends on the following modules (in the other words the listed modules must be loaded before this module):

- *database* -- Any database module

## 1.3. Exported Parameters

### 1.3.1. *db\_url* (string)

This is URL of the database to be used.

Default value is “*sql://serro:47serro11@localhost/ser*”

#### Example 1-1. Setting *db\_url* parameter

```
modparam("domain", "db_url", "sql://ser:pass@db_host/ser")
```

### 1.3.2. *db\_mode* (integer)

Database mode. 0 means non-caching, 1 means caching.

Default value is 0 (non-caching).

**Example 1-2. nonce\_expire example**

```
modparam("domain", "db_mode", 1) # Use chaching
```

### 1.3.3. domain\_table (string)

Name of table containing names of local domains that the proxy is responsible for. Local users must have in their sip uri a host part that is equal to one of these domains.

Default value is "domain".

**Example 1-3. Setting domain\_table parameter**

```
modparam("domain", "domain_table", "new_name")
```

### 1.3.4. domain\_column (string)

Name of column containing domains in domain table.

Default value is "domain".

**Example 1-4. Setting domain\_column parameter**

```
modparam("domain", "domain_column", "domain_col")
```

## 1.4. Exported Functions

### 1.4.1. is\_from\_local()

Checks based on domain table if host part of From header uri is one of the local domains that the proxy is responsible for

**Example 1-5. is\_from\_local usage**

```
...
if (is_from_local()) {
    ...
};
...
```

## **1.5. FIFO Commands**

### **1.5.1. domain\_reload**

Causes domain module to re-read the contents of domain table into cache memory.

### **1.5.2. domain\_dump**

Causes domain module to dump hash indexes and domain names in its cache memory.

## **1.6. Known Limitations**

There is an unlikely race condition on domain list update. If a process uses a table, which is reloaded at the same time twice through FIFO, the second reload will delete the original table still in use by the process.

# Chapter 2. Developer's Guide

To be done.



# Chapter 3. Frequently Asked Questions

1. What is the meaning of life ?

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