

important to the principles of the present invention where the authorization station 130 or services 120 are implemented.

Nevertheless, for the sake of completeness, FIG. 5 illustrates an example computing system that may itself or in combination with other computing devices implement all or portions of the features described above. The example system includes a general purpose computing device in the form of a conventional computing device 520, including a processing unit 521, a system memory 522, and a system bus 523 that couples various system components including the system memory 522 to the processing unit 521. The system bus 523 may be any of several types of bus structures including a memory bus or memory controller, a peripheral bus, and a local bus using any of a variety of bus architectures. The system memory includes read only memory (ROM) 524 and random access memory (RAM) 525. A basic input/output system (BIOS) 526, containing the basic routines that help transfer information between elements within the computer 520, such as during start-up, may be stored in ROM 524.

The computer 520 may also include a magnetic hard disk drive 527 for reading from and writing to a magnetic hard disk 539, a magnetic disk drive 528 for reading from or writing to a removable magnetic disk 529, and an optical disk drive 530 for reading from or writing to removable optical disk 531 such as a CD-ROM or other optical media. The magnetic hard disk drive 527, magnetic disk drive 528, and optical disk drive 530 are connected to the system bus 523 by a hard disk drive interface 532, a magnetic disk drive-interface 533, and an optical drive interface 534, respectively. The drives and their associated computer-readable media provide nonvolatile storage of computer-executable instructions, data structures, program modules and other data for the computer 520. Although the exemplary environment described herein employs a magnetic hard disk 539, a removable magnetic disk 529 and a removable optical disk 531, other types of computer readable media for storing data can be used, including magnetic cassettes, flash memory cards, digital versatile disks, Bernoulli cartridges, RAMs, ROMs, and the like.

Program code means comprising one or more program modules may be stored on the hard disk 539, magnetic disk 529, optical disk 531, ROM 524 or RAM 525, including an operating system 535, one or more application programs 536, other program modules 537, and program data 538.

A user may enter commands and information into the computer 520 through keyboard 540, pointing device 542, or other input devices (not shown), such as a microphone, joy stick, game pad, satellite dish, scanner, or the like. These and other input devices are often connected to the processing unit 521 through a serial port interface 546 coupled to system bus 523. Alternatively, the input devices may be connected by other interfaces, such as a parallel port, a game port or a universal serial bus (USB). A monitor 547 or another display device is also connected to system bus 523 via an interface, such as video adapter 548. In addition to the monitor, personal computers typically include other peripheral output devices (not shown), such as speakers and printers.

The computer 520 may operate in a networked environment using logical connections to one or more remote computers, such as remote computers 549a and 549b. Remote computers 549a and 549b may each be another personal computer, a server, a router, a network PC, a peer device or other common network node, and typically include many or all of the elements described above relative to the

computer 520, although only memory storage devices 550a and 550b and their associated application programs 536a and 536b have been illustrated in FIG. 5. The logical connections depicted in FIG. 5 include a local area network (LAN) 551 and a wide area network (WAN) 552 that are presented here by way of example and not limitation. Such networking environments are commonplace in office-wide or enterprise-wide computer networks, intranets and the Internet.

When used in a LAN networking environment, the computer 520 is connected to the local network 551 through a network interface or adapter 553. When used in a WAN networking environment, the computer 520 may include a modem 554, a wireless link, or other means for establishing communications over the wide area network 552, such as the Internet. The modem 554, which may be internal or external, is connected to the system bus 523 via the serial port interface 546. In a networked environment, program modules depicted relative to the computer 520, or portions thereof, may be stored in the remote memory storage device. It will be appreciated that the network connections shown are exemplary and other means of establishing communications over wide area network 552 may be used.

Accordingly, the principles of the present invention allow for authorization of requesting entities in a manner that is largely independent of the underlying service being targeted. Accordingly, the authorization process may be performed as a centralized function while the services are left without having to perform significant authorization processes.

The present invention may be embodied in other specific forms without departing from its spirit or essential characteristics. The described embodiments are to be considered in all respects only as illustrative and not restrictive. The scope of the invention is, therefore, indicated by the appended claims rather than by the foregoing description. All changes which come within the meaning and range of equivalency of the claims are to be embraced within their scope.

What is claimed and desired to be secured by United States Letters Patent is:

1. In a computer network that includes different types of data structures of one or more specific entities, a method for authorizing a requesting entity to operate upon data structures in a standard manner, the method comprising:

- an act of maintaining a plurality of role templates that define basic access permissions with respect to one or more command methods, wherein at least some of the role templates define the basic access permissions in a manner that is independent of the type of data structure being operated upon, and wherein the plurality of role templates are contained within a plurality of role map documents, each role map document being specific to a particular computerized service that is configured to perform computerized operations on data structures;
- an act of maintaining a plurality of role definitions that define access permissions for requesting entities by using one or more of the role templates;
- an act of receiving a request from the requesting entity to perform at least one of the command methods, the request identifying the requesting entity as well as an application-platform identifier corresponding to an application of the computerized service;
- an act of identifying a role definition corresponding to the requesting entity; and
- an act of determining access permissions for the requesting entity with respect to the command method using the role definition corresponding to the requesting entity.