

Aperi Directions for R0.5 – Single sign on and Launch In Context

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Agenda

- What is Single Sign on
- What is Launch In Context
- Launch
- Passing Parameters
- Framework

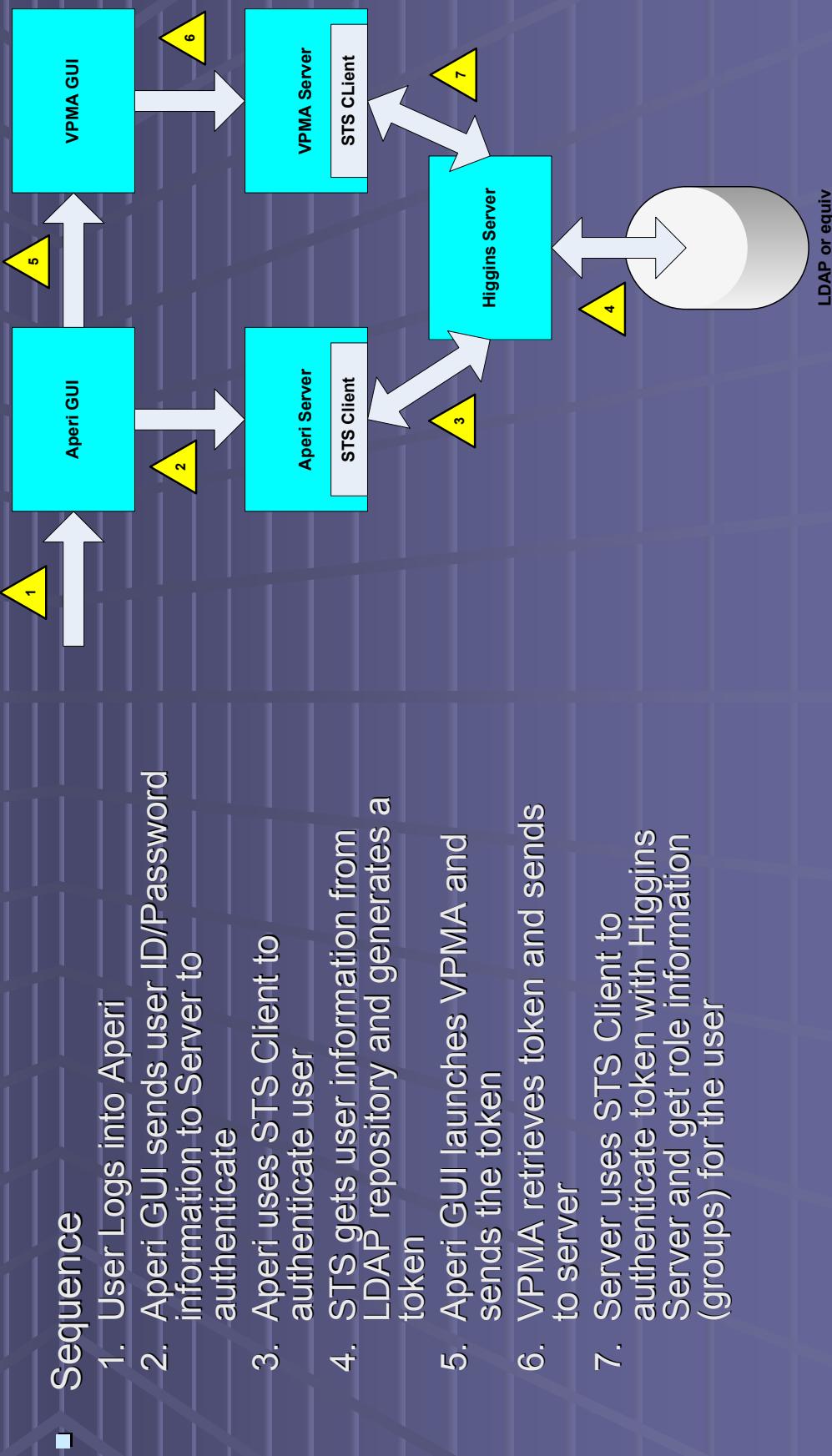
What is Launch In Context

- A way to integrate otherwise unrelated management applications
 - Producers: advertise capabilities
 - Consumers: integrate capabilities at key launch points
- Enables applications to leverage each others strengths
 - The SRM can invoke a Vendor Provided Management Application (VPMAs)
- Simplifies complex tasks for end user

Single Sign On

- Web
 - Basic Authentication (Web Browser)
 - User ID/Password ‘encoded’ in header
 - Form Authentication
 - Token Authentication
- Application
 - Pass On Command Line
 - Socket for Communication
- User Repository
 - Separate (Each Application authenticates to individual user store)
 - Central (All applications authenticate against common user store)

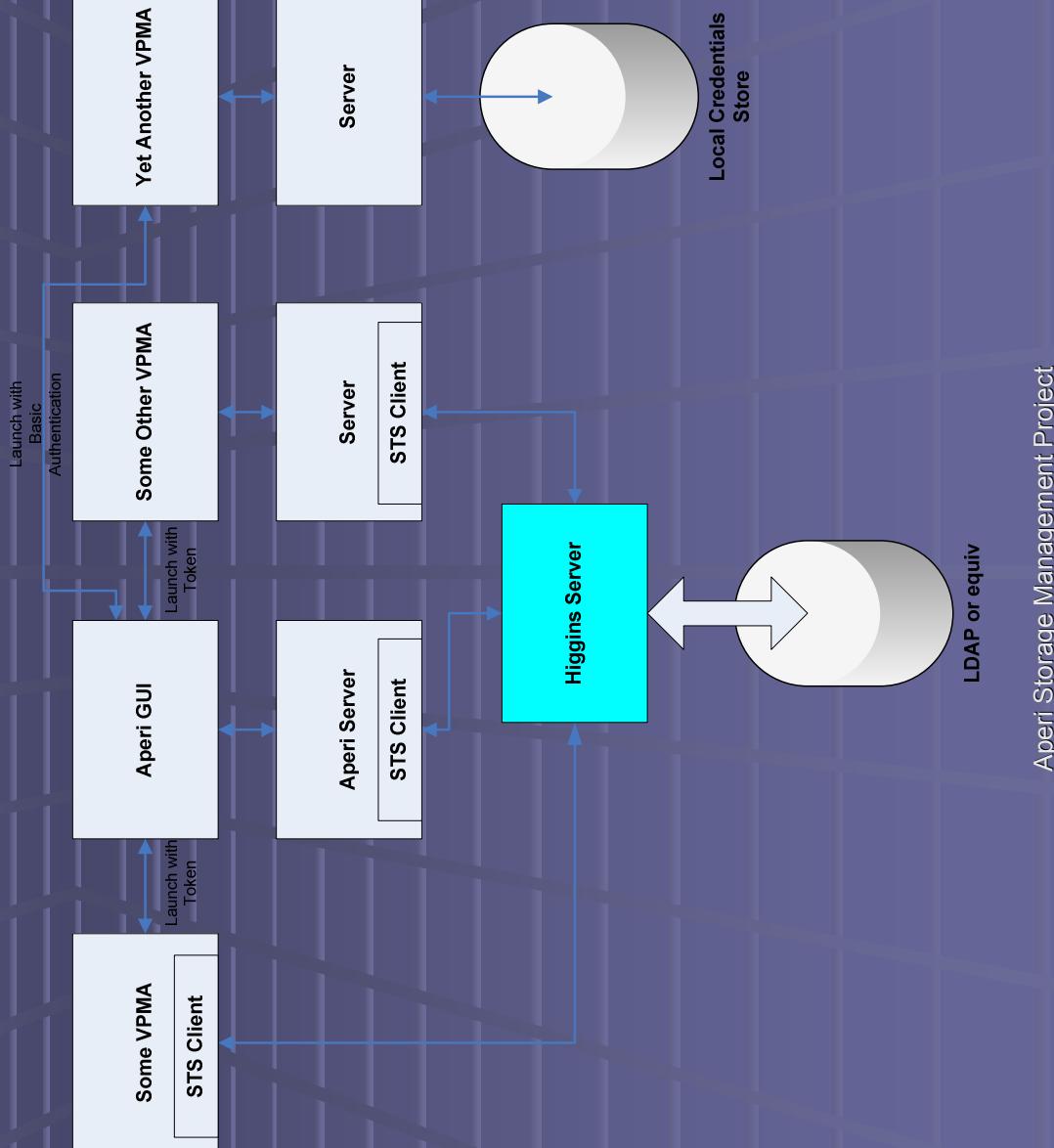
Single Sign On with STS Client



Security Service

- Common security service to
 - Authenticate userids and password
 - Encapsulate LDAP server
 - Token passed between applications
 - STS Tokens.
 - Provide User and Group information
 - Validate user – identify groups for user
- Future Enhancements
 - Authorization
 - Determine if function can be performed based on user Role
 - Audit logging
- Client
 - STS Client – Open Source client based on Higgins
 - See: http://wiki.eclipse.org/Security_Token_Service
 - What is Higgins? See: <http://www.eclipse.org/higgins/>

Higgins Environment



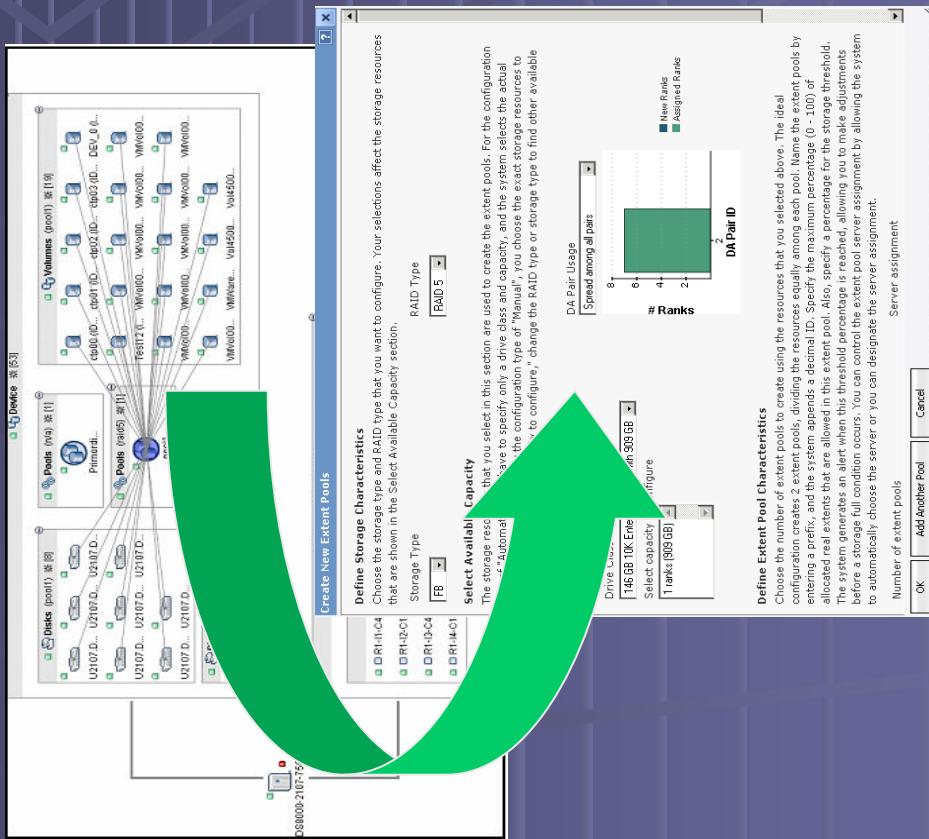
What is Launch In Context

- Launch
 - Select an Object, Open a Menu, Invoke an Application
- Single Sign On
 - Pass User Credentials to a Launched Application so user can bypass login dialogs
- Passing Parameters
 - Launch an Application and jump to a particular screen in the console based on the context
 - E.g. Launch to a 'Create Storage Pool' wizard for a subsystem

Launch In Context

Sequence

- Select device in Aperi Topology Viewer
- Select action (Create Storage Extent)
- Launch from Aperi to VPMA



- Launch Browser or Application
- Send user info to bypass challenge
- Navigate to panel

Resource Context

- Identification of the context described in Registration File
 - What type of Entity (Disk, Tape, Switch, etc.)
 - Properties of the Entity
 - Vendor starts with 'MyVendor'
 - Product contains 'MyProduct'
- When the user selects an Entity the registered launch points are checked to see which apply
 - Select an Entity
 - Apply registration descriptions to see if match launch context
 - Display the menu for the item
 - Launch the application
 - Install
 - Start
 - Pass Parameters

Launch Types

- Launch a Web Based Application (Browser)
 - External Browser Window
 - Embedded Browser Component
- Launch an Installed Application
- Install and Launch an Application
- Install and Launch a Java Web Start Application

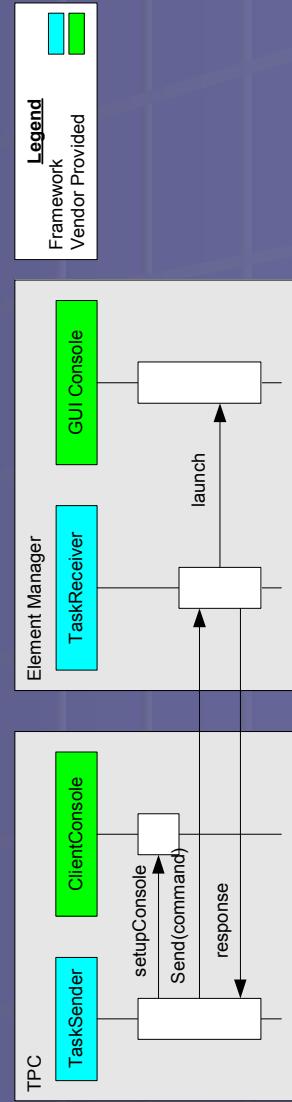
Launch In Context

Sending Parameters

- Registration File describes format of Launch command
- Launching a Web Application (URL)
 - Page for navigation and parameters for resource context
 - <http://<server>/launch.jsp?page=createPool&subSystem=21125>
- Launching an application
 - myApplication “page=createPool” “subsystem=21125”

Launching an Application

- Applications have unique issues:
 - Installation of application
 - Passing Info securely
- Launch In Context framework
 - TaskSender – framework that sends commands to clients
 - TaskReceiver – listens on socket for commands
 - ClientConsole – how to install, how to determine if running, how to call
 - GUI Console – the ‘real console’ code that does the actions



Complete Framework

