Non-scannable licensing data

From software asset management and licensing point of view, not only complex server environments, complicated infrastructure, or parallel application of cloud and traditional solutions may be challenging, but often, defining the license need of the apparently easier client-side products, too. Compliance of non-installation based usage requires particular attention when exact definition of software usage requires getting several data that cannot be determined by scanning workstations and servers. These cases may include:

- metrics of products with non-installation based licensing (e.g. number of users),
- the list of activated modules of a product (e.g. Oracle Database options), moreover
- server accesses without installed components (e.g. Microsoft Core CAL).

Often, it is not clear what type of data we need – that is, who or 'what' is a user from licensing point of view! Regular registry and update of usage data can also be difficult. The exact license need can only be defined in the possession of all product licensing information, upon thorough study and understanding of EULA, and analysis of usage data.

These cases share the trait that data can be obtained from a certain source, but the methods are individual, and earlier could be done only manually. With the help of a proper SAM application collecting and recording data can be automated, eliminating the need for human intervention.

New ACDC Module with Unique Functionality

ACDC, the Advanced Central Data Collector module of SAM-Insights performs the automated collection of these type of data, and automatically records them in the database of SAM-Insights, where the core system can register and handle them as Non-Installation Based Usage (NIBU).

ACDC makes data collection and regular update automated, substituting manual work, and human intervention. By means of ACDC, professionals, and application owners responsible for regular inspection of software usage can focus on the optimization of their license-stock instead of data collection.

Structure of ACDC

The figure below illustrates the information flow and components of ACDC:
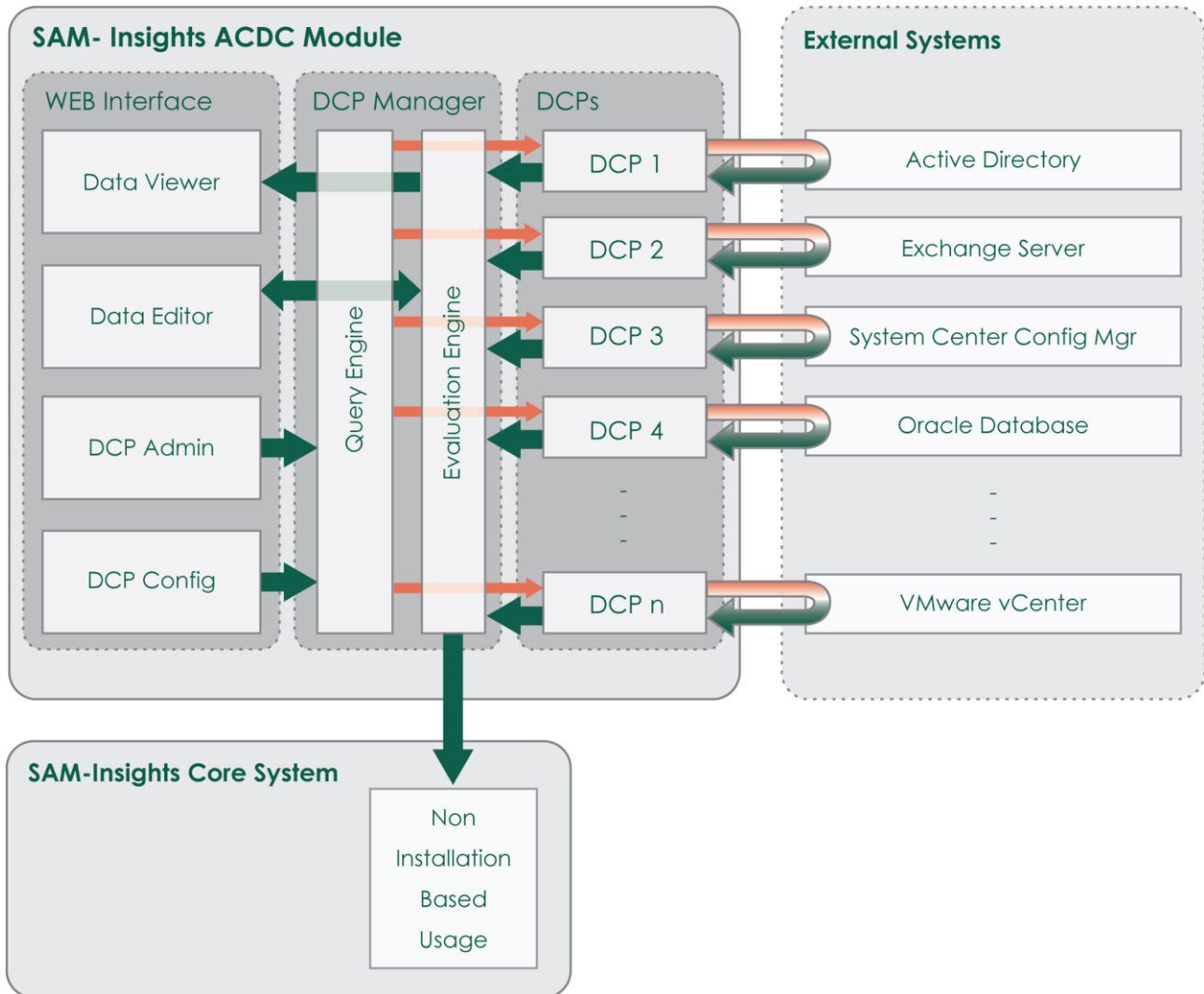
The key components of ACDC the **DCPs** (Data Collector Plugins). All of them query certain data from certain system. DCPs encompass the unique logic needed for the non-uniform queries from individual systems.

You can find the current list of available DCPs at the end of this document. The list is expanding, so automated query of an increasing number of systems are available. We also develop new DCPs upon individual client requests, so that the assessment of their critical, or even custom developed systems can be quickly automated.

Query Engine is responsible for the control of DCPs that is, querying data from external systems. **Evaluation Engine** receives and processes data provided by DCPs, then stores them as NIBU data of the relevant SAM-Insights sub-system.

Data collected by ACDC system can be displayed on a web interface (**Data Viewer**), and even modified with appropriate permissions (**Data Editor**).

The operation of DCPs requires the availability of the data source, and the proper permission granted. Its parameters can be set through the web interface (**DCP Config**), and also, each DCPs can be configured here (**DCP Admin**).

Data Collector Plugins (DCPs) Available for ACDC in October 2015

Product to assess	Version	Licensing method	Data to read
Microsoft Exchange Server	2007, 2010, 2013	per copy	Reading Exchange Server releases
Microsoft Exchange Server Enterprise CAL	2007, 2010, 2013	per user, per device	number of users/devices accessing Exchange Server Enterprise functions
Microsoft Exchange Server Standard CAL	2007, 2010, 2013	per user, per device	number of users/devices accessing Exchange Server
Microsoft Forefront Identity Manager User CAL	2010, 2010 R2	per user	User access number
Microsoft Lync Server	2010	per copy	reading Lync server releases
Microsoft Lync Server Enterprise CAL, Microsoft Lync Server Plus CAL	2010, 2013	per user, per device	number of users/devices accessing Lync Server Enterprise and/or Plus functions
Microsoft Lync Server Standard CAL	2010, 2013	per user, per device	number of users/devices accessing Lync Server
Microsoft Project Server CAL	2010, 2013	per user, per device	number of users/devices accessing Project Server
Microsoft SharePoint Server Enterprise CAL	2010, 2013	per user, per device	number of users/devices accessing SharePoint Server Enterprise functions
Microsoft SharePoint Server Standard CAL	2010, 2013	per user, per device	number of users/devices accessing SharePoint Server
Microsoft SQL Server	all		reading SQL Server Cluster status information (Active/Passive)
Microsoft System Center Configuration Manager	2012		CPU & VM number of servers managed by SCCM
Microsoft TS/RDS CAL	2008, 2008 R2, 2012	per user, per device	number of users/devices accessing Terminal Server/Remote Desktop Services
Software running in virtual environment	all		hardware and configuration data of VMware virtual infrastructure
Microsoft Windows Server CAL	all	per user, per device	number of users/devices accessing Windows Server
Oracle Database	all	per user, per CPU	list of options in use
SAM-Insights	latest	per transaction	endpoints registered in the SAM-Insights system
any product	all	per concurrent user	information on concurrent use of a certain process over a period (pre-requisite: metering)

Further Data Collector Plugins (DCPs) Scheduled for ACDC

Product to assess	Version	Licensing method	Data to read
Microsoft SQL Server CAL	mind	per user	SQL Server access umber
Microsoft System Center Operations Manager	2012	per user, per OSE (per CPU)	number of users/devices managed by SCOM
Microsoft System Center Configuration Manager	2012	per user, per OSE (per CPU)	number of users/devices managed by SCCM
Microsoft System Center Data Protection Manager	2012	per user, per OSE (per CPU)	number of users/devices managed by SCDPM
Microsoft System Center Endpoint Protection	2012	per user, per OSE (per CPU)	number of users/devices managed by SCEP
Microsoft System Center Service Manager	2012	per user, per OSE (per CPU)	number of users/devices managed by SCSM
Microsoft System Center Virtual Machine Manager	2012	per user, per OSE (per CPU)	number of users/devices managed by SCVMM
Oracle Active Data Guard	11g R1 and higher	Processor, Named User Plus	Oracle Database Option - Active Data Guard usage
Oracle Advanced Analytics		Processor, Named User Plus	Oracle Database Option - Advanced Analytics usage
Oracle Advanced Compression	11g R1 and higher	Processor, Named User Plus	Oracle Database Option - Advanced Compression usage
Oracle Advanced Security	9i R2 and higher	Processor, Named User Plus	Oracle Database Option - Advanced Security usage
Oracle Cloud Management Pack for Oracle Database	10g R1 and higher	Processor, Named User Plus	Oracle Database Management Pack - Cloud Management Pack for Oracle Database usage
Oracle Data Masking and Subsetting Pack	10g R1 and higher	Processor, Named User Plus	Oracle Database Management Pack - Data Masking and Subsetting Pack usage
Oracle Database In-Memory	10g R1 and higher	Processor, Named User Plus	Oracle Database Option - Database In-Memory usage
Oracle Database Lifecycle Management Pack	10g R1 and higher	Processor, Named User Plus	Oracle Database Management Pack - Database Lifecycle Management Pack usage
Oracle Change Management Pack	10g R1 and higher	Processor, Named User Plus	Oracle Database Management Pack - Change Management Pack usage
Oracle Configuration Management Pack	10g R1 and higher	Processor, Named User Plus	Oracle Database Management Pack - Configuration Management Pack usage
Oracle Provisioning and Patch Automation Pack	10g R1 and higher	Processor, Named User Plus	Oracle Database Management Pack - Provisioning and Patch Automation Pack usage
Oracle Database Vault		Processor, Named User Plus	Oracle Database Option - Database Vault usage
Oracle Diagnostics Pack	10g R1 and higher	Processor, Named User Plus	Oracle Database Management Pack - Diagnostics Pack usage
Oracle Label Security		Processor, Named User Plus	Oracle Database Option - Label Security usage

Product to assess	Version	Licensing method	Data to read
Oracle Multitenant	12c R1 and higher	Processor, Named User Plus	Oracle Database Option - Multitenant usage
Oracle OLAP	9i R2 and higher	Processor, Named User Plus	Oracle Database Option - OLAP usage
Oracle Database	9i R2 and higher	Processor, Named User Plus	Oracle Database product release
Oracle Partitioning	8i R18i R1 and higher	Processor, Named User Plus	Oracle Database Option - Partitioning usage
Oracle Real Application Clusters	9i R2 and higher	Processor, Named User Plus	Oracle Database Option - Real Application Clusters usage
Oracle Real Application Clusters One Node	11g R1 and higher	Processor, Named User Plus	Oracle Database Option - Real Application Clusters One Node usage
Oracle Real Application Testing	9i R2 and higher	Processor, Named User Plus	Oracle Database Option - Real Application Testing usage
Oracle Spatial and Graph	9i R2 and higher	Processor, Named User Plus	Oracle Database Option - Spatial and Graph usage
Oracle TimesTen Application-Tier Database Cache	10g R1 and higher	Processor, Named User Plus	Oracle Database Option - TimesTen Application-Tier Database Cache usage
Oracle Tuning Pack	10g R1 and higher	Processor, Named User Plus	Oracle Database Management Pack - Tuning Pack usage
Oracle WebLogic Server	all	Processor, Named User Plus	installed components, product release
Autodesk products	all	per concurrent user	reading information regarding concurrent use
IBM Tivoli Storage Manager PVU	6.x, 7.x	PVU	Tivoli Storage Manager & Tivoli Storage Manger Client - PVU usage
IBM Tivoli Storage Manager Extended Edition PVU	6.x, 7.x	PVU	Tivoli Storage Manager & Tivoli Storage Manger Client - PVU usage
IBM Tivoli Storage Manager for Mail PVU	6.x, 7.x	PVU	Tivoli Storage Manager & Tivoli Storage Manger Client - PVU usage
IBM Tivoli Storage Manager for Databases	6.x, 7.x	PVU	Tivoli Storage Manager & Tivoli Storage Manger Client - PVU usage
IBM Websphere / IBM MQ PVU	7.x, 8.x	PVU	Websphere MQ - PVU usage
IBM Websphere / IBM MQ PVU	7.x, 8.x	PVU	Websphere MQ Server - PVU usage
IBM Integration Bus PVU IBM Integration Bus Standard Edition PVU	8.x	PVU	Websphere Message Broker - PVU usage
IBM Integration Bus PVU IBM Integration Bus Standard Edition PVU	8.x	PVU	Websphere Adapters - PVU usage
IBM WebSphere / IBM MQ Advanced Message Security Component	7.x	PVU	WebSphere AMS Component - PVU usage

Product to assess	Version	Licensing method	Data to read
IBM Informix Growth Edition	11.x	PVU	Informix Dynamic Server - PVU usage
IBM Informix Ultimate Edition	11.x	PVU	Informix Dynamic Server - PVU usage
IBM Informix Growth Warehouse Edition	11.x	PVU	Informix Dynamic Server - PVU usage
IBM Informix Ultimate Warehouse Edition	11.x	PVU	Informix Dynamic Server - PVU usage
IBM Informix Express Edition	12.x	PVU	Informix Dynamic Server - PVU usage
IBM Informix Workgroup Edition	12.x	PVU	Informix Dynamic Server - PVU usage
IBM Advanced Workgroup Edition	12.x	PVU	Informix Dynamic Server - PVU usage
IBM Informix Enterprise Edition	12.x	PVU	Informix Dynamic Server - PVU usage
IBM Informix Hypervisor Edition	12.x	PVU	Informix Dynamic Server - PVU usage
IBM Informix Advanced Enterprise Edition	12.x	PVU	Informix Dynamic Server - PVU usage