

Model Report

Threat modeling report

Version 1.0 • Proposed



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1.1 Dashboard diagram

Dashboard diagram in package 'Dashboard'

Dashboard
Version 1.0
Bob Hruska created on 24-Feb-20. Last modified 24-Feb-20

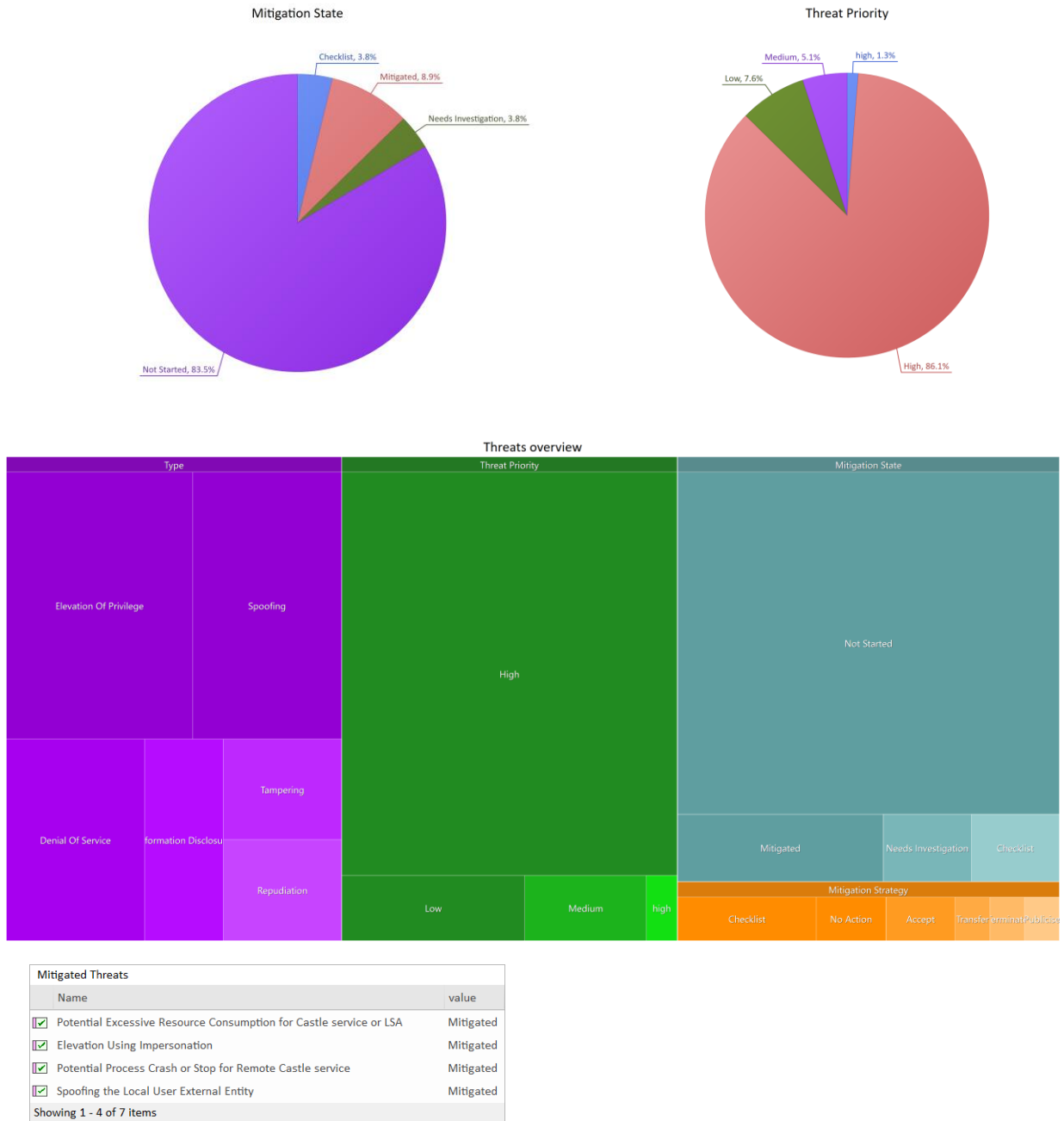


Figure 1: Dashboard

2 Context

Very high-level; entire component / product / system

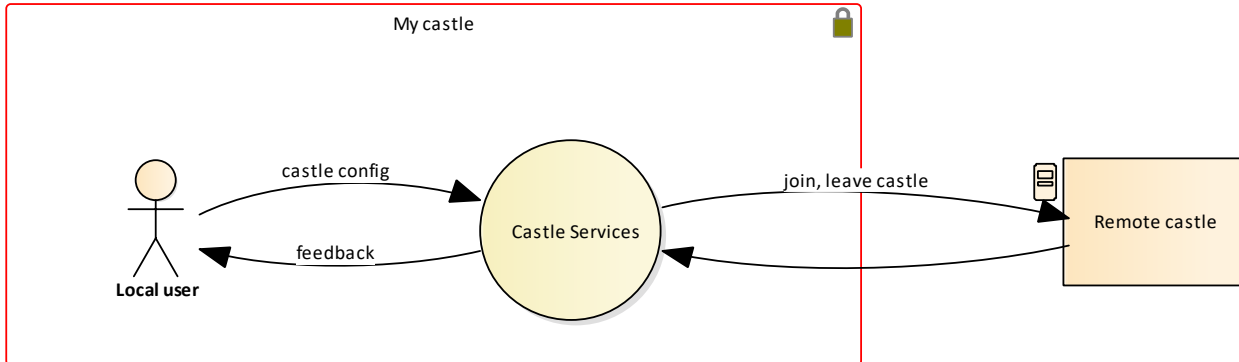


Figure 1: Diagram "Context"

Name	Description
Castle Services	Services provided by my castle to the others.
Local user	Is one whose username and encrypted password are stored on the computer itself. When you log in as a local user, the computer checks its own list of users and its own password file to see if you are allowed to log into the computer.
Remote castle	The other castle
My castle	

Table 1: List of diagram elements of Context diagram

3 Threat List Context

3.1 THRT72 - Castle services May be Subject to Elevation of Privilege Using Remote Code Execution (Threat)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Needs Investigation

Remote castle may be able to remotely execute code for Castle services.

- > Threatens Castle Services (Process)
- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Remote castle (External System)

3.2 THRT73 - Data Flow Generic Data Flow Is Potentially Interrupted (Threat)

- ◆ **Type:** Denial Of Service
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Checklist

An external agent interrupts data flowing across a trust boundary in either direction.

- > Threatens Castle Services (Process)
- > Threatens Remote castle (External System)
- > Threatens Denial of Service (Mitigation Checklist)
- > Threatens ProxyConnector (ProxyConnector)

3.3 THRT79 - Data Flow join, leave castle Is Potentially Interrupted (Threat)

- ◆ **Type:** Denial Of Service
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

An external agent interrupts data flowing across a trust boundary in either direction.

- > Threatens Remote castle (External System)
- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Castle Services (Process)

3.4 THRT75 - Data Flow Sniffing (Threat)

- ◆ **Type:** Information Disclosure
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started
- ◆ **Mitigation Strategy:** Accept

Data flowing across Generic Data Flow may be sniffed by an attacker. Depending on what type of data an attacker can read, it may be used to attack other parts of the system or simply be a disclosure of information leading to compliance violations. Consider encrypting the data flow.

- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Remote castle (External System)
- > Threatens Castle Services (Process)

3.5 THRT71 - Elevation by Changing the Execution Flow in Castle services (Threat)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

An attacker may pass data into Castle services in order to change the flow of program execution within Castle services to the attacker's choosing.

- > Threatens Castle Services (Process)
- > Threatens Remote castle (External System)
- > Threatens ProxyConnector (ProxyConnector)

3.6 THRT66 - Elevation Using Impersonation (Threat)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Castle services may be able to impersonate the context of Local User in order to gain additional privilege.

- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Local user (Human Actor)
- > Threatens Castle Services (Process)

3.7 THRT69 - Elevation Using Impersonation (Threat)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Castle services may be able to impersonate the context of Remote castle in order to gain additional privilege.

- > Threatens Castle Services (Process)
- > Threatens Remote castle (External System)
- > Threatens ProxyConnector (ProxyConnector)

3.8 THRT80 - External Entity Remote castle Potentially Denies Receiving Data (Threat)

- ◆ **Type:** Repudiation
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Mitigated
- ◆ **Mitigation Strategy:** Checklist

Remote castle claims that it did not receive data from a process on the other side of the trust boundary. Consider using logging or auditing to record the source, time, and summary of the received data.

- Threatens Remote castle (External System)
- Threatens Repudiation (Mitigation Checklist)
- Threatens ProxyConnector (ProxyConnector)
- Threatens Castle Services (Process)

3.9 THRT76 - Potential Data Repudiation by Castle services (Threat)

- ◆ **Type:** Repudiation
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Castle services claims that it did not receive data from a source outside the trust boundary. Consider using logging or auditing to record the source, time, and summary of the received data.

- Threatens ProxyConnector (ProxyConnector)
- Threatens Castle Services (Process)
- Threatens Remote castle (External System)

3.10 THRT77 - Potential Lack of Input Validation for Castle services (Threat)

- ◆ **Type:** Tampering
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Data flowing across Generic Data Flow may be tampered with by an attacker. This may lead to a denial of service attack against Castle services or an elevation of privilege attack against Castle services or an information disclosure by Castle services. Failure to verify that input is as expected is a root cause of a very large number of exploitable issues. Consider all paths and the way they handle data. Verify that all input is verified for correctness using an approved list input validation approach.

- Threatens Remote castle (External System)
- Threatens Castle Services (Process)
- Threatens ProxyConnector (ProxyConnector)

3.11 THRT74 - Potential Process Crash or Stop for Castle services (Threat)

- ◆ **Type:** Denial Of Service
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Castle services crashes, halts, stops or runs slowly; in all cases violating an availability metric.

- Threatens ProxyConnector (ProxyConnector)
- Threatens Remote castle (External System)
- Threatens Castle Services (Process)

3.12 THRT81 - Spoofing of the Remote castle External Destination Entity (Threat)

- ◆ **Type:** Spoofing
- ◆ **Threat Priority:** High

🔗 **Mitigation State:** Needs Investigation

Remote castle may be spoofed by an attacker and this may lead to data being sent to the attacker's target instead of Remote castle. Consider using a standard authentication mechanism to identify the external entity.

--> Threatens ProxyConnector (*ProxyConnector*)

--> Threatens Castle Services (*Process*)

--> Threatens Remote castle (*External System*)

3.13 THRT78 - Spoofing the Castle services Process (*Threat*)

🔗 **Type:** Spoofing

🔗 **Threat Priority:** High

🔗 **Mitigation State:** Mitigated

🔗 **Mitigation Strategy:** Transfer

Castle services may be spoofed by an attacker and this may lead to information disclosure by Remote castle. Consider using a standard authentication mechanism to identify the destination process.

--> Threatens Castle Services (*Process*)

--> Threatens ProxyConnector (*ProxyConnector*)

--> Threatens Remote castle (*External System*)

3.14 THRT67 - Spoofing the Local User External Entity (*Threat*)

🔗 **Type:** Spoofing

🔗 **Threat Priority:** High

🔗 **Mitigation State:** Mitigated

🔗 **Mitigation Strategy:** Accept

Local User may be spoofed by an attacker and this may lead to unauthorized access to Castle services. Consider using a standard authentication mechanism to identify the external entity.

--> Threatens ProxyConnector (*ProxyConnector*)

--> Threatens Castle Services (*Process*)

--> Threatens Local user (*Human Actor*)

3.15 THRT68 - Spoofing the Remote castle External Entity (*Threat*)

🔗 **Type:** Spoofing

🔗 **Threat Priority:** High

🔗 **Mitigation State:** Mitigated

🔗 **Mitigation Strategy:** No Action

Remote castle may be spoofed by an attacker and this may lead to unauthorized access to Castle services. Consider using a standard authentication mechanism to identify the external entity.

--> Threatens Remote castle (*External System*)

--> Threatens Castle Services (*Process*)

--> Threatens ProxyConnector (*ProxyConnector*)

4 Level 1

High level; single feature / scenario

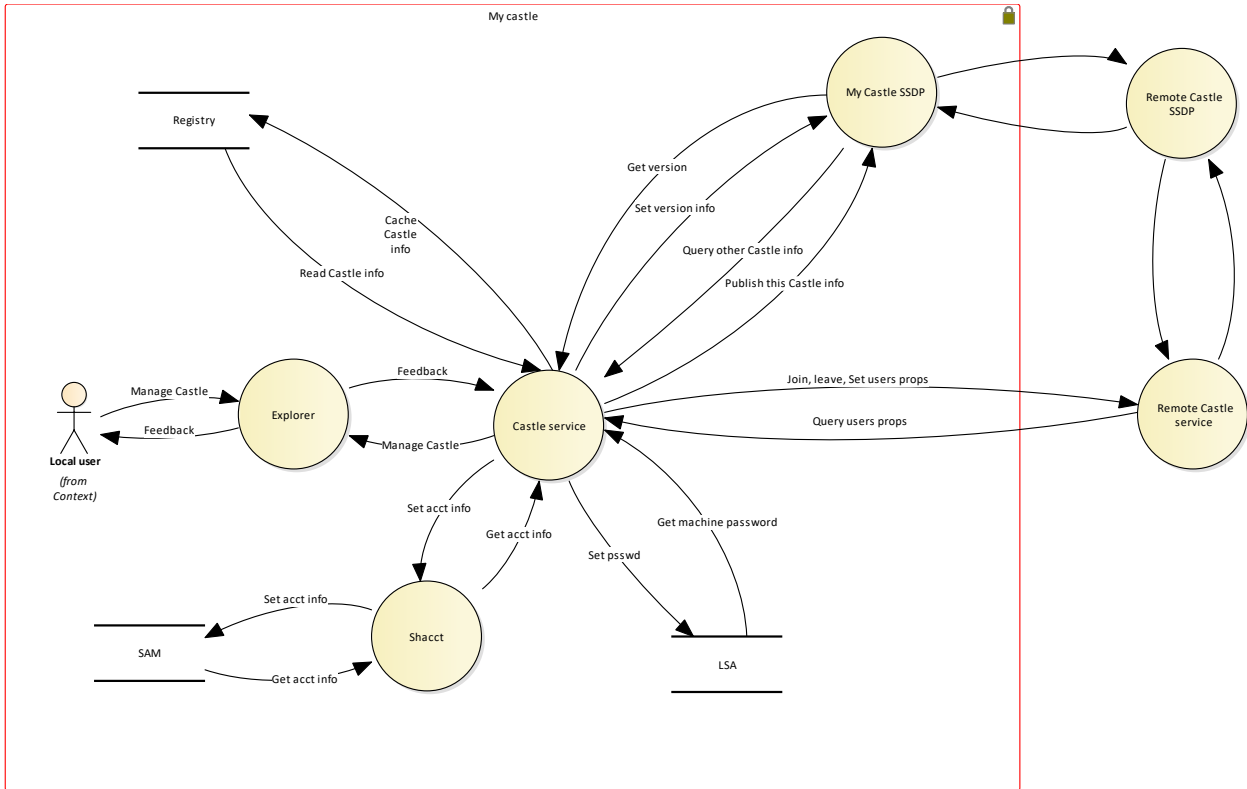


Figure 2: Diagram "Level 1"

Name	Description
Local user	Is one whose username and encrypted password are stored on the computer itself. When you log in as a local user, the computer checks its own list of users and its own password file to see if you are allowed to log into the computer.
My castle	
Castle service	My castle service
Explorer	Windows Program Manager or Windows Explorer. It manages the Windows Graphical Shell including the Start menu, taskbar, desktop, and File Manager.
My Castle SSDP	SSDP Discovery access and hosts messages for the SSDP Discovery Tool, which is part of Microsoft Windows operating systems. It listens for and discovers devices on a network that utilize SSDP discovery protocol.
Remote Castle service	The external service
Remote Castle SSDP	SSDP Discovery access and hosts messages for the SSDP Discovery Tool, which is part of Microsoft Windows operating systems. It listens for and discovers devices on a network that utilize SSDP discovery protocol.
Shacct	shacct.dll is a module belonging to Microsoft® Windows® Operating System from Microsoft Corporation.
LSA	The LSA stores local security policy information in a set of objects. Your application can query or edit the local security policy by accessing these objects.
Registry	The Windows Registry is a hierarchical database that stores low-level settings for the Microsoft Windows operating system and for applications that opt to use the registry. The kernel, device drivers, services, Security Accounts Manager, and user interface can all use the registry. The registry also allows access to counters for profiling system performance.
SAM	The Security Account Manager (SAM) is a database file in Windows XP, Windows Vista, Windows 7, 8.1 and 10 that stores users' passwords. It can be used to authenticate local and remote users.

Table 2: List of diagram elements of Level 1 diagram

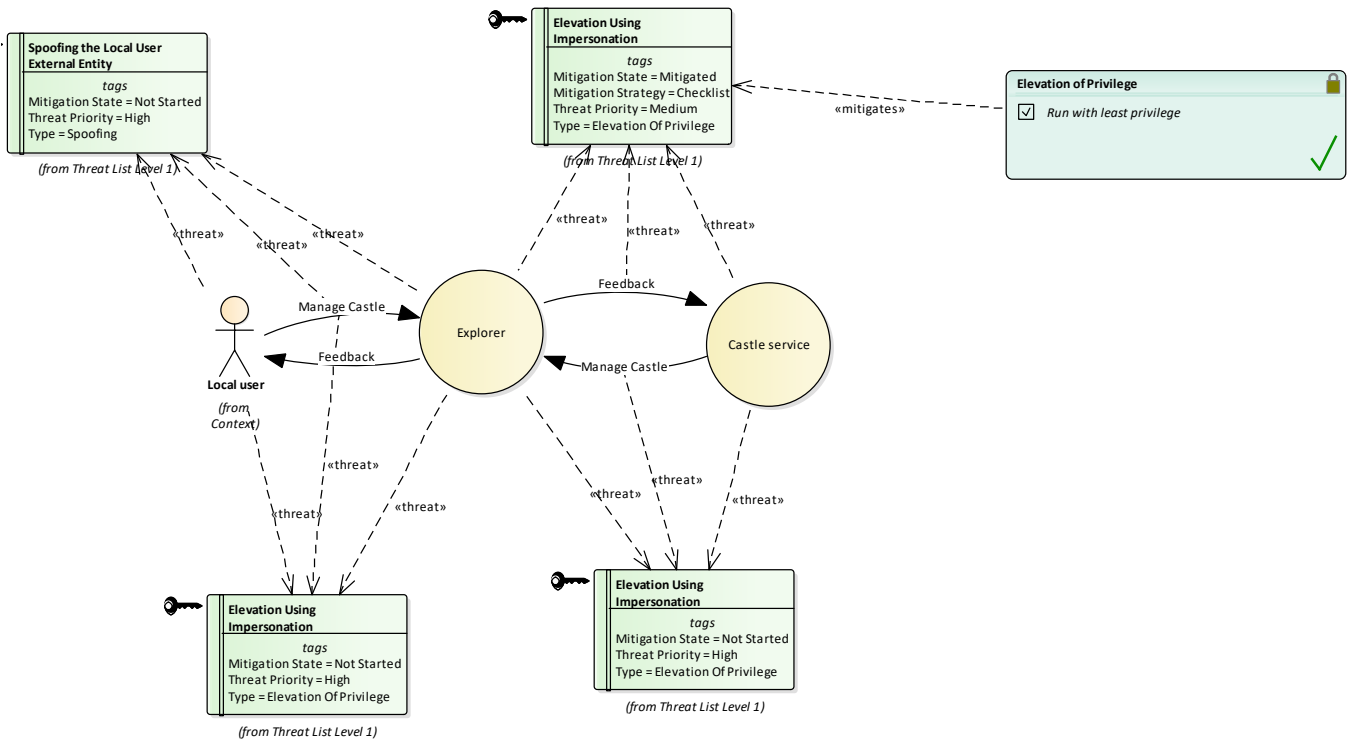


Figure 3: Diagram "Manage castle"

Name	Description
Local user	Is one whose username and encrypted password are stored on the computer itself. When you log in as a local user, the computer checks its own list of users and its own password file to see if you are allowed to log into the computer.
Castle service	My castle service
Explorer	Windows Program Manager or Windows Explorer. It manages the Windows Graphical Shell including the Start menu, taskbar, desktop, and File Manager.
Elevation of Privilege	
Elevation Using Impersonation	Explorer may be able to impersonate the context of Local User in order to gain additional privilege.
Elevation Using Impersonation	Explorer may be able to impersonate the context of Castle service in order to gain additional privilege.
Elevation Using Impersonation	Castle service may be able to impersonate the context of Explorer in order to gain additional privilege.
Spoofing the Local User External Entity	Local User may be spoofed by an attacker and this may lead to unauthorized access to Explorer. Consider using a standard authentication mechanism to identify the external entity.

Table 3: List of diagram elements of Manage castle diagram

5 Threat List Level 1

5.1 THRT40 - Castle service May be Subject to Elevation of Privilege Using Remote Code Execution (Threat)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Needs Investigation

Remote Castle service may be able to remotely execute code for Castle service.

- > Threatens Castle service (Process)
- > Threatens ProxyConnector (ProxyConnector)

--> Threatens Remote Castle service (Process)

5.2 THRT61 - Castle service Process Memory Tampered (Threat)

- ◆ **Type:** Tampering
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

If Castle service is given access to memory, such as shared memory or pointers, or is given the ability to control what Shacct executes (for example, passing back a function pointer.), then Castle service can tamper with Shacct. Consider if the function could work with less access to memory, such as passing data rather than pointers. Copy in data provided, and then validate it.

- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Castle service (Process)
- > Threatens Shacct (Process)

5.3 THRT48 - Data Flow Generic Data Flow Is Potentially Interrupted (Threat)

- ◆ **Type:** Denial Of Service
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

An external agent interrupts data flowing across a trust boundary in either direction.

- > Threatens My Castle SSDP (Process)
- > Threatens Remote Castle SSDP (Process)
- > Threatens ProxyConnector (ProxyConnector)

5.4 THRT57 - Data Flow Generic Data Flow Is Potentially Interrupted (Threat)

- ◆ **Type:** Denial Of Service
- ◆ **Threat Priority:** Low
- ◆ **Mitigation State:** Not Started

An external agent interrupts data flowing across a trust boundary in either direction.

- > Threatens My Castle SSDP (Process)
- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Remote Castle SSDP (Process)

5.5 THRT30 - Data Flow Join, leave, Set users props Is Potentially Interrupted (Threat)

- ◆ **Type:** Denial Of Service
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

An external agent interrupts data flowing across a trust boundary in either direction.

- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Remote Castle service (Process)
- > Threatens Castle service (Process)

5.6 THRT39 - Data Flow Query users props Is Potentially Interrupted (Threat)

- ◆ **Type:** Denial Of Service
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

An external agent interrupts data flowing across a trust boundary in either direction.

- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Remote Castle service (Process)
- > Threatens Castle service (Process)

5.7 THRT28 - Data Flow Sniffing (Threat)

- ◆ **Type:** Information Disclosure
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Data flowing across Join, leave, Set users props may be sniffed by an attacker. Depending on what type of data an attacker can read, it may be used to attack other parts of the system or simply be a disclosure of information leading to compliance violations. Consider encrypting the data flow.

- > Threatens Remote Castle service (Process)
- > Threatens Castle service (Process)
- > Threatens ProxyConnector (ProxyConnector)

5.8 THRT37 - Data Flow Sniffing (Threat)

- ◆ **Type:** Information Disclosure
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Data flowing across Query users props may be sniffed by an attacker. Depending on what type of data an attacker can read, it may be used to attack other parts of the system or simply be a disclosure of information leading to compliance violations. Consider encrypting the data flow.

- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Castle service (Process)
- > Threatens Remote Castle service (Process)

5.9 THRT46 - Data Flow Sniffing (Threat)

- ◆ **Type:** Information Disclosure
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Data flowing across Generic Data Flow may be sniffed by an attacker. Depending on what type of data an attacker can read, it may be used to attack other parts of the system or simply be a disclosure of information leading to compliance violations. Consider encrypting the data flow.

- > Threatens Remote Castle SSDP (Process)
- > Threatens My Castle SSDP (Process)
- > Threatens ProxyConnector (ProxyConnector)

5.10 THRT55 - Data Flow Sniffing (Threat)

- ◆ **Type:** Information Disclosure
- ◆ **Threat Priority:** Medium
- ◆ **Mitigation State:** Not Started

Data flowing across Generic Data Flow may be sniffed by an attacker. Depending on what type of data an attacker can read, it may be used to attack other parts of the system or simply be a disclosure of information leading to compliance violations. Consider encrypting the data flow.

- > Threatens My Castle SSDP (Process)
- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Remote Castle SSDP (Process)

5.11 THRT41 - Elevation by Changing the Execution Flow in Castle service (Threat)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** Low
- ◆ **Mitigation State:** Not Started

An attacker may pass data into Castle service in order to change the flow of program execution within Castle service to the attacker's choosing.

- > Threatens Remote Castle service (Process)
- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Castle service (Process)

5.12 THRT59 - Elevation by Changing the Execution Flow in My castle SSDP (*Threat*)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** Low
- ◆ **Mitigation State:** Checklist

An attacker may pass data into My castle SSDP in order to change the flow of program execution within My castle SSDP to the attacker's choosing.

- > Threatens Remote Castle SSDP (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens My Castle SSDP (*Process*)

5.13 THRT32 - Elevation by Changing the Execution Flow in Remote Castle service (*Threat*)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** Low
- ◆ **Mitigation State:** Not Started

An attacker may pass data into Remote Castle service in order to change the flow of program execution within Remote Castle service to the attacker's choosing.

- > Threatens Remote Castle service (*Process*)
- > Threatens Castle service (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)

5.14 THRT50 - Elevation by Changing the Execution Flow in Remote castle SSDP (*Threat*)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

An attacker may pass data into Remote castle SSDP in order to change the flow of program execution within Remote castle SSDP to the attacker's choosing.

- > Threatens My Castle SSDP (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens Remote Castle SSDP (*Process*)

5.15 THRT02 - Elevation Using Impersonation (*Threat*)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Explorer may be able to impersonate the context of Local User in order to gain additional privilege.

- > Threatens Local user (*Human Actor*)
- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens Explorer (*Process*)

5.16 THRT11 - Elevation Using Impersonation (*Threat*)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Explorer may be able to impersonate the context of Castle service in order to gain additional privilege.

- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens Explorer (*Process*)
- > Threatens Castle service (*Process*)

5.17 THRT12 - Elevation Using Impersonation (*Threat*)

- ◆ **Type:** Elevation Of Privilege

- 🔗 **Threat Priority:** Medium
- 🔗 **Mitigation State:** Mitigated
- 🔗 **Mitigation Strategy:** Checklist

Castle service may be able to impersonate the context of Explorer in order to gain additional privilege.

- > Threatens Castle service (*Process*)
- > Threatens Elevation of Privilege (*Mitigation Checklist*)
- > Threatens Explorer (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)

5.18 THRT17 - Elevation Using Impersonation (*Threat*)

- 🔗 **Type:** Elevation Of Privilege
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started

My castle SSDP may be able to impersonate the context of Castle service in order to gain additional privilege.

- > Threatens Castle service (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens My Castle SSDP (*Process*)

5.19 THRT18 - Elevation Using Impersonation (*Threat*)

- 🔗 **Type:** Elevation Of Privilege
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started

My castle SSDP may be able to impersonate the context of Castle service in order to gain additional privilege.

- > Threatens Castle service (*Process*)
- > Threatens My Castle SSDP (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)

5.20 THRT19 - Elevation Using Impersonation (*Threat*)

- 🔗 **Type:** Elevation Of Privilege
- 🔗 **Threat Priority:** Low
- 🔗 **Mitigation State:** Not Started

Castle service may be able to impersonate the context of My castle SSDP in order to gain additional privilege.

- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens Castle service (*Process*)
- > Threatens My Castle SSDP (*Process*)

5.21 THRT20 - Elevation Using Impersonation (*Threat*)

- 🔗 **Type:** Elevation Of Privilege
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started

Castle service may be able to impersonate the context of My castle SSDP in order to gain additional privilege.

- > Threatens Castle service (*Process*)
- > Threatens My Castle SSDP (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)

5.22 THRT22 - Elevation Using Impersonation (*Threat*)

- 🔗 **Type:** Elevation Of Privilege
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started

Remote Castle service may be able to impersonate the context of Castle service in order to gain additional privilege.

- > Threatens Castle service (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens Remote Castle service (*Process*)

5.23 THRT23 - Elevation Using Impersonation (*Threat*)

- 🔗 **Type:** Elevation Of Privilege
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started

Castle service may be able to impersonate the context of Remote Castle service in order to gain additional privilege.

- > Threatens Castle service (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens Remote Castle service (*Process*)

5.24 THRT24 - Elevation Using Impersonation (*Threat*)

- 🔗 **Type:** Elevation Of Privilege
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started

Remote castle SSDP may be able to impersonate the context of My castle SSDP in order to gain additional privilege.

- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens Remote Castle SSDP (*Process*)
- > Threatens My Castle SSDP (*Process*)

5.25 THRT25 - Elevation Using Impersonation (*Threat*)

- 🔗 **Type:** Elevation Of Privilege
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started

My castle SSDP may be able to impersonate the context of Remote castle SSDP in order to gain additional privilege.

- > Threatens My Castle SSDP (*Process*)
- > Threatens Remote Castle SSDP (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)

5.26 THRT60 - Elevation Using Impersonation (*Threat*)

- 🔗 **Type:** Elevation Of Privilege
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started
- 🔗 **Mitigation Strategy:** Publicise

Shacct may be able to impersonate the context of Castle service in order to gain additional privilege.

- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens Shacct (*Process*)
- > Threatens Castle service (*Process*)

5.27 THRT62 - Elevation Using Impersonation (*Threat*)

- 🔗 **Type:** Elevation Of Privilege
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started

Castle service may be able to impersonate the context of Shacct in order to gain additional privilege.

- > Threatens Shacct (*Process*)
- > Threatens Castle service (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)

5.28 THRT58 - My castle SSDP May be Subject to Elevation of Privilege Using Remote Code Execution (*Threat*)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Remote castle SSDP may be able to remotely execute code for My castle SSDP.

- > Threatens My Castle SSDP (Process)
- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Remote Castle SSDP (Process)

5.29 THRT36 - Potential Data Repudiation by Castle service (Threat)

- ◆ **Type:** Repudiation
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Castle service claims that it did not receive data from a source outside the trust boundary. Consider using logging or auditing to record the source, time, and summary of the received data.

- > Threatens Castle service (Process)
- > Threatens Remote Castle service (Process)
- > Threatens ProxyConnector (ProxyConnector)

5.30 THRT54 - Potential Data Repudiation by My castle SSDP (Threat)

- ◆ **Type:** Repudiation
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

My castle SSDP claims that it did not receive data from a source outside the trust boundary. Consider using logging or auditing to record the source, time, and summary of the received data.

- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Remote Castle SSDP (Process)
- > Threatens My Castle SSDP (Process)

5.31 THRT28 - Potential Data Repudiation by Remote Castle service (Threat)

- ◆ **Type:** Repudiation
- ◆ **Threat Priority:** Low
- ◆ **Mitigation State:** Not Started

Remote Castle service claims that it did not receive data from a source outside the trust boundary. Consider using logging or auditing to record the source, time, and summary of the received data.

- > Threatens Remote Castle service (Process)
- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Castle service (Process)

5.32 THRT45 - Potential Data Repudiation by Remote castle SSDP (Threat)

- ◆ **Type:** Repudiation
- ◆ **Threat Priority:** Medium
- ◆ **Mitigation State:** Not Started

Remote castle SSDP claims that it did not receive data from a source outside the trust boundary. Consider using logging or auditing to record the source, time, and summary of the received data.

- > Threatens My Castle SSDP (Process)
- > Threatens Remote Castle SSDP (Process)
- > Threatens ProxyConnector (ProxyConnector)

5.33 THRT09 - Potential Excessive Resource Consumption for Castle service or LSA (Threat)

- ◆ **Type:** Denial Of Service
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Mitigated

Does Castle service or LSA take explicit steps to control resource consumption? Resource consumption attacks can be hard to deal with, and there are times that it makes sense to let the OS do the job. Be careful that your resource requests don't deadlock, and that they do timeout.

- > Threatens ProxyConnector (ProxyConnector)
- > Threatens LSA (Data Store)
- > Threatens Castle service (Process)

5.34 THRT14 - Potential Excessive Resource Consumption for Castle service or Registry (Threat)

- ◆ **Type:** Denial Of Service
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started
- ◆ **Mitigation Strategy:** Terminate

Does Castle service or Registry take explicit steps to control resource consumption? Resource consumption attacks can be hard to deal with, and there are times that it makes sense to let the OS do the job. Be careful that your resource requests don't deadlock, and that they do timeout.

- > Threatens Registry (Data Store)
- > Threatens Castle service (Process)
- > Threatens ProxyConnector (ProxyConnector)

5.35 THRT06 - Potential Excessive Resource Consumption for Shacct or SAM (Threat)

- ◆ **Type:** Denial Of Service
- ◆ **Threat Priority:** Medium
- ◆ **Mitigation State:** Not Started

Does Shacct or SAM take explicit steps to control resource consumption? Resource consumption attacks can be hard to deal with, and there are times that it makes sense to let the OS do the job. Be careful that your resource requests don't deadlock, and that they do timeout.

- > Threatens SAM (Data Store)
- > Threatens Shacct (Process)
- > Threatens ProxyConnector (ProxyConnector)

5.36 THRT35 - Potential Lack of Input Validation for Castle service (Threat)

- ◆ **Type:** Tampering
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Data flowing across Query users props may be tampered with by an attacker. This may lead to a denial of service attack against Castle service or an elevation of privilege attack against Castle service or an information disclosure by Castle service. Failure to verify that input is as expected is a root cause of a very large number of exploitable issues. Consider all paths and the way they handle data. Verify that all input is verified for correctness using an approved list input validation approach.

- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Castle service (Process)
- > Threatens Remote Castle service (Process)

5.37 THRT53 - Potential Lack of Input Validation for My castle SSDP (Threat)

- ◆ **Type:** Tampering
- ◆ **Threat Priority:** High

🔗 **Mitigation State:** Not Started

Data flowing across Generic Data Flow may be tampered with by an attacker. This may lead to a denial of service attack against My castle SSDP or an elevation of privilege attack against My castle SSDP or an information disclosure by My castle SSDP. Failure to verify that input is as expected is a root cause of a very large number of exploitable issues. Consider all paths and the way they handle data. Verify that all input is verified for correctness using an approved list input validation approach.

- > Threatens My Castle SSDP (Process)
- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Remote Castle SSDP (Process)

5.38 THRT27 - Potential Lack of Input Validation for Remote Castle service (Threat)

🔗 **Type:** Tampering
 🔗 **Threat Priority:** High
 🔗 **Mitigation State:** Not Started

Data flowing across Join, leave, Set users props may be tampered with by an attacker. This may lead to a denial of service attack against Remote Castle service or an elevation of privilege attack against Remote Castle service or an information disclosure by Remote Castle service. Failure to verify that input is as expected is a root cause of a very large number of exploitable issues. Consider all paths and the way they handle data. Verify that all input is verified for correctness using an approved list input validation approach.

- > Threatens Castle service (Process)
- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Remote Castle service (Process)

5.39 THRT44 - Potential Lack of Input Validation for Remote castle SSDP (Threat)

🔗 **Type:** Tampering
 🔗 **Threat Priority:** High
 🔗 **Mitigation State:** Not Started
 🔗 **Mitigation Strategy:** Checklist

Data flowing across Generic Data Flow may be tampered with by an attacker. This may lead to a denial of service attack against Remote castle SSDP or an elevation of privilege attack against Remote castle SSDP or an information disclosure by Remote castle SSDP. Failure to verify that input is as expected is a root cause of a very large number of exploitable issues. Consider all paths and the way they handle data. Verify that all input is verified for correctness using an approved list input validation approach.

- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Remote Castle SSDP (Process)
- > Threatens My Castle SSDP (Process)

5.40 THRT38 - Potential Process Crash or Stop for Castle service (Threat)

🔗 **Type:** Denial Of Service
 🔗 **Threat Priority:** High
 🔗 **Mitigation State:** Not Started

Castle service crashes, halts, stops or runs slowly; in all cases violating an availability metric.

- > Threatens Remote Castle service (Process)
- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Castle service (Process)

5.41 THRT56 - Potential Process Crash or Stop for My castle SSDP (Threat)

🔗 **Type:** Denial Of Service

- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

My castle SSDP crashes, halts, stops or runs slowly; in all cases violating an availability metric.

- > Threatens My Castle SSDP (*Process*)
- > Threatens Remote Castle SSDP (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)

5.42 THRT29 - Potential Process Crash or Stop for Remote Castle service (*Threat*)

- ◆ **Type:** Denial Of Service
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Mitigated
- ◆ **Mitigation Strategy:** No Action

Remote Castle service crashes, halts, stops or runs slowly; in all cases violating an availability metric.

- > Threatens Remote Castle service (*Process*)
- > Threatens Castle service (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)

5.43 THRT47 - Potential Process Crash or Stop for Remote castle SSDP (*Threat*)

- ◆ **Type:** Denial Of Service
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Remote castle SSDP crashes, halts, stops or runs slowly; in all cases violating an availability metric.

- > Threatens Remote Castle SSDP (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens My Castle SSDP (*Process*)

5.44 THRT31 - Remote Castle service May be Subject to Elevation of Privilege Using Remote Code Execution (*Threat*)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Castle service may be able to remotely execute code for Remote Castle service.

- > Threatens Castle service (*Process*)
- > Threatens Remote Castle service (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)

5.45 THRT49 - Remote castle SSDP May be Subject to Elevation of Privilege Using Remote Code Execution (*Threat*)

- ◆ **Type:** Elevation Of Privilege
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

My castle SSDP may be able to remotely execute code for Remote castle SSDP.

- > Threatens My Castle SSDP (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens Remote Castle SSDP (*Process*)

5.46 THRT10 - Spoofing of Destination Data Store LSA (*Threat*)

- ◆ **Type:** Spoofing
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

LSA may be spoofed by an attacker and this may lead to data being written to the attacker's target instead of LSA. Consider using a standard authentication mechanism to identify the destination data store.

- Threatens LSA (Data Store)
- Threatens ProxyConnector (ProxyConnector)
- Threatens Castle service (Process)

5.47 THRT13 - Spoofing of Destination Data Store Registry (Threat)

- ◆ **Type:** Spoofing
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Registry may be spoofed by an attacker and this may lead to data being written to the attacker's target instead of Registry. Consider using a standard authentication mechanism to identify the destination data store.

- Threatens Castle service (Process)
- Threatens ProxyConnector (ProxyConnector)
- Threatens Registry (Data Store)

5.48 THRT05 - Spoofing of Destination Data Store SAM (Threat)

- ◆ **Type:** Spoofing
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

SAM may be spoofed by an attacker and this may lead to data being written to the attacker's target instead of SAM. Consider using a standard authentication mechanism to identify the destination data store.

- Threatens ProxyConnector (ProxyConnector)
- Threatens Shacct (Process)
- Threatens SAM (Data Store)

5.49 THRT07 - Spoofing of Source Data Store LSA (Threat)

- ◆ **Type:** Spoofing
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

LSA may be spoofed by an attacker and this may lead to incorrect data delivered to Castle service. Consider using a standard authentication mechanism to identify the source data store.

- Threatens ProxyConnector (ProxyConnector)
- Threatens LSA (Data Store)
- Threatens Castle service (Process)

5.50 THRT15 - Spoofing of Source Data Store Registry (Threat)

- ◆ **Type:** Spoofing
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Registry may be spoofed by an attacker and this may lead to incorrect data delivered to Castle service. Consider using a standard authentication mechanism to identify the source data store.

- Threatens ProxyConnector (ProxyConnector)
- Threatens Castle service (Process)
- Threatens Registry (Data Store)

5.51 THRT04 - Spoofing of Source Data Store SAM (Threat)

- ◆ **Type:** Spoofing
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

SAM may be spoofed by an attacker and this may lead to incorrect data delivered to Shacct. Consider using a standard authentication mechanism to identify the source data store.

- > Threatens SAM (*Data Store*)
- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens Shacct (*Process*)

5.52 THRT25 - Spoofing the Castle service Process (*Threat*)

- 🔗 **Type:** Spoofing
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started

Castle service may be spoofed by an attacker and this may lead to unauthorized access to Remote Castle service. Consider using a standard authentication mechanism to identify the source process.

- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens Castle service (*Process*)
- > Threatens Remote Castle service (*Process*)

5.53 THRT34 - Spoofing the Castle service Process (*Threat*)

- 🔗 **Type:** Spoofing
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started

Castle service may be spoofed by an attacker and this may lead to information disclosure by Remote Castle service. Consider using a standard authentication mechanism to identify the destination process.

- > Threatens Castle service (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens Remote Castle service (*Process*)

5.54 THRT01 - Spoofing the Local User External Entity (*Threat*)

- 🔗 **Type:** Spoofing
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started

Local User may be spoofed by an attacker and this may lead to unauthorized access to Explorer. Consider using a standard authentication mechanism to identify the external entity.

- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens Local user (*Human Actor*)
- > Threatens Explorer (*Process*)

5.55 THRT42 - Spoofing the My castle SSDP Process (*Threat*)

- 🔗 **Type:** Spoofing
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started

My castle SSDP may be spoofed by an attacker and this may lead to unauthorized access to Remote castle SSDP. Consider using a standard authentication mechanism to identify the source process.

- > Threatens Remote Castle SSDP (*Process*)
- > Threatens My Castle SSDP (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)

5.56 THRT52 - Spoofing the My castle SSDP Process (*Threat*)

- 🔗 **Type:** Spoofing
- 🔗 **Threat Priority:** High
- 🔗 **Mitigation State:** Not Started

My castle SSDP may be spoofed by an attacker and this may lead to information disclosure by Remote castle SSDP. Consider using a standard authentication mechanism to identify the destination process.

- > Threatens Remote Castle SSDP (*Process*)
- > Threatens ProxyConnector (*ProxyConnector*)
- > Threatens My Castle SSDP (*Process*)

5.57 THRT26 - Spoofing the Remote Castle service Process (*Threat*)

- 🔗 **Type:** Spoofing

- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Remote Castle service may be spoofed by an attacker and this may lead to information disclosure by Castle service. Consider using a standard authentication mechanism to identify the destination process.

- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Castle service (Process)
- > Threatens Remote Castle service (Process)

5.58 THRT33 - Spoofing the Remote Castle service Process (Threat)

- ◆ **Type:** Spoofing
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Remote Castle service may be spoofed by an attacker and this may lead to unauthorized access to Castle service. Consider using a standard authentication mechanism to identify the source process.

- > Threatens Remote Castle service (Process)
- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Castle service (Process)

5.59 THRT43 - Spoofing the Remote castle SSDP Process (Threat)

- ◆ **Type:** Spoofing
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Remote castle SSDP may be spoofed by an attacker and this may lead to information disclosure by My castle SSDP. Consider using a standard authentication mechanism to identify the destination process.

- > Threatens ProxyConnector (ProxyConnector)
- > Threatens Remote Castle SSDP (Process)
- > Threatens My Castle SSDP (Process)

5.60 THRT51 - Spoofing the Remote castle SSDP Process (Threat)

- ◆ **Type:** Spoofing
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Remote castle SSDP may be spoofed by an attacker and this may lead to unauthorized access to My castle SSDP. Consider using a standard authentication mechanism to identify the source process.

- > Threatens Remote Castle SSDP (Process)
- > Threatens My Castle SSDP (Process)
- > Threatens ProxyConnector (ProxyConnector)

5.61 THRT03 - Weak Access Control for a Resource (Threat)

- ◆ **Type:** Information Disclosure
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Improper data protection of SAM can allow an attacker to read information not intended for disclosure. Review authorization settings.

- > Threatens Shacct (Process)
- > Threatens SAM (Data Store)
- > Threatens ProxyConnector (ProxyConnector)

5.62 THRT08 - Weak Access Control for a Resource (Threat)

- ◆ **Type:** Information Disclosure
- ◆ **Threat Priority:** High
- ◆ **Mitigation State:** Not Started

Improper data protection of LSA can allow an attacker to read information not intended for disclosure. Review authorization settings.

- > Threatens Castle service (Process)

--> Threatens LSA (*Data Store*)

--> Threatens

5.63 THRT16 - Weak Access Control for a Resource (*Threat*)

🔍 **Type:** Information Disclosure

🔍 **Threat Priority:** High

🔍 **Mitigation State:** Not Started

Improper data protection of Registry can allow an attacker to read information not intended for disclosure. Review authorization settings.

--> Threatens Registry (*Data Store*)

--> Threatens Castle service (*Process*)

--> Threatens ProxyConnector (*ProxyConnector*)