Snapshot of Roadmaps

SoftSummit™

SAN JOSE

October 16, 2013

INSIGHT DRIVING INNOVATION

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Some quick updates

- New product version change
  - Purpose: user-friendly and to follow industry standard (e.g. Microsoft)
  - Public version format: “YYYY R(# from the start of the year)
    - FlexNet Publisher 2013 R2 (second release of Publisher in 2013)
  - Will switch to Service Pack terminology
  - Internal product version still remain the same

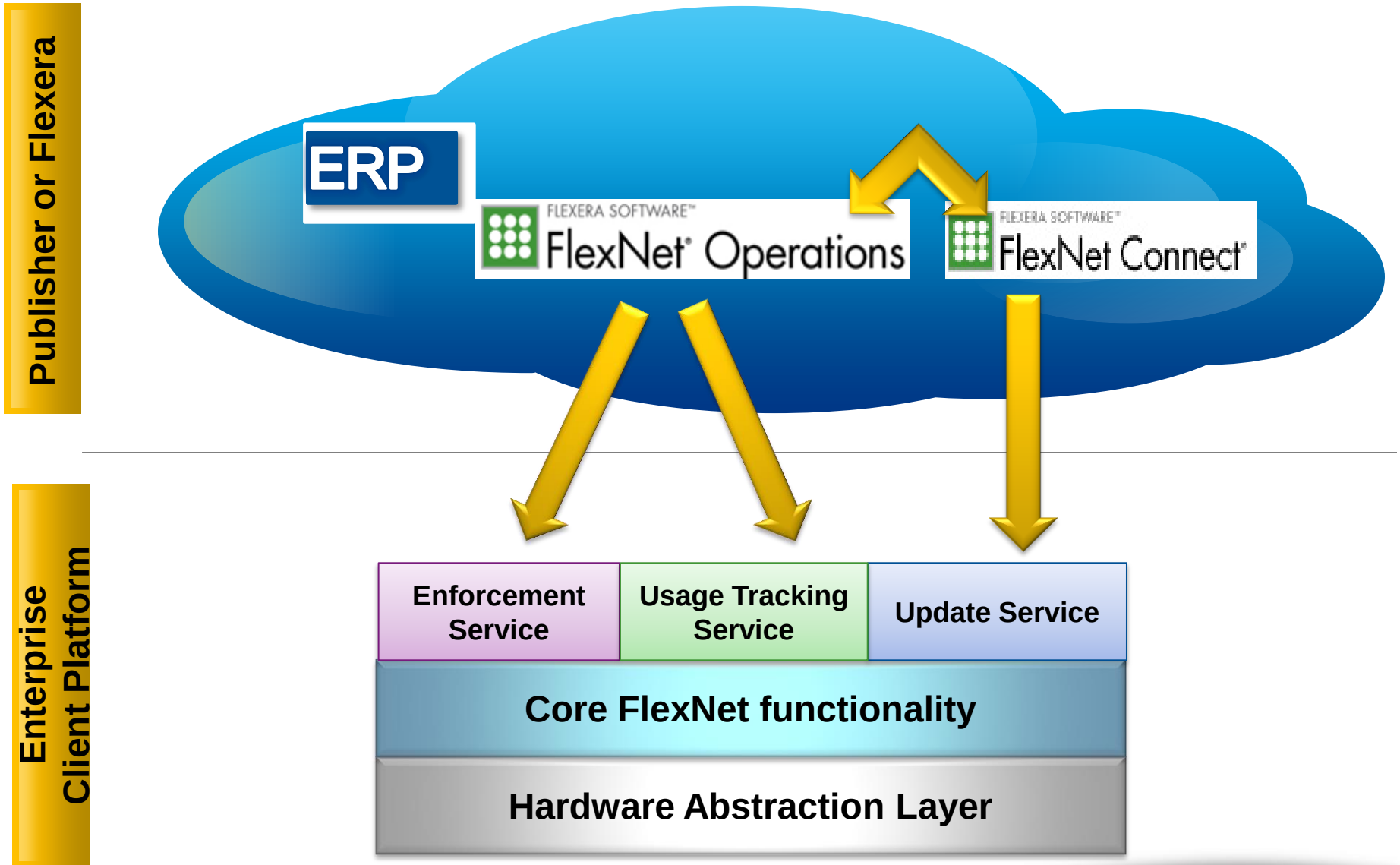
- End of Version policy has been rolled out
  - 5 years standard support for FlexNet Licensing, 3 years standard support for other products, 1 year limited support, extended support for a fee available
  - Platform end of version policy is being rolled out
    - We will match the Publishers’ standard policy and then add limited and extended using Flexera’s policy
  - More information: http://www.flexerasoftware.com/support/end-of-life.htm

- End of Life extended indefinitely for lmgrd and lmtools

- FlexNet Publisher Service Pack release strategy
  - Targeting 2 to 4 service packs per year to increase response time

- Product roadmap policy is being rolled out
  - Our goal is to provide 18 months visibility

Flexera high-level architectural vision



Terminology

Producer Back Office

FlexNet Operations – On-Demand (FNOOD)

- Entitlement & Licensing Management
- Electronic Delivery
- Usage Management
- Producer Portal
- Enterprise Portal
- Cloud Licensing Service

FlexNet Operations (FNO)

- Entitlement & Licensing Management
- Publisher Portal
- End user Portal

FlexNet Connect (FNC)

- Update Management
- Instrumentation
- Enterprise Update
- Producer Portal
- Enterprise Portal

Enterprise

FlexNet Licensing (FNL)

- Local License Server (optional)
- App
- FlexNet Embedded (FNE)
- Local License Server (optional)
- App
- FlexNet Publisher (FNP)
- Trusted Storage
- Certificate

FlexNet Connect (FNC)

- Agent
- App
- FlexNet Embedded (FNE)

Enable usage-based licensing

- Why?
  - Join the subscription economy/3rd platform, automated enterprise license agreements, ease your customer's experiences
    - Support compliance-based licensing and pricing models (e.g., pay-for-burst, pay-for-overage, compliance automation)
- Available today
  - Introduced FlexNet Usage Capture as an add-on to FlexNet Embedded and Usage Management as an add-on to FlexNet Operations On-Demand
  - Includes usage-based licensing and back-office support for SaaS and on-premise applications
- Coming Spring '14:
  - Support on-premise license servers (FlexNet Embedded)
  - Enable automated license fulfillment & enforcement using Cloud Licensing Service
- Coming Summer '14
  - FlexNet Usage Mgmt available for FlexNet Operations on-premise
  - Support disconnected sites with offline server sync) (FlexNet Embedded)

Cloning prevention in virtual environments

- Why?
  - Virtualization is #1 reason for accidental non-compliance
- Available today
  - Deny, bind to VM identifier (UUID) or bind to external application (lmbind)
- Coming Spring ’14
  - Detect and trigger “trust break” signal when cloned
    - FlexNet Publisher-trusted storage, FlexNet Operations policy
    - Limited to Windows
- Coming Summer ‘14
  - Provide same for FlexNet Publisher-Certificate
    - Same limitations
- Consider using Usage or Cloud Licensing Service instead

Virtual machine scenario	Trigger
Paused or resumed	No
Reboots	No
Host reboots	No
Live migrated	No
Imported, copied or cloned	Yes
Started executing snapshot	Yes
Recovered from backup	Yes
Failed over in DR environment	Yes
Failed over in clustered environment	No

Enhance security

- Why?
  - Ensure that users (at different abilities) cannot thwart compliance
    - SIIA ’13 survey: 48%-competitive IP theft had serious impact to their business; 63% had reversed engineering challenges
- Available today
  - Anchoring detects when users delete trusted storage, change clocks, etc. – FlexNet Publisher – trusted storage
  - Renders application unusable when hackers attack licensing parts of application – FlexNet Publi
- Coming to FlexNet Embedded
  - Fall ‘13: Anchoring for Clients
  - Fall ’14:
    - anchoring for local license servers
    - tamper resistance

Better updates & install-base intelligence using FlexNet Connect

- Why?
  - Reduce tech support costs, remove liability by pushing updates
  - Make smart, pro-active decisions based on how your products are actually being used
    - SIIA ‘13 survey: 68% struggle with usage visibility; < 25% use tools to capture
- Coming Winter ‘13
  - In-product over existing agent approach
    - Control the user experience, send more targeted instrumentation data
    - Provide iphone-like experience – update your intelligent devices
  - Help your support organization
    - Provide UI with information about every device including updates and instrumentation data
- Coming Summer ’14
  - Updated “agent” approach – add app update in 2 days
    - Control branding, remove exiting technical limitations, remove “agent” objections
  - Access instrumentation data for extended analysis
    - Mine that rich data to identify patterns and be the “most knowledgeable guy in the room”

Make compliance quick, easy and painless

- Why?
  - The easier the experience the less
    - complaints, tech support calls and “workarounds”
- Recently released
  - FlexNet Publisher: easier error messages and improved logging
    - Help their IT and your support
- Coming Winter ’13
  - FlexNet Operations On-Demand: UI consistency and other improvements to Enterprise portal
  - FlexNet Operations: Significant rewrite of enterprise portal (preview mode)
- Coming Spring ‘13
  - FlexNet Publisher: reclaim of borrowed licenses (trusted storage)
    - Help “they left for out of town and borrowed a license for a month”
- Coming Summer ‘14
  - FlexNet Operations On-Demand: download many files more easily, activate FlexNet Embedded licenses more easily
  - FlexNet Operations: replacement of enterprise portal
- During various releases:
  - New platform/OS support for licensing. We’ll worry about these so you don’t have to

Public Roadmaps—Deep Dive

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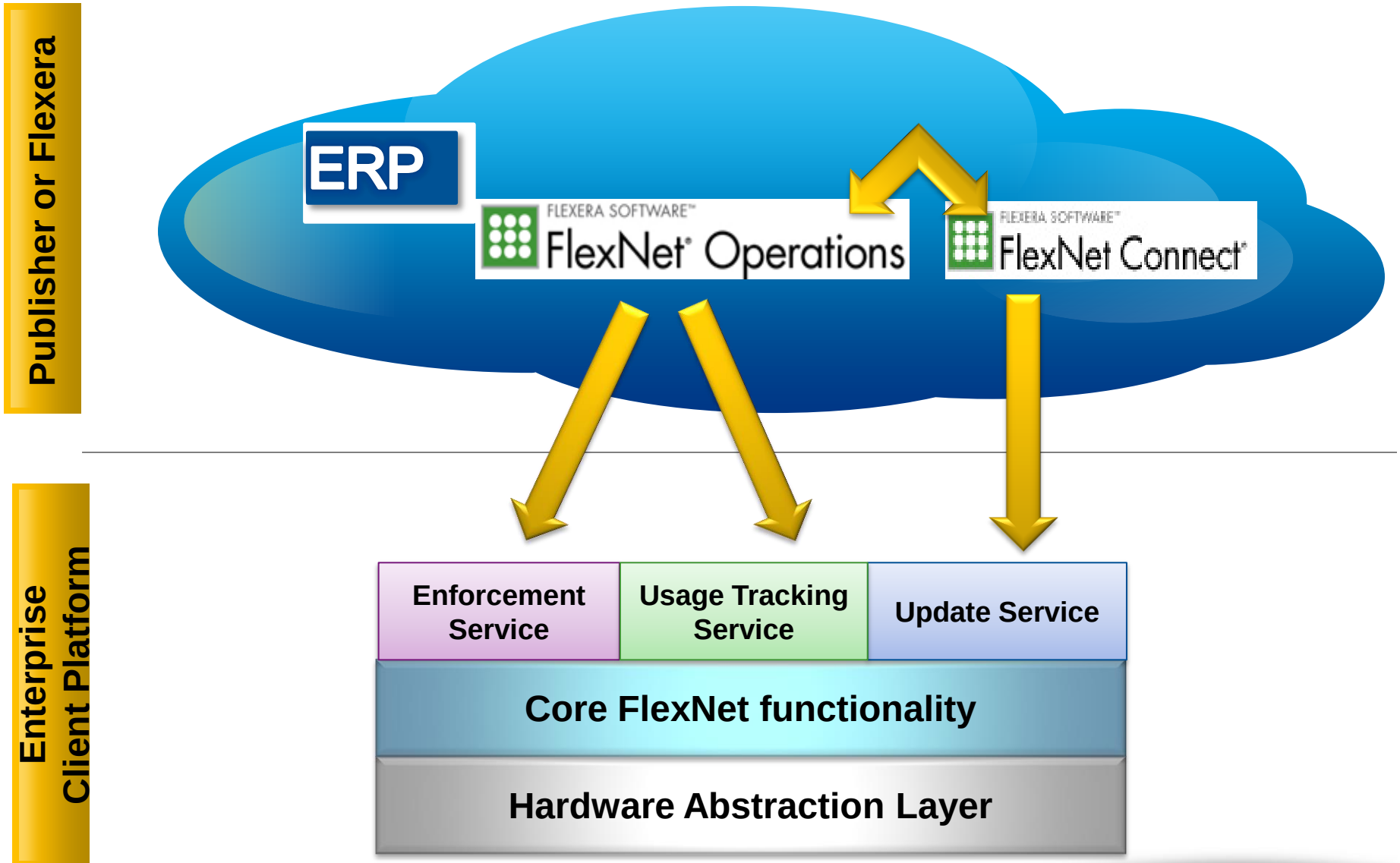

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- FlexNet Embedded (FNE)

FLEXNET CONNECT ROADMAP

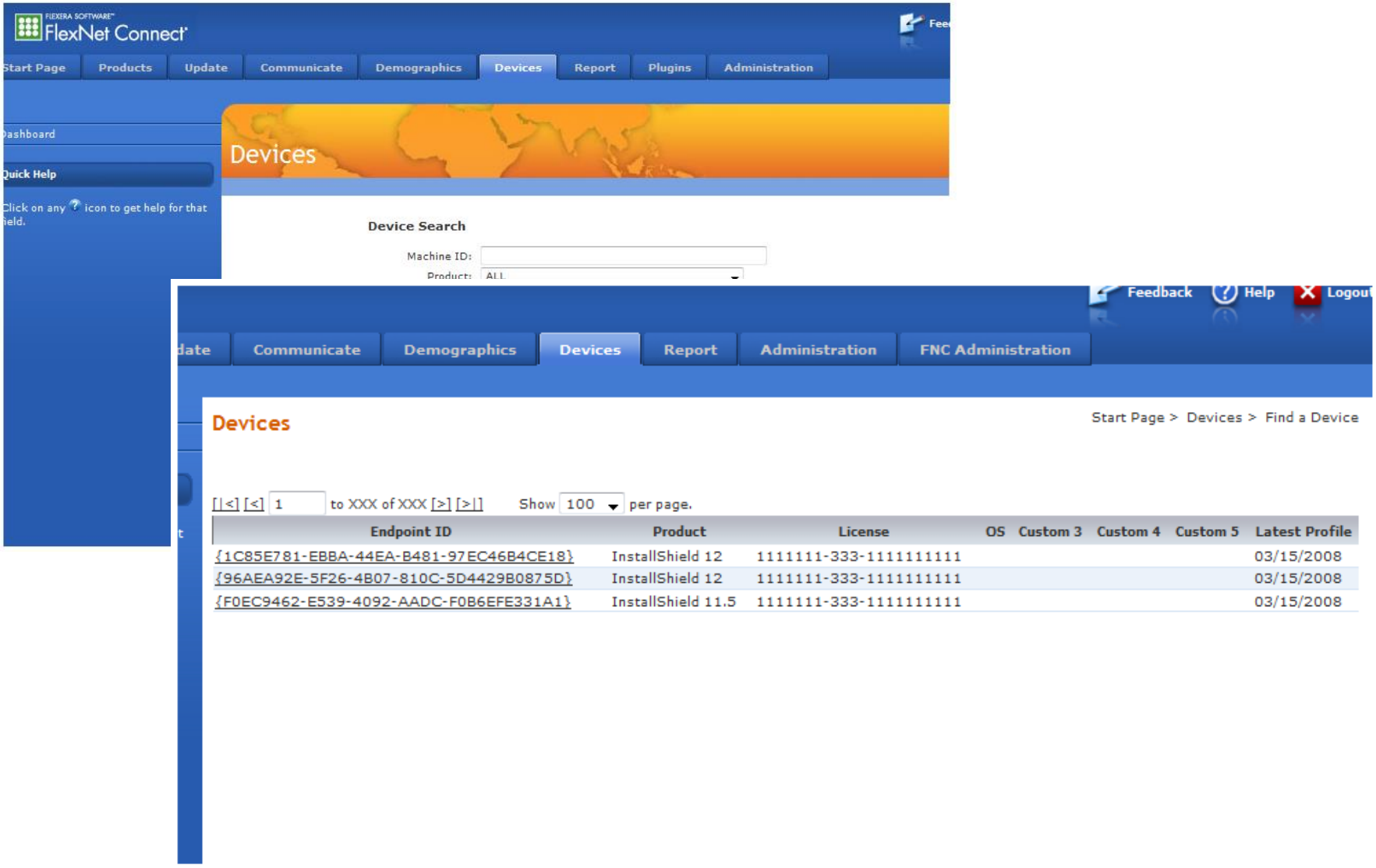
As of July 19 2013

FlexNet Connect winter 2013

Theme	Description	Trend	Modules
Provide on-premises release of backoffice components	Apply Spring 2013 release to on-premise: • Agentless, SDK-based client integration (limited platforms) • New module: Enterprise Update Management • New module: Instrumentation Management	#3 – IDM&M2M	On-premise
Updates and data collection for embedded devices	Allow device manufactures to deliver firmware/app updates and collect data (diagnostic, configuration) from embedded devices Features: • Extensible C/C++ kit with low footprint (“porting kit”) • New Platform: Linux 32-bit-ARM C SDK, Mac OS C XT SDK	#3 – IDM&M2M	SDKs
Remote diagnostics of endpoints	Enable detailed snapshot of endpoints for publishers to support end users Feature: • For a given endpoint, view apps installed, updates applied, name-value data collected, and additional instrumentation for a given device	#3 – IDM&M2M	All
Enable secure downloads	Add mechanism by which end user cannot “share a link” to download updates	*#4 – Security*	All

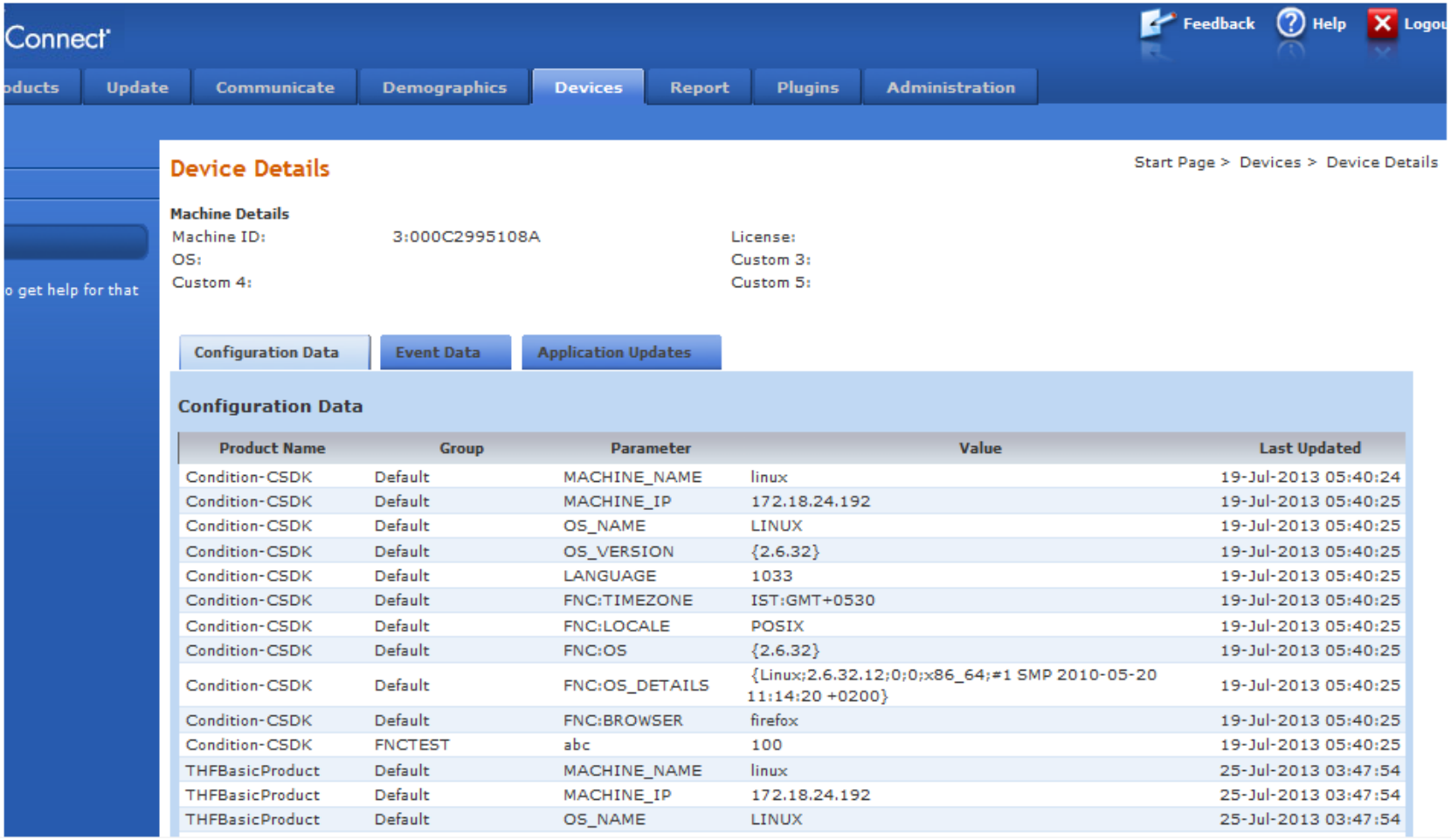
Note: Counts of endpoints will change

Device Viewer



Endpoint Configuration Data (Profile)

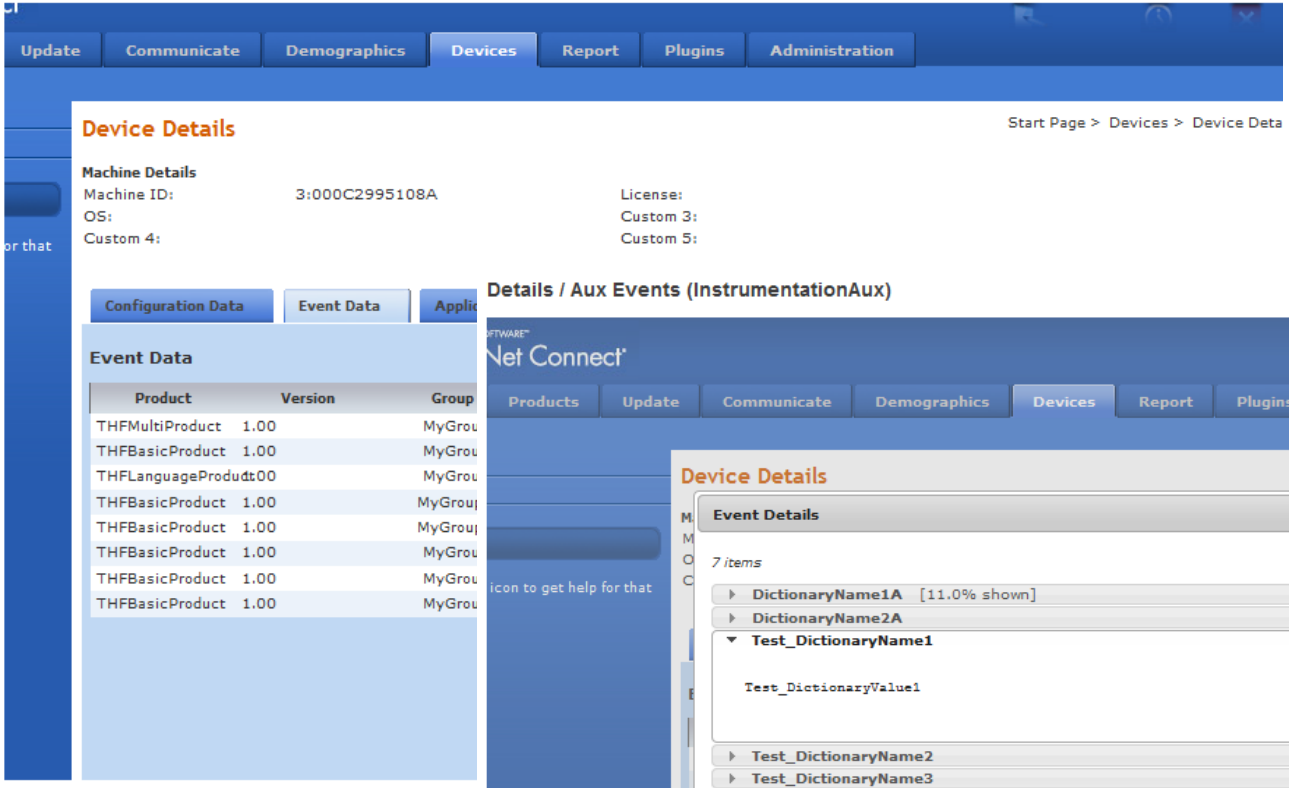
Details (Configuration Data)



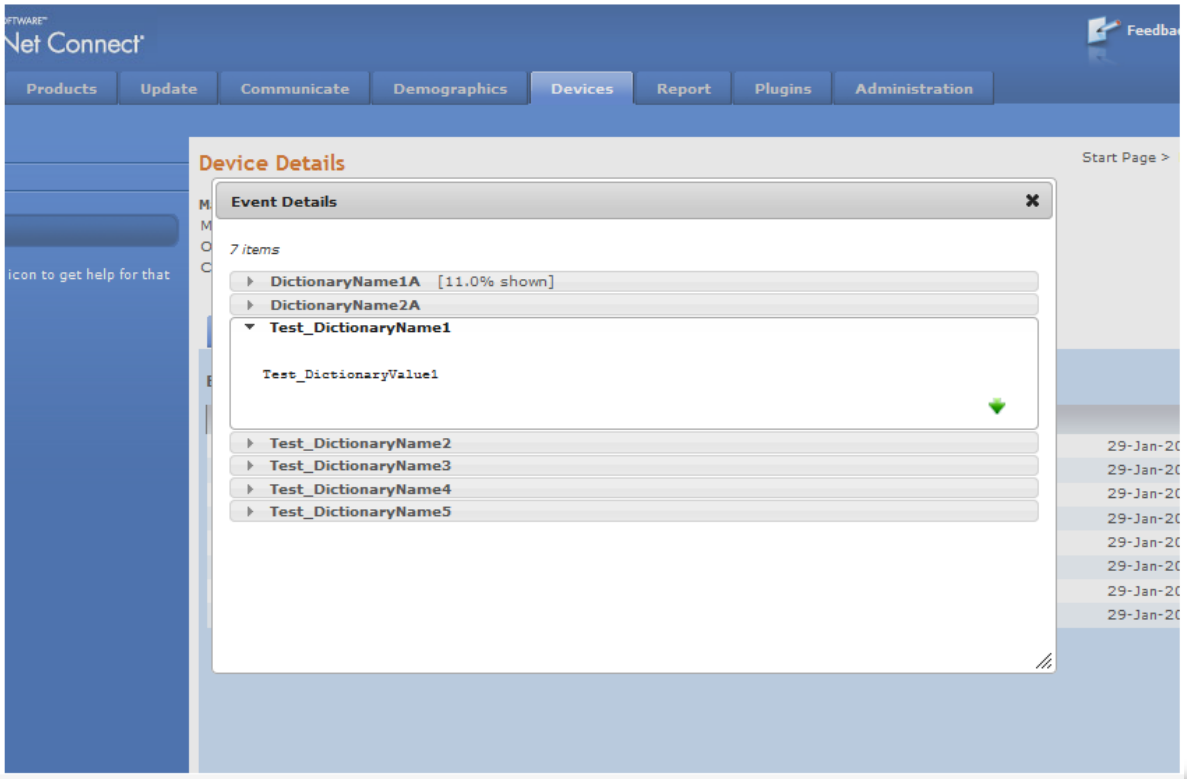
Product Name	Group	Parameter	Value	Last Updated
Condition-CSDK	Default	MACHINE_NAME	linux	19-Jul-2013 05:40:24
Condition-CSDK	Default	MACHINE_IP	172.18.24.192	19-Jul-2013 05:40:25
Condition-CSDK	Default	OS_NAME	LINUX	19-Jul-2013 05:40:25
Condition-CSDK	Default	OS_VERSION	{2.6.32}	19-Jul-2013 05:40:25
Condition-CSDK	Default	LANGUAGE	1033	19-Jul-2013 05:40:25
Condition-CSDK	Default	FNC:TIMEZONE	IST:GMT+0530	19-Jul-2013 05:40:25
Condition-CSDK	Default	FNC:LOCALE	POSIX	19-Jul-2013 05:40:25
Condition-CSDK	Default	FNC:OS	{2.6.32}	19-Jul-2013 05:40:25
Condition-CSDK	Default	FNC:OS_DETAILS	{Linux;2.6.32.12;0;0;x86_64;#1 SMP 2010-05-20 11:14:20 +0200}	19-Jul-2013 05:40:25
Condition-CSDK	Default	FNC:BROWSER	firefox	19-Jul-2013 05:40:25
Condition-CSDK	FNCTEST	abc	100	19-Jul-2013 05:40:25
THFBasicProduct	Default	MACHINE_NAME	linux	25-Jul-2013 03:47:54
THFBasicProduct	Default	MACHINE_IP	172.18.24.192	25-Jul-2013 03:47:54
THFBasicProduct	Default	OS_NAME	LINUX	25-Jul-2013 03:47:54

Event Data

Details (Event/Instrumentation)

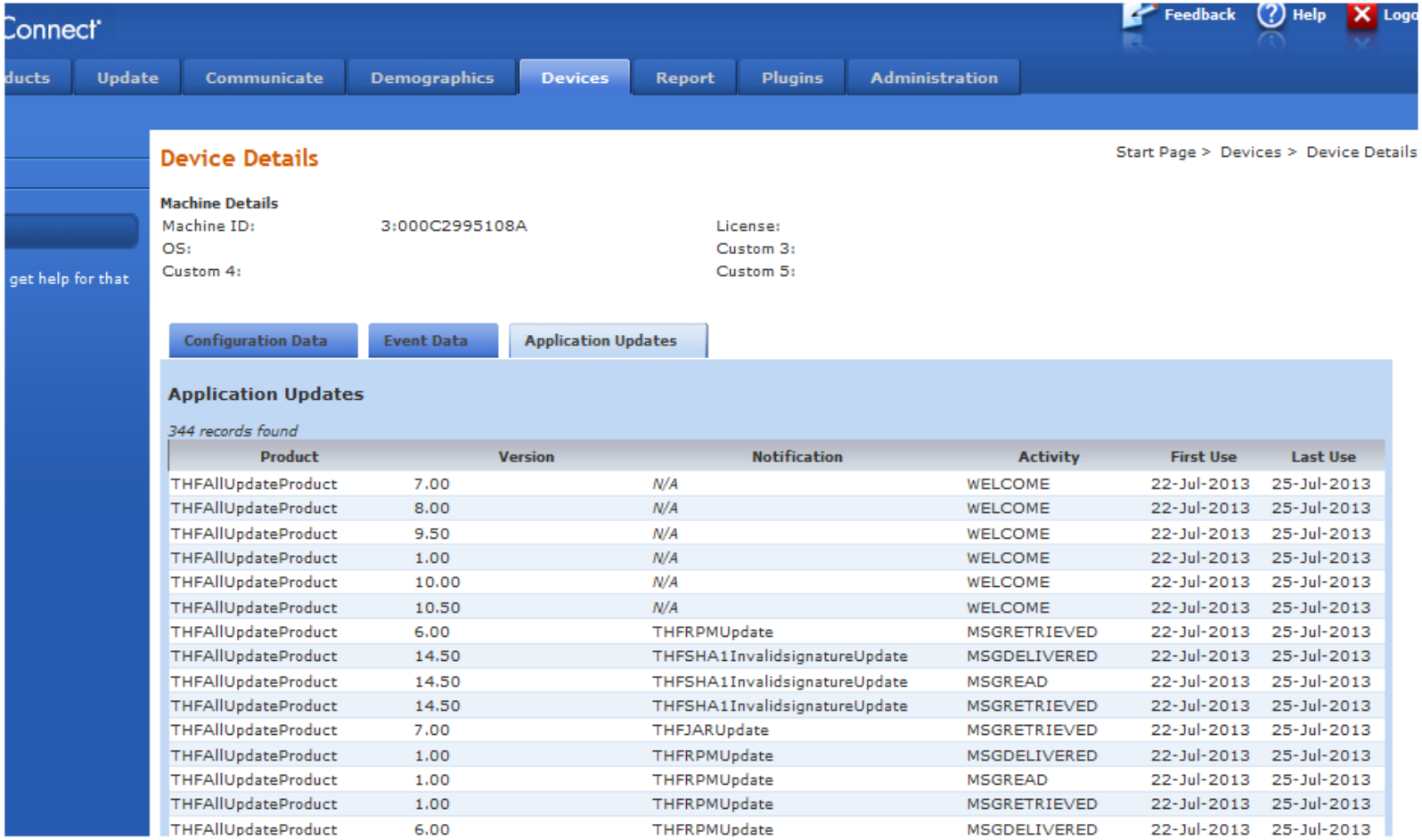


Details / Aux Events (InstrumentationAux)



Application Updates

Details (Application Updates)



Product	Version	Notification	Activity	First Use	Last Use
THFAllUpdateProduct	7.00	*N/A*	WELCOME	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	8.00	*N/A*	WELCOME	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	9.50	*N/A*	WELCOME	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	1.00	*N/A*	WELCOME	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	10.00	*N/A*	WELCOME	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	10.50	*N/A*	WELCOME	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	6.00	THFRPMUpdate	MSGRETRIEVED	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	14.50	THFSHA1InvalidsignatureUpdate	MSGDELIVERED	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	14.50	THFSHA1InvalidsignatureUpdate	MSGREAD	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	14.50	THFSHA1InvalidsignatureUpdate	MSGRETRIEVED	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	7.00	THFJARUpdate	MSGRETRIEVED	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	1.00	THFRPMUpdate	MSGDELIVERED	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	1.00	THFRPMUpdate	MSGREAD	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	1.00	THFRPMUpdate	MSGRETRIEVED	22-Jul-2013	25-Jul-2013
THFAllUpdateProduct	6.00	THFRPMUpdate	MSGDELIVERED	22-Jul-2013	25-Jul-2013

FlexNet Connect summer 2014

Theme	Description	Trend	Modules
New non-SDK solution to ease implementation	Replacing the current agent solution Features: • New customizable, Publisher-specific User Interface (UI) • Improved multi-platform update • Increased download sizes (>2gig) • Support for unicode • Single publisher-branded UI • Multiple platforms (matching the SDKs) • Not continuously running (not a service, daemon, agent)	#3 – IDM&M2M	All
Access to extended log data for analysis	Provide ability for Publishers to receive instrumentation for analysis	#3 – IDM&M2M	Instrumentation Mgmt

Note: Licensing for FlexNet Connect will be done differently

FlexNet Connect winter 2014 targets

- Android C SDK

- Update delivery integration into existing enterprise update framework
  - E.g. SCCM, AdminStudio and others

- Performance and scalability improvements to the back-office instrumentation infrastructure
  - Data transport optimization (chunking of data)
  - Easier sending of files
  - Additional meta data for upload events such as:
    - Event type: Alerts vs. crash logs vs. warnings vs.
    - Event priority

FlexNet Connect post-2014 targets

- Reporting engine rewrite
- Retirement of the Windows/Linux Java agent
- Single back office for entitlement, licensing, update and usage analytics
  - Enterprise portal – single UI for enterprises for entitlements & updates, inside FlexNet Operations On-Demand
  - Entitlement-driven updates - protect value of maintenance & subscription plans
- Enable remote device management
  - Rules framework: To act upon only the most critical events (and also minimize data storage requirements), API sends data only when some rules are met. For example, send data if error_code = 123 is triggered in the application
  - Remote delivery and execution of scripts on machines

FLEXNET OPERATIONS ON-DEMAND ROADMAP

As of July 19 2013

FlexNet Operations On-Demand winter 2013

Theme	Description	Trend	Modules
Improve support for changing licensing technology from one product version to another	Allow publishers to swap licensing technologies over product versions without reissuing entitlements	#5 - Make licensing easier	Licensing Lifecycle
Enable end customer reporting	Enterprise Portal: • Provide CSV extract of the “Search Licenses” and “Search Entitlement Lines” search results	#5 - Make licensing easier	All
Improved user interface	Enterprise portal: • UI standardization • Product tree view • Download page Producer portal: • Single click to inactivate all line items	#5 - Make licensing easier	All
Support FlexNet Licensing enhancements	Remote activation for FlexNet Embedded license server	#5 - Make licensing easier	Licensing Lifecycle
Other enhancements	Windows 8 certification for Download Manager		Electronic Software Delivery

Example of UI standardizations

- Making tables consistent

before

Your login ID shows that you are a member on multiple accounts. Pleas
login as another user.

Company Name	Name	Notes
16163-from-account	Ariane Habets	(Click to edit)
16163-to-account	Ariane habets	(Click to edit)
ABC Companygrößeren	Araine Habets-qa	(Click to edit)
Flexera Software	Ariane Habets-qa	(Click to edit)

(If you think these accounts should be merged please contact Support.)

after

Your login ID shows that you are a member on multiple accounts. Please select the account you wish to use for the current session or login as another user.

Company Name	Name	Notes
16163-from-account	Ariane Habets	(Click to edit)
16163-to-account	Ariane habets	(Click to edit)
ABC Companygrößeren	Araine Habets-qa	(Click to edit)
Flexera Software	Ariane Habets-qa	(Click to edit)

(If you think these accounts should be merged please contact Support.)

- Making buttons consistent

before

Password Finder

If you have already signed up as a member for Download Center but have forg
and click the "Submit" button.

For security reasons, we will not display your User Name and Password on the
email address you enter below.

Email Address: Submit

after

Password Finder

If you have already signed up as a member for Download Center but have forgotten your password, enter your email address below and click the "Submit" button.

For security reasons, we will not display your User Name and Password on the screen. We will send the necessary information to the email address you enter below.

* *Required*

Email Address:*

Submit

- Cleaning up the page and access to menus

Entitlement History

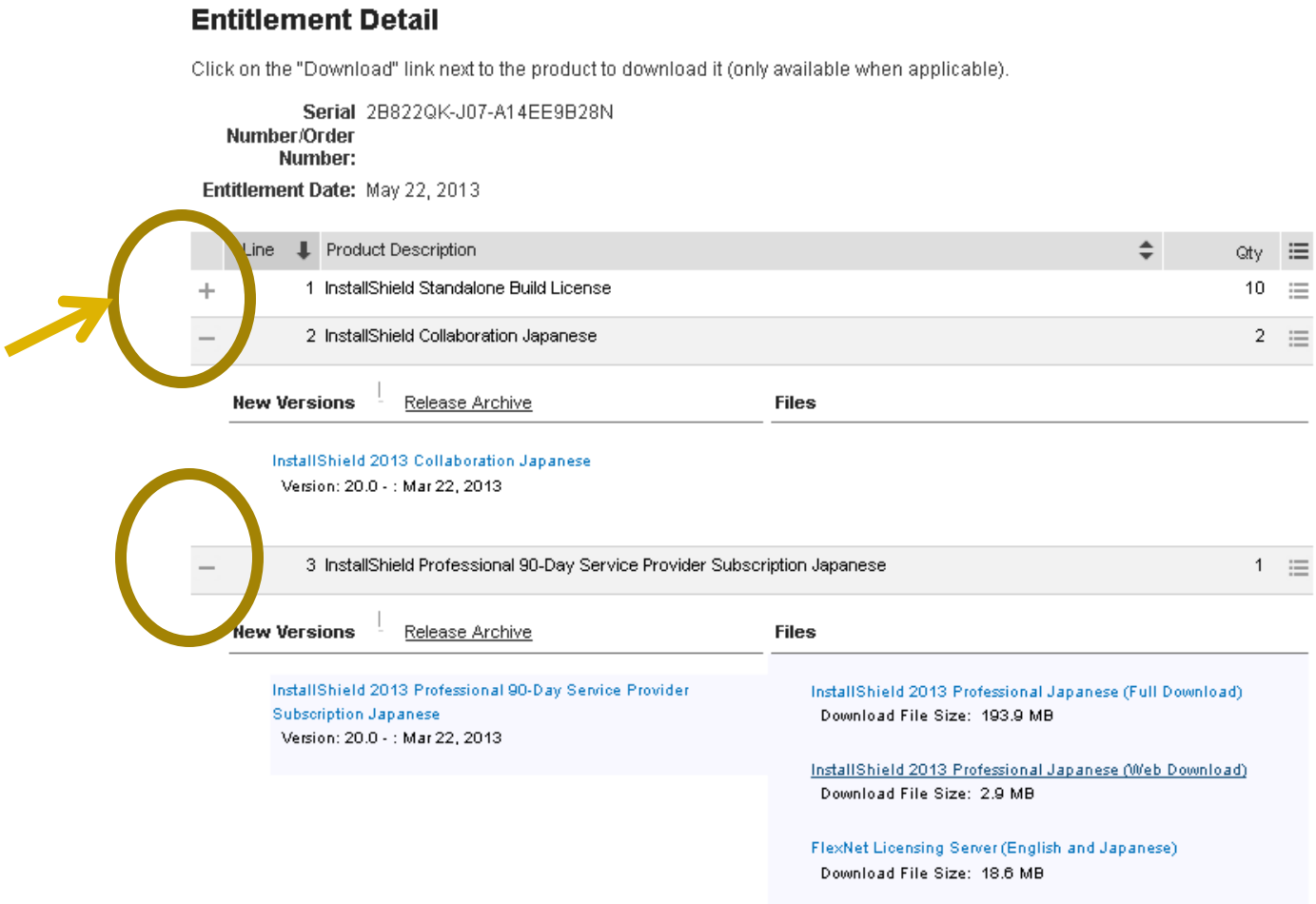
Listed below are your entitlements. To view the details of a particular entitlement, click on the Serial Number/Order Number. Canceled entitlements are not displayed.

1 to 25 of 597 Show 25 per page.

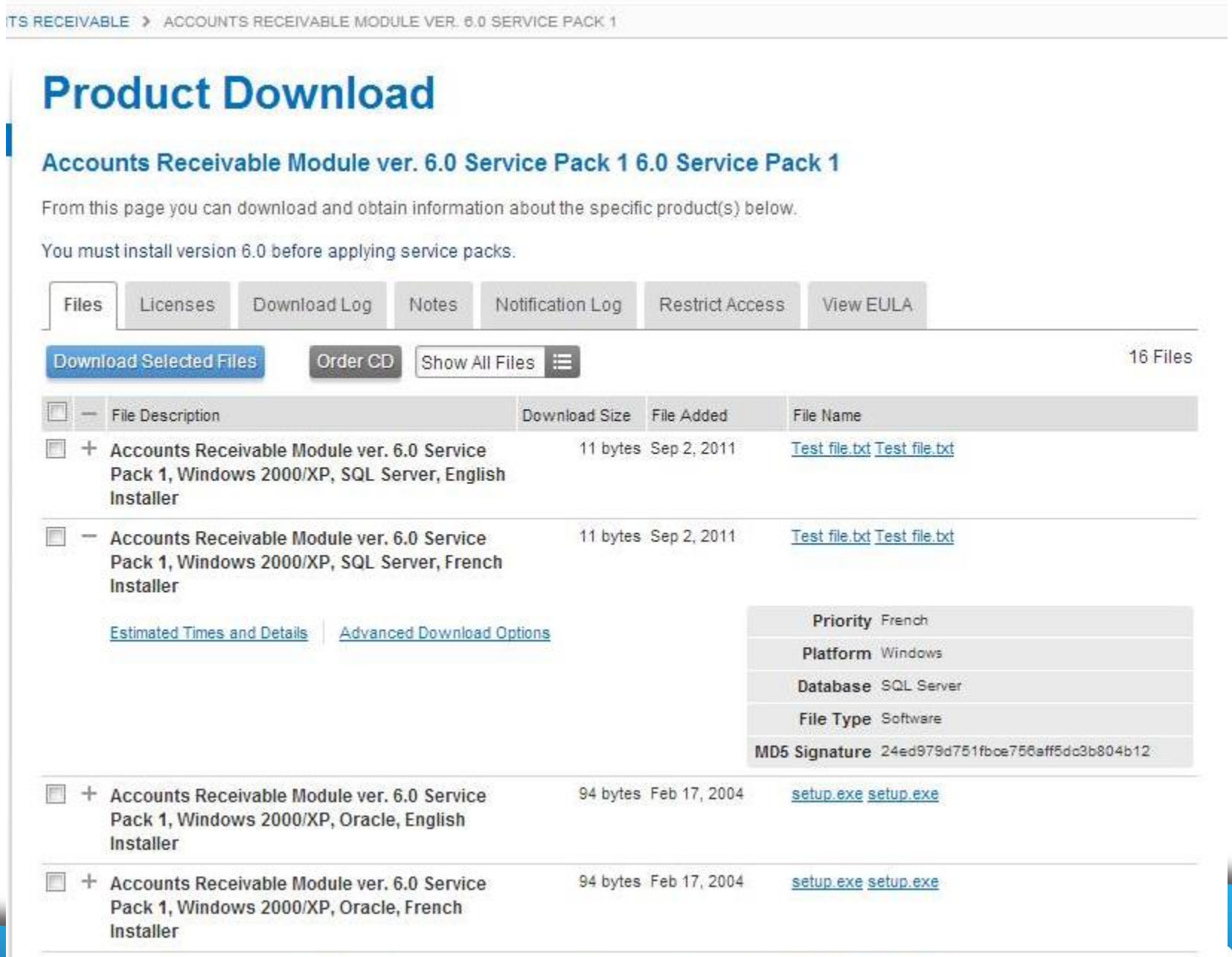
Serial Number/Order Number	Entitlement Date
C6D676Q-D09-80CF8ADF4N	Jul 16, 2013
SSF-0000160687	Jul 16, 2013
SSF-0000160602	Jul 16, 2013
20017AP-D06-505E92E9DN	Jul 16, 2013

Product tree view

Quick access to additional information and downloads



Download page



FlexNet Operations On-Demand summer 2014

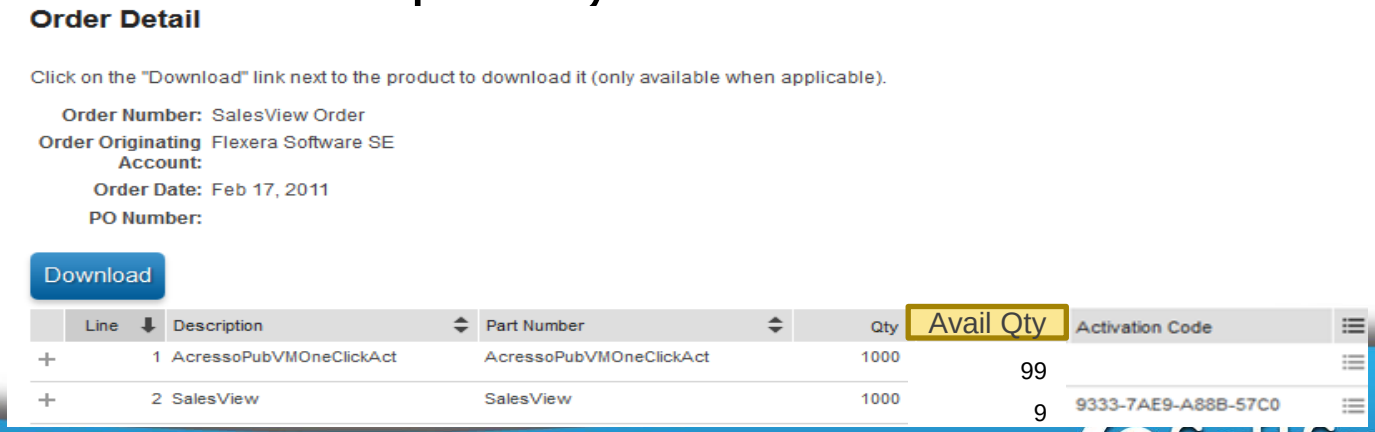
Theme	Description	Trend	Module
Improved FlexNet Embedded Integration	Reduce the amount of configuration required to implement FlexNet Embedded integrate with the back office. Features: • Ability to disable some of the configurations • Default models and series • Improved upgrades	#5 - Make licensing easier #3 – IDM&M2M	Licensing Lifecycle
Improve download experience	Complex products may require downloads of many files. • Add multi-download on the product list page (same capability as the order download page)	#5 - Make licensing easier	Electronic Software Delivery

FlexNet Operations On-Demand winter 2014 targets

- Support FlexNet Licensing virtualization enhancements
  - Policy support: allow or deny activation if in virtual machine
  - Support ACPI GenerationID cloning and backup/restore

- Self-service property file management for Publishers
  - Property files include labels, page contents as well as access to features and some configuration.
    - Example: download link duration

- Provide activation quantity on order search results



FlexNet Operations On-Demand post-2014 targets

- Enable plug-n-play licensing technology integration
  - Simplify licensing set up
  - Extensible host-id types for licensing technologies (e.g. FlexNet Publisher, FlexNet Embedded, homegrown)
  - Plug-ins for license generation
  - Pluggable business logic for license generation

- Revamp UI experience with licensing
  - One experience - regardless of licensing technology

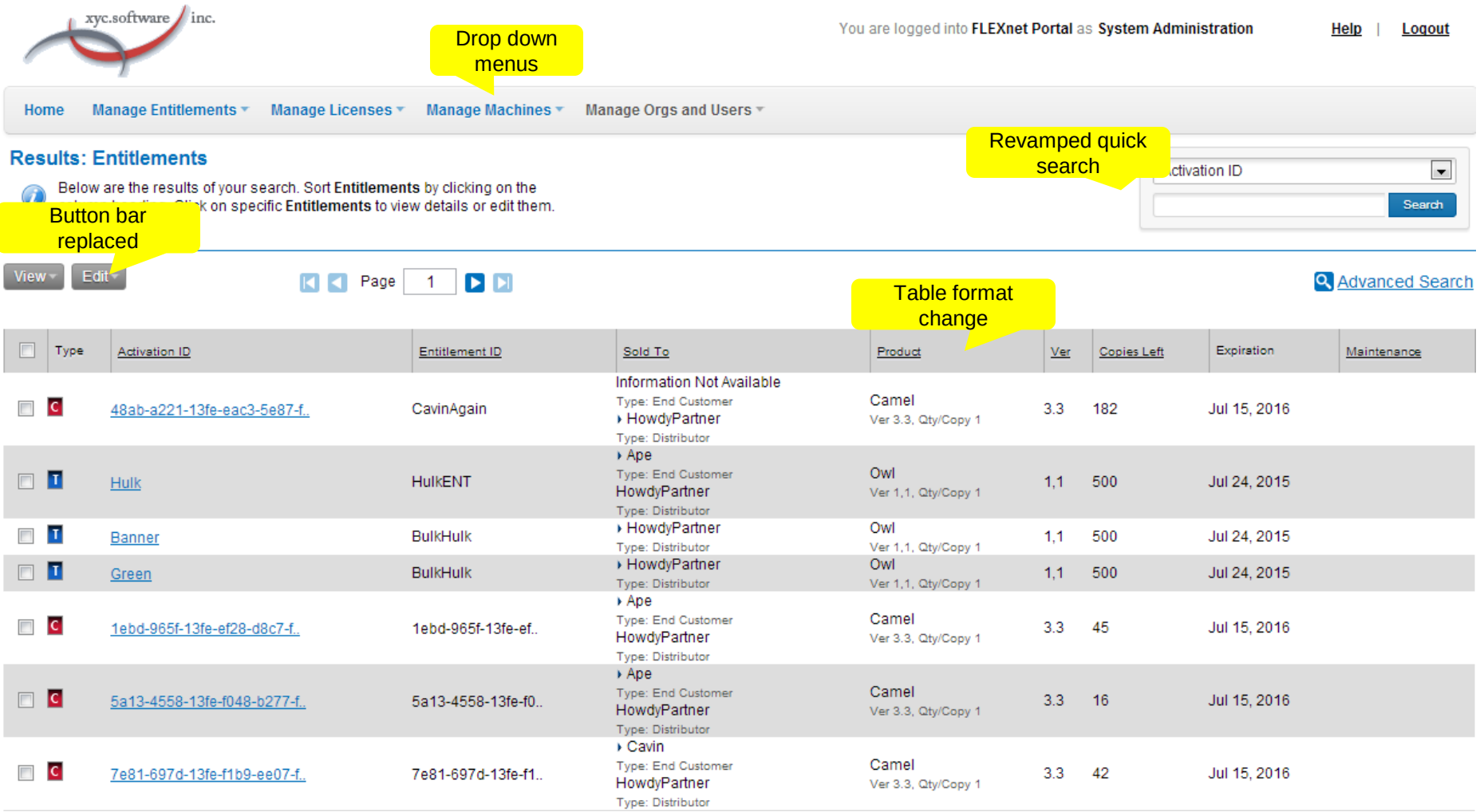
FLEXNET OPERATIONS ON-PREMISE ROADMAP

As of July 19 2013

FlexNet Operations winter 2013

Theme	Description	Trend	Modules
Revamp enterprise portal UI	Re-vamped look & feel of the enterprise portal for easier update, consistent experience and updated/refreshed look • Redone menus • Redone table format • New search flow • Minimization of informational elements on pages preview mode only (for feedback)	#5 - Make licensing easier	All
Support FlexNet Licensing enhancements	• Support FlexNet Embedded Certificate license format • Improve performance for FlexNet Embedded activations • Adding repair policy for ACPI GenerationID	#5 - Make licensing easier	License Lifecycle

Re-Vamped look & feel for Enterprise Portal

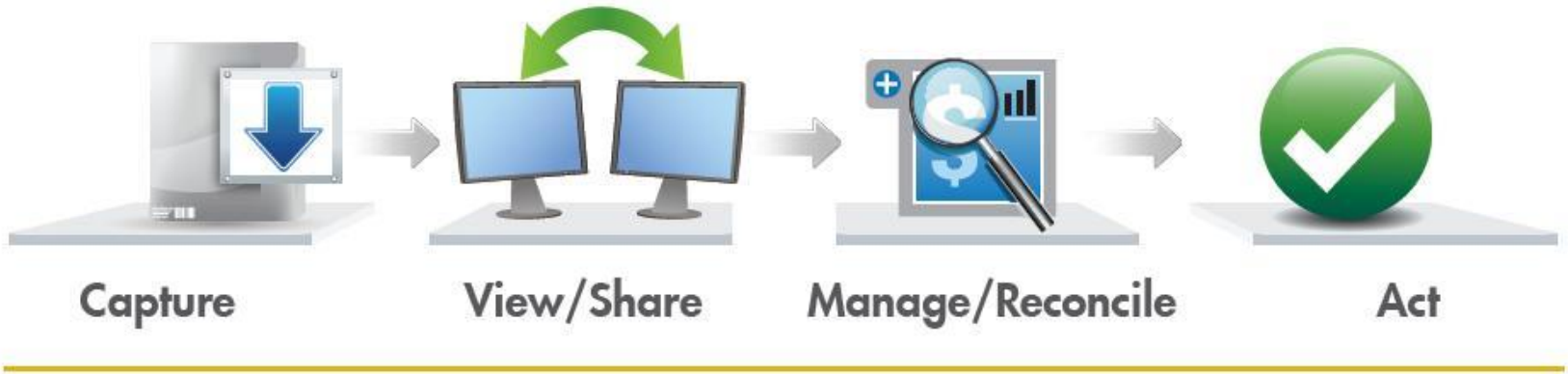


FlexNet Operations summer 2014

Theme	Description	Trend	Modules
Revamp enterprise portal UI	Re-vamped look & feel of the enterprise portal for easier update, consistent experience and updated/refreshed look Replaces old Enterprise Portal UI	#5 - Make licensing easier	All
Enable usage-based licensing	New module to enable usage-based licensing management • Cloud-based license server • UI to provide usage reports for end customers and providers • Reconciliation process to compare use vs. entitlement • Integration into back end systems for optional billing	#1 - Usage-based licensing	(new) Usage Management
Improve performance	• Update Jboss, 3rd party library, installer		

What is a Usage-based Trust but Verify Licensing?

Entitles the customer with the right to use the application freely then captures usage, compares usage to entitlement, shares that usage with the customer for reporting and reconciliation (if needed).



Enables compliance automation, pay-for-burst, pay-for-use

High Level Overview

Dropbox

Customer Signs up for Enterprise Plan:
Users: **200** Storage: **500GB**

Dropbox Entitles Customer and Provisions FNE Usage Server

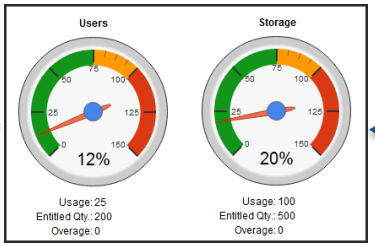
Order Notification Email

On-Demand

Entitlement
Users = 200
Storage = 500G

FNE Usage Server

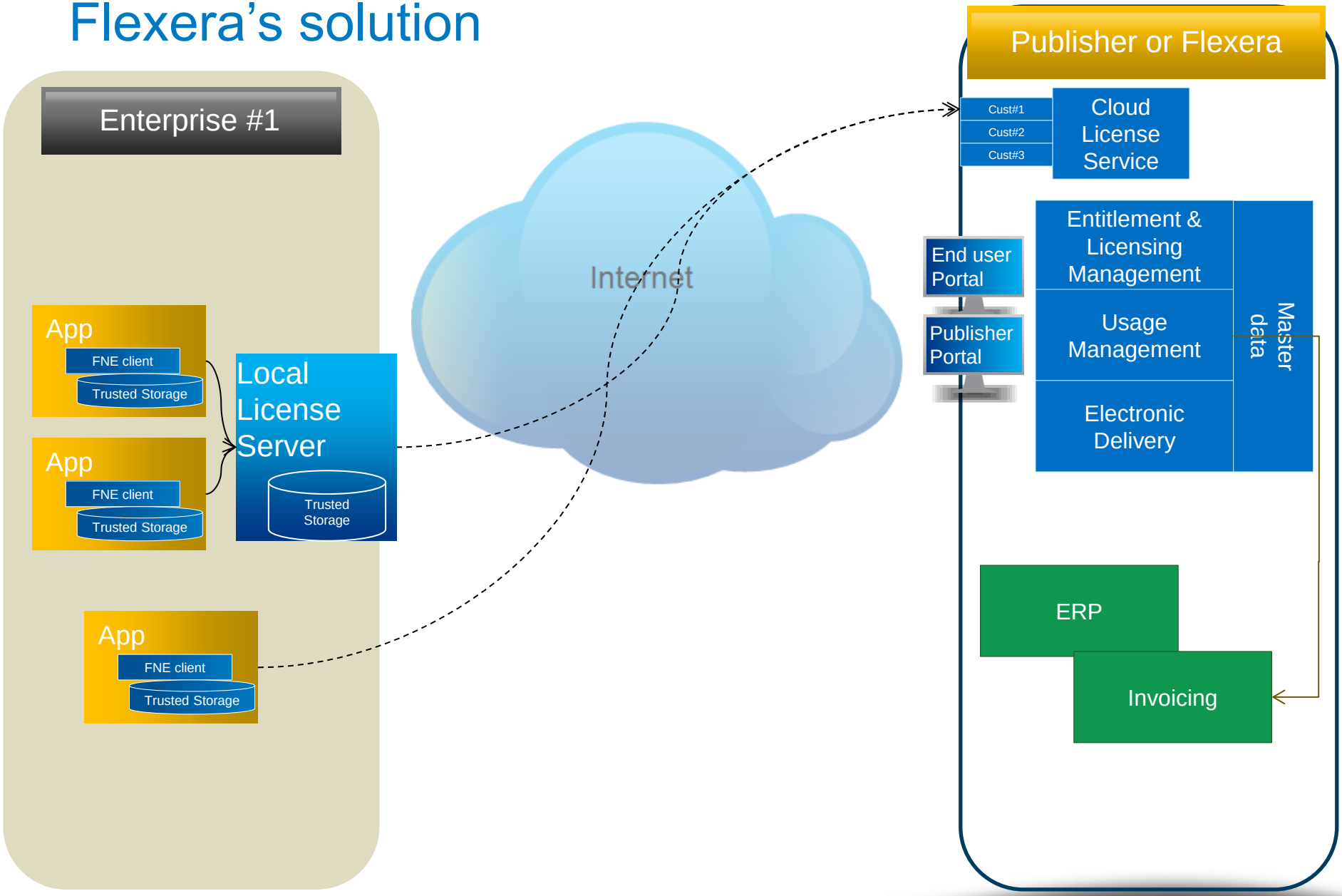
Customer Views Usage in Portal



Dropbox Enterprise Customer

Enterprise Uses Dropbox, Usage Data reported back to Server

Flexera's solution



FlexNet Operations winter 2014 targets

- End customer reports powered by JasperReports in Enterprise Portal
  - Pre-built reports for enterprise users in enterprise portal with permission enforcement, fully integrated, and extensible by Publisher
- Continued single UI for licensing/activations (“machine UI”)
- Support FlexNet Licensing enhancements
  - Enable multi-ownership of devices
  - Support offline server sync from FlexNet Embedded
- Revamp publisher user experience
  - Applying revamped enterprise UI look to the publisher portal

FlexNet Operations post 2014 targets

- Remove support of Cognos

- Enable plug-n-play licensing technology integration
  - Extensible host-id types (for FlexNet Publisher, FlexNet Embedded)
  - Pluggable business logic for license generation
  - Support publisher-defined fields for users, orgs & entitlements
  - Java license generation interfaces for FlexNet Embedded, FlexNet Publisher (re-use interfaces for homegrown)

End Of life

- End of support:
  - FlexNet Operations 12.5.0.1 and prior
  - Firefox 16 and prior
  - Internet Explorer 7.0 and prior

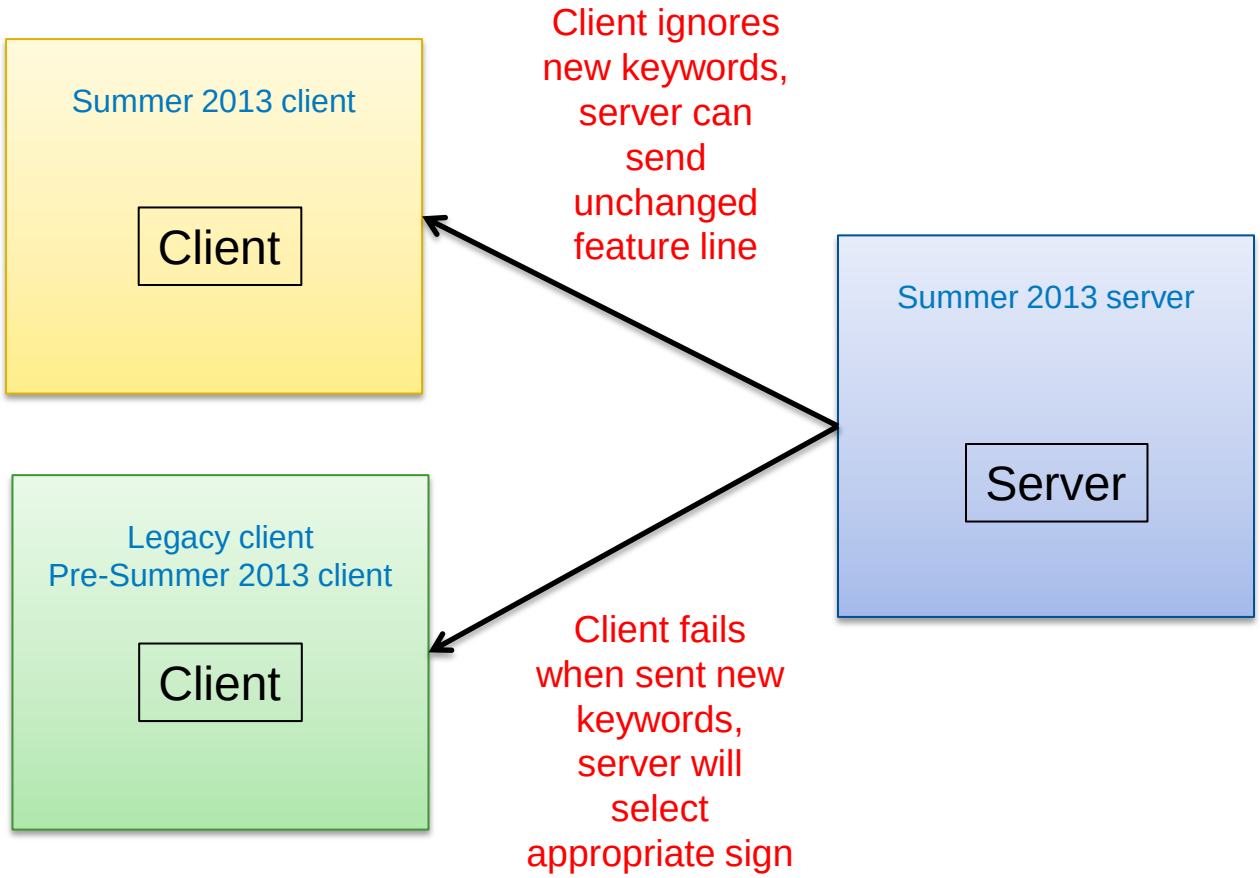
FLEXNET LICENSING

FlexNet Publisher

FlexNet Publisher summer 2013

Theme	Description	Trend
Improve backward compatibility	Ensure backward compatibility between client and server when adding in new license keyword Feature: • Eliminate X-version signature validation	#5 - Make licensing easier
Provide better diagnostics for easier support	Providing diagnostic information that would provide better insight into our customer licensing environment Feature: • Enable logging of local license server useful log information (statistics)	#5 - Make licensing easier
Provide better error handling for easier support	Improve the user experience with better error message Feature: • Improve error message handling in managing activation, license servers, etc..	#5 - Make licensing easier

Approach to ensure backward compatibility



If all clients are version >=N, then
    FEATURE f demo 1.0 permanent 5 NEWKEYWORD SIGN=xx
else for each version v_i < N client
    FEATURE f demo 1.0 permanent 5 NEWKEYWORD SIGN=xx Vv_1_SIGN=xx…Vv_n_SIGN=xx

Diagnostic information

- Provide additional environment information
  - General, network, host, shutdown, settings

```
(@lmgrd-SLOG@) ===============================================
(@lmgrd-SLOG@) === LMGRD ===
(@lmgrd-SLOG@) Start-Date: Mon May 20 2013 14:39:36 Pacific Daylight Time
(@lmgrd-SLOG@) PID: 3952
(@lmgrd-SLOG@) LMGRD Version: v11.12.0.0 build 127178 i86_n3 ( build 127178 (ipv
(@lmgrd-SLOG@)
(@lmgrd-SLOG@) === Network Info ===
(@lmgrd-SLOG@) Socket interface: IPV6
(@lmgrd-SLOG@) Listening port: 27000
(@lmgrd-SLOG@) Socket FD: 496
(@lmgrd-SLOG@)
(@lmgrd-SLOG@) === Startup Info ===
(@lmgrd-SLOG@) Is LS run as a service: No
(@lmgrd-SLOG@) Server Configuration: Single Server
(@lmgrd-SLOG@) Command-line options used at LS startup: -c counted.lic -l t
(@lmgrd-SLOG@) License file(s) used:  counted.lic
(@lmgrd-SLOG@) ===============================================
(@demo-SLOG@) ===============================================
(@demo-SLOG@) === Vendor Daemon ===
(@demo-SLOG@) Vendor daemon: demo
(@demo-SLOG@) Start-Date: Mon May 20 2013 14:39:37 Pacific Daylight Time
(@demo-SLOG@) PID: 8576
(@demo-SLOG@) VD Version: v11.12.0.0 build 127178 i86_n3 ( build 127178 (ipv6))
(@demo-SLOG@)
(@demo-SLOG@) === Startup/Restart Info ===
(@demo-SLOG@) Options file used: None
(@demo-SLOG@) Is vendor daemon a CVD: No
(@demo-SLOG@) Is TS accessed: No
(@demo-SLOG@) TS accessed for feature load: -NA-
(@demo-SLOG@) Number of VD restarts since LS startup: 0
(@demo-SLOG@)
(@demo-SLOG@) === Network Info ===
(@demo-SLOG@) Socket interface: IPV6
(@demo-SLOG@) Listening port: 55960
(@demo-SLOG@) Socket FD: 60
(@demo-SLOG@) Daemon select timeout (in seconds): 1
(@demo-SLOG@)
(@demo-SLOG@) === Host Info ===
(@demo-SLOG@) Host used in license file: scltnatarajan7
(@demo-SLOG@) Running on <Physical/Virtual>:  Physical
(@demo-SLOG@) LMBIND needed: No
(@demo-SLOG@) LMBIND port: -NA-
(@demo-SLOG@) ===============================================
```

Diagnostic information

- Provide performance data
  - Peak transactions over a period of time

```
(@demo-SLOG@) ================================================
(@demo-SLOG@) === Last 10 Client Requests Processing Time (in ms) ===
(@demo-SLOG@) Time: Mon May 20 2013 14:41:10 Pacific Daylight Time
(@demo-SLOG@) Request processing time, when, #concurrent clients, (private bytes (in KB)), client info (user, node, FD)
(@demo-SLOG@) 00000000 ms at 14:41:10(5/20/2013),#3,(4856K),(dnatarajan,scltnatarajan7,604)
(@demo-SLOG@) 00000000 ms at 14:39:50(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000000 ms at 14:39:50(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000156 ms at 14:39:50(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000000 ms at 14:39:50(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000000 ms at 14:39:50(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000000 ms at 14:39:50(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000000 ms at 14:39:49(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000000 ms at 14:39:49(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000141 ms at 14:39:49(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@)
(@demo-SLOG@) === Top 10 Peak Client Requests Processing Time (in ms) ===
(@demo-SLOG@) Time: Mon May 20 2013 14:41:10 Pacific Daylight Time
(@demo-SLOG@) Request processing time, when, #concurrent clients, (private bytes (in KB)), client info (user, node, FD)
(@demo-SLOG@) 00000172 ms at 14:39:49(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000156 ms at 14:39:47(5/20/2013),#3,(4916K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000156 ms at 14:39:48(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000156 ms at 14:39:50(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000141 ms at 14:39:49(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000140 ms at 14:39:49(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000140 ms at 14:39:48(5/20/2013),#3,(4916K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@) 00000016 ms at 14:39:49(5/20/2013),#3,(4912K),(dnatarajan,scltnatarajan7,764)
(@demo-SLOG@)
(@demo-SLOG@) === Top 10 Peak In-house Operations time (in ms) ===
(@demo-SLOG@) NOTE: Peak times greater than 4 seconds get recorded.
(@demo-SLOG@) Time: Mon May 20 2013 14:41:10 Pacific Daylight Time
(@demo-SLOG@) In-house operation time, when, #concurrent clients
(@demo-SLOG@)
(@demo-SLOG@) === Active Connections Info ===
(@demo-SLOG@) Peak active connections #3 attempted at Mon May 20 2013 14:39:39 Pacific Daylight Time
(@demo-SLOG@)
(@demo-SLOG@) === Memory Usage Info ===
(@demo-SLOG@) Peak private bytes 4964K attempted at Mon May 20 2013 14:41:10 Pacific Daylight Time
(@demo-SLOG@) ================================================
```

FlexNet Publisher winter 2013

Theme	Description	Trend
Increase manageability for borrowed licenses	Better support to reclaim borrowed license when access to the computing device is no longer available (e.g., stolen, lost, damage) Feature: • Provide functionality to reclaim a borrowed license from command line Limited to Trusted Storage	#5- Make licensing easier
Improve detect and prevent of virtual machine cloning	Reduce software license leakage due to virtual machine cloning Feature: • Support clone and backup/restore using ACPI Virtual Machine Generation ID • Support VMware, Hyper-V, Citrix Xen Limited to certain versions of Windows and Trusted Storage	#2- Virtualization
Platform updates	• Windows Server 2012 R2* • Windows 8.1 (Blue)* • Mac OS X 10.9 (Maverick)* • Visual Studio 2012 *dependent on OS release dates	

ACPI Virtual Machine GenerationID

- What is it?
  - Introduced by Microsoft to address some key problems that arise from virtual machine operations
  - 128-bit random integer
  - Extracted using the standard ACPI interface (requires elevated privilege)

- How does this apply to FlexNet Licensing?
  - Trusted storage will leverage ACPI GenerationID as part of the binding elements
  - Introduction of a new VM ID as part supporting certificate based licensing*

Scenario	Generation ID changed
Virtual machine is paused or resumed	No
Virtual machine reboots	No
Virtual machine host reboots	No
Virtual machine starts executing a snapshot (every time)	Yes
Virtual machine is recovered from backup	Yes
Virtual machine is failed over in a disaster recovery environment	Yes
Virtual machine is live migrated	No
Virtual machine is imported, copied, or cloned	Yes
Virtual machine is failed over in a clustered environment	No

*summer 2014

FlexNet Publisher summer 2014

Theme	Description	Trend

Improve detect and prevent of virtual machine cloning	Reduce software license leakage due to virtual machine cloning
	
	Feature:
	• Support clone and backup/restore using ACPI Virtual Machine Generation ID
	  • Support VMware, Hyper-V, Citrix Xen
	  • Certificate support (new composite hostid)
	• Support both node-locked and concurrent licensing model
	
	Limited to certain versions of Windows
		#2- Virtualization

Platform updates	• Red Hat Enterprise Linux 7* *dependent on OS release dates	

FlexNet Publisher post 2014 targets

- Provide a single, central administrative console to manage licensing servers
  - Central administrative console that is capable of managing all FlexNet Licensing local license servers
    - Consistent look and feel across licensing technology
    - intuitive administration for all FlexNet local license servers

End of life

- End of support for the following FlexNet Publisher platforms
  - Red Hat Enterprise Linux version 4.x (target for Summer 2013)
  - SGI IRIX 6.5.30 (target for Summer 2013)

- Additional info:
  - http://www.flexerasoftware.com/support/eol/flexnet-publisher-end-of-life.htm

FLEXNET LICENSING

FlexNet Embedded

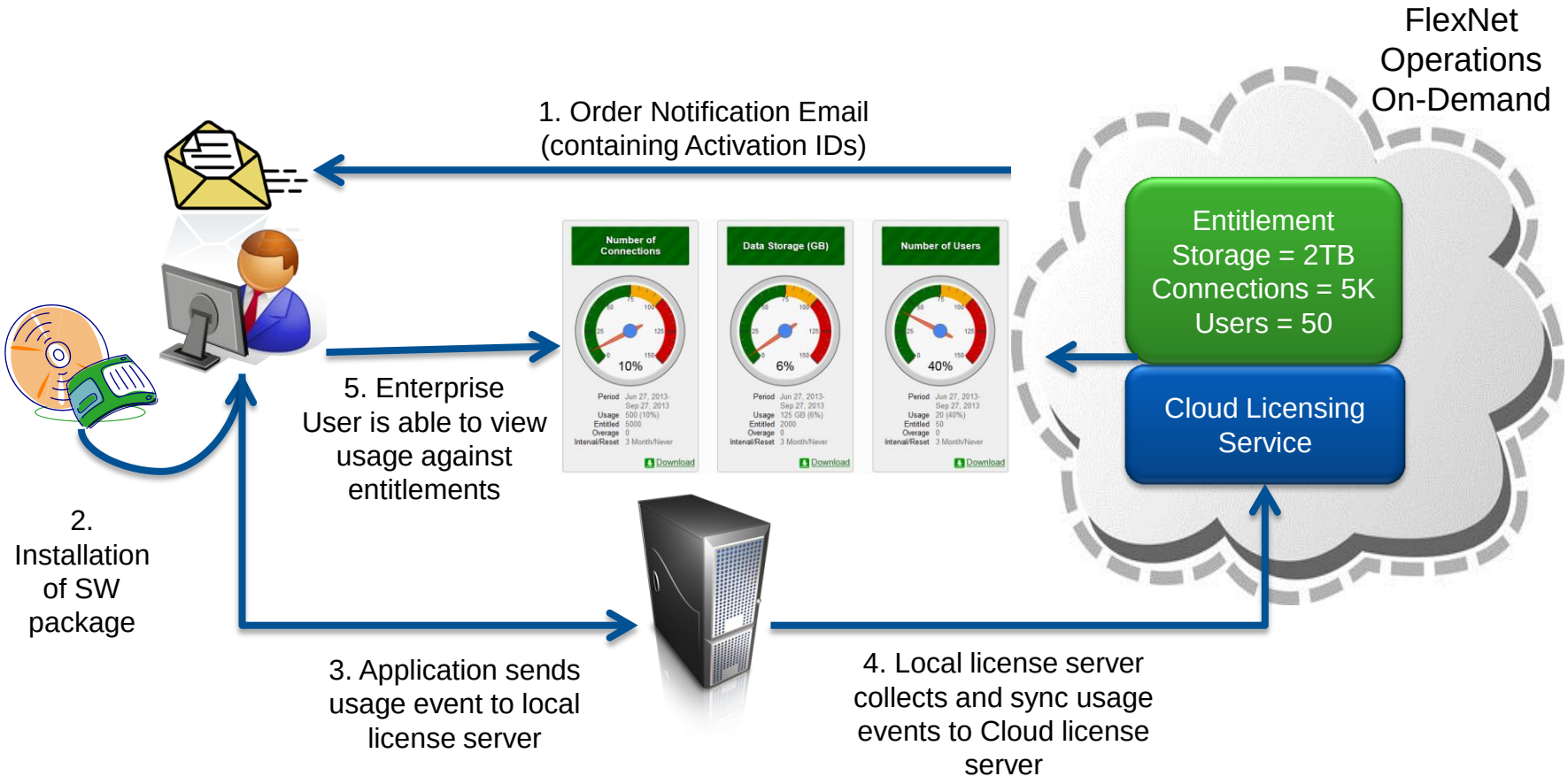
FlexNet Embedded fall 2013

Theme	Description	Trend
Increase licensing security	Minimize risk of license leakage by providing a secure environment for offline trials, evaluation, emergency, etc. license Feature: • Client support for secure anchor Limited to Windows and Linux	#4 - Security
Platforms update	• Support for C/C++ XT SDK on Mac OS X • Support for Java XT SDK on Mac OS X • Support PIC-enabled SDK	

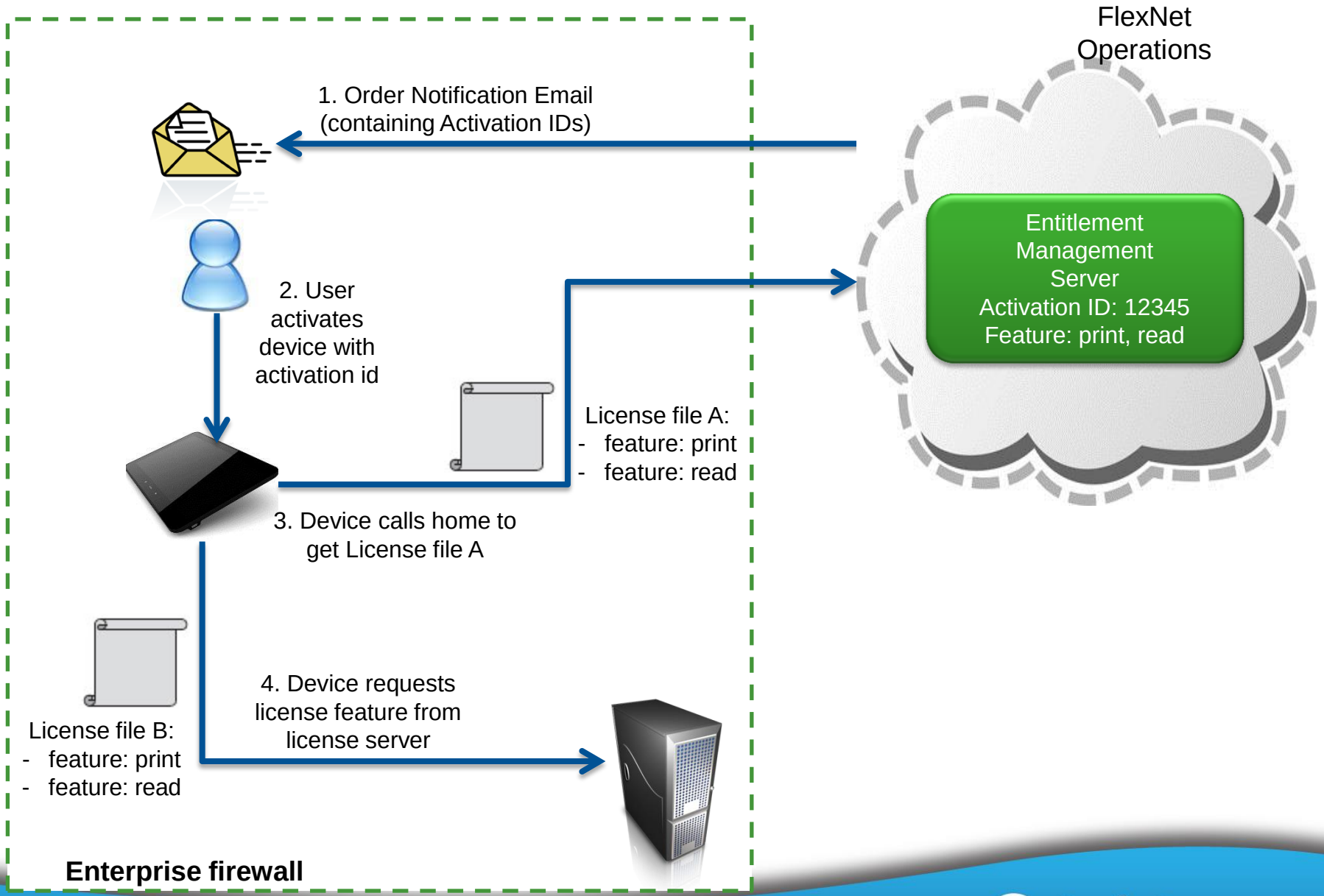
FlexNet Embedded spring 2014

Item	Description	Trend
Enable usage capture for on-premise software	Provide the ability to do "usage-based" licensing for applications running within enterprises' firewalls/data centers Feature: • Supports for usage-based models (metered, metered cap) • Supports local license server Requires: Usage capture & Back-office usage management	#1 - Usage-based licensing
Support for generation of FNE-license file	Local license server support for activation of device where: • space requirement is constraint • has variable license fulfillment source Feature: • Local license server support for generation of FNE-license file • Back-office generation of FNE-certificate style license support for connected client Limited: C SDK, non-usage local license server & FlexNet Operation	
Improve local license performance (“150K” devices)	Provide ability to manage 150K devices for a single license server Feature: • Support 150K devices • Improve license server restart time Limited: Non-usage local license server	#3 – IDM&M2M
Platform updates	• Windows Server 2012 R2* • Windows 8.1 (Blue)* • Mac OS X 10.9 (Maverick)* • Visual Studio 2012 *dependent on OS release dates	

Enable usage capture for on-premise software



FlexNet Embedded license file support



FlexNet Embedded fall 2014

Item	Description	Trend
Enable collection of usage and sync in a disconnected/ offline environment	Allow exporting of usage data and importing the data to back-office system Requires: Back-office license lifecycle management	#1 - Usage-based licensing
Support software tamper resistance application	Provide an additional layer of security protection to harden the application to minimize or reduce risk due to software piracy Limited: C/C++ XT SDK on Windows and Linux	#4- Security
Increase licensing security for local license server	Minimize risk of license leakage by providing a secure environment for offline trials, evaluation, emergency, etc. license Feature: • Local license server support for secure anchor	#4- Security

Tamper resistance targets

- Protection against…
  - Debuggers
  - Fraudulent signing of app & dlls
  - Removal of certificate
  - Modification of apps & dlls
- Obfuscation & Intertwining…
  - SDT like value but with aliases
    - Hide Strings
    - Hide Variable Contents
    - Hide Operations on Variables
    - Hide Imports From Static Analysis
    - Multiple Paths of Execution
  - Hide yes/no decisions
  - Thwart static analysis
  - Protection against in-memory patching

Current:

```
printf(
        "%s",
        "Please Enter a Number" );
```

```
push    offset aPleaseEnterANu ; "Please Enter a Number"
push    offset asc_45395C ; "%"
mov     ebx, eax
call    printf
```

Becomes:

```
printf(
        tra_get_string( T, S_PERCENT_S )
        tra_get_string( T, S_PLEASE_ENTE
```

```
push    ebp
push    7
push    esi
call    trust_get_string
push    3
push    esi
mov     ebp, eax
call    trust_get_string
mov     ebx, eax
push    ebx
push    ebp
call    printf
```

FlexNet Embedded post-2014 targets

- Support occasionally disconnected client (client store and forward)
  - Persist and manage the handling of storing and forwarding usage message to the back-office systems
  - Ability to support batch send of usage messages (asynchronously) on a scheduled based (configurable by both publishers and enterprises)
  - Query API when was the last time data was successfully sent and how much is left to be sent and how old is it.

- Improve detect and prevent of virtual machine cloning
  - Reduce software license leakage due to virtual machine cloning
    - Allow software producer to securely monetize their software in a virtual environment
    - Help Enterprise stay in software compliance due to virtual machine cloning

- Support license server in the cloud
  - A managed service offering that supports license server capabilities in a cloud environment
    - Addresses ease of license management and security

- Support named/user licensing model
  - Licensing model that would allow the use of application across multiple devices

- Add command line tools to automate and streamline license management:
  - Display local license server status and configuration properties
  - Configure/update local license server properties
  - Configure/update reservation list
  - Active local license server
    - Online and offline support

End of life

End of Standard Support for the following (implies only Limited Support available):

- Red Hat Enterprise Linux 5.x
- Java SE 6

End of Limited Support for the following (implies only Extended Support available):

- AIX 5.3
- Debian 5.x (Linux)
- FreeBSD 8.1
- Oracle Solaris 9
- Windows Embedded Compact 6.0 (formerly Windows CE 5.0)

End of Extended Support (implies NO SUPPORT):

- Debian 4.x (Linux)
- HP HP-UX 11iv1
- HP HP-UX 11iv2
- Java SE 5
- Windows Embedded Compact 5.0 (formerly Windows CE 5.0)
- Windows Embedded Standard 6.0 (formerly Windows XPe 6.0)
- Microsoft Visual Studio 2005

- Additional info:
  - http://www.flexerasoftware.com/support/eol/flexnet-embedded-end-of-life.htm