







Crossroads Design for

6.28.10 release

**(VisProactive Diameter)**

* **VisProactive Diameter [PR\_3629]**

Version 1.0

Issued: 08/12/2014



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Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Release Reason - Description of Changes | Author |
| 1.0 | 08/12/2014 | Initial Version | Marvin Li |

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# Introduction

## Purpose

The purpose of this document is to explain the design of VisProactive Diameter

## Definitions, Acronyms, and Abbreviations

Table 1; Terminology

| Acronyms and Abbreviations | Description |
| --- | --- |
| GUI | Graphical User Interface |
| CTP | Central Tables Provisioning |
| uid | unique identifier |
| ou | organizational unit (LDAP) |
| MDR | Mobile Data Roaming |

## Correction and Revisions

Please direct comments or suggestions for modification, preferably via email, to:

**Marvin Li**

**086-025-88037115**

[marvin.li@syniverse.com](mailto:marvin.li@syniverse.com)

# Software Design

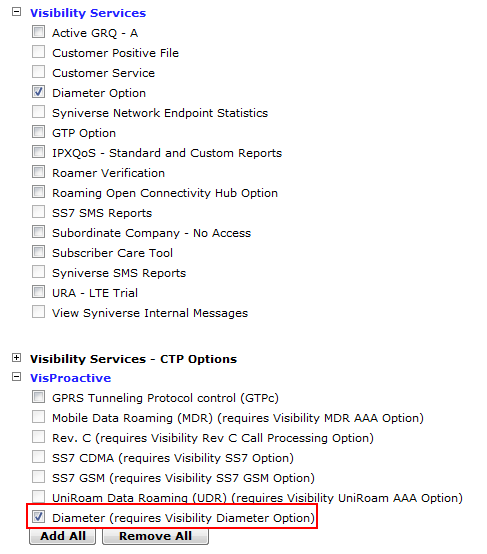
## High Level Design Details – Permission Level

## For Both Syniverse and Non Syniverse Company

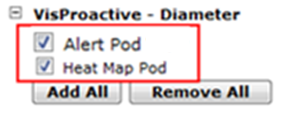
* **Company Permissions:**

**Diameter (requires Visibility Diameter Option)** is enabled only if **Diameter Option** is checked

And by default, the company permission **Diameter (requires Visibility Diameter Option)** is granted to Syniverse company

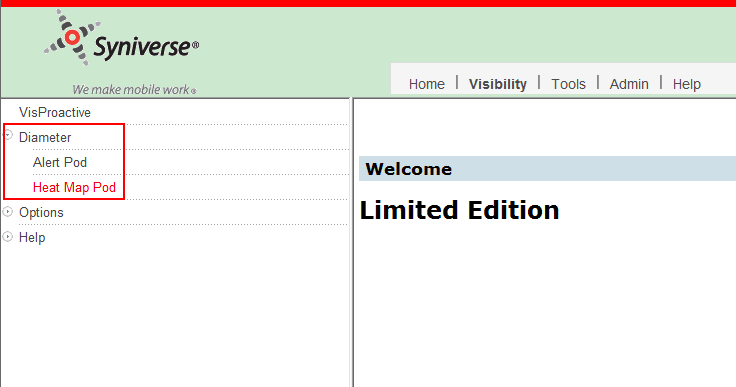


* **User Permissions:**



The company will get assigned “**VisPro\_Diameter\_cmpyP**” permission in the company\_resource table.

User’s having user permission “**Alert Pod**” and/or “**Heat Map Pod**” under **“VisProactive - Diameter”** will see “Alert Pod” and/or “Heat Map Pod” link respectively.



## Detailed Changes

**New User Permission Group:**

**Permission Group Id:** VisPro\_Diameter\_userP

**Presentation Label:** VisProactive - Diameter

A new Permission Group resource will be added to the RESOURC table with RSRC\_ID: VisPro\_Diameter\_userP

This resource will link to a new presentation entry that will be added to the PRESENTATION table

- The PRSENTATION entry’s PRSNTTN\_ID is VisPro\_Diameter\_userP\_prsn

- The PRSENTATION entry will have label of " VisProactive - Diameter"

The presentation order will be: 02104

This Permission Group will have Presentation label tag :4408

An entry will also be added to the LDAP for this permission group under ou=PermissionGroups, o=Crossroads with attributes as described above

**New Company Permission:**

**Permission Id:** VisPro\_Diameter\_cmpyP

**Presentation Label:** Diameter (requires Visibility Diameter Option)

A new Permission resource will be added to the RESOURC table with RSRC\_ID: VisPro\_Diameter\_cmpyP

This resource will link to a new presentation entry that will be added to the PRESENTATION table

- The PRSENTATION entry’s PRSNTTN\_ID is VisPro\_Diameter\_cmpyP\_prsn

- The PRSENTATION entry will have label of " Diameter (requires Visibility Diameter Option) "

The presentation order will be: 0070

A Product relationship to the product resource, VisPro, will be added to the RSRC\_TO\_RSRC\_REL table for this resource so that the Visibility tab will be displayed for any users that are assigned this permission

A PermissionGroup relationship to the new permissionGroup resource, VisProactive\_Co, will be added to the RSRC\_TO\_RSRC\_REL table for this resource

Two Implied relationships to the permission resource, VisPro\_Co and VisPro\_Vis, will be added to the RSRC\_TO\_RSRC\_REL table for this resource

This Permission will have Presentation label tag :4409

This permission is applicable only for nonadmin company types

The Non-Syniverse company will get assigned this permission in company\_resource table.

An entry will also be added to the LDAP for this permission under ou=PermissionCode, o=Crossroads with attributes as described above

This Permission is dependent on **Diameter Option**. It is enabled only if **Diameter Option** is checked

**Changed Company Permission:**

**Permission Id:** Vis\_Diameter\_Option

**Presentation Label:** Diameter Option

A dependent relationship will be added to the RSRC\_TO\_RSRC\_REL to indicate that Vis\_Diameter\_Option will have a dependent company permission, VisPro\_Diameter\_cmpyP.

**New User Permission:**

**Permission Id:** VisPro\_Diameter\_Alert\_Pod\_View\_userP

**Presentation Label:** Alert Pod

A new Permission resource will be added to the RESOURC table with RSRC\_ID: VisPro\_Diameter\_Alert\_Pod\_View\_userP

This resource will link to a new presentation entry that will be added to the PRESENTATION table

- The PRSENTATION entry’s VisPro\_Diameter\_Alert\_Pod\_View\_userP\_prsn

- The PRSENTATION entry will have label of "Alert Pod"

A Copermission relationship the new permission resource, VisPro\_Diameter\_cmpyP will be added to the RSRC\_TO\_RSRC\_REL table for this resource

The presentation order will be: 0010

A Product relationship to the product resource, VisSvc, will be added to the RSRC\_TO\_RSRC\_REL table for this resource so that the Visibility tab will be displayed for any users that are assigned this permission

A PermissionGroup relationship to the new permissionGroup resource, VisPro\_Diameter\_userP, will be added to the RSRC\_TO\_RSRC\_REL table for this resource

Two Implied relationships to the permission resource, VisPro and VisPro\_Vis, will be added to the RSRC\_TO\_RSRC\_REL table for this resource

This Permission will have Presentation label tag :4410

An entry will also be added to the LDAP for this permission under ou=PermissionCode, o=Crossroads with attributes as described above

**New User Permission:**

**Permission Id:** VisPro\_Diameter\_Heat\_Map\_Pod\_View\_userP

**Presentation Label:** Heat Map Pod

A new Permission resource will be added to the RESOURC table with RSRC\_ID: VisPro\_Diameter\_Heat\_Map\_Pod\_View\_userP

This resource will link to a new presentation entry that will be added to the PRESENTATION table

- The PRSENTATION entry’s VisPro\_Diameter\_Heat\_Map\_Pod\_View\_userP\_prsn

- The PRSENTATION entry will have label of "Heat Map Pod"

A Copermission relationship the new permission resource, VisPro\_Diameter\_cmpyP will be added to the RSRC\_TO\_RSRC\_REL table for this resource

The presentation order will be: 0020

A Product relationship to the product resource, VisSvc, will be added to the RSRC\_TO\_RSRC\_REL table for this resource so that the Visibility tab will be displayed for any users that are assigned this permission

A PermissionGroup relationship to the new permissionGroup resource, VisPro\_Diameter\_userP, will be added to the RSRC\_TO\_RSRC\_REL table for this resource

Two Implied relationships to the permission resource, VisPro and VisPro\_Vis, will be added to the RSRC\_TO\_RSRC\_REL table for this resource

This Permission will have Presentation label tag :4411

An entry will also be added to the LDAP for this permission under ou=PermissionCode, o=Crossroads with attributes as described above

**New Menu Group:**

**Id:** VisPro\_Diameter\_Menu\_prsn

**Presentation Label:** Diameter

A new Menu Group resource will be added to the RESOURC table with RSRC\_ID VisPro\_Diameter\_Menu

This resource will link to a new presentation entry that will be added to the PRESENTATION table

- The PRSENTATION entry’s VisPro\_Diameter\_Menu\_prsn

- The PRSENTATION entry will have label of "Diameter"

This menu group is visible on the crossroads application when the logged in user has the **Permission Id:** VisPro\_Diameter\_Alert\_Pod\_View\_userP and/or VisPro\_Diameter\_Heat\_Map\_Pod\_View\_userP

This Permission will have Presentation label tag :4412

An entry will also be added to the LDAP for this menu under ou=PresentationObjects, o=Crossroads with attributes as described above

**New Menu Item:**

**Id:** VisPro\_Diameter\_Alert\_Pod\_menuitem\_prsn

**Presentation Label:** Alert Pod

A new Menu Item resource will be added to the RESOURC table with RSRC\_ID VisPro\_Diameter\_Alert\_Pod\_menuitem

This resource will link to a new presentation entry that will be added to the PRESENTATION table

- The PRSENTATION entry’s VisPro\_Diameter\_Alert\_Pod\_menuitem\_prsn

- The PRSENTATION entry will have label of "Alert Pod"

This menu item is visible on the crossroads application when the logged in user has the **Permission Id:** VisPro\_Diameter\_Alert\_Pod\_View\_userP

This menu item is placed under the menu group id: VisPro\_Diameter\_Menu\_prsn

This menu item will have have **ONCLICK** value: **parent.NavFrame.openWindow('https://${VISPRO\_DIAMETER}/ng-diameter/visproGUI/alert/index.html','AlertPod','Alert%20Pod')**

This Permission will have Presentation label tag :4413

An entry will also be added to the LDAP for this menu under ou=PresentationObjects, o=Crossroads with attributes as described above

**New Menu Item:**

**Id:** VisPro\_Diameter\_Heat\_Map\_Pod\_menuitem\_prsn

**Presentation Label:** Heat Map Pod

A new Menu Item resource will be added to the RESOURC table with RSRC\_ID VisPro\_Diameter\_Heat\_Map\_Pod\_menuitem

This resource will link to a new presentation entry that will be added to the PRESENTATION table

- The PRSENTATION entry’s VisPro\_Diameter\_Heat\_Map\_Pod\_menuitem\_prsn

- The PRSENTATION entry will have label of "Heat Map Pod"

This menu item is visible on the crossroads application when the logged in user has the **Permission Id:** VisPro\_Diameter\_Heat\_Map\_Pod\_View\_userP

This menu item is placed under the menu group id: VisPro\_Diameter\_Menu\_prsn

This menu item will have have **ONCLICK** value: **parent.NavFrame.openWindow('https://${VISPRO\_DIAMETER}/ng-diameter/visproGUI/diameterHeatmap/index.html','HeatMapPod','Heat%20Map%20Pod')**

This Permission will have Presentation label tag :4414

An entry will also be added to the LDAP for this menu under ou=PresentationObjects, o=Crossroads with attributes as described above

## DNS entries

These are the new DNS entries required

* VISPRO\_DIAMETER=vis-diameter-portal-dev-alt.syniverse.com [6.xx DEV]
* VISPRO\_DIAMETER=vis-diameter-portal-test-alt.syniverse.com [6.xx TEST]
* VISPRO\_DIAMETER=vis-diameter.syniverse.com [production]
* VISPRO\_DIAMETER=vis-diameter-portal-dev.syniverse.com [7.xx DEV]
* VISPRO\_DIAMETER=vis-diameter-portal-test.syniverse.com [7.xx TEST]

## Grant Perms

No grant Permissions

# Requirements Tracing Matrix

| Traceability Map  VisProactive Diameter Feed SRS g  <http://central.syniverse.com/sites/NET/BIAREQUIREMENTS/VisPro%20Diameter%20Feed/Reqs%20for%20VisProactive%20Diameter%20Feed%20V1.0%20approved%208-22-2014.docx> | | |
| --- | --- | --- |
| For <Asset or Team> | | |
| High Level Design | Detail Level Design | System Test Plan |
| <Link to HLD> | <Link to DLD> | <Link to System Test Plan> |

| Requirement  # | Requirement title | Asset/Team | HLD  # | DLD  # | Test  # | Comment |
| --- | --- | --- | --- | --- | --- | --- |
| 3 | INCORPORATE NEW DATA FEED FOR DIAMETER DATA |  |  |  |  |  |
| 3.1 | VISIBILITY SERVICES REQUIREMENTS |  |  |  |  |  |
| 3.1.1 | Vis to VisPro Interface |  |  |  |  |  |
| 3.2 | DATA ANALYSIS AND PREPARATION |  |  |  |  |  |
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| 3.2.1.1 | Data Rules/Conditions |  |  |  |  |  |
| 3.2.1.2 | File Naming Conventions |  |  |  |  |  |
| 3.2.1.3 | Timestamps and Other Identifiers |  |  |  |  |  |
| 3.2.1.4 | Validation Rules |  |  |  |  |  |
| 3.2.2 | Aggregation |  |  |  |  |  |
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|  |  |  |  |  |  |  |
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| 3.4.2.2.2 | User Defined Week |  |  |  |  |  |
| 3.4.2.3 | Country Drill Down |  |  |  |  |  |
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| 3.4.2.3.2 | Upon selection of a country, “All Operators” for that country shall appear |  |  |  |  |  |
| 3.4.2.3.2.1 | Operator Drill Down |  |  |  |  |  |
| 3.4.2.3.2.1.1 | Default to All Operators |  |  |  |  |  |
| 3.4.2.3.2.1.2 | Upon selection of an operator, the Realm, or IP, or Host shall appear. |  |  |  |  |  |
| 3.4.2.3.2.1.3 | Realm and IP shall also allow drill down to Host level. |  |  |  |  |  |
| 3.4.2.4 | Headers/Titles for Customized View |  |  |  |  |  |
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1. [↑](#footnote-ref-1)