Project Report on

License Portal Management For

PTC Software India



For



MES's Institute of Management & Career Courses (IMCC), Pune

Submitted to:

Submitted by:

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April 6, 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Akshata Gawari** final year MCA student of **MES's Institute of Management & Career Courses [IMCC], Pune** has been associated with us as **"Project Intern"** from July 2019 till date.

As per Company policy we cannot provide any kind of source code or executable to the Trainee. During project the candidate has worked with utmost dedication & sincerity. The candidate has worked on:

"License Management Portal"

The project was carried out in partial fulfillment of requirement for the award of degree of **Master Of Computer Applications** from **Savitribai Phule Pune University** for the academic year 2019-2020.

Your Sincerely,

for PTC Software (India) Pvt. Ltd.

Rucha Mantri HR Section Manager Maharashtra Education Society's



INSTITUTE OF MANAGEMENT AND CAREER COURSES (IMCC)

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DR. SANTOSH DESHPANDE Director Web Site: https://imcc.mespune.in Ref. No : MCA/Project/023/2020-21 Date : 14/09/2020

<u>CERTIFICATE</u>

This is to certify that the Project Report entitled "*License Management Portal*" is prepared by *Akshata Rohidas Gawari*, a student of *M.C.A.* Course for the Academic Year 2019-20 at M.E.Society's Institute of Management & Career Courses (IMCC), Pune - 411 038. M.C.A Course is affiliated to Savitribai Phule Pune University.

To the best of our knowledge, this is original study done by the said student and important sources used by him have been duly acknowledged in this report.

The report is submitted in partial fulfillment of M.C.A. Course for the Academic Year 2019-20 as per the rules & prescribed guidelines of Savitribai Phule Pune University.

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Dr. Ravindra Vaidya HOD, Department of MCA, IMCC

Dr. Santosh Deshpande Director, IMCC

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It is my proud privilege to express gratitude to the entire management and teachers of the institute for providing me with the opportunity to avail the excellent facilities and infrastructure of the institute. The knowledge and values inculcated have proved to be of immense help at the very start of my career.

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I also thank my project mentors who showed their concerns for my work, encouraged me to keep my best foot forward and gave valuable suggestions which not only helped me in my project work but will be useful in future too.

I would like to thank PTC (Parametric Technology Corporation) for providing me with an opportunity to pursue my industrial training, as it is an important part of the MCA course and it is the one that exposes you to the industry standards and makes you adapt yourself to the latest trends and technologies. At the same time, it gives an experience of working on a live project. I feel proud and privileged in expressing my deep sense of gratitude to all those who have helped me in presenting this assignment.

Sincere thanks to all my seniors and colleagues at company for their support and assistance throughout the project.

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CHAPTER 1:

INTRODUCTION

<u>1.1 Company Profile:</u>

PTC (formerly Parametric Technology Corporation) is a computer software and services company founded in the 1985 and headquartered outside of Boston, Massachusetts. The company was a pioneer in parametric, associative featurebased, solid computer-aided design (CAD) modelling software in 1988, including an Internet-based product for Product Lifecycle Management (PLM) in 1998. PTC markets products and services and an Internet of things (IoT) and augmented reality (AR) platform for partners and developers.

PTC has six core product families:

- Creo- It includes product design and engineering software solutions.
- Windchill- Windchill PLM includes a portfolio of different PLM capabilities such as CAD models, documents, technical illustrations, embedded software and calculation.

- Mathcad- Engineering calculation software that is used by engineers to solve, document and share the calculations used for product design.
- Integrity- The PTC Integrity product provides a set of Application Lifecycle Management (ALM) and Systems Engineering capabilities.
- 5. Servigistics- Service lifecycle management SLM software that is used by manufacturers to understand how service planning, customer service, and analysis of returned product data can improve service value over a product's life,
- 6. ThingWorx-- ThingWorx is based on ThingWorx Foundation, an application enablement platform used as a design and runtime engine for IoT applications. It also includes ThingWorx Analytics, Thingworx Industrial Connectivity, and Vuforia studio.

The Company's technology is primarily used by discrete manufacturers to design, operate and maintain complex products. PTC's technology is also used to connect products to the Internet for purposes of capturing and analyzing information from them.

Vision:

PTC has the most robust Internet of Things technology in the world. In 1986 we revolutionized digital 3D design, and in 1998 we were first to market with Internet-based PLM. Now our leading IoT and AR platform and field-proven solutions bring together the physical and digital world to reinvent the way you create, manufacture, operate, and service products. With PTC, global manufacturers and an ecosystem of partners and developers can capitalize on the promise of the IoT today and drive the future of innovation.

Introduction:

License Portal is a web-based application in which user can install, deinstall and move licenses for various products. It also provides address, contact and hardware management.

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License management report can also be generated which contains detail information of the licenses. License portal is available in various languages, so user can change it as per the preference

1.2 Existing System & Need for system:

Existing System:

An existing project management system was a desktop application on Oracle. The organizations who are using or purchased PTC product are end users of license management.

Need for System:

- In the existing system, the user/organization was required to send a request to the PTC Service desk.
- And as per the request from user/organization the Service desk staff used to install, uninstall, move licenses, etc.
- As the amount of product users increased exponentially with time, it was a tedious job to maintain thousands of records with only a smaller number of staffs.
- Also, there was a possibility of human errors in such tedious work.

• Therefore, to solve this problem, there was a need of Software that will do this processing task automatically just on simple user interaction.

1.3 <u>Scope of the system:</u>

- The License portal will allow the user to login as a customer and review his organization's licenses and perform action on it.
- This system will provide repository to download licenses of some specific products retrieved by the customer in last 7 days.
- The system will be able to generate a detailed spreadsheet of License report of the products.
- This system will help to change hardware information (HostID's) and also enable user to create, edit or deactivate contact and address information.
- It will allow user to search PTC Sales Representatives or resellers in their area.
- Users can also log a case if they are facing any issue regarding licensing.

 FAQs, tutorials, documentation, downloads and other related tools will also be provided for supporting the users.

1.4 **Operating Environment**

Client side:

- Processor: 1 gigahertz (GHz) or faster
- RAM: 1 GB or higher
- Hard disk: 10 GB or higher
- Internet: Speed of 500 Kbps per second or higher.
- Web browser such as Internet Explorer, Chrome or Firefox.

Server side:

- Operating System: Red Hat Enterprise Linux 6
- Processor: AMD Opteron 6378 2.4 Hz 16 core
- RAM: 64 GB
- Hard disk: 5 TB
- Application Server: JBOSS Enterprise Application Platform (EAP) 6.4

1.5 <u>Detailed Description of Technology Used:</u>

- Web MVC Framework: Spring4
- Object Relational Mapping (ORM) Framework: JPA2
- Web Pages: JSP
- Programming Language: jdk1.8
- User Interface Framework: jQuery, Foundation
- User Interface Validation: JavaScript
- Application Server: JBOSS EAP7
- Database:Oracle

CHAPTER 2:

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Proposed System

2.1 Proposed System

Problem Statement

In the existing system, the user/organization was required to send a request to the PTC Service desk and as per the request from user/organization the Service desk staff used to install, desinstall, move licenses, etc. As the amount of product users increased exponentially with time, it was a tedious job to maintain thousands of records with only a smaller number of staff. Also, there was a possibility of human errors in such tedious work.

Product position statement

For customers, who want to install, deinstall or move licenses, is a Web based application that allows customers to install, deinstall or move licenses for the product he purchased unlike existing system, the customer was required to send a request to the PTC Service desk our product allows customer to review his organization's licenses and perform action on it, generate spreadsheet of License report of the products.

Product Overview

The License portal allows the user to login as a customer and review his organization's licenses and perform action on it. The system can generate a detailed spreadsheet of License report of the products. System can also change hardware information (HostID's) and enables user to create, edit or deactivate contact information.

Allows user to search PTC Sales Representatives or resellers in his/her area. User can also log a case if he is facing any issue regarding licensing. FAQs, tutorials, documentation, downloads and other related tools will also be provided to support the user.

Summary of capabilities

- Mission and Vision Statement
 - To enable our customers to manage their product licenses and several Host IDs.
 - To create a simple and user friendly interface for managing licenses.
- Key Products and Services
 - License Portal can license almost all PTC products.
 - Also our Business team is working efficiently in tracking the logged cases by the customer.

Assumptions and dependencies

- We assume that customer has received a Software Order Confirmation Email which consist of Customer number, SON, SCN, Site Number and other details.
- For license file generation the application depends upon JMS (Java Message Service) which consist of

asynchronous calls so we cannot predict the time of retrieval of file.

• Also, it depends on license cutter execution which is nothing but a UNIX executable file that is responsible for its generation.

2.2 Feasibility Study

A Feasibility study is the study of positive possibilities of the project. The different types of feasibilities are as follows: -

Technical feasibility

Technically this project is very dedicated and has systematic execution. This website can run efficiently even on a very ordinary configuration machines. So developing License management is technically feasible.

Operational feasibility

License management is very easy to operate and has a user friendly designs so that the end user will be able to handle it casually. So License management is quite operationally feasible.

Economic feasibility

For any project to begin there is a fixed budget of organization allotted to it. To implement the entire licensing functionality on a web site is possible in the decided budget of organization.

2.3 Objectives of Proposed System

- To assist with License Management for client products.
- To improve efficiency of overall operations.
- To prevent lost revenue and slow licensing cycles.
- To integrate industry-appropriate metrics in order to better understand operations.
- To provide a consistent license management of a product throughout its lifecycle.
- To automate repetitive manual processes.
- To store license related data in a secure manner.
- To make data available and accessible from any location.

2.4 User Requirements

- Users must have a login ID and password to login to the website.
- User must know either one of these Sales Order Number (SON), Service Contract Number (SCN), Site Number.
- User must be aware about general information about products he purchased.
- Users must be able to search for objects and fields throughout the system.
- Users must have a basic knowledge of operating website.

CHAPTER 3 Analysis and Designs

3.1 Object diagram

ad:Address	c1:CustomerSubscription	a1:AssetTag
+ Address_id: 124587 + City:pune	+ subscription_no:78785 + Customer_id: 111	+ Asset_tag: 20200 + Customer_id: 111
+ Country: India		
		l1:License
h1:Hardware	C:Customer	+ License_no: 11-00-11-22
+ field: type	+ Customer_id: 111	+valid_till:01/02/2020
+ field: type	+ Customer_name: gopal	
+ field: type		p1:ProductFamily
		+ Product_familty_id: 001
con:Contact	s1:SON	+Product_family:thingworks
+ Contact_id: 010 + First_name:gopal	+sales_order_no:123 + Customer_id: 111	
+ email: gp1232@gmail.com		p2:Product
		+ Product_id:12
		+ Product_name:thingwc
		+ Quantity:1

3.2 Class Diagram



3.3 Use Case Diagram



Install License



Move License



Deinstall License



Manage Temporary Lock Licenses



3.4 Activity Diagrams

Login Activity


Available License Management Activity



Installed License Management Activity



Case Logger Activity



Address Management Activity







Hardware Management Activity



3.5 Sequence Diagram

Login Sequence







License Actions – Retrieve, Move, Deinstall,

Temporary Lock Licenses





Case Logger

Address Management



Contact Management



Hardware Management



3.6 Entity Relationship Diagram



3.7 Module Hierarchy Diagram



3.8 Component Diagram



3.9 Deployment Diagram



3.10 Module Specifications

User:

- Search License
- Install License
- Move License
- Retrieve License
- Log a case
- View Case History
- Deinstall License
- Create Address
- Update Address
- Inactivate Address
- Generate License Report
- Search Hardware
- Create Host / Triad
- Update Host
- Inactivate Host
- Create Contact

- Update Contact
- Inactivate contact
- Find Sales Representative
- Find tutorials, help topics and Product Specific Resources.

3.11 Web Site Map



3.12 User Interface Design (Screens)

• Create a new Customer Account.

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• Hardware Management

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• Find a Sales Representative or Reseller





• PTC Licensing Resources



5.15 Data Dictionary	3.13	Data	Dictionary
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Sr. no	Field Name	Data Type	Description	Table Name
1.	Customer_number	Int(6)	Customer Numbet	Customer
2.	Customer_name	Varchar(10)	Customer Name	Customer
3.	Туре	Varchar(10)	Type of Customer	Customer
4.	Sales_order_num ber	Int(6)	Sales order number	SON
5.	Customer_number	Varchar(10)	Customer Name	SON
6.	Subscription_num ber	Int(6)	Subscription number	Customer subscribtion
7.	Customer_number	Int(6)	Customer Name	Customer subscribtion
8.	Product_family_i d	Int(6)	Product family id	Product family
9.	consumer_number	Int(33)	Consumer number	Product family
10	Product_family	Varchar(10)	Product family name	Product family
11	Product_family_d escription	Varchar(50)	Product family description	Product family
12	Product_id	Int (10)	Product id	Product
13	Product_code	Int (10)	Product	Product

			code	
14	Product_name	Varchar(10)	Product name	Product
15	Product _description	Varchar(50)	Product description	Product
16	Product_version	Varchar(6)	Product version	Product
17	Quantity	Int(6)	Quantity of product	Product
18	Product_family_i d	Int(6)	Product family id	Product
19	Customer_number	Int(6)	Customer number	Product
20	Product_lic_type_ id	Int(6)	License type id	PRODUCT_L IC_TYPE
21	Product_family	Varchar(10)	Product family	PRODUCT_L IC_TYPE
22	Product _description	Varchar(50)	Product description	PRODUCT_L IC_TYPE
23	Product_version	Int(6)	Version of product	PRODUCT_L IC_TYPE
24	Product_lic_type	Varchar(10)	Type of license	PRODUCT_L IC_TYPE
25	License_number	int (10)	License number	License Table
26	Support_End_Dat e	date	End date	License Table
27	Status	Varchar(10)	Status	License Table

28	Customer_number	Int(6)	Consumer Id	License Table
29	Product_id	int (6)	Product id	License Table
30	AssetTag	Varchar(10)	Asset tag	Asset Tag
31	Customer_number	int (6)	Customer number	Asset Tag
32	Address_id	id (6)	Address id	Asset Tag
33	City	varchar(1 0)	Name of city	Asset Tag
34	State_province	varchar (33)	State	Asset Tag
35	Country	varchar (33)	country	Asset Tag
36	Product_descripti on	varchar(5 0)	Product descrioption	Asset Tag
37	Version	int (6)	version	Asset Tag
38	Customer_number	Int(6)	customer number	Asset Tag
39	Contact_id	Int(6)	Contact id	Contacts
40	First_name	varchar (10)	First name	Contacts
41	Last_name	Varchar(10)	Last name	Contacts
42	Email	Varchar(10)	email	Contacts
43	Phone	Int (10)	phone	Contacts
44	Customer_number	Int (10)	Customer	Contacts

			number	
45	Host_id	Int(33)	Host id	Hardware
46	Host_name	Varchar(10)	Host name	Hardware
47	Installation_site	Varchar(10)	site	Hardware
48	Customer_number	int (6)	Customer name	Hardware
49	Contact_id	Int(6)	Contact id	Hardware

3.14Table Specifications

Master Tables :

1) Customer Table

Field Name	Data Type	Size	Constraints	Description
Customer_number	Int	6	Primary Key	Identifies Customer uniquely
Customer_name	Varchar2	50	Not Null	Name of customer
Туре	Varchar2	50	Not Null	Type of customer

2) SON Table

Field Name	Data Type	Size	Constraints	Description
Sales_order_number	Int	6	Primary Key	Number associated with each purchase order
Customer_number	Int	6	Foreign key	References from Customer table

3) Customer Subscription Table

Field Name	Data Type	Size	Constraints	Description
Subscription_number	Int	6	Primary Key	Identifies Subscription uniquely
Customer_number	Int	6	Foreign key	References from Customer table
Field Name	Data Type	Size	Constraints	Description
--------------------------------	--------------	------	-------------	---
Product_family _id	Int	4	Primary Key	Identifies Product family uniquely
Product_family	Varchar2	50	Not Null	Product family code
Product_family _description	Varchar2	100	Not Null	Product family description
Customer_num ber	Int	6	Foreign key	References from Customer table

4) ProductFamily Table

Field Name	Data	Size	Constraints	Description
	Туре			
Product_id	Int	4	Primary	Identifies
			Key	Product
				uniquely
Product_code	Varchar2	20	Not Null	Code
				associated to
				the product
Product_name	Varchar2	30	Not Null	Product name
Product	Varchar2	50	Not Null	Product
_description				description
Product_version	Varchar2	10	Not Null	Version of
				product
Quantity	Int	4	Not Null	Quantity of
				product
Product_family_id	Int	4	Foreign	References
			Key	from
				ProductFamily
Customer_number	Int	6	Foreign key	References
				from
				Customer
				table
		1		

5) Product Table

Field Name	Data Type	Size	Constraints	Description
Product_lic_type_id	Int	4	Primary Key	Identifies Product license type
Product_family	Varchar2	30	Not Null	Product name
Product _description	Varchar2	50	Not Null	Product description
Product_version	Varchar2	10	Not Null	Version of product
Product_lic_type	Varchar2	20	Not Null	Quantity of product

6) PRODUCT_LIC_TYPE Table

Transaction Tables:

1) License Table:

Field Name	Data Type	Size	Constraints	Description
	гуре			
License_number	Varchar2	50	Primary	Identifies
			Key	License
				number
				uniquely
Support_End_Date	Date		Not Null	License
				Validity
				date
Status	Varchar2	10	Not Null	Status of
				license
Customer_number	Int		Foreign key	References
				from
				Customer
				table
Product_id	Int		Foreign	References
			Key	from
				Product
				table

2) Asset Tag Table:

Field Name	Data Type	Size	Constraints	Descripti on
AssetTag	Varchar2	10	Primary Key	AssetTag number
Customer_number	Int	6	Foreign key	Reference s from Customer table

3) Address Table:

Field Name	Data Type	Size	Constraints	Description
Address_id	Int	5	Primary Key	Identifies Address uniquely
City	Varchar2	50	Not Null	City name
State_province	Varchar2	20	Not Null	State name
Country	Varchar2	20	Not Null	Country name
Product_description	Varchar2	50	Not Null	Product description
Version	Varchar2	10	Not Null	Version number
Customer_number	Int	6	Foreign key	References from Customer table

4) Contacts Table:

Field Name	Data Type	Size	Constraints	Description
Contact_id	Int	5	Primary Key	Identifies Contact uniquely
First_name	Varchar2	20	Not Null	First name
Last_name	Varchar2	30	Not Null	Last name
Email	Varchar2	30	Not Null	Email address
Phone	Varchar2	20	Not Null	Phone number
Customer_number	Int		Foreign key	References from Customer table

5) Hardware Table:

Field Name	Data Type	Size	Constraints	Description
Host_id	Varchar2	20	Primary Key	Identifies Host uniquely
Host_name	Varchar2	20	Not Null	Host name
Installation_site	Varchar2	50	Not Null	Site of Installation
Customer_number	Int	6	Foreign key	References from Customer table
Contact_id	Int	5	Foreign key	References from Contact table

3.15 Test Procedures and Implementation

1. Unit Testing

Unit testing concentrates verification on the smallest element of the program – the module. Using the detailed design description important control paths are tested to establish errors within the bounds of the module.

In this system each sub module is tested individually as per the unit testing such as campaign, lead, contact etc are tested individually. Their input field validations are tested.

2. Integration testing

Once all the individual units have been tested there is a need to test how they were put together to ensure no data is lost across interface, one module does not have an adverse impact on another, and a function is not performed correctly.

After unit testing each and every sub module is tested with integrating each other.

System testing for the current system:

In this level of testing we are testing the system as a whole after integrating all the main modules of the project. We are testing whether system is giving correct output or not. All the modules were integrated and the flow of information among different modules was checked. It was also checked that whether the flow of data is as per the requirements or not. It was also checked that whether any particular module is non-functioning or not i.e. once the integration is over each and every module is functioning in its entirety or not.

In this level of testing we tested the following: -

- Whether all the forms are properly working or not.
- Whether all the forms are properly linked or not.
- Whether all the images are properly displayed or not.
- Whether data retrieval is proper or not.

Specific knowledge of the application's code/internal structure and programming knowledge in general is not

required. The tester is aware of *what* the software is supposed to do but is not aware of *how* it does it. For instance, the tester is aware that a particular input returns a certain, invariable output but is not aware of *how* the software produces the output in the first place.

Test Cases

Test cases are built around specifications and requirements, i.e., what the application is supposed to do. Test cases are generally derived from external descriptions of the software, including specifications, requirements and design parameters. Although the tests used are primarily *functional* in nature, *non-functional* tests may also be used. The test designer selects both valid and invalid inputs and determines the correct output without any knowledge of the test object's internal structure.

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Test Design Techniques

Typical black-box test design techniques include:

- Decision table testing
- All-pairs testing
- State transition Analysis
- Equivalence partitioning
- Boundary value analysis
- Cause–effect graph
- Error guessing

Advantages

- Efficient when used on large systems.
- Since the tester and developer are independent of each other, testing is balanced and unprejudiced.
- Tester can be non-technical.
- There is no need for the tester to have detailed functional knowledge of system.

- Tests will be done from an end user's point of view, because the end user should accept the system. (This testing technique is sometimes also called Acceptance testing.)
- Testing helps to identify vagueness and contradictions in functional specifications.
- Test cases can be designed as soon as the functional specifications are complete.

Disadvantages

- Test cases are challenging to design without having clear functional specifications.
- It is difficult to identify tricky inputs if the test cases are not developed based on specifications.
- It is difficult to identify all possible inputs in limited testing time. As a result, writing test cases may be slow and difficult.
- There are chances of having unidentified paths during the testing proces

Test Case:

1) User Login:

Test	Test Case			Test
Case	Description	Input Steps	Expected Result	Case
Id	Description			Status
TC 1	To check user enter a wrong username	Open login page enter login name.e.g. User Name=" " Password=" "	Proper message should be displayed as "Sorry, you did not provide a username and password. Please try again.".	Failed
TC 2	To check user enter a wrong username	Open login page enter login name.e.g. User	Proper message should be displayed as "Sorry, the account xyz does not exist in our records.".	Failed

		Name=xyz Password=xyz		
TC 3	To check user enter a wrong username	Open login page enter login name.e.g. User Name="raj" Password="12 3%Computer"	Display message as "Login Successful".	Passed

2) Advanced Search:

Test				Test
Case Id	Test Case Description	Input Steps	Expected Result	Case Status
TC 1	To check user left SON, SCN, Host ID, Subscription Number, Asset Tag and Product Group field blank	If SON, SCN, Host ID, Subscription Number, Asset Tag and Product Group is left blank by user and clicks on Search	No records should be displayed.	Failed
TC 2	To check user enter any alphabet in SON field	If SON = '123abc' and click on Search	No records should be displayed.	Failed
100	10 check user	II SON =	Licenses should be	1 45504

	enter a	'1234567' and	displayed.	
	number in SON field	click on Search		
TC 4	To check user enter any alphabet in SCN field	If SCN = '123abc' and click on Search	No records should be displayed.	Failed
TC 5	To check user enter a number in SCN field	If SCN = '1234567' and click on Search	Licenses should be displayed.	Passed
TC 6	To check user enter any alphabet in Host ID field	If Host ID = '123abc' and click on Search	No records should be displayed.	Failed
TC 7	To check user enter a series of 6 two-digit numbers in	If Host ID = '00-02-3F-6C- 00-A2' and click on Search	Licenses should be displayed.	Passed

	Host ID field			
TC 8	To check user enter any alphabet in Subscription Number field	If Subscription Number = '123abc' and click on Search	No records should be displayed.	Failed
TC 9	To check user enter a number in Subscription Number field	If Subscription Number = '178F39DA- 0D3C-41B7- 8F22- 2B1C2709C403 and click on Search	Licenses should be displayed.	Passed
TC 10	To check user enter any alphabet in	If Asset Tag = '123abc' and click on Search	No records should be displayed.	Failed

	Asset Tag field			
TC 11	To check user enter a number in Asset Tag field	If Asset Tag = '12345678' and click on Search	Licenses should be displayed.	Passed
TC 12	To check user enter any alphabet in Product Group field	If Product Group = '123abc' and click on Search	No records should be displayed.	Failed
TC 13	To check user enter a number in Product Group field	If Product Group = '1234567' and click on Search	Licenses should be displayed.	Passed

3) Address Management:

	Test Case			Test
Test Case Id	Descriptio n	Input Steps	Expected Result	Case Status
TC 1	To check user left Address, City, State, Postal code, Country fields blank	If the user left Address, City, State, Postal code, Country fields blank and click on Create Address	Proper message should be for each field as "Field Name is mandatory"	Failed
TC 2	To check user enter a symbol in Address Field	If Address = "Weikfield@Vima ngar 2" and click on Create/Update Address	Proper message should be for each field as "Only Alphanumeric characters are allowed"	Failed

TC 3	To check user enter alphanume ric characters in Address Field	If Address = "Weikfield Vimangar 2" and click on Create/Update Address	Proper message should be displayed "A case has been created to let you track status of your request. Your case number is: 12345678"	Passed
TC 4	To check user enter any digit or symbol in City Field	If City = "Pune@2" and click on Create/Update Address	Proper message should be for each field as "Only Letters are allowed"	Failed
TC 5	To check user enter only letters in City Field	If City = "Pune" and click on Create/Update Address	Proper message should be displayed "A case has been created to let you track status of your request. Your case number is: 12345678"	Passed

	To check			
TC 6	user enter any digit or symbol in State/Provi nce Field	If State/Province = "Maharashtra@2" and click on Create/Update Address	Proper message should be for each field as "Only Letters are allowed"	Failed
TC 7	To check user enter only letters in State/Provi nce Field	If State/Province = "Maharashtra" and click on Create/Update Address	Proper message should be displayed "A case has been created to let you track status of your request. Your case number is: 12345678"	Passed
TC 8	To check user enter any digit or symbol in Country Field	If Country = "India@2" and click on Create/Update Address	Proper message should be for each field as "Only Letters are allowed"	Failed

			Proper message should	
	To check	If Country =		
	ucon onton	"Maharaahtra" and	be displayed "A case	
	user enter	ivianarasitira and	has been created to let	
TC 9	only letters	click on		Passed
			you track status of your	
	in Country	Create/Update		
	E: 14		request. Your case	
	Field	Address	number is: 12345678"	
			number 15. 12545070	

CHAPTER 4:

USER MANUAL

4.1 USER MANUAL

Getting Started

You will need access to the internet and a web browser like Chrome, Firefox, Internet Explorer 10+, Safari 5.1+, Opera.

User:

Open your web browser and type link provided to User i.e. support.ptc.com

Step 1:

You can register as a new customer.

Step 2:

You can ask for login. For login enter valid user name and password.

Step 3:

After login you can Click on Manage Licenses.

Step 4:

You can perform several License Actions.

Step 5:

You can search a license by various fields.

Step 6:

You can log a case if you are facing certain issue.

Step 7:

You can generate License Report.

Step 8:

You can perform Address Management.

Step 9:

You can perform Contact Management.

Step 10:

You can perform Hardware Management.

Step 11:

You can find a Sales Representative or Reseller.

Step 12:

You can use PTC Licensing Resources for Help.

Step 13:

You can also submit your feedback.

Step 14:

Log out successfully.

4.2 OPERATION MANUAL/MENU EXPLANATION

1) License Actions

- a) Advanced Search
 - User can search the available and installed license related to the product he purchased, by any one of the below fields:
 - Sales Order Number (SON)
 - Service Contract Number (SCN)
 - Host ID/ Triad
 - Subscription Number
 - Asset Tag
 - Production Group

- b) Case Logger
 - If the user is having any query related to license management he/she can open a case which will be handled by Business team.
- c) License Management Report
 - License Management report can be generated consisting all the details of base license and modules

in it.

2) Asset Management

- a) Address Management
 - User can create a new address
 - Update the existing address
 - Deactivate the address if it no more exists
- b) Contact Management
 - User can create new contact
 - Modify the existing contact
 - Inactivate the contact if no more in use

- c) Hardware Management
 - User can create Host / Triad.
 - Update the existing hardware.
 - Inactivate the hardware.

3) Resources

a) Find a Sales Representative or Reseller

User can find the sales representative or reseller

located near him/her, by providing Site number

b) PTC Licensing Resources

PTC licensing resources such as tutorials, help topics, software downloads, etc. is provided for user guidance and support.

4.3 Program Specifications / Flow Charts:

1. User Authentication (Login)

Module Name		Authentication and Authorization
Program Name		Login to the System
Purpose		Check Authentication for User
Event		Click on "Login" Button
Input	Constraint	Description
Login Details (Emails and password)	The Required field must not be null and input data should be valid.	Login details get checked against database.
Output The Login deta to check the a gets notification		ils get checked against database authentication of user and user n message of successfully login.

FLOW CHART



Drawbacks and Limitations

Drawbacks and Limitations

 Whenever a license file is generated the control is handover to JMS (Java Message Services), so we cannot predict the execution of JMS as they are the asynchronous calls. Hence, we cannot determine the exact

time to receive a license file.

It requires at max 10 minutes.

- License portal uses a lot of procedures and function calls to provide different functionality such as generating license reports, so the performance of the system is bit slow.
- Not all products are being licensed through portal, currently products belonging to the product family CoCreate, Flex, Integrity are licensed.

Proposed Enhancement

Proposed Enhancement

• In future we are planning to include other PTC products

licensing through the portal.

- License portal also integrates with other services that helps in retrieving licenses of the third party products.
- We are planning to integrate such more services in the portal.

CONCLUSION

CONCLUSION

- This project proved good for me as it provided practical knowledge of not only Spring Framework, but also about all handling procedure related with "License Management".
- It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future.
- The entire project has been developed and deployed as per the requirement stated by the PTC Business Team.
- This will provide better opportunities and guidance in future in developing projects independently.
- Our company is planning to integrate in future and do it as an enhancement.
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BIBILOGRAPHY

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 - ➢ <u>www.java2blog.com</u>
 - ➢ <u>www.oracle.com</u>
- Reference Books
- Getting Started with Spring Framework
- Spring MVC: Beginner's Guide

- Spring in Action
- Spring 4 for Developing Enterprise Applications

ANNEXURE 1: USER INTERFACE

SCREENS

• Create a new Customer Account

support.ptc.com/appserver/common/account/createAccount	tjsp		6
📚 ptc		Tools Resources Login	
Home > PTC.com Accounts > Create	New PTC eSupport Account		
Create New P	IC eSupport Account		
New Customer Partner	Basic Academic		
All fields marked with a * are re	iquired.	Customer Account: If you, or your company, have purchased	
* First Name:		a Global support agreement with PTC, you are encoded to this account level.	
* Last Name:		Please refer to your PTC Software Order Fulfillment Letter	
* Title:		account, such as your Service Contract Number (SCN).	
* E-mail:	This will be your username	Please click here if you need help with registration.	
* Confirm E-mail:			
* Telephone:			
* Address:			
* City:			
State/Province:	•		
Zip/Postal Code:			
* Country:	United States 🔹		
* Preferred Language	English T		
I would like to receive PTC pro	duct and services related e-mail: UYes @No		
* Password:			
* Confirm Password:			



• Home page

• Advance Search :



S Advanced Search X -	+						-	
← → C ☆ 🕯 support.ptc.com	n/apps/licensePortal/auth/ssl/advsearc	h					0, ☆	Θ:
	📚 ptc			Tools	Resources	Akshala Gawari		Î
	Home>Support License Manageme	nt						
	Home License Actions = Asset /	Management - Resources -	Download Software	Admin 👻		Welcome, PTC (341)		
	Advanced Search							
	Sales Order Number (SON)	0	Lookup Ser	rvice Contract Number (SCN)		Lookup		
	Host ID / Triad	0	Lookup	bscription Number		O Lookup		
	Asset Tog	0	Lookup Pro	oduct Group		Lookup		
			Cieor Sec	orch				
\$		Why PTC Products Education Try & Buy Leadership		Investor Relations News Partners Blogs Global Locations		fy∕in⊄	•	
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User can search by any of the field to get Available/Installed Licenses.

On clicking on Search, you will get the Available and Installed Licenses

List of Available licenses:

⊗ Advanced Search x +		- ð ×
← → C ☆ 🕯 supporttest.ptc.co	om/apps/licensePortal/auth/ssl/advsearch	લ ☆ 🖯 :
	Took Resources AkshalarGowari	
	Home > Support License Management	
	Hame Elsense Actions + Aest Management + Resources + Download Software Admin + Welcome, PIC (241)	
	Advanced Search	
	3143317 Distate Service Contract Number (SCN) O Lottue	
	Hort ID / Yind O Koke Subscription Number O Koke	
	Asset Tog O Looke Product Group O Looke	
	Cor Sand	
	Available License	
	Show 10 - entries Search:	
	Product Product Description Support End Soft SON SON SON SON SON Asset Tog	
	Image:	
	Phi-CPE401A ThingHow Novigote Contribute ADU Jon 22, 2021 8048317 092285880 Provides Provides Provides International Internatione Internatione International Internationa International Internat	
	Instal License Log Case for Upgrade Products Rev Up Update Aust Tag	
	Peak role that a product package is considered one item, no matter the serviceable item's product statur. Any loening action will be performed at the product package level	
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📕 🖓 🖻 🗖 🦉 🛄	N 10 A 10	47/ ENG 3/31/2020 1

Clicking on + in available license list you will get sub products.



On selecting the product and clicking on install License button

😵 ptc						
		Tool	Resources	Akshata Gav	vari	
Home > Support						
License Management						
Home License Actions + Asset Management + Res	ources + Download Soft	tware Admin +		Welcome, I	PTC (341)	
Advanced Search						
3043317	0 Lookup	Service Contract Numb	er (SCN)	0 Look		
Host ID / Triad	0 Lookup	Subscription Number		0 Look	P	
Asset Tag	0 Lookup	Product Group		0 Looks	•	
	Ceor	Search				
A2464 (income						
Available blockse						
Show 10 • entries			Ser	arch:		
Product Product Description		Support End Date SON	SCN	Subscription Asset Number	Tog	
PKG-REPWINC-F- Windchill Solutions Rep Package	•	Jan 22, 2021 3043317	2A154191		_	
PH-CPESH31-F- Thing Wax Novigate Contribute Showing 1 to 2 of 2 entries	ADU	Jan 22, 2021 3043317	0R2280680	Provinus	1 Next	
instal License	Log Case for Upgrade P	hoducts Rev Up Up	adate Asset Tog			
Please note that a product package is considered one item	no matter the serviceable	e item's product status. Any licen	ing action will be perform	red at the product pac	koge level	

A popup occurs -

Enter quantity less than total quantity.

Provide Host Id to install license on and select Zip or text radio button (in which type you want license File).



After clicking on install License confirmation box appears.



We will get one message at the top of case creation of successful transaction with case number:



You can verify the changes:

In Available License tab

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V				Tools	Resources	i Aksi	hata Gawari	
Home > Support								
License Manag		Remand a Doubland to Burn	. Admin v			w	alaama RIC (241)	
Advanced Search	Age indiagonen -						econic, n.c. (341)	
						0	-	
3043317			Service Contro	ict Number (SC	N)	0	Lookup	
Host ID / Triad		U Lookup	Subscription N	umber		A	subscription products in the Ins	tolled
Asset Tog		🕑 Lookup	Product Group	2		Bo NU Suit	se will now have a subscription mber associated with them. ascription product will begin ge intered to new SCM sumber	tting
		Ciecr	Search			<u> </u>	greatoriew solvinanioes.	
Avoilable License	Installed License							
Show 10 • entries					S	earch:		
Product	Product Description	Host ID / Triad	Support End Date	SON SC	N Sub: Num	actiption As aber To	set Retrieve g license	
■ + SPN-CPE5431- 5-	hingiWax Navigate Carthiou	te ADU 10-02-85-19-F1-54	Jon 22, 2021	3043317 OR	2280680		Retrieve license	
Showing 1 to 1 of 1 entries						Pi	evious 🚺 Next	
	Move License Deins	tal Licenses Update Asset Tap	Manage i	emporary Locked	licenses	Rev Up		
Process 1 1 1 1 1					· · · · · · · · · · · · · · · · · · ·			

License mail:



License File Contents:

_____ #License Pack for Request ID 1726568 31-Mar-2020 #This License pack was requested by: PTC Host ID 10-02-B5-19-F1-54 #-------------# PTC License Pack # IMPORTANT SOFTWARE LICENSING INFORMATION # Retain this for your records. #Customer :PTC #Site : PTC # # :140 KENDRICK STREET # # :NEEDHAM, MA 02494 # :US # :, #Contact :SANNY FANG #Email :SFANG@PTC.COM #Customer Number :341 #Install Site No :234366 # PTC Host ID 10-02-B5-19-F1-54 ******************* #259 1 Arbortext IsoDraw 3D 7.3 Extensions Ext 16-oct-2021 2A154191 #260 1 Arbortext IsoCompose 16-oct-2021 2A154191 7.3 Ext #0 1 NOTEBOOK 16-oct-2021 2A154191 Creo 7.0 Ext #START: License File for HOST ID 10-02-B5-19-F1-54 #-----_____ SERVER __HOSTNAME__ PTC_HOSTID=10-02-B5-19-F1-54 7788 DAEMON ptc_d __PTCD_PATH__ # Serviceable = Arbortext IsoDraw Rep Options # Feature Name = 259 # Feature Version = 7.3

2. Case logger

Click License Actions > Case Logger

📚 ptc	Tools Resour	ces Akshala Gawari
Home > Support License Management		
Home License Actions - Asset Management - Best Advanced Search Case Lagger	suces = Download Soffware Admin =	Welcome, FIC (341)
30433 Loense Nonagement Reports Kost IC	Ο Service Contract Number (βCN) Ο Letter Subscription Number	O Lookes O Lookes
Asset Tog	Looka Product Group Ceor Teach	O toolo
Why PTC Products	Investor Relations News	fy∕in œ
Education Try & Buy Leadership	Partners Blogs Global Locations	
	opyright 2020 PTC Legal Policies Quality Policy	

A form is displayed, fill user details.

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	📚 ptc	Tools	Resources	Akshata Gawari		
	SUPPORT					
	Case Logger					
	Open a Case					
	You can open a case for yourself or your customer. on the Search Button will provide a list of customers	To open a case for your customer to choose from.	start by checking the bax i	below and fill in at least one	feld filed. Clicking	
	II I would like to open case on behalf of customer					
	Email					
	agawari\$ptc.com					
	Fist Name	Last Name				
	Aishoto	Gawał				
	Company	Customer Number				
	PIG .	341				
	Search Reset					
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<u></u>	Why PTC Brootwate		Investor Relation		t Ƴ in ¤	
	Education		Partners			
	Try & Buy		Blogs			
	Leadership		Global Location			
		Copyright 2020 PTC Legal	Policies Quality Po	alicy		
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On clicking next.

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	📚 ptc	Tools Resources Akshata Gawari		
	SUPPORT			
	Case Logger			
	Welcome to the PTC Case Logger Mast issues can be solved immediately by the articles Dylan, our Searc solution. If Dylan cannot provide the answer to your issue, but click the	h Bipert, provides. Please fill in the fields below and let Dylan cor link at the bottom of the page to open a case.	me up with the best	
	Which product are you using?			
	Do you want to open a case with PTC Cloud Services? *			
	Tell us about the issue you are having 🛛			
	Type in a description of your issue. For example "User is unable to exp	ort search results to Excel".	Submit 🕈	
۵		Investor Relations	f yr in ¤	
~	Products	News		i i
	Try & Buy	Blogs		1
	Leadership	Global Locations		
		TC Level Delicies OralityDelicy		
		Logal Polices Guality Policy		
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Articles are displayed related to your issue.

You can either click on Issue Solved or a link named '<u>here</u>' if your issue is not solved.



3. License Management Reports

Click License Actions > License Management Reports

Select Type: Serviceable / Orderable and Criteria: Entire Customer / SCN > Click Submit

Advanced Search X +					– o ×
← → C △ @ supporttest.ptc.co	n/apps/licensePortal/auth/ssl/advsearch				९ ☆ 🖰 :
	📚 ptc		Tools Res	iources Akshala Gawari	
	Home > Support License Management				
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	License Management Reports			
	Please select from the options below to obtain your license report.			
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Will get mail which include following report:

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4. Address Management



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	138733	FTC		4917 ALBEMARLE ROAD	CHARLOTTE	NC	28205	United States	Edit		
	156609	PTC		300 NORTHWEST MIDDLE ROAD AT	BETTENDORF	A	52722	United States	Edit Hackate		
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Create new Address:

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Successful case includes updated data as follows:

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We can edit Address using EDIT button:

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	Please select one of the op	plions below to modify an address.		
	Create Address			
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After editing address click on "update address" button to update it and then again it will create success case with some case number.

Inactivate Address

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Click on Inactivate, a confirmation box appears.

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On clicking ok it will again create case and address will get inactivated.

5. Contact Management

Select Asset Management > Contact Management

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This shows message that contact is created.

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Update/Edit contact:

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b) Edit Hardware

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Stat PTC Status 99-88-77-(MOCOV TPh-328-97- Installed Parpetal JASISIS) CONIDO 14 Marca 323449 PTC Location 14 PTC Status Installed Parpetal JASISIS) CONIDO 14 Marca 323449 PTC Location 14 PTC Status Installed Parpetal JASISIS CONIDO 14 Marca 323449 PTC Location 14 PTC Status Installed Parpetal JASISIS CONIDO 14 Marca 323449 PTC Location 14 PTC Status Installed Parpetal JASISIS CONIDO 14 Marca 323449 PTC CONINCIP 14 PTC Status Installed Parpetal JASISIS CONIDO 11 Marca 323449 PTC CONINCIP 14 PTC Status Installed Parpetal JASISIS CONIDO 11 Marca 323449 PTC CONINCIP 14 PTC Status PTC Status PTC CONINCIP PTL REPARAMETIC CON INFORMATION CONIDO 11 Marca 323449 PTC CONINCIP 14 PTC Status PTL REPARAMETIC CON INFORMATION CON INFORM	341	PTC	2347455	99-88-77-	(MOODY	MCH-SP1471-F-	Therma	NMCH-SP14	Thermal N40	5 1	3439384	F	Installe	d Perpetua	a 2A15419	EXPIRED	24-Mar-2	0234366	PTC		140 KEN	DRIC
Sate FPL EPJ REP FLIG - SEP SCHOOL FPL REP FLIG - SEP Color Sold at processing status (Sep School Installed Perpetual JASISIS DORISD 11.4.020(2014) FPL REP FLIG - SEP Color Sate FPL SSIMAT CX-AP4 - Hold RIP Color FPL REP FLIG - SEP Color SSIMAT Installed Perpetual JASISIS DORISD 11.4.020(2014) FPL REP FLIG - SEP Color F	341	PTC	2347455	99-88-77-	(MOODY	PTN-3269-F-	Therma	NMCH-3265	Thermal N40	5 1	3439385	E.	Installe	d Perpetua	2A15419	L EXPIRED	24-Mar-2	0234366	PTC		140 KEN	DRIC
Sale First Sale First <t< td=""><td>341</td><td>PTC</td><td>2384677</td><td>34-E6-D7-</td><td>SFREDER</td><td>IF PKG-REPFPL-F-</td><td>FPL REP</td><td>P(ENG-REP1</td><td>Creo BASE 41</td><td>0 1</td><td>3503461</td><td>F</td><td>Installe</td><td>d Perpetua</td><td>a 2A15419</td><td>L EXPIRED</td><td>31-Jul-20</td><td>02245914</td><td>PTC DEN</td><td>MARK</td><td>LYNGBY</td><td>/EJ 14</td></t<>	341	PTC	2384677	34-E6-D7-	SFREDER	IF PKG-REPFPL-F-	FPL REP	P(ENG-REP1	Creo BASE 41	0 1	3503461	F	Installe	d Perpetua	a 2A15419	L EXPIRED	31-Jul-20	02245914	PTC DEN	MARK	LYNGBY	/EJ 14
Gat PTC 238407 34-66-07-SFBEDBINK oc.8EPFA-F. FR. RB-7 RIG-487 Core-FR / 400 505154 L Installed Perpetual 2351512 (PORIED 11)-1/2022/2014 PTC (PORIED 11)-1/202/2014/2014 PTC (PO	341	PTC	2384677	3C-A9-F4-	FROUCHE	ELPKG-REPFPL-F-	FPL REP	P(ENG-REPF	Creo FPL F41	0 1	3503462	L	Installe	d Perpetua	2A15419	L EXPIRED	31-Jul-20	03010983	PARAM	ETRIC TECH	IN 1 RUE DI	J PRC
Stat FTC State 77 Cold Address Proc. FTR. EEP RIGK-REP Cold Barling Co	341	PTC	2384677	34-E6-D7-	SFREDER	IF PKG-REPFPL-F-	FPL REP	PIENG-REPF	Creo FPL F41	0 1	3503542	L L	Installe	d Perpetua	a 2A15419	L EXPIRED	31-Jul-20	02245914	PTC DEN	MARK	LYNGBY	/EJ 14
State Control State Control Control State Control Cont	341	PTC	2384677	00-1A-A0	- 00-1A-A0	- PKG-REPFPL-F-	FPL REP	P(ENG-REP1	Creo BASE 41	0 1	3503547	F.	Installe	d Perpetua	2A15419	L EXPIRED	31-Jul-20	02240913	PARAM	ETRIC TECH	IN INNOVA	THA
Sale First Sale Sale <t< td=""><td>341</td><td>PTC</td><td>2384677</td><td>3C-A9-F4</td><td> khallgrim </td><td>PKG-REPFPL-F-</td><td>FPL REP</td><td>PIENG-REPP</td><td>Creo FPL F41</td><td>0 1</td><td>3503552</td><td>L L</td><td>Installe</td><td>d Perpetua</td><td>I 2A15419</td><td>L EXPIRED</td><td>31-Jul-20</td><td>03005105</td><td>PTC</td><td>GSO</td><td>2745 SAJ</td><td>NT F</td></t<>	341	PTC	2384677	3C-A9-F4	 khallgrim 	PKG-REPFPL-F-	FPL REP	PIENG-REPP	Creo FPL F41	0 1	3503552	L L	Installe	d Perpetua	I 2A15419	L EXPIRED	31-Jul-20	03005105	PTC	GSO	2745 SAJ	NT F
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0.1 pric 2384077 SicAsh-4 huligimmi/2004/EPF14-F prik (#F) Rtio-4810 (Drivision) SicD384 F Installed Parpetual JASISIS DORHD 11-0-042000305 pric SicD384 F 0.1 pric 238407 SicD340 F Installed Parpetual JASISIS DORHD 11-0-042000305 pric SicD384 F Installed Parpetual JASISIS DORHD 11-0-042000305 price SicD384 F Installed Parpetual JASISIS DORHD 11-0-042000305 price SicD384 F Installed Parpetual JASISIS DORHD 11-0-0420000305 price SicD384 F Installed Parpetual JASISIS DORHD 11-0-04200000305 price SicD384 F Installed Parpetual JASISIS DORHD 11-0-04200000000000000000000000000000000	341	PTC	2384677	34-E6-D7-	SFREDER	IFPKG-REPFPL-F-	FPL REP	PIENG-REPP	Creo FPL F41	0 1	3503560	L L	Installe	d Perpetua	I 2A15419	L EXPIRED	31-Jul-20	02245914	PTC DEN	MARK	LYNGBY	/EJ 14
Sale prf: 2344422 00-24-07-WWW.WW PKG-8EPFA-F- PRF REP PMC/MT6/000 3505926 F Installed Perpetual 251512 PTC K0056, K0 Sale prf: 534420 00-24-07-WWW.WW PKG-8EPFA-F- PRF REP PMC/MT6/000 3 3505926 F Installed Perpetual 251512 PTC K0056, K0 Sale prf: 534420 00-24-07-WWW.WW PKG-8EPFA-F- PRF REP PMC/MT6/000 3 3 5505926 F Installed Perpetual 251512 PTC K0056, K0 Sale prf: 534407 no.24.07.1.WWW PKG-8EPFA-F- PER REP PMC/MT6/000 13 5505926 F Installed Perpetual 251512 PTC K0056, K0 Contexture no.24.07.1.WWW PKG-8EFFR-F- PER REP PMC/MT6/000 13 5501926 F Installed Perpetual 251512 PTC K006, K0 contexture no.24.07.1.WWW PKG-8EFFR-F- PER REP PMC/MT6/000 13 5501926 F Installed Perpetual 251512 PTC K006, K0 vice no.24.07.1.WWW PKG-8EFFR-F- PER REP PMC/MT6/000 13 5501926 F <td>341</td> <td>PTC</td> <td>2384677</td> <td>3C-A9-F4-</td> <td> khallgrim </td> <td>t: PKG-REPFPL-F-</td> <td>FPL REP</td> <td>P(ENG-REP1</td> <td>Creo BASE 41</td> <td>0 1</td> <td>3503561</td> <td>F</td> <td>Installe</td> <td>d Perpetua</td> <td>2A15419</td> <td>L EXPIRED</td> <td>31-Jul-20</td> <td>03005105</td> <td>PTC</td> <td>GSO</td> <td>2745 SAJ</td> <td>NT FF</td>	341	PTC	2384677	3C-A9-F4-	 khallgrim 	t: PKG-REPFPL-F-	FPL REP	P(ENG-REP1	Creo BASE 41	0 1	3503561	F	Installe	d Perpetua	2A15419	L EXPIRED	31-Jul-20	03005105	PTC	GSO	2745 SAJ	NT FF
941 PTC 2384822 00.24-071-VIIN-VIIN VPG-REPPIPL-F FPL REP D/07A-REPCIDIVISION 310 31 305829 F Installed Perpensial 2315119 DORRED OIL-UL-2023712 FTC IROD, NO. 1 IPTC 2384822 00.24-071-VIIN-VIIN VPG-REPPIPL-F FPL REP D/07A-REPCIDIVISION 310 13 305829 F Installed Perpensial 2315119 DORRED OIL-UL-20237123782 FTC IROD, NO. 1 centract, number ···· </td <td>341</td> <td>PTC</td> <td>2384822</td> <td>00-24-D7-</td> <td>WIN-WIN</td> <td>V PKG-REPFPL-F-</td> <td>FPL REP</td> <td>P(INS-561-P</td> <td>Pro/INTR/08</td> <td>0 1</td> <td>3503928</td> <td>F</td> <td>Installe</td> <td>d Perpetua</td> <td>I 2A15419</td> <td>L EXPIRED</td> <td>01-Aug-2</td> <td>02135782</td> <td>PTC</td> <td></td> <td>#206, Ky</td> <td>u: 7-4</td>	341	PTC	2384822	00-24-D7-	WIN-WIN	V PKG-REPFPL-F-	FPL REP	P(INS-561-P	Pro/INTR/08	0 1	3503928	F	Installe	d Perpetua	I 2A15419	L EXPIRED	01-Aug-2	02135782	PTC		#206, Ky	u: 7-4
141 EPF 7134407 00.342.073.MMM.MMN.245.45569.F.F. ERI SEP D.DMC.SEP/DMCSION "10 11 Stratements/23154191.EX08870. EX1000.000 1 00.0141.0141.0141.0141.0141.0141.0141.0	341	PTC	2384822	00-24-D7-	WIN-WIN	N PKG-REPFPL-F-	FPL REP	P(DVM-REP	DIVISION 31	0 13	3503925	F	Installe	d Perpetua	2A15419	EXPIRED	01-Aug-2	02135782	PTC		#206, Ky	ui 7-4
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USTO	CUSTO	* SALES ORDER # * HOST	IL . HOST N . ORDERED ITEM	ORDER -	SVC ITE - ITEN	D - REV	QTY -	REFERE *	L/F	* STATUS T	PRODU -	SERVIC *	CONTR *	CONTR *	SITE	- ADDR1	ADDR2	· ADDR3
41	PTC	901038	PKG-4002-F-	Education	ENG-4002 Edu	cation 440	1	1106681	F	Not Instal	Time-Res	2A154191	ACTIVE	31-Dec-20	49			
1	PTC	1318635	PKG-3186-FX-	I-DEAS to	ENG-3187 Cred	Four 440	1	1729774	F	Not Instal	Time-Res	2A154191	ACTIVE	02-Jan-20	50			
1	PTC	1294504	DVP-2387-F-	ProductVi	DVP-2387 DIVI	SION 360	53	2920336	E	Not Instal	Time-Res	2A154191	ACTIVE	31-Dec-20	49			
1	PTC	2229249	RSP-3097-F-	Creo Sche	RSP-3097- Cred	Sche 410	1	3083138	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Jul-200	14			
1	PTC	2258527	PCO-7002-F-	Pro/CONC	PCO-7002 Pro/	CONC040	20	3165439	F	Not Instal	Perpetua	2A154191	EXPIRED	26-Dec-20	14			
1	PTC	1294504	DVP-2387-F-	ProductVi	DVP-2387 DIVI	SION 360	1	3189542	F	Not Instal	Time-Res	2A154191	ACTIVE	31-Dec-20	49			
L	PTC	2307279	PTN-3182-F-	Creo ISOG	RSP-3222- Crec	Sche 410	1	3306618	F	Not Instal	Perpetua	2A154191	EXPIRED	13-Sep-20	10			
1	PTC	2334237	WIC-2820-F-	Creo View	WED-2830 Inte	Comi 010	10	3415476	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2820-F-	Creo View	WED-2833 Inte	rComi010	10	3415477	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2820-F-	Creo View	WIC-479-FICM	CFG 1 051	10	3415478	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2820-F-	Creo View	WIC-2800- Cred	View 051	9	3415479	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
11	PTC	2334237	WIC-2820-F-	Creo View	WCP-2840 Cred	View 020	10	3415480	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2820-F-	Creo View	WIC-482-FICM	CFG 4 051	10	3415481	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2820-F-	Creo View	WIC-2810-Cred	View051	10	3415482	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2820-F-	Creo View	WCP-2832 Cred	View 020	10	3415483	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2821-F-	Creo View	WIC-479-FICM	CFG 1 051	10	3415484	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2821-F-	Creo View	WED-2833 Inte	rComi010	10	3415485	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2821-F-	Creo View	WIC-2803-Cred	View 051	10	3415486	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2821-F-	Creo View	WCP-2832 Cred	View 020	10	3415487	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2821-F-	Creo View	WCP-2840 Cred	View 020	10	3415488	F	Not Instal	Perpetua	ZA154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2821-F-	Creo View	WIC-482-FICM	CFG 4 051	10	3415489	F	Not instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2821-F-	Creo View	WIC-2800-Cred	View051	10	3415490	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2334237	WIC-2821-F-	Creo View	WED-2831 Inte	rComi010	10	3415491	F	Not Instal	Perpetua	2A154191	EXPIRED	15-Feb-20	06			
1	PTC	2347455	PTN-3269-F-	Thermal N	MCH-3269 The	mal N405	1	3439380	F	Not Instal	Perpetua	2A154191	EXPIRED	24-Mar-20	07			
1	PTC	2347455	PTN-3270-F-	Thermal N	MCH-3270 The	mal N405	1	3439381	F	Not instal	Perpetua	2A154191	EXPIRED	24-Mar-20	107			
1	PTC	2347455	MCH-5P1471-	Thermal N	MCH-SP14 The	mal N405	1	3439382	F	Not Instal	Perpetua	2A154191	EXPIRED	24-Mar-20	07			
1	PTC	3284677	PKG-REPEPI-F	EPI REP PI	MCH-356R Cree	Flem 405	181	3503468	£	Not Instal	Pernetua	20154191	FXPIRED	31-Jul-200	17			
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3. Licenses having status – Not Install

4. Licenses having status – Expired

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341	PTC	1128248			CC5-CV5900-F-	CADDS 5 L	CCS-CV59ICAL	DD5 UN 160	1	1512316	F	Expired	ULF / Con	n 2A154191	EXPIRED	31-Dec-20	0			
341	PTC	2231635			CC5-REP-F-	CADDS 5 V	CCS-CC5RICAL	DDS 5 V130	79	3091109	F	Expired	ULF / Con	n 2A154191	EXPIRED	29-Jan-200	5			
341	PTC	2235450			CC5-CR0535-F-	CADDS 5 C	CC5-CR05:CV-	DORS 161	1	3099497	F	Expired	ULF / Con	n 2A154191	EXPIRED	22-Aug-20	4			
341	PTC	2231635			CC5-REP-F-	CADDS 5 V	CCS-CCSRICAE	DDS 5 V 130	20	3099805	F	Expired	ULF / Con	n 2A154191	EXPIRED	29-Jan-200	5			
341	PTC	2231635			CC5-REP-F-	CADDS 5 V	CC5-CC5RICAL	DDS 5 V130	1	3100965	F	Expired	ULF / Con	n 2A154191	EXPIRED	29-Jan-200	5			
341	PTC	2426990			PKG-ML61201-F-	Mathcad F	MCD-7503 Mat	thcad F140	5	3799626	L	Expired	ULF / Con	n 2A154191	EXPIRED	13-Apr-200	7			
341	PTC	2426990			PKG-ML61201-F-	Mathcad F	MCD-7503 Mat	thcad F140	3	3799627	L	Expired	ULF / Con	n 2A154191	EXPIRED	13-Apr-200	7			
341	PTC	2426990			PKG-ML61201-F-	Mathcad F	MCD-7503 Mat	thcad F140	5	3799628	L	Expired	ULF / Con	n 2A154191	EXPIRED	13-Apr-200	7			
341	PTC	2426990			PKG-ML61201-F-	Mathcad F	MCD-7503 Mat	thcad F140	3	3799629	L	Expired	ULF / Con	n 2A154191	EXPIRED	13-Apr-200	7			
341	PTC	2440008			PKG-ML61201-F-	Mathcad F	MCD-7503 Mat	thcad F140	1	3899555	L	Expired	ULF / Con	n 2A154191	EXPIRED	02-Jul-200	7			
341	PTC	2440008			PKG-ML61201-F-	Mathcad F	MCD-7503 Mat	thcad F 140	1	3899556	L	Expired	ULF / Con	n 2A154191	EXPIRED	02-Jul-200	7			
341	PTC	2440008			PKG-ML61201-F-	Mathcad F	MCD-7503 Mat	thcad F140	1	3899558	L	Expired	ULF / Con	n 2A154191	EXPIRED	02-Jul-200	7			
341	PTC	2482522			PKG-7502-L-	Mathcad P	MCD-7503 Mat	thcad F 140	1	3973312	L	Expired	ULF / Con	n 2A154191	EXPIRED	19-Mar-20	80			
341	PTC	2482522			PKG-7502-L-	Mathcad F	MCD-7503 Mat	thcad F140	1	3973313	L	Expired	ULF / Con	n 2A154191	EXPIRED	19-Mar-20	36			
341	PTC	2426990			PKG-ML61203-L-	Mathcad P	MCD-7503 Mat	thcad F 140	33	3998622	L	Expired	ULF / Con	n 2A154191	EXPIRED	13-Apr-200	17			
341	PTC	2426990			PKG-ML61203-L-	Mathcad F	MCD-7503 Mat	thcad F140	33	3998623	L	Expired	ULF / Con	n 2A154191	EXPIRED	13-Apr-200	7			
341	PTC	2440008			PKG-ML61201-F-	Mathcad P	MCD-7503 Mat	thcad F140	236	4014241	L	Expired	ULF / Con	n 2A154191	EXPIRED	02-Jul-200	7			
341	PTC	2440008			PKG-ML61201-F-	Mathcad F	MCD-7503 Mat	thcad 140	236	4014243	L	Expired	ULF / Con	n 2A154191	EXPIRED	02-Jul-200	7			
341	PTC	2440008			PKG-ML61201-F-	Mathcad P	MCD-7503 Mat	thcad F140	220	4036972	L	Expired	ULF / Con	n 2A154191	EXPIRED	02-Jul-200	7			
341	PTC	2440008			PKG-ML61201-F-	Mathcad F	MCD-7503 Mat	thcad F140	220	4036978	L	Expired	ULF / Con	n 2A154191	EXPIRED	02-Jul-200	7			
341	PTC	1128248			CC5-CV5900-F-	CADDS 5 L	CCS-CV59ICAL	DD5 UN 160	1	4361181	F	Expired	ULF / Con	n 2A154191	EXPIRED	31-Dec-20	0			
341	PTC	2615819			CC5-CV6529-F-	GPOST for	CC5-CV65 GPC	OST for 160	10	4765902	F	Expired	ULF / Con	A154191	EXPIRED	31-Jan-201	3			
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5. Licenses report on Host ID : 00-03-FF-1C-A3-2A

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538	341	PTO	C	2840377	00-03-FF	F-1NEPO_	VM PKG-REPFPL-F-	FPL I	REP P(D)	VV-REP2 Cr	to View 480	1	6812243	F	Installed	Time-Res	2A154191	ACTIVE	16-Sep-20	2203474	PTC		RUA SAMUI
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7. Licenses for particular ordered item description -Arbortext IsoDraw Rep Package - Floating

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1097 341 PTC 2	2837072 D4.81	-D7- D4-91-D7-	PKG-REPISO-E-	Arbor	text ATD-REP.	Arbortext	073	5	6702797	5	Installed	Time-Rest	20154191	ACTIVE	16-0108-1	20129213	PTC		15/E NO 46
1099 341 PTC	2837072 D4-81	-D7- D4-81-D7-	PKG-REPISO-E-	Arbor	text ATD-REP.	Arbortext	073	5	6702803	1	Installed	Time-Rest	20154191	ACTIVE	16-010-7	20129213	PTC		15/E NO 46
125 241 PTC 2	2837072 89-04	65 bfratr1d	PKG-REPISO-E-	Arbor	text ATD REP.	Arbortext	072	ŝ	6702929	6	Installed	Time-Rest	20154101	ACTIVE	16-010-1	20142769	PTC		EDISONSTRA
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1242 341 PTC	2838284 00-50	56-1 ho-Isorda	PKG-REPISO-E-	Arbor	text ATD-REP.	Arbortext	073	2000	6703646	1	Installed	Time-Rest	20154191	ACTIVE	29-010-3	201824	PTC		140 KENDRIC
305 241 PTC 2	2827112 50-56	-BB- EEDASILV	PKG-REPISO-E-	Arbor	text ATD-REP	Arbortext	072	1	6705026	1	Installed	Time-Rest	20154101	ACTIVE	16-010-1	202202474	PTC		PLIA SAMUE
317 141 PTC 2	2817112 EC-E4	-BB. FEDASILVA	PKG-REPISO-E-	Arbor	text ATD-REP.	Arbortext	073	ŝ	6705044		Installed	Time-Rest	20154191	ACTIVE	16-010-1	20 2203474	PTC		RUA SAMUE
1429 341 PTC 2	2837072 DC-53	-60- TOKI2L2	PKG-REPISO-E-	Arbor	text ATD-REP	Arbortext	073	5	6709148	F	Installed	Time-Rest	24154191	ACTIVE	16-Aug-3	2130265	PTC	PTC IAPA	1-13-11 K(F)
1445 341 PTC 2	2837072 DC-51	-60- TOKI2L2	PKG-REPISO-F-	Arbor	text ATD-REP	Arbortext	073	5	6709174	1	Installed	Time-Rest	20154191	ACTIVE	16-Aug-2	20 2130265	PTC	PTC IAPA	1-13-11 KC FL
1519 341 PTC 2	2837072 34-F6	D7- BVEASEVD	PKG-REPISO-E-	Arbor	text ATD-REP	Arbortext	073	ŝ	6711281	F	Installed	Time-Rest	24154191	ACTIVE	16-Aug-3	2298294	PTC/USER	INC	5247 WILS SI
1535 341 PTC	2837072 34-F6	D7- BVEASEVO	PKG-REPISO-F-	Arbon	text ATD-REP.	Arbortext	073	1	6711307	L	Installed	Time-Rest	2A154191	ACTIVE	16-Aug-3	20 2298294	PTC/USER	INC	5247 WILS SI
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8. Licenses for particular license type – L (Lock)

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341	PTC	2384677	3C-49-F4	FROUCHE	PKG-REPEPL-F-	FPLE	REP PLENC	-REPE Creo F	PL F410	1	3503462	1	Insta	led Percet	ual 201541	91 EXPIRED	31-Jul-20	03010983	PARAM	TRIC TECH	IN 1 RUE DU F
341	PTC	2384677	34-E6-D7-	SFREDERI	PKG-REPFPL-F-	FPLF	REP PLENO	-REPF Creo F	PL F410	1	3503542	L	Insta	led Perpet	ual 2A1541	91 EXPIRED	31-Jul-20	02245914	PTC DEN	MARK	LYNGBYVE
341	PTC	2384677	3C-A9-F4-	khallgrim	PKG-REPFPL-F-	FPLF		-REPF Creo F	PL F410	1	3503552	L	Insta	led Perpet	ual 2A1541	91 EXPIRED	31-Jul-20	03005105	PTC	GSO	2745 SAIN
341	PTC	2384677	34-E6-D7-	SFREDERI	PKG-REPFPL-F-	FPLF	REP PLENO	-REPF Creo F	PL F410	1	3503560	L	Insta	led Perpet	ual 2A1541	91 EXPIRED	31-Jul-20	02245914	PTC DEN	MARK	LYNGBYVI
341	PTC	2384822	00-24-D7-	WIN-WIN	PKG-REPFPL-F-	FPLF		-REPF Creo F	PL F 410	1	3503933	L	Insta	led Perpet	ual 2A1541	91 EXPIRED	01-Aug-2	02135782	PTC		#206, Kyu
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341	PTC	2426990			PKG-ML61201-F-	Math	hcad F MCI	D-7503 Matho	ad 140	5	3799628	L	Expir	ed ULF/C	om 2A1541	91 EXPIRED	13-Apr-2	007			
341	PTC	2426990			PKG-ML61201-F-	Math	hcad FMCI	D-7503 Matho	ad 140	5	3799625	L L	Expir	ed ULF/C	om 2A1541	91 EXPIRED	13-Apr-2	007			
341	PTC	2459809			CPT-3235-L-	Spec	ial TNENG	-3235 Specia	al TN 410	100	3893465	L.	Noti	nstal Perpet	ual 2A1541	91 EXPIRED	28-Nov-2	1009			
341	PTC	2459809	00-13-72-	00-13-72-	PKG-REPFPL-F-	FPLF	REP PEENO	-REPF Creo F	PL F 410	1	3893467	L	Insta	led Perpet	ual 2A1541	91 EXPIRED	28-Nov-2	234366	PTC		140 KEND
341	PTC	2384822	00-24-D7-	WIN-WIN	PKG-REPFPL-F-	FPLF	REP PLENG	REPF Creo F	PL F 410	10	3899082	t L	Insta	lled Perpet	ual 2A1541	91 EXPIRED	01-Aug-2	02135782	PTC		#206, Kyu
341	PTC	2440008			PKG-ML61201-F-	Math	hcad FMCI	D-7503 Matho	ad 140	1	3899555	L	Expir	ed ULF/C	om 2A1541	91 EXPIRED	02-Jul-20	07			
341	PTC	2440008			PKG-ML61201-F-	Math	hcad FMCI	D-7503 Matho	ad 140	1	3899556	i L	Expir	ed ULF/C	om 2A1541	91 EXPIRED	02-Jul-20	07			
341	PTC	2440008			PKG-ML61201-F-	Math	hcad FMCI	D-7503 Matho	ad 140	1	3899558	L	Expli	ed ULF/C	om 2A1541	91 EXPIRED	02-Jul-20	107			
341	PTC	2384822	00-24-D7-	WIN-WIN	PKG-REPFPL-F-	FPLE	REP PLENG	REPF Creo F	PL F410	1	3927398	L L	Insta	led Perpet	ual 2A1541	91 EXPIRED	01-Aug-2	02135782	PTC		#206, Kyu
341	PTC	2426990	00-15-58-	00-15-58-	SPKG-ML61303-L-	Perp	etual MCI	D-ML6 Perpe	tual 140	1	3966244	L	Insta	led Perpet	ual 2A1541	91 EXPIRED	31-Dec-1	9 234366	PTC		140 KEND
341	PTC	2426990	00-15-58-	00-15-58-	3PKG-ML61303-L-	Perp	etual MCI	D-7501 Matho	ad E140	1	3966245	L	Insta	led Perpet	ual 2A1541	91 EXPIRED	31-Dec-1	9 234366	PTC		140 KEND
341	PTC	2482522			PKG-7502-L-	Math	hcad FMCI	D-7502 Mathe	ad 140	1	3973310	L	Not	nstal Perpet	ual 2A1541	91 EXPIRED	19-Mar-2	800			
341	PIC	2482522			PKG-7502-L-	Math	hcad FMCI	0-7501 Mathe	ad E 140	1	3973311	L	Not	nstal Perpet	ual 2A1541	91 EXPIRED	19-Mar-2	1008			
341	PTC	2482522			PKG-7502-L-	Math	hcad F MCI	D-7503 Matho	ad 140	1	3973312	-	Expli	ed ULF/C	om 2A1541	91 EXPIRED	19-Mar-2	8008			
341	PIC	2482522			PKG-7502-L-	Math	ncad F MCI	2-7503 Mathe	ad F 140	1	3973313	L .	Expir	ea ULF/C	om 2A1541	91 EXPIRED	19-Mar-1	8008			
341	PIC	2426990	00-1A-73-	00-1A-73-	PKG-ML61203-L-	Matr	ncad F MCI	p-mus Matho	ad + 140	1	3998620	L .	Insta	iea Perpet	uar 2A1541	91 EXPIRED	31-Dec-1	3 234366	PIC		140 KEND
341	PIC	2420990			PKG-ML61203-L-	Matr	ncad FMCI	- 7503 Matho	ad + 140	33	3998622	-	Expir	ed ULF/C	om 2A1541	91 EXPIRED	13-Apr-2	007			
341	PIC	2426990	00.15.20	htikohteD	PKG-ML61203-L-	Matr	ncad FMCI	D-7503 Matho	ao + 140	33	3998623	-	Expli	ea ULF/C	om 2A1541	91 EXPIRED	13-Apr-2	007	DTC		140 // 210
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341	PTC	901038			PKG-4002-F-	Educ	cation EN	IG-4002 Ed	lucation	40	1	1106681	F	Not In:	tal Time-Re	est 2A15419	1 ACTIVE	31-Dec-2	049				
341	PTC	901038	00-10-83-	(00-10-83-	CPKG-4004-F-	Educ	cation EN	IG-4004 Ed	lucation	40	1	1106701	F	Installe	d Time-Re	est 2A15419	1 ACTIVE	31-Dec-2	0 2355066	PTC		144D W	NEST
341	PTC	1128248			CC5-CV5900-F-	CAD	OS SLCC	5-CV591CA	DOS UN	160	1	1512316	F	Expire	ULF/Co	m 2A15419	1 EXPIRED	31-Dec-2	010				
341	PTC	1318635			PKG-3186-FX-	I-DE	AS to EN	G-3187-Cr	eo Four	40	1	1729774	F	Not Ins	tal Time-Re	est 2A15419	1 ACTIVE	02-Jan-2	050				
341	PTC	2006247	MNTREL-	MNTREL-	2 WNC-2127-F-	Win	dchill W	NC-212: W	Indchill	112	1	2527484	F	Installe	d-Time-Re	est 2A15419	1 ACTIVE	31-Dec-2	0234366	PTC		140 KEP	NDR
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WNC-2150-F-	Win	dchill W	NC-215(W	indchill 1	12	1	2527485	F	Installe	d-ITime-R	est 2A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEM	NDRI
41	PTC	2006247	MNTREL-	2 MNTREL-	2 WNC-2126-F-	Win	dchill W	NE-2126 W	orkgrou	112	1	2527486	F	Installe	d-ITime-R	est 2A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEM	NDR
41	PTC	2006247	88-CA-3A	- B8-CA-3A	-WNC-2132-F-	Win	dchill W	NE-2132 W	orkgrou	12	1	2527487	F	Installe	d-ITime-Re	est 2A15419	1 ACTIVE	31-Dec-2	0 2355066	PTC		144D W	VEST
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WNC-2133-F-	Win	dchill W	NE-2133 W	orkgrou	112	1	2527488	F	Installe	d-ITime-R	est 2A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEM	NDR
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WNC-2140-F-	Win	dchill W	NE-214C W	orkgrou	112	1	2527489	F	Installe	d-ITime-Re	est 2A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEM	NDR
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WNC-2131-F-	Win	dchill W	NC-2131 W	indchill	112	1	2527490	F	Installe	d-ITime-Ri	est 2A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEP	NDR
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WDP-CPS5013-F	F- Win	dchill W	NA-211(W	indchill	112	1	2527493	F	Installe	d-ITime-R	est 2A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEM	NDR
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WEC-CP001-F-	Win	dchill W	EC-CP0CW	indchill	112	1	2527494	F	Installe	d-ITime-R	es12A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEM	NDR
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WEC-CP009-F-	Parts	sLink (W	EC-CPOC PT	C Partsl	112	1	2527495	F	Installe	d-ITime-Re	est 2A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEM	NDR
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WNA-2340-F-	Win	dchill W	NA-234(W	indchill	112	1	2527496	F	Installe	d-Time-R	est 2A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KE	NDR
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WNA-2348-F-	Win	dchill W	NA-234(W	indchill	112	1	2527497	F	Installe	d-ITime-Re	est 2A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEM	NDR
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WNA-2341-F-	Win	dchill W	NA-234: W	indchill 1	112	1	2527498	F	Installe	d-Time-Re	es12A15419	1 ACTIVE	31-Dec-2	0234366	PTC		140 KEM	NDR
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WNA-2346-F-	Win	dchill W	NA-234(W	Indchill	112	1	2527499	F	Installe	d-ITime-R	est 2A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEM	NDR
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WNA-2342-F-	Win	dchill W	NA-234; W	indchill 1	112	1	2527500	F	Installe	d-Time-Re	H12A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEM	NDR
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WNA-2352-F-	Win	dchill W	NA-235; W	Indchill	112	1	2527501	F	Installe	d-ITime-Re	est 2A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEM	NDR
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WNA-2376-F-	Win	dchill W	NA-237(8a	anERP A	112	1	2527502	F	Installe	d-ITime-R	es12A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEM	NDRI
341	PTC	2006247	MNTREL-	2 MNTREL-	2 WNC-2142-F-	Win	dchill W	NE-2142 W	indchill	112	1	2527504	F	Installe	d-ITime-Re	est 2A15419	1 ACTIVE	31-Dec-2	0 234366	PTC		140 KEM	NDRI
341	PTC	1282275	00-02-3F-	¢00-02-3F-	€ PKG-3963-F-	Cred	e/ENEN	IG-3963 e/	ENGINE	40	1	2846740	F	Installe	d Time-Re	es12A15419	1 ACTIVE	31-Dec-2	0 3540461	PTC - AC	ADEMIC T	'EA 121 SEA	APOP
341	PTC	1282275	00-04-76-	MWENDL	EPTN-3144-F-	Cred	Mod EN	IG-3144 M	odelCHE	140	1	2846747	F	Installe	d Time-Re	est 2A15419	1 ACTIVE	31-Dec-2	0 121648	PTC		2930 EA	AST 5
341	PTC	1294504	00-1C-23-	100-1C-23-	1DVP-2392-F-	DIVI	SION D	/P-2392 DI	VISION	360	1	2897650	F	Installe	d Time-Re	est 2A15419	1 ACTIVE	31-Dec-2	0 2355066	PTC		144D W	VEST
341	PTC	1294504	4C-00-10-	4C-00-10-	DVP-2361-F-	DIVI	SION DI	/P-2361 M	entor Gr	560	1	2898231	F	Installe	d Time-Re	est 2A15419	1 ACTIVE	31-Dec-2	0 2140093	PARAME	ET (INDIA)	PIEMBAS	SSY Y
341	PTC	1294504	00-10-23	(00-10-23-	4DVP-2383-F-	DIV2	SION DI	(P.7383.DI	VISION	160	1	2920335	F	Installe	d Time-R	H17415419	1 ACTIVE	31-Dec-2	02355066	PTC		144D W	NEST
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9. Licenses for particular license type – F (Floating)

10. Licenses for particular license type – T (Temporary Floating)
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341	PTC	2034412	78-24-AF-	78-24-AF-	-: PKG-3958-F-	Creo Flex	ENG-3968	Flexible	440	1	3078432	T	installed	Time-Res	2A154191	ACTIVE	31-Dec-2	0 3175856	PARAME	TRIC TECH	IN BATIM
341	PTC	2815443			PKG-REPATI-F-	Arbortext	AEE-EE18	Arbortext	071	1	6497049	T	Not Instal	Perpetua	2A154191	EXPIRED	22-Dec-2	1018			
341	PTC	2815443	_		PKG-REPATI-F-	Arbortext	AEE-ET18	Arbortext	071	1	6497050	T	Not Instal	Perpetua	2A154191	EXPIRED	22-Dec-2	1018			_
341	PTC	2815443	04-ED-33-	04-ED-33-	PKG-REPATI-F-	Arbortext	AST-ST21	Arbortext	071	1	6497051	T	Installed	Perpetua	2A154191	EXPIRED	22-Dec-2	0 234366	PTC		140 KE
341	PTC	2815443			PKG-REPATI-F-	Arbortext	AE3-H322	Arbortext	071	1	6497052	T	Not Instal	Perpetua	2A154191	EXPIRED	22-Dec-2	1018			
341	PTC	2817279	20-6A-8A-	20-6A-8A	- PKG-REPATI-F-	Arbortext	AST-ST21	Arbortext	071	1	6581058	T	installed	Perpetua	2A154191	EXPIRED	22-Dec-2	0 234366	PTC		140 KE
341	PTC	2840377	D4-81-D7-	smercier	0 PKG-REPMCD-F-	Mathcad F	MCD-REP	Mathcad	F 260	1	6725755	T	Installed	Time-Res	2A154191	ACTIVE	16-Sep-2	03538010	PTC		121 SE
341	PTC	2840377	D4-81-D7-	smerciert	0 PKG-REPMCD-F-	Mathcad F	MCD-REP	Mathcad	260	1	6725775	T	Installed	Time-Res	2A154191	ACTIVE	16-Sep-2	03538010	PTC		121 SE
41	PTC	2840377	D4-81-D7-	smercier	DPKG-REPISO-F-	Arbortext	ATD-REP-	Arbortext	073	1	6725786	T	Installed	Time-Res	2A154191	ACTIVE	16-Sep-2	0 3538010	PTC		121 SE
341	PTC	2840377	3C-A9-F4-	rbutcher	D PKG-REPINT-F-	Integrity P	MIG-REP-	Integrity	F123	1	6727337	T	installed	Time-Res	2A154191	ACTIVE	16-Sep-2	0 141560	PTC		540 AR
41	PTC	2837112	20-6A-8A-	20-6A-8A	PKG-REPATI-F-	Arbortext	ACM-REP	Arbortext	112	1	6734576	T	Installed	Time-Res	2A154191	ACTIVE	16-Aug-2	0234366	PTC		140 KE
341	PTC	2837112	00-0C-29-	PTCTRAIN	N PKG-REPATI-F-	Arbortext	AEE-EE18	Arbortext	080	1	6744818	T	installed	Time-Res	2A154191	ACTIVE	16-Aug-2	2355982	PTC INDI	A SOFTWA	ARSURVE
341	PTC	2840377	20-6A-8A-	20-6A-8A	PKG-REPATI-F-	Arbortext	AEE-IE227	Arbortext	080	1	6815263	T	Installed	Time-Res	2A154191	ACTIVE	16-Sep-2	0 234366	PTC		140 KE
41	PTC	2840377	00-0C-29-	00-0C-29-	<pkg-repati-f-< td=""><td>Arbortext</td><td>AEE-EE18</td><td>Arbortext</td><td>080</td><td>1</td><td>6822115</td><td>T</td><td>installed</td><td>Time-Res</td><td>2A154191</td><td>ACTIVE</td><td>16-Sep-2</td><td>0 212385</td><td>PTC</td><td>PTCJAP</td><td>A16-8-11</td></pkg-repati-f-<>	Arbortext	AEE-EE18	Arbortext	080	1	6822115	T	installed	Time-Res	2A154191	ACTIVE	16-Sep-2	0 212385	PTC	PTCJAP	A16-8-11
341	PTC	2840377	00-0C-29-4	00-0C-29-	<pkg-repati-f-< td=""><td>Arbortext</td><td>AEE-ET18</td><td>Arbortext</td><td>080</td><td>1</td><td>6822116</td><td>T</td><td>Installed</td><td>Time-Res</td><td>2A154191</td><td>ACTIVE</td><td>16-Sep-2</td><td>0 212385</td><td>PTC</td><td>PTC JAP</td><td>A16-8-1 N</td></pkg-repati-f-<>	Arbortext	AEE-ET18	Arbortext	080	1	6822116	T	Installed	Time-Res	2A154191	ACTIVE	16-Sep-2	0 212385	PTC	PTC JAP	A16-8-1 N
341	PTC	2840377	00-0C-29-	00-0C-29-	PKG-REPATI-F-	Arbortext	AST-ST21	Arbortext	080	1	6822137	T	Installed	Time-Res	2A154191	ACTIVE	16-Sep-2	0 212385	PTC	PTCJAP	A16-8-1 N
341	PTC	2837112	F8-CA-88-	F8-CA-B8	PKG-REPEPL-F-	FPL REP P	ENG-REP1	Creo BAS	E440	1	6895634	T	Installed	Time-Res	2A154191	ACTIVE	16-Aug-2	2203474	PTC		RUA SA
41	PTC	2840377	00-50-56-5	UK-CHE-D	PKG-REPINT-F-	Integrity P	MIG-REP-	Integrity	123	1	6913817	T	Installed	Time-Res	2A154191	ACTIVE	16-Sep-2	0133257	PTC	METROP	PO 20 BRII
341	PTC	2837072	34-E6-D7-	34-E6-D7-	(WIC-REP-F-	Creo View	WIC-REP-	InterCom	100	1	6919466	T	Installed	Time-Res	2A154191	ACTIVE	16-Aug-2	03007992	PARAME	TRIC TECH	IN 68 YIN
41	PTC	2837072	34-E6-D7-	34-E6-D7-	WIC-REP-F-	Creo View	WED-283	InterCom	021	1	6919470	T	Installed	Time-Res	2A154191	ACTIVE	16-Aug-2	03007992	PARAME	TRIC TECH	IN 68 YIN
41	PTC	2837072	34-E6-D7-	34-E6-D7-	WIC-REP-F-	Creo View	WCP-REP	-Creo Viev	470	1	6919472	Т	Installed	Time-Res	2A154191	ACTIVE	16-Aug-2	0 3007992	PARAME	TRIC TECH	IN 68 YIN
41	PTC	2840377	00-0C-29-	00-0C-29-	<pkg-repfpl-f-< td=""><td>FPL REP P</td><td>DVV-REP</td><td>Creo Viev</td><td>480</td><td>1</td><td>6930879</td><td>т</td><td>Installed</td><td>Time-Res</td><td>2A154191</td><td>ACTIVE</td><td>16-Sep-2</td><td>0 234366</td><td>PTC</td><td></td><td>140 KE</td></pkg-repfpl-f-<>	FPL REP P	DVV-REP	Creo Viev	480	1	6930879	т	Installed	Time-Res	2A154191	ACTIVE	16-Sep-2	0 234366	PTC		140 KE
341	PTC	2840377	00-0C-29-4	00-0C-29-	<pre>#PKG-REPPV-F-</pre>	Creo View	DVV-REP.	Creo Viev	480	1	6930881	Т	Installed	Time-Res	2A154191	ACTIVE	16-Sep-2	0 234366	PTC		140 KE
341	PTC	2840377	00-0C-29-	00-0C-29-	<pkg-repmcd-f-< td=""><td>Mathcad P</td><td>MCD-REP</td><td>Mathcad</td><td>260</td><td>1</td><td>6930882</td><td>т</td><td>Installed</td><td>Time-Res</td><td>2A154191</td><td>ACTIVE</td><td>16-Sep-2</td><td>0 234366</td><td>PTC</td><td></td><td>140 KE</td></pkg-repmcd-f-<>	Mathcad P	MCD-REP	Mathcad	260	1	6930882	т	Installed	Time-Res	2A154191	ACTIVE	16-Sep-2	0 234366	PTC		140 KE
341	PTC	2840377	00-0C-29-4	00-0C-29-	<pkg-repati-f-< td=""><td>Arbortext</td><td>AEE-ET18</td><td>Arbortext</td><td>080</td><td>1</td><td>6930884</td><td>Т</td><td>Installed</td><td>Time-Res</td><td>2A154191</td><td>ACTIVE</td><td>16-Sep-2</td><td>0 234366</td><td>PTC</td><td></td><td>140 KE</td></pkg-repati-f-<>	Arbortext	AEE-ET18	Arbortext	080	1	6930884	Т	Installed	Time-Res	2A154191	ACTIVE	16-Sep-2	0 234366	PTC		140 KE
341	PTC	2840377	00-0C-29-	00-0C-29-	PKG-REPPV-F-	Creo View	DVV-REP	Creo Viev	480	1	6930885	т	Installed	Time-Res	2A154191	ACTIVE	16-Sep-2	0 234366	PTC		140 KE7
241	PTC	2840377	00-00-29-	00-00-29-	ZPKG-REPATI-E.	Arbortext	AF3-H322	Arbortext	071	1	6930886	T	Installed	Time-Res	124154191	ACTIVE	16-Sen-2	01234366	PTC		140 KF7
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145 of 60	3614 records	found																			++