



GE HealthCare

# GE HealthCare OncoCare

Service Manual

Software version 1.0

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Revision 1

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# Language Policy

DOC0371395 - Global Language Procedure

ПРЕДУПРЕЖДЕНИЕ (BG)	<p>Това упътване за работа е налично само на английски език.</p> <ul style="list-style-type: none"> <li>Ако доставчикът на услугата на клиента изиска друг език, задължение на клиента е да осигури превод.</li> <li>Не използвайте оборудването, преди да сте се консултирали и разбрали упътването за работа.</li> <li>Неспазването на това предупреждение може да доведе до нараняване на доставчика на услугата, оператора или пациента в резултат на токов удар, механична или друга опасност.</li> </ul>
警告 (ZH-CN)	<p>本维修手册仅提供英文版本。</p> <ul style="list-style-type: none"> <li>如果客户的维修服务人员需要非英文版本，则客户需自行提供翻译服务。</li> <li>未详细阅读和完全理解本维修手册之前，不得进行维修。</li> <li>忽略本警告可能对维修服务人员、操作人员或患者造成电击、机械伤害或其他形式的伤害。</li> </ul>
警告 (ZH-HK)	<p>本服務手冊僅提供英文版本。</p> <ul style="list-style-type: none"> <li>倘若客戶的服務供應商需要英文以外之服務手冊，客戶有責任提供翻譯服務。</li> <li>除非已參閱本服務手冊及明白其內容，否則切勿嘗試維修設備。</li> <li>不遵從本警告或會令服務供應商、網絡供應商或病人受到觸電、機械性或其他的危險。</li> </ul>
警告 (ZH-TW)	<p>本維修手冊僅有英文版。</p> <ul style="list-style-type: none"> <li>若客戶的維修廠商需要英文版以外的語言，應由客戶自行提供翻譯服務。</li> <li>請勿試圖維修本設備，除非您已查閱並瞭解本維修手冊。</li> <li>若未留意本警告，可能導致維修廠商、操作員或病患因觸電、機械或其他危險而受傷。</li> </ul>
UPOZORENJE (HR)	<p>Ovaj servisni priručnik dostupan je na engleskom jeziku.</p> <ul style="list-style-type: none"> <li>Ako davatelj usluge klijenta treba neki drugi jezik, klijent je dužan osigurati prijevod.</li> <li>Ne pokušavajte servisirati opremu ako niste u potpunosti pročitali i razumjeli ovaj servisni priručnik.</li> <li>Zanemarite li ovo upozorenje, može doći do ozljede davatelja usluge, operatera ili pacijenta uslijed strujnog udara, mehaničkih ili drugih rizika.</li> </ul>
VÝSTRAHA (CS)	<p>Tento provozní návod existuje pouze v anglickém jazyce.</p> <ul style="list-style-type: none"> <li>V případě, že externí služba zákazníkům potřebuje návod v jiném jazyce, je zajištění překladu do odpovídajícího jazyka úkolem zákazníka.</li> <li>Nesnažte se o údržbu tohoto zařízení, aniž byste si přečetli tento provozní návod a pochopili jeho obsah.</li> <li>V případě nedodržování této výstrahy může dojít k poranění pracovníka prodejního servisu, obslužného personálu nebo pacientů vlivem elektrického proudu, respektive vlivem mechanických či jiných rizik.</li> </ul>
ADVARSEL (DA)	<p>Denne servicemanual findes kun på engelsk.</p> <ul style="list-style-type: none"> <li>Hvis en kundes tekniker har brug for et andet sprog end engelsk, er det kundens ansvar at sørge for oversættelse.</li> <li>Forsøg ikke at servicere udstyret uden at læse og forstå denne servicemanual.</li> <li>Manglende overholdelse af denne advarsel kan medføre skade på grund af elektrisk stød, mekanisk eller anden fare for teknikeren, operatøren eller patienten.</li> </ul>

WAARSCHUWING (NL)	<p>Deze onderhoudshandleiding is enkel in het Engels verkrijgbaar.</p> <ul style="list-style-type: none"> <li>Als het onderhoudspersoneel een andere taal vereist, dan is de klant verantwoordelijk voor de vertaling ervan.</li> <li>Probeer de apparatuur niet te onderhouden alvorens deze onderhoudshandleiding werd geraadpleegd en begrepen is.</li> <li>Indien deze waarschuwing niet wordt opgevolgd, zou het onderhoudspersoneel, de operator of een patiënt gewond kunnen raken als gevolg van een elektrische schok, mechanische of andere gevaren.</li> </ul>
WARNING (EN)	<p>This service manual is available in English only.</p> <ul style="list-style-type: none"> <li>If a customer's service provider requires a language other than English, it is the customer's responsibility to provide translation services.</li> <li>Do not attempt to service the equipment unless this service manual has been consulted and is understood.</li> <li>Failure to heed this warning may result in injury to the service provider, operator or patient from electric shock, mechanical or other hazards.</li> </ul>
HOIATUS (ET)	<p>See teenindusjuhend on saadaval ainult inglise keeles.</p> <ul style="list-style-type: none"> <li>Kui klienditeeninduse osutaja nõuab juhendit inglise keelest erinevas keeles, vastutab klient tõlketeenuse osutamise eest.</li> <li>Ärge üritage seadmeid teenindada enne eelnevalt käesoleva teenindusjuhendiga tutvumist ja sellest aru saamist.</li> <li>Käesoleva hoiatuse eiramine võib põhjustada teenuseosutaja, operaatori või patsiendi vigastamist elektrilöögi, mehaanilise või muu ohu tagajärjel.</li> </ul>
VAROITUS (FI)	<p>Tämä huolto-ohje on saatavilla vain englanniksi.</p> <ul style="list-style-type: none"> <li>Jos asiakkaan huoltohenkilöstö vaatii muuta kuin englanninkielistä materiaalia, tarvittavan käänökseen hankkiminen on asiakkaan vastuulla.</li> <li>Älä yritä korjata laitteistoa ennen kuin olet varmasti lukenut ja ymmärtänyt tämän huolto-ohjeen.</li> <li>Mikäli tästä varoitusta ei noudateta, seurauksena voi olla huoltohenkilöstön, laitteiston käyttäjän tai potilaan vahingoittuminen sähköiskun, mekaanisen vian tai muun vaaratilanteen vuoksi.</li> </ul>
ATTENTION (FR)	<p>Ce manuel d'installation et de maintenance est disponible uniquement en anglais.</p> <ul style="list-style-type: none"> <li>Si le technicien d'un client a besoin de ce manuel dans une langue autre que l'anglais, il incombe au client de le faire traduire.</li> <li>Ne pas tenter d'intervenir sur les équipements tant que ce manuel d'installation et de maintenance n'a pas été consulté et compris.</li> <li>Le non-respect de cet avertissement peut entraîner chez le technicien, l'opérateur ou le patient des blessures dues à des dangers électriques, mécaniques ou autres.</li> </ul>
WARNUNG (DE)	<p>Diese Serviceanleitung existiert nur in englischer Sprache.</p> <ul style="list-style-type: none"> <li>Falls ein fremder Kundendienst eine andere Sprache benötigt, ist es Aufgabe des Kunden für eine entsprechende Übersetzung zu sorgen.</li> <li>Versuchen Sie nicht diese Anlage zu warten, ohne diese Serviceanleitung gelesen und verstanden zu haben.</li> <li>Wird diese Warnung nicht beachtet, so kann es zu Verletzungen des Kundendiensttechnikers, des Bedieners oder des Patienten durch Stromschläge, mechanische oder sonstige Gefahren kommen.</li> </ul>

PΡΟΕΙΔΟΠΟΙΗΣΗ (EL)	<p>Τοπαρόν εγχειρίδιο σέρβις διατίθεται στα αγγλικά μόνο.</p> <ul style="list-style-type: none"> <li>Εάν το άτομο παροχής σέρβις ενός πελάτη απαιτεί το παρόν εγχειρίδιο σε γλώσσα εκτός των αγγλικών, αποτελεί ευθύνη του πελάτη να παρέχει υπηρεσίες μετάφρασης.</li> <li>Μηνεπιχειρήσετε την εκτέλεση εργασιών σέρβις στον εξοπλισμό εκτός εάν έχετε συμβουλευτεί και έχετε κατανοήσει το παρόν εγχειρίδιο σέρβις.</li> <li>Εάν δεν λάβετε υπόψη την προειδοποίηση αυτή, ενδέχεται να προκληθεί τραυματισμός στο άτομο παροχής σέρβις, στο χειριστή ή στον ασθενή από ηλεκτροπληξία, μηχανικούς ή άλλους κινδύνους.</li> </ul>
FIGYELMEZTETÉS (HU)	<p>Ezen karbantartási kézikönyv kizárolag angol nyelven érhető el.</p> <ul style="list-style-type: none"> <li>Ha a vevő szolgáltatója angoltól eltérő nyelvre tart igényt, akkor a vevő felelőssége a fordítás elkészítetése.</li> <li>Ne próbálja elkezdeni használni a berendezést, amíg a karbantartási kézikönyvben leírtakat nem értelmeztek.</li> <li>Ezen figyelmeztetés figyelmen kívül hagyása a szolgáltató, működtető vagy a beteg áramütés, mechanikai vagy egyéb veszélyhelyzet miatti sérülését eredményezheti.</li> </ul>
ADVÖRUN (IS)	<p>Þessi þjónustuhandbók er aðeins fáanleg á ensku.</p> <ul style="list-style-type: none"> <li>Ef að þjónustuveitandi viðskiptamanns þarfnað annas tungumáls en ensku, er það skylda viðskiptamanns að skaffa tungumálaþjónustu.</li> <li>Reynið ekki að afgreiða tækið nema að þessi þjónustuhandbók hefur verið skoðuð og skilin.</li> <li>Brot á sinna þessari aðvörun getur leitt til meiðsla á þjónustuveitanda, stjórnanda eða sjúklings frá raflosti, vélrænu eða öðrum áhættum.</li> </ul>
AVVERTENZA (IT)	<p>Il presente manuale di manutenzione è disponibile soltanto in lingua inglese.</p> <ul style="list-style-type: none"> <li>Se un addetto alla manutenzione richiede il manuale in una lingua diversa, il cliente è tenuto a provvedere direttamente alla traduzione.</li> <li>Procedere alla manutenzione dell'apparecchiatura solo dopo aver consultato il presente manuale ed averne compreso il contenuto.</li> <li>Il mancato rispetto della presente avvertenza potrebbe causare lesioni all'addetto alla manutenzione, all'operatore o ai pazienti provocate da scosse elettriche, urti meccanici o altri rischi.</li> </ul>
警告 (JA)	<p>このサービスマニュアルには英語版しかありません。</p> <ul style="list-style-type: none"> <li>サービスを担当される業者が英語以外の言語を要求される場合、翻訳作業はその業者の責任で行うものとさせていただきます。</li> <li>このサービスマニュアルを熟読し理解せずに、装置のサービスを行わないでください。</li> <li>この警告に従わない場合、サービスを担当される方、操作員あるいは患者さんが、感電や機械的又はその他の危険により負傷する可能性があります。</li> </ul>
경고 (KO)	<p>본 서비스 매뉴얼은 영어로만 이용하실 수 있습니다.</p> <ul style="list-style-type: none"> <li>고객의 서비스 제공자가 영어 이외의 언어를 요구할 경우, 번역 서비스를 제공하는 것은 고객의 책임입니다.</li> <li>본 서비스 매뉴얼을 참조하여 속지하지 않은 이상 해당 장비를 수리하려고 시도하지 마십시오.</li> <li>본 경고 사항에 유의하지 않으면 전기 쇼크, 기계적 위험, 또는 기타 위험으로 인해 서비스 제공자, 사용자 또는 환자에게 부상을 입힐 수 있습니다.</li> </ul>
BRĪDINĀJUMS (LV)	<p>Šī apkopes rokasgrāmata ir pieejama tikai angļu valodā.</p> <ul style="list-style-type: none"> <li>Ja klienta apkopes sniedzējam nepieciešama informācija citā valodā, klienta pienākums ir nodrošināt tulkojumu.</li> <li>Neveiciet aprīkojuma apkopi bez apkopes rokasgrāmatas izlasīšanas un saprašanas.</li> <li>Šī brīdinājuma neievērošanas rezultātā var rasties elektriskās strāvas trieciena, mehānisku vai citu faktoru izraisītu traumu risks apkopes sniedzējam, operatoram vai pacientam.</li> </ul>

ISPĖJIMAS (LT)	<p>Šis eksploatavimo vadovas yra tik anglų kalba.</p> <ul style="list-style-type: none"> <li>• Jei kliento paslaugų tiekėjas reikalauja vadovo kita kalba – ne anglų, suteikti vertimo paslaugas privalo klientas.</li> <li>• Neméginkite atlikti įrangos techninės priežiūros, jei neperskaitėte ar nesupratote šio eksploatavimo vadovo.</li> <li>• Jei nepaisysite šio įspėjimo, galimi paslaugų tiekėjo, operatoriaus ar paciento sužalojimai dėl elektros šoko, mechaninių ar kitų pavojų.</li> </ul>
ADVARSEL (NO)	<p>Denne servicehåndboken finnes bare på engelsk.</p> <ul style="list-style-type: none"> <li>• Hvis kundens serviceleverandør har bruk for et annet språk, er det kundens ansvar å sørge for oversettelse.</li> <li>• Ikke forsøk å reparere utstyret uten at denne servicehåndboken er lest og forstått.</li> <li>• Manglende hensyn til denne advarselen kan føre til at serviceleverandøren, operatøren eller pasienten skades på grunn av elektrisk støt, mekaniske eller andre farer.</li> </ul>
OSTRZEŻENIE (PL)	<p>Niniejszy podręcznik serwisowy dostępny jest jedynie w języku angielskim.</p> <ul style="list-style-type: none"> <li>• Jeśli serwisant klienta wymaga języka innego niż angielski, zapewnienie usługi tłumaczenia jest obowiązkiem klienta.</li> <li>• Nie próbować serwisować urządzenia bez zapoznania się z niniejszym podręcznikiem serwisowym i zrozumienia go.</li> <li>• Niezastosowanie się do tego ostrzeżenia może doprowadzić do obrażeń serwisanta, operatora lub pacjenta w wyniku porażenia prądem elektrycznym, zagrożenia mechanicznego bądź innego.</li> </ul>
ATENÇÃO (PT-BR)	<p>Este manual de assistência técnica encontra-se disponível unicamente em inglês.</p> <ul style="list-style-type: none"> <li>• Se outro serviço de assistência técnica solicitar a tradução deste manual, caberá ao cliente fornecer os serviços de tradução.</li> <li>• Não tente reparar o equipamento sem ter consultado e compreendido este manual de assistência técnica.</li> <li>• A não observância deste aviso pode ocasionar ferimentos no técnico, operador ou paciente decorrentes de choques elétricos, mecânicos ou outros.</li> </ul>
ATENÇÃO (PT-PT)	<p>Este manual de assistência técnica só se encontra disponível em inglês.</p> <ul style="list-style-type: none"> <li>• Se qualquer outro serviço de assistência técnica solicitar este manual noutro idioma, é da responsabilidade do cliente fornecer os serviços de tradução.</li> <li>• Não tente reparar o equipamento sem ter consultado e compreendido este manual de assistência técnica.</li> <li>• O não cumprimento deste aviso pode colocar em perigo a segurança do técnico, do operador ou do paciente devido a choques eléctricos, mecânicos ou outros.</li> </ul>
ATENȚIE (RO)	<p>Acest manual de service este disponibil doar în limba engleză.</p> <ul style="list-style-type: none"> <li>• Dacă un furnizor de servicii pentru clienti necesită o altă limbă decât cea engleză, este de datoria clientului să furnizeze o traducere.</li> <li>• Nu încercați să reparați echipamentul decât ulterior consultării și înțelegerei acestui manual de service.</li> <li>• Ignorarea acestui avertisment ar putea duce la rănirea depanatorului, operatorului sau pacientului în urma pericolelor de electrocutare, mecanice sau de altă natură.</li> </ul>

ОСТОРОЖНО ! (RU)	<p>Данное руководство по техническому обслуживанию представлено только на английском языке.</p> <ul style="list-style-type: none"> <li>Если сервисному персоналу клиента необходимо руководство не на английском, а на каком-то другом языке, клиенту следует самостоятельно обеспечить перевод.</li> <li>Перед техническим обслуживанием оборудования обязательно обратитесь к данному руководству и поймите изложенные в нем сведения.</li> <li>Несоблюдение требований данного предупреждения может привести к тому, что специалист по техобслуживанию, оператор или пациент получит удар электрическим током, механическую травму или другое повреждение.</li> </ul>
UPOZORENJE (SR)	<p>Ovo servisno uputstvo je dostupno samo na engleskom jeziku.</p> <ul style="list-style-type: none"> <li>Ako klijentov serviser zahteva neki drugi jezik, klijent je dužan da obezbedi prevodilačke usluge.</li> <li>Ne pokušavajte da opravite uređaj ako niste pročitali i razumeli ovo servisno uputstvo.</li> <li>Zanemarivanje ovog upozorenja može dovesti do povređivanja servisera, rukovaoca ili pacijenta usled strujnog udara ili mehaničkih i drugih opasnosti.</li> </ul>
UPOZORNE- NIE (SK)	<p>Tento návod na obsluhu je k dispozícii len v angličtine.</p> <ul style="list-style-type: none"> <li>Ak zákazníkov poskytovateľ služieb vyžaduje iný jazyk ako angličtinu, poskytnutie prekladateľských služieb je zodpovednosťou zákazníka.</li> <li>Nepokúšajte sa o obsluhu zariadenia, kým si neprečítate návod na obľahu a neporozumiete mu.</li> <li>Zanedbanie tohto upozornenia môže spôsobiť zranenie poskytovateľa služieb, obsluhujúcej osoby alebo pacienta elektrickým prúdom, mechanické alebo iné ohrozenie.</li> </ul>
ATENCIÓN (ES)	<p>Este manual de servicio sólo existe en inglés.</p> <ul style="list-style-type: none"> <li>Si el encargado de mantenimiento de un cliente necesita un idioma que no sea el inglés, el cliente deberá encargarse de la traducción del manual.</li> <li>No se deberá dar servicio técnico al equipo, sin haber consultado y comprendido este manual de servicio.</li> <li>La no observancia del presente aviso puede dar lugar a que el proveedor de servicios, el operador o el paciente sufran lesiones provocadas por causas eléctricas, mecánicas o de otra naturaleza.</li> </ul>
VARNING (SV)	<p>Den här servicehandboken finns bara tillgänglig på engelska.</p> <ul style="list-style-type: none"> <li>Om en kunds servicetekniker har behov av ett annat språk än engelska, ansvarar kunden för att tillhandahålla översättningstjänster.</li> <li>Försök inte utföra service på utrustningen om du inte har läst och förstått den här servicehandboken.</li> <li>Om du inte tar hänsyn till den här varningen kan det resultera i skador på serviceteknikern, operatören eller patienten till följd av elektriska stötar, mekaniska faror eller andra faror.</li> </ul>
OPOZORILO (SL)	<p>Ta servisni priročnik je na voljo samo v angleškem jeziku.</p> <ul style="list-style-type: none"> <li>Če ponudnik storitve stranke potrebuje priročnik v drugem jeziku, mora stranka zagotoviti prevod.</li> <li>Ne poskušajte servisirati opreme, če tega priročnika niste v celoti prebrali in razumeli.</li> <li>Če tega opozorila ne upoštevate, se lahko zaradi električnega udara, mehanskih ali drugih nevarnosti poškoduje ponudnik storitev, operater ali bolnik.</li> </ul>
DİKKAT (TR)	<p>Bu servis kılavuzunun sadece ingilizcesi mevcuttur.</p> <ul style="list-style-type: none"> <li>Eğer müşteri teknisyeni bu kılavuzu ingilizce dışında bir başka lisandan talep ederse, bunu tercüme ettmek müşteriye düşer.</li> <li>Servis kılavuzunu okuyup anlamadan ekipmanlara müdahale etmeyiniz.</li> <li>Bu uyarıyla uyulmaması, elektrik, mekanik veya diğer tehlikelerden dolayı teknisyen, operatör veya hastanın yaralanmasına yol açabilir.</li> </ul>

ЗАСТЕРЕЖЕННЯ (UK)	Даний посібник з експлуатації доступний тільки англійською мовою. <ul style="list-style-type: none"><li>Якщо постачальник послуг клієнта спілкується іноземною мовою, тоді клієнт зобов'язаний забезпечити переклад.</li><li>Заборонено проводити огляд обладнання без попереднього звертання до даного посібника з експлуатації і розуміння інформації, поданої у ньому.</li><li>Недотримання цього застереження може завдати шкоди здоров'ю постачальника послуг, оператора або пацієнта через ураження електричним струмом, механічну травму або інше ушкодження.</li></ul>
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# 1 Legal information

## 1.1 Legal notices

### **GE HealthCare OncoCare**

Service Manual

Software version 1.0

DOC2860907

Revision 1

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## 2 About

### 2.1 Scope

This manual contains instructions for GE HealthCare authorized personnel to service the GE HealthCare OncoCare 1.0 application. This document covers the installation, configuration steps and troubleshooting of the GE HealthCare OncoCare application.

### 2.2 About GE HealthCare OncoCare

GE HealthCare OncoCare is a care management support solution that organizes the patient's disparate cancer data into a visual longitudinal patient journey view. The application structures the complex disease data efficiently in a doctor-friendly format and helps the clinician by presenting a concise view of the integrated patient data. The GE HealthCare OncoCare application is intended to display a user configurable longitudinal view of the patient's oncology data such as medications, clinical findings, radiology and pathology procedures, biomarker tests, treatments, encounters in a timeline format. GE HealthCare OncoCare uses advanced text processing to create a concise visual summary from the reports and facilitates immediate access to original report data from the source systems for the clinician. These data sources may be obtained from EMR, Radiology Information Systems or PACS, Lab Information Systems and genomic report archives.

#### **Important**

GE HealthCare OncoCare does not interpret, alter, or modify the source data, it can only be as accurate as the source data is. Always refer to primary data sources for clinical decisions.

### 2.3 References

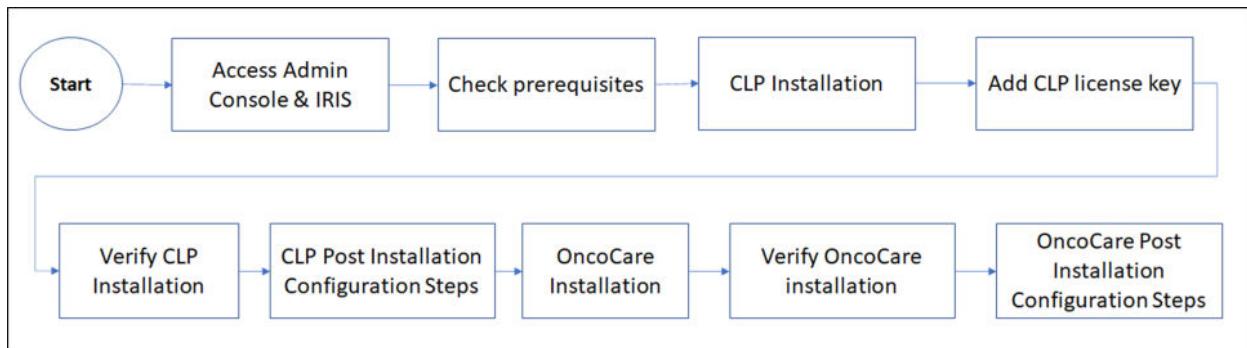
Title	Document ID
Edison HealthLink 2.0.1 Service Manual	DOC2760142
PDS 1.1.0 Install and Troubleshooting Guide	DOC2836131
OncoCare 1.0 Site Configuration Checklist	DOC2906802

### 2.4 Abbreviations

Term	Definition
CLP	Clinical Language Processing
DCC	Data and Cloud Connector
EMR	Electronic Medical Records
FHIR	Fast Healthcare Interoperability Resources (pronounced as "fire")
PACS	Picture Archiving and Communication System
PDS	Patient Data Store

Term	Definition
PID	Patient Identifier
UI	User Interface

## 3 Installation workflow



- Access Admin Console & IRIS:
  - Login to the *Admin Console* with **GE Administrator** credentials.
  - Select **Iris** from the left navigation pane.
- Check prerequisites: [4 Prerequisites on page 15](#)
- CLP Installation: [5 Clinical Language Processing \(CLP\) on page 18](#)
- Add CLP license key: [5.2 Update license key for CLP on page 19](#)
- Verify CLP Installation: [5.3 Verify CLP installation on page 20](#)
- CLP Post Installation Configuration Steps: [5.4 Post-installation steps for CLP on page 21](#)
- OncoCare Installation: [6 OncoCare on page 25](#)
- Verify OncoCare installation: [6.2 Verify the OncoCare application installation on page 26](#)
- OncoCare Post Installation Configuration Steps: [6.3 Configuration list on page 27](#)

## 4 Prerequisites

### 4.1 Data required from the hospital

Use the OncoCare 1.0 Site Configuration Checklist to gather mandatory data that are required for the installation process described in this manual.

See the references for more information: [2.3 References on page 12](#)

The questions should be targeted to from the hospital sites contact personnel and/or Hospital IT Administrator. The collected data should be written in notes and should be kept for the installation process.

### 4.2 Procure CLP license

The CLP component needs a license key.

*Steps TBD*

1.

### 4.3 Confirm Edison HealthLink 2.0.1 is installed

1. Access the Edison™ HealthLink™ (EHL) *Admin Console* from the hospital network.

Use the site's registered domain name for the url:

`https://<Domain>/admin-console-home/`

2. Login to the *Admin Console* using the provided credentials for **GE HealthCare Service User** or **GE HealthCare Admin User**.
3. After a successful login, confirm the Edison™ HealthLink™ (EHL) version number from the left panel.

### 4.4 Confirm PDS 1.1 and DCC 1.1 are installed

1. Access the *Admin Console* from the hospital network.

Use the site's registered domain name for the url:

`https://<Domain>/admin-console-home/`

2. Select **Applications > Iris** from the *Admin Console*.  
The *Software Inventory* page opens.
3. Click **Updates > Manage**.
4. Click on the **History** tab and confirm that the `PDS.iso` and the `DCC.iso` are installed successfully.

## 4.5 Confirm CLP packages are delivered to IRIS

The CLP packages are automatically delivered with e-delivery.

1. Access the *Admin Console* from the hospital network.

Use the registered domain name of the site for the url:

<https://<Domain>/admin-console-home/>

2. Select **Applications > Iris** from the *Admin Console*.

The *Software Inventory* page opens.

3. Click **Updates > Manage**.

4. Click on the **Downloads** tab and confirm that the following required CLP packages are present for OncoCare:

- Core
- Onco

## 4.6 Confirm OncoCare package is delivered to IRIS

The CLP packages are automatically delivered with e-delivery.

1. Access the *Admin Console* from the hospital network.

Use the site's registered domain name for the url:

<https://<Domain>/admin-console-home/>

2. Select **Applications > Iris** from the *Admin Console*.

The *Software Inventory* page opens.

3. Click **Updates > Manage**.

4. Click on the **Downloads** tab and confirm that the OncoCare package is present.

### 4.6.1 No eDelivery case

Make sure that the latest release of the OncoCare software package is either:

- Downloaded on your system to a separate folder.

OR

- Available to you on a portable Universal Serial Bus (USB) device. The software package contains two files.

These are as follows:

- The ISO image of the application.
- A JSON metadata file.

#### NOTE

Make sure to create a folder for the OncoCare package.

It is recommended to name the folder of the software package after the name of the ISO file without the .iso extension.

# 5 Clinical Language Processing (CLP)

## 5.1 Installation steps for CLP

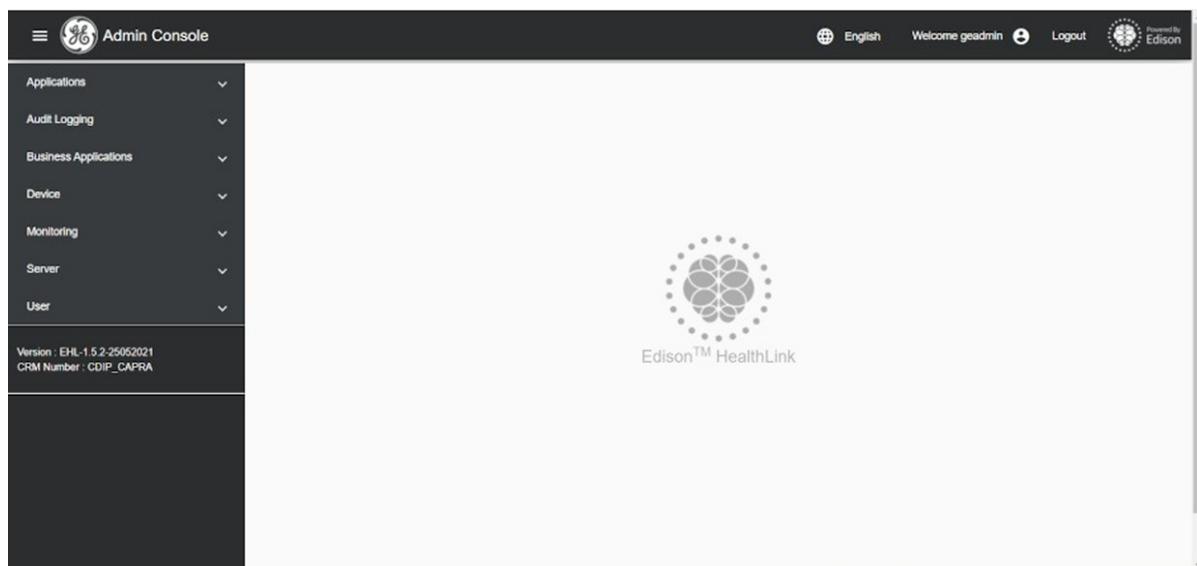
CLP requires the packages from the list below for OncoCare:

- Onco (*nlp-onco*)
- Core (*nlp-core*)

### Important

The order of installation for the packages must be as in the list above.

1. Log in to the *Admin Console* as **GE Administrator**.



The *Admin Console* home page opens.

2. Select **Applications** > **Iris** from the left navigation pane.

The *Software Inventory* screen opens.

3. Click the **Update** > **Manage** option.

The *Update* screen opens with the *Downloads* tab open by default.

4. Click the **Import Packages** link.

The *Import Packages* modal window opens.

5. Upload the packages:

- 5.1. Navigate to the location of the folder that contains CLP package.

- 5.2. Select the folder of the package you want to upload.

### Important

Make sure that you select the correct folder that contains the two files of the related software package.

- 5.3. Click the **Upload** button.  
The uploaded package with the name of the folder opens on the *Available* tab.
  6. Select the check-box of the package that need to be imported from the *Available* tab of the *Import Packages* modal window.
  7. Click the **Import Packages** button from the *Import Packages* modal window.  
After the import of the selected packages has completed, the imported packages show up on the *Imported* tab with **Imported** status.
  8. Click the **Close** button from the *Import Packages* modal window to exit the modal window.  
The packages are listed on the *Updates* tab.
  9. Select the check-box of the OncoCare package from the *Updates* tab.
  10. Click the **Install Now** button from the lower-right corner of the screen.  
The *Install Now* dialog box opens showing the *Confirmation step*.
  11. Check the requirements to ensure that all of them are met.  
If any of the requirements is not met, click the **Cancel** button.
  12. Select the check-box of the acknowledgement to complete the *Confirmation step*.
  13. Click the **Proceed** button from the *Install Now* dialog box.  
The *Install Now* dialog box displays the *Installation step* that shows the list of packages to be installed and the estimated installation time.
  14. Select the check-box of the acknowledgement.
  15. Click the **Continue** button from the *Install Now* dialog box.  
The installation of the packages begins and the *Install Now* dialog box shows the installation progress.  
After the installation of a package has completed successfully, the *Install Status* of the corresponding package changes to **Installed**.
  16. Click the **Close** button to exit the *Install Now* dialog box after the installation of both packages has completed successfully.  
The installation of the CLP package is now complete.
  17. Log out from the *Admin Console*.
- Proceed to the [Update license key on page 19](#) section.

## 5.2 Update license key for CLP

Before you begin, a CLP license shall be available. See the following section to get of the license:  
[Procure CLP license on page 15](#)

CLP requires a JSL license key to run its applications.

Follow the steps below to add or update the license.

1. Download the script from the following location for the license installation: <https://hc-us-east-aws-artifactory.cloud.health.ge.com/artifactory/docker-edison-nlp-dev/nlp/v2/releases/nlp-onco.zip>

2. Login to the **setup VM** using:

```
ssh root@<setupVM IP>
```

3. Copy the downloaded zip files to the system.
4. Unzip the zip file and replace the contents of the license file with the license procured from the program manager.
5. Run the configuration script with the command:

```
./config license
```

6. The license is updated. The services restart automatically in approximately 5 minutes and be in the **Running** status as shown in the next section: [Verify CLP installation on page 20](#)

## 5.3 Verify CLP installation

1. Login to the Edison™ HealthLink™ (EHL) *setup VM* using `ssh root@<setupVM IP>` and verify that the profiles and helm charts are installed properly using the following commands:

1.1.

```
kubectl get pods -n nlp-core
```

NAME	READY	STATUS	RESTARTS	AGE
nlp-batch-processor-8465c46976-sr79q	1/1	Running	0	12h
nlp-core-preprocessingplugin-6b5b4b47d5-dfcck	1/1	Running	0	13h
nlp-core-queryprocessor-756fdcfdcf-h6j4h	1/1	Running	0	13h
nlp-json-transformer-958b7dcf-csj75	1/1	Running	0	13h
nlp-plugin-service-54b95ccf8b-f7g25	1/1	Running	0	14h
redis-ehl-redis-master-0	1/1	Running	0	6d8h

1.2.

```
kubectl get pods -n nlp-onco
```

NAME	READY	STATUS	RESTARTS	AGE
imaging-nlp-onco-engine-7db7bbd75c-9zcjp	1/1	Running	0	12d
oncowrapper-68bfc5864d-gctmt	1/1	Running	0	13h

1.3.

```
kubectl get pods -n nlp-cli
```

NAME	READY	STATUS	RESTARTS	AGE
nlp-cli-6ff554f6cb-kxrls	1/1	Running	0	6d2h

1.4.

```
kubectl get pods -n nlp-jsl
```

NAME	READY	STATUS	RESTARTS	AGE
imaging-nlp-jsl-doc-parser-c87fb8469-khqr9	1/1	Running	0	14h
imaging-nlp-jsl-ner-77c9b4b5d8-m99d6	1/1	Running	0	19h
imaging-nlp-jsl-resolver-f9fc4dbbf-gvnb7	1/1	Running	0	20h

## 1.5.

```
helm list -n nlp-core
```

NAME	NAMESPACE	REVISION	UPDATED	STATUS	CHART	APP VERSION
nlp-core-batchprocessor	nlp-core	1	2022-04-28 18:13:37.384265996 +0000 UTC deployed		nlp-core-batchprocessor-1.0.1-a70c2d1	1.16.0
nlp-core-jsontransformer	nlp-core	1	2022-04-28 18:13:12.887656115 +0000 UTC deployed		nlp-core-jsontransformer-1.0.0-8634ba9	1.16.0
nlp-core-pluginservice	nlp-core	1	2022-04-28 18:13:12.590427281 +0000 UTC deployed		nlp-core-pluginservice-1.0.0-71ac8c1	1.16.0
nlp-core-preprocessingplugin	nlp-core	1	2022-04-28 18:13:11.89404958 +0000 UTC deployed		nlp-core-preprocessingplugin-1.0.0-a235ad9	1.16.0
nlp-core-queryprocessor	nlp-core	1	2022-04-28 18:13:12.37688653 +0000 UTC deployed		nlp-core-queryprocessor-1.0.0-d0dc0ba	1.16.0
redis	nlp-core	1	2022-04-28 18:13:11.997188987 +0000 UTC deployed		ehl-redis-1.0.0	5.0.7

## 1.6.

```
helm list -n nlp-onco
```

NAME	NAMESPACE	REVISION	UPDATED	STATUS	CHART	APP VERSION
nlp-onco-engine	nlp-onco	1	2022-03-07 04:34:10.415907285 +0000 UTC deployed		nlp-onco-engine-2.2.0-2bd5732	1.16.0
nlp-onco-wrapper	nlp-onco	1	2023-03-07 04:34:10.433127775 +0000 UTC deployed		nlp-onco-wrapper-2.2.0-2bd5732	1.16.0

## 1.7.

```
helm list -n nlp-cli
```

NAME	NAMESPACE	REVISION	UPDATED	STATUS	CHART	APP VERSION
nlp-cli-volume	nlp-cli	1	2023-03-07 04:16:08.051661712 +0000 UTC deployed		nlp-cli-volume-2.2.0-252ff34	1.16.0

## 1.8.

```
helm list -n nlp-jsl
```

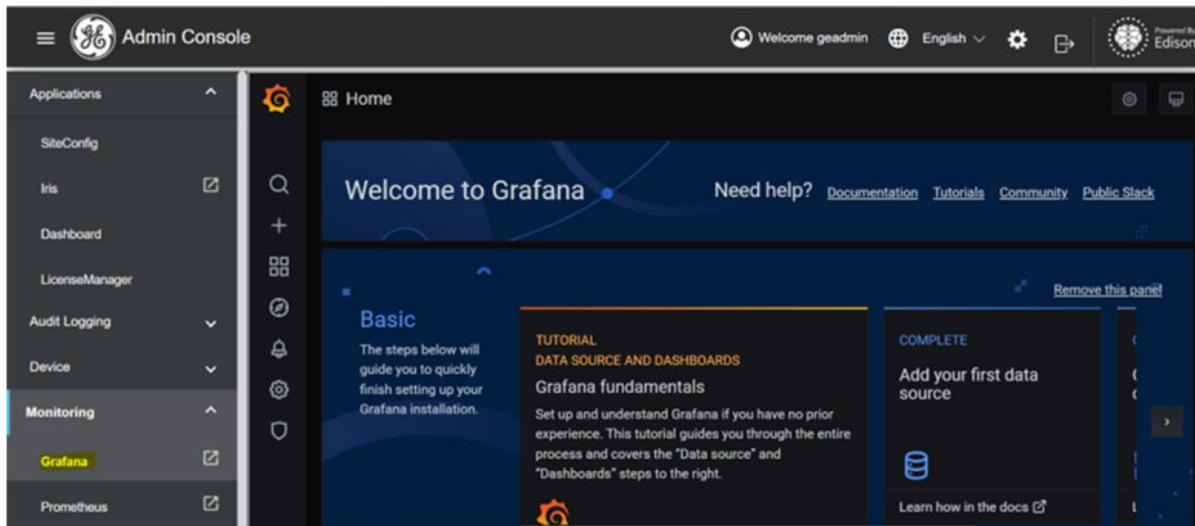
NAME	NAMESPACE	REVISION	UPDATED	STATUS	CHART	APP VERSION
nlp-jsl-doc-parser	nlp-jsl	1	2022-04-12 09:33:51.11312645 +0000 UTC deployed		nlp-jsl-doc-parser-1.0.0-3661fb1	1.0.0
nlp-jsl-ner	nlp-jsl	1	2022-04-12 09:33:51.425537375 +0000 UTC deployed		nlp-jsl-ner-1.0.0-3661fb1	1.16.0
nlp-jsl-resolver	nlp-jsl	1	2022-04-12 09:33:51.21534812 +0000 UTC deployed		nlp-jsl-resolver-1.0.0	1.16.0

## 5.4 Post-installation steps for CLP

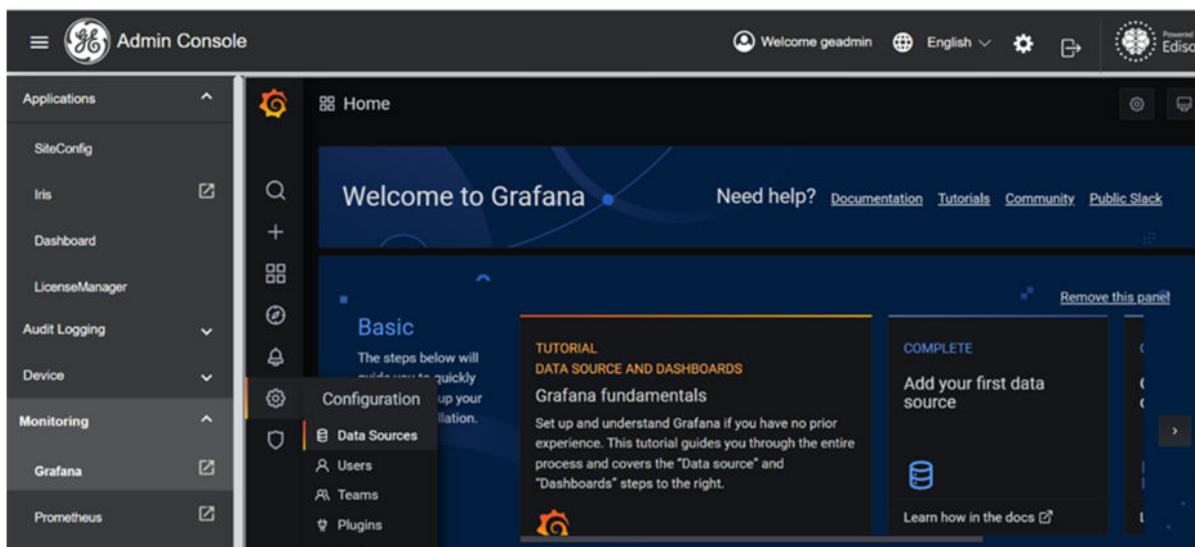
Data source needs to be added to enable the CLP dashboard in Grafana®.

1. Login to *Admin Console* with **GE Administrator** credentials.

2. Open *Grafana* from the *Monitoring* menu.

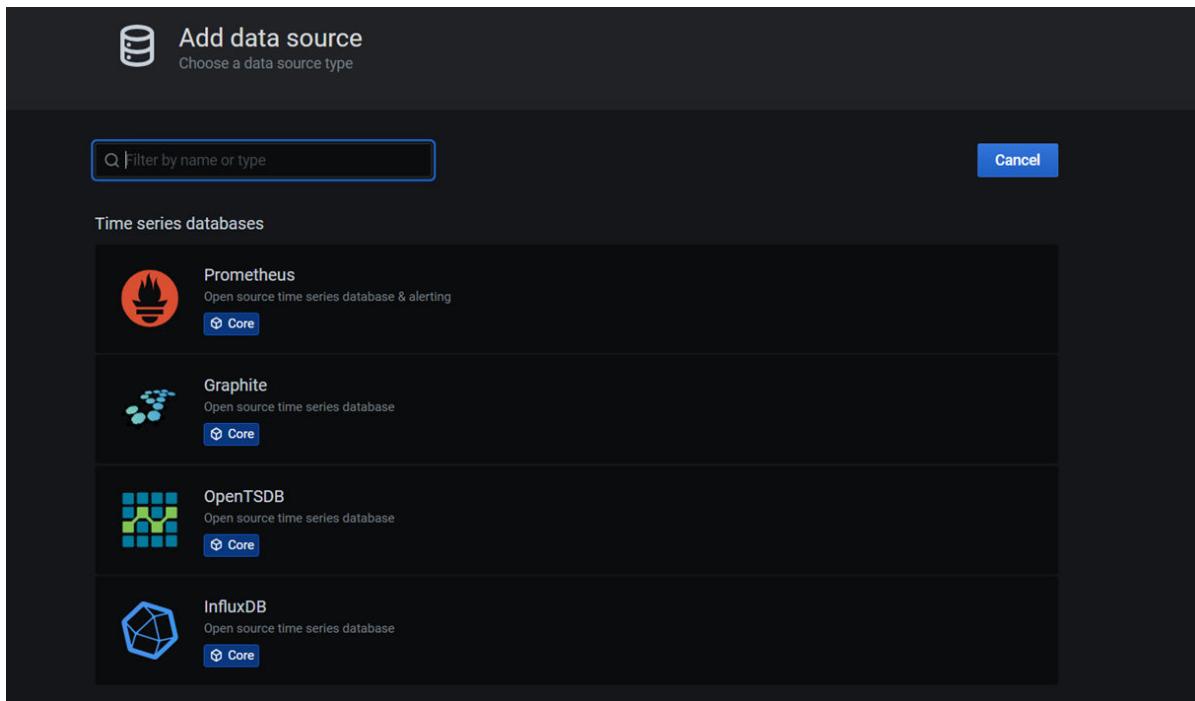


3. Click on *Configuration* (settings icon) in the left Grafana panel.
4. Click on the **Data Sources** option.



5. Select the **Add a data source** button at the top.

6. Select **Prometheus** from the list.



7. Configure the data source values.

- **Name:** *Prometheus-loki*

**Important**

The name is case-sensitive. Make sure that you copy the correct **Name**.

- URL: `http://ehl-logging-loki:3100/loki`

The screenshot shows the Grafana interface for managing data sources. The top navigation bar includes icons for Home, Search, Create, and Dashboards. The main title is "Data Sources / Prometheus-loki" with a note "Type: Prometheus". Below the title, there are tabs for "Settings" (selected) and "Dashboards". A search bar and a "Default" toggle switch are also present. The "HTTP" section contains fields for "URL" (set to "http://ehl-logging-loki:3100/loki"), "Access" (set to "Server (default)"), and "Whitelisted Cookies" (with an "Add" button). The "Auth" section includes options for "Basic auth" (disabled), "With Credentials" (disabled), "TLS Client Auth" (disabled), "With CA Cert" (disabled), and "Skip TLS Verify" (disabled).

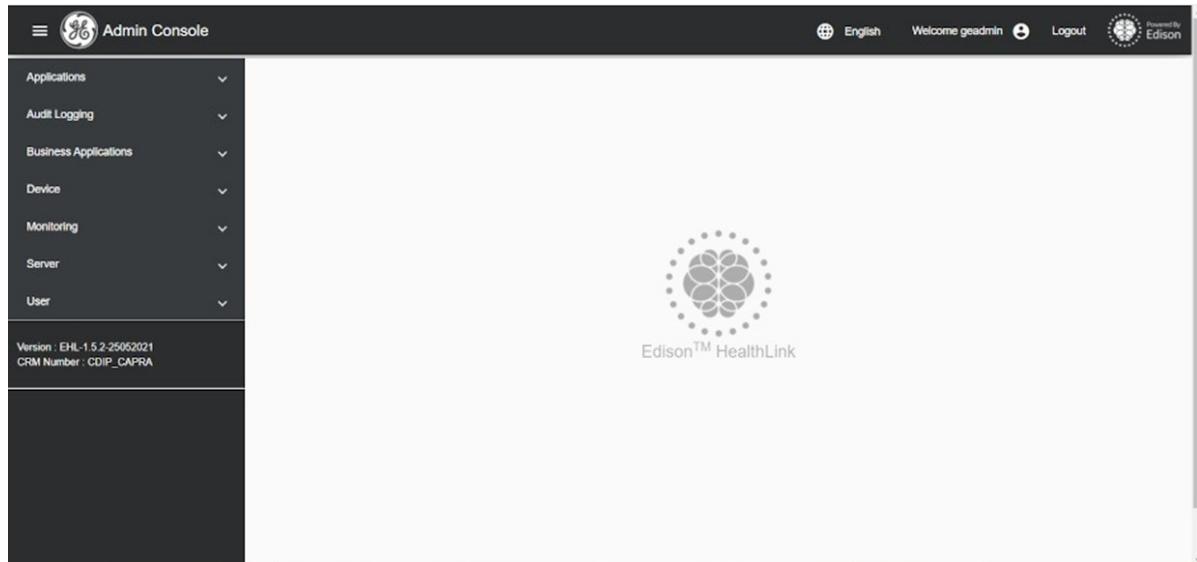
## 6 OncoCare

### 6.1 Install OncoCare application

Use the following procedure to install the OncoCare application.

1. Log in to the *Admin Console* using **GE Administrator** credentials.

The *Admin Console* home page appears.



2. Select **Applications > Iris** from the left navigation pane.

The *Software Inventory* screen appears.

3. Click the **Update > Manage** option.

The *Update* screen appears with the *Downloads* tab open by default.

4. Click the **Import Packages** link.

The *Import Packages* modal window appears.

5. Upload the packages:

- 5.1. Navigate to the location of the folder that contains OncoCare package.

- 5.2. Select the folder of the package you want to upload.

#### Important

Make sure that you select the correct folder that contains both files of the corresponding software package.

- 5.3. Click the **Upload** button.

The uploaded package with the name of the folder appears on the *Available* tab.

6. Select the check box of the package that need to be imported from the *Available* tab of the *Import Packages* modal window.

7. Click the **Import Packages** button from the *Import Packages* modal window.

After the import of the selected packages has completed, the imported packages show up on the *Imported* tab with *Imported* status.

8. Click the **Close** button from the *Import Packages* modal window to exit the modal window.

The packages are listed on the *Updates* tab.

9. Select the check box of the OncoCare package from the *Updates* tab.

10. Click the **Install Now** button from the lower-right corner of the screen.

The *Install Now* dialog box appears showing the *Confirmation* step.

11. Check the requirements to ensure that all of them are met.

If any of the requirements is not met, click the **Cancel** button.

12. Select the check box of the acknowledgement to complete the *Confirmation* step.

13. Click the **Proceed** button from the *Install Now* dialog box.

The *Install Now* dialog box displays the *Installation* step that shows the list of packages to be installed and the estimated installation lead time.

14. Select the check box of the acknowledgement.

15. Click the **Continue** button from the *Install Now* dialog box.

The installation of the packages begins and the *Install Now* dialog box shows the installation progress.

After the installation of a package has completed successfully, the *Install Status* of the corresponding package changes to *Installed*.

16. Click the **Close** button to exit the *Install Now* dialog box after the installation of both packages has completed successfully.

The installation of the OncoCare package is now complete.

17. Log out from the *Admin Console*.

18. Log in again to *Admin Console* to reload the left toolbar and make the OncoCare tools appear in the menu.

19. Proceed to the OncoCare verification then to the configuration steps.

## 6.2 Verify the OncoCare application installation

Use this procedure to check that the profile and the HELM™ charts for the OncoCare application have been properly installed.

1. Login to the *setupVM* with *root* credentials.

2. Check that the profiles and the HELM™ charts are installed properly for OncoCare:

- 2.1. Execute the following command:

```
kubectl get pods -n onco
```

The following shall be present on the list with *running* status: *core*, *ui*, *log-service*, *config-service*, *valueset-store*

- 2.2. Execute the following command:

```
helm list -n onco
```

OncoCare deployment shall be present on the list with *deployed* status.

3. Check the Uniform Resource Locators (URLs).

- 3.1. Open the following URL to check the OncoCare URL:

<https://<server-address>/onco/onchron-oncocare>

The application login screen is loaded.

4. Log in to the *Admin Console* using **GE Administrator** credentials. An OncoCare configuration is available in the left navigation pane. Click **Applications**. Check that **OncoCare Config** is present.

## 6.3 Configuration list

Mandatory configurations	Link to section
User Management	<a href="#">7.1 User Management on page 28</a>
Backup and restore	<a href="#">7.2 Backup and restore on page 28</a>
Enable CLP	<a href="#">7.3 Clinical Language Processing (CLP) on page 30</a>
PID - Patient identifier	<a href="#">7.5.1.1 Patient Identifier (PID) on page 31</a>

Optional or case dependent configurations	Link to section
Analytics - optional, based on customer contract	<a href="#">7.5.2.2 Analytics on page 33</a>
SMART - optional, in case EMR is used for OncoCare launch	<a href="#">7.5.2.3 SMART on page 33</a>
DICOM Viewer - optional, in case a DICOM Viewer is already available at site	<a href="#">7.5.1.2 DICOM Viewer URL on page 32</a>
System notification - anytime when it is necessary.	<a href="#">7.5.2.1 System notifications on page 33</a>

# 7 OncoCare application configuration

## 7.1 User Management

Refer to the Edison HealthLink 2.0.1 Service Manual for **User Management** details.

See the references for more information: [2.3 References on page 12](#)

The OncoCare user role name is *onchron-oncocare*. This role shall be assigned to the user who shall have access to the OncoCare application.

## 7.2 Backup and restore

An S3 Compatible Storage location must be configured on EHS to be able to create a backup for the OncoCare application related data.

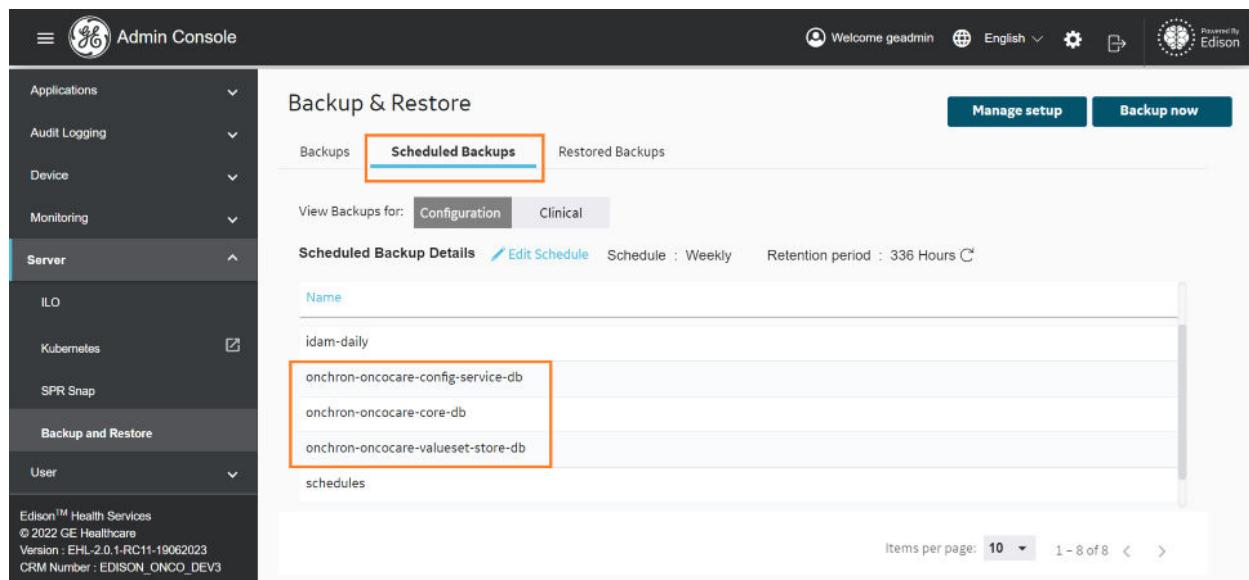
Refer to the Edison HealthLink 2.0.1 Service Manual to setup the backup on the system level.

See the references for more information: [2.3 References on page 12](#)

The backup frequency is configured to **weekly** by default.

OncoCare has the following backups:

- Config
- Core
- Value set



The screenshot shows the Admin Console interface for 'Backup & Restore'. The left sidebar has a 'Server' section selected. The main area displays 'Scheduled Backups' for 'Configuration' (selected) and 'Clinical'. It shows a 'Scheduled Backup Details' section with 'Schedule : Weekly' and 'Retention period : 336 Hours'. Below this, a table lists backup entries for 'idam-daily' under 'Name'. The entries 'onchron-oncocare-config-service-db', 'onchron-oncocare-core-db', and 'onchron-oncocare-valueset-store-db' are highlighted with an orange border. At the bottom right, there are pagination controls for 'Items per page: 10' and '1 - 8 of 8'.

Creating a backup on demand

1. Follow these steps to create a manual backup on demand:
  - 1.1. Login to the *Admin Console* with **GE Administrator** credentials.

- 1.2. Select **Server > Backup and Restore** from the navigation pane on the left.
- 1.3. Click **Backup now** on the top right corner.

The screenshot shows the Admin Console interface with the 'Backup & Restore' section selected. The 'Scheduled Backups' tab is active. On the right, there's a list of scheduled backups with their names: 'idam-daily', 'onchron-oncocare-config-service-db', 'onchron-oncocare-core-db', 'onchron-oncocare-valueset-store-db', and 'schedules'. At the bottom right of the backup list, there are pagination controls for 'Items per page: 10' and '1 - 8 of 8'.

- 1.4. Enter a tag for the *Backup*.
- 1.5. Select **Remote** or **Local** as a *Backup target*.
- 1.6. Select the OncoCare component(s) that you want to create a backup from.
- 1.7. Click on **Backup Now**.

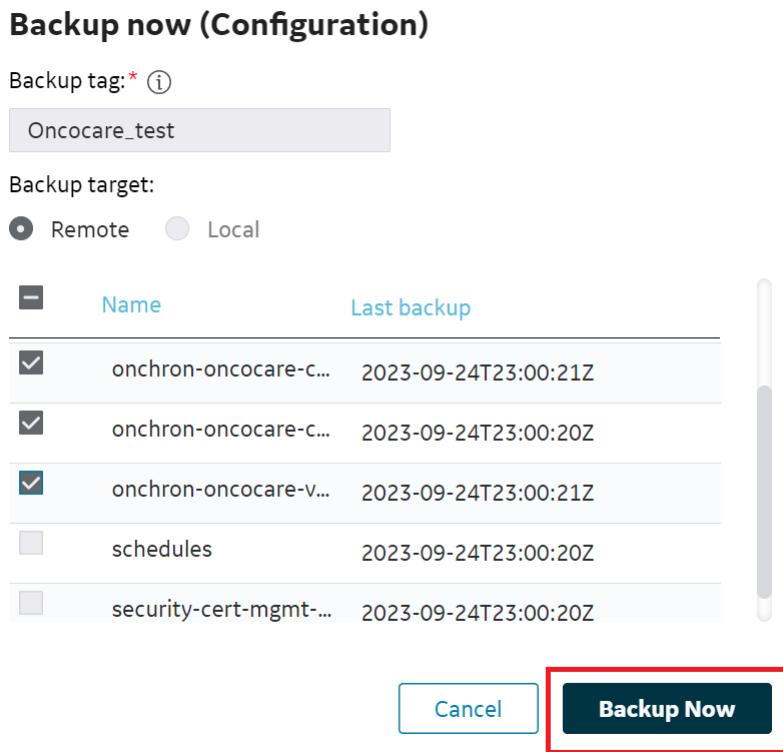
The screenshot shows the Admin Console interface with the 'Backups' tab selected. There are four completed backups listed in a table:

Name	Tag	Completed on	Status
eat-daily-20230926080645	test-20230926080645	26 Sep 2023 at 10:06:48 AM	<span style="color: red;">⚠ Failed</span>
eat-daily-20230926084844	TestBackup-20230926084844	26 Sep 2023 at 10:49:11 AM	<span style="color: green;">✓ Completed</span>
onchron-oncocare-valueset-store-db-20230927...	Backup11-20230927081305	27 Sep 2023 at 10:13:32 AM	<span style="color: green;">✓ Completed</span>
onchron-oncocare-valueset-store-db-20230928...	Oncocare_test-20230928085801	28 Sep 2023 at 10:58:33 AM	<span style="color: green;">✓ Completed</span>

When the backup is done, the backup status is marked as **Completed**.

Restoring from backup

2. Follow these steps to restore a backup:



- 2.1. Login to the *Admin Console* with **GE Administrator** credentials.
- 2.2. Select **Server > Backup and Restore** from the navigation pane on the left.
- 2.3. Select the backup(s) you want to restore.
- 2.4. Click on **Restore backup**.
- 2.5. Select the **Restored Backups** tab.
- 2.6. Confirm that the selected backups were restored.

**NOTE**

Restoring a backup can take some time. Refresh the view manually, if needed.

## 7.3 Clinical Language Processing (CLP)

OncoCare is using Clinical Language Processing (CLP).

CLP Postprocessing shall be enabled in Patient Data Store (PDS) to run CLP on incoming patient data.

Follow the steps in PDS 1.1.0 Install and Troubleshooting Guide to enable CLP in PDS.

See the references for more information: [2.3 References on page 12](#)

## 7.4 OncoCare configuration steps

OncoCare contains deployment specific configuration items that can be configured through OncoCare's Configuration UI.

Follow the steps below to access the configuration page.

1. Log in to the *Admin Console* using **GE Administrator** credentials.
2. Click **Applications > OncoCare Config** from the left navigation pane.

```
{
  "api": {
    "log": "/oncocare/log",
    "core": "/oncocare/core"
  },
  "auth": {
    "clientId": "H7f5blOx7kRxS8qMf_jhhKc1Ys",
    "authUrl": "/oauth2/authorize",
    "tokenUrl": "/oauth2/token",
    "logoutUrl": "/oidc/logout"
  },
  "analytics": {
    "enabled": false
  },
  "smart": {
    "enabled": false,
    "clientId": ""
  },
  "integrations": {
    "enabled": false,
    "apps": {}
  },
  "systemNotifications": {
    "enabled": true,
    "entries": [
      {
        "type": "high-severity-alt",
        "message": "Not for clinical use"
      }
    ]
  }
}
```

```
{
  "dicomViewerUrl": "",
  "patientIdentifier": {
    "system": "",
    "type": {
      "code": "MR",
      "system": "http://terminology.hl7.org/CodeSystem/v2-0203"
    }
  }
}
```

## 7.5 Configuration items

OncoCare configurations are separated in two groups:

- *Core Service* related configurations:
  - Patient Identifier (PID) (*patientIdentifier*)
  - DICOM Viewer URL (*dicomViewerUrl*)
- *User Interface (UI)* related configurations:
  - System notifications
  - Analytics
  - SMART

### 7.5.1 Core service related configurations

#### 7.5.1.1 Patient Identifier (PID)

Depending on the Region and Hospital system, a Patient can be identified with various identifiers (Medical Record Number, Social Security Number, and so on). In order to show the correct Patient Identifier in OncoCare, the '*patientIdentifier*' config item has to be changed.

OncoCare supports selecting the Patient Identifier based on the HL7 FHIR R4 Patient Resource (<https://www.hl7.org/fhir/R4/patient.html>) identifier property.

The correct *system* or *type* properties from the identifier property of the patient must be mapped to the *patientIdentifier* configuration of OncoCare.

The values should be mapped following this guide:

- `FHIR.Patient.identifier.system` → `OncoCare.patientIdentifier.system`
- `FHIR.Patient.identifier.type.coding.code` → `OncoCare.patientIdentifier.type.code`
- `FHIR.Patient.identifier.type.coding.system` → `OncoCare.patientIdentifier.type.system`

Example configuration:

FHIR Patient Resource identifier property:

```
"identifier": [
  {
    "system": "http://hospital.smarthealthit.org", 1
    "type": {
      "coding": [
        {
          "code": "MR", 2
          "system": "http://terminology.hl7.org/CodeSystem/v2-0203", 3
          "display": "Medical Record Number"
        }
      ],
      "text": "Medical Record Number"
    },
    "value": "fd25b51b-dc2a-4edb-b7c9-2c5d178a0ee7"
  }
],
```

OncoCare *patientIdentifier* config (system or type):

```
"patientIdentifier": {
  "system": "http://hospital.smarthealthit.org", 1
  "type": {
    "code": "MR", 2
    "system": "http://terminology.hl7.org/CodeSystem/v2-0203" 3
  }
}
```

## 7.5.1.2 DICOM Viewer URL

In the OncoCare application a DICOM Viewer can be launched for DICOM studies of a patient. DICOM Viewer URL shall be specified as a configuration parameter. Two parameters are supported in the current OncoCare version to launch DICOM data:

- Study ID
- Accession number

Syntax of the static URL:

```
protocol://subdomain.domain?<study ID parameter name>={studyId}  
protocol://subdomain.domain?<accession number parameter name>={acsn}
```

Example (for ZFP viewer):

<https://10.177.217.216/zfp?mode=Proxy#view&san={acsn}<credentials>>

<https://10.177.217.216/zfp?mode=Proxy#view&sui={studyId}<credentials>>

## 7.5.2 UI (User Interface) configurations

### 7.5.2.1 System notifications

This parameter is used to display a message to the clinical users on the OncoCare application UI.

Notification format:

```
{  
  "type": "<TYPE>",  
  "message": "<MESSAGE>"  
}
```

### 7.5.2.2 Analytics

Analytic log collection is disabled by default on the system.

#### Important

In case the customer contract enables analytic log collection, only then this parameter can be set to enabled.

If the analytics parameter is enabled, the analytic logs will be collected on the system and will be available through the SPR snap tool.

### 7.5.2.3 SMART

Configure the listed items to be able to launch OncoCare application from an EMR system.

#### NOTE

Proxy: If the hospital uses a proxy, it needs to be configured as well as described in the EHL 2.0.1 Service Manual. See the references for more information: [2.3 References on page 12](#)

EMR identity provider

1. Login to the *Admin Console* with **GE Administrator** credentials.
2. Open **User > User Management**.  
The *User Management* tool opens.
3. Select *Identity provider* configuration tab.
4. Select **Add Identity Provider**.
5. Configure the following items:
  - 5.1. **Name**
  - 5.2. **Discovery URL**
  - 5.3. Enable token exchange

- 5.4. Identity provider issuer provided by the customer.
- 5.5. **Alias:** Client ID of OncoCare application provided by the customer

#### Role mapping

6. Open the *Admin Console User Management* tool by clicking **User > User Management**.
7. Select the **Identity provider** configuration tab.
8. For the EMR, select the **Role mapping** option.
9. Add the user IDs and map them to the OncoCare application role.

#### Enable SMART in OncoCare configuration

10. Open the *Admin Console OncoCare Configuration* tool by clicking **Application > User Management**.
11. Enable SMART option. Set the **Enabled** parameter to *true*.
12. Configure the **ClientID** of the OncoCare application provided by the customer.
13. Save the configuration.

## 7.6 Update configuration

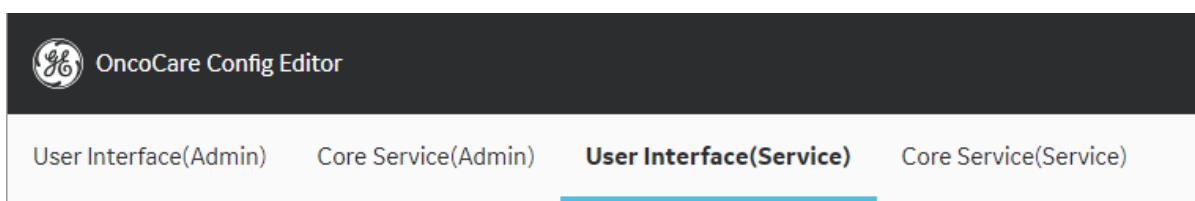
### User Interface configuration update:

User Interface related configuration updates take effect when OncoCare web application is reloaded in the browser.

### Core Service configuration update:

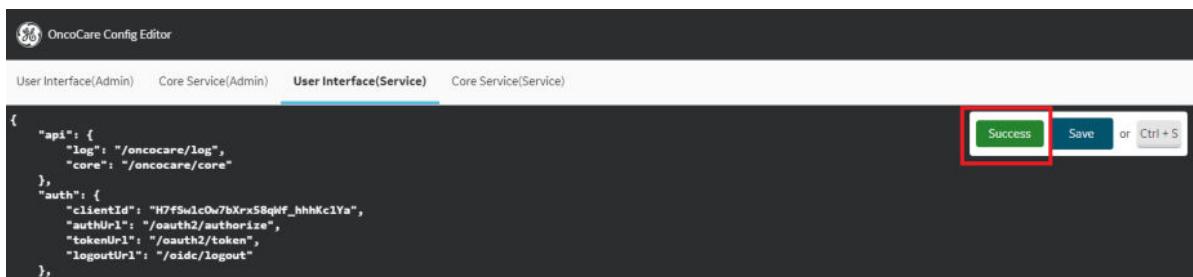
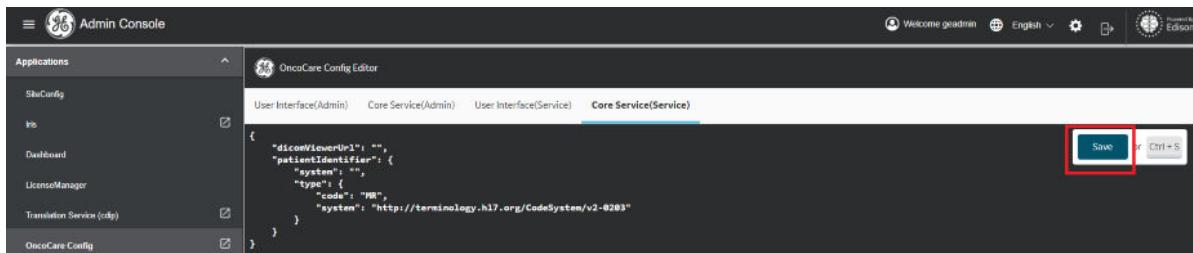
Use this procedure to change the given OncoCare configuration item:

1. Log in to the *Admin Console* using **GE Administrator** credentials.
2. Click **Applications > OncoCare Config** from the left navigation pane.
3. Select the **User Interface(Service)** or the **Core Service(Service)** tab depending on the parameter to be modified

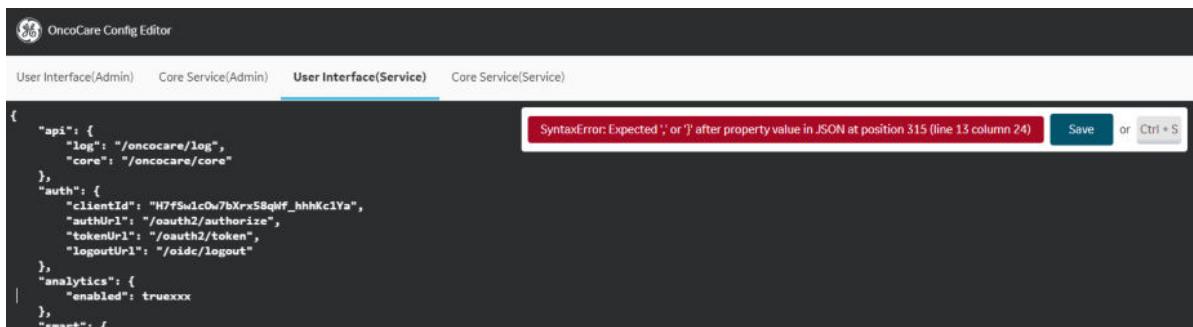


4. Modify the values inside the item.

5. Click **Save** or press **Ctrl+S** on your keyboard.



A **Success** message shows up, if the save of the configuration is a success.



A **Failure** message shows up with the details, if the save of the configuration fails.

## 7.7 OncoCare Terminology

A *value set* is a standard FHIR resource that specifies a set of codes from one or more code systems (like SNOMED or LOINC) that helps to interpret FHIR data in a given context. Data representation in FHIR is generic (for example an Observation or DiagnosticReport can contain many different things) and if we want to narrow it down and categorize the data, then a more fine grained approach is needed.

*Value sets* can help in this: the codable fields of incoming FHIR data can be matched against specific *value sets* that represents a narrower concept so that the application can identify the right way to handle it. In practice that means that the behavior of the application can be fine-tuned with this feature. If for example an event on the timeline cannot be classified to any known category, then by default it is displayed on the *Uncategorized swimlane*. This can be a cognitive burden if the user is looking, for example, a pathology report and cannot find it where it is assumed. But with the help of the *value set* configuration the medical coder of the hospital can determine the appropriate categorization rules, so that the event will be visible at the right place where the users will look for it.

## 7.7.1 Main value set configuration

OncoCare comes with a default configuration based on codes from standard code systems, but the usage of these can vary based on the workflows of the specific institution, so a medical coder should review and fine-tune it to the needs of the hospital.

### Important

The configuration and maintenance of the value sets is the responsibility of the customer.

### NOTE

The *OncoCare Terminology* menu already contains a default list of the available *Value set name* list (domains). The content of the list cannot be changed, but a new version of each value set .csv file can be uploaded to adjust the used terminology code system to the one used on the site of the customer.

### NOTE

The *vs* in the file names stands for 'value set'. There is no need to keep this filename format, the validation focuses only on the content of the file.

### 7.7.1.1 Download value set configuration

1. Access site configuration from the *Admin console* by selecting **Applications > OncoCare Terminology** from the left menu.



Value set name	Version	Description	Actions
active-allergy-status-vs			<a href="#">Download</a> <a href="#">Upload new version</a>
activity-observation-category-vs			<a href="#">Download</a> <a href="#">Upload new version</a>
alcohol-history-vs			<a href="#">Download</a> <a href="#">Upload new version</a>
biopsy-procedure-vs		Snomed: all concepts which is-a 86273004 Biopsy (procedure)	<a href="#">Download</a> <a href="#">Upload new version</a>

The *OncoCare Terminology* page opens with a table that has the following headers:

- Value set name
- Version
- Description
- Actions

2. Optionally, select the **Download all** link at the top to download the .csv files of all of the *Value set names* in a .zip file.



Value set name	Version	Description	Actions
active-allergy-status-vs			<a href="#">Download</a> <a href="#">Upload new version</a>
activity-observation-category-vs			<a href="#">Download</a> <a href="#">Upload new version</a>

3. Select the **Download** link in the selected *Value set name* row to download its individual .csv file.



Value set name	Version	Description	Actions
active-allergy-status-vs			<a href="#">Download</a> <a href="#">Upload new version</a>
activity-observation-category-vs			<a href="#">Download</a> <a href="#">Upload new version</a>

### 7.7.1.2 Upload value set configuration

1. Access site configuration from the *Admin console* by selecting **Applications > OncoCare Terminology** from the left menu.  
The *OncoCare Terminology* page opens.
2. Select the **Upload new version** link to upload a newer version of a selected value set. Refer to the [7.7.2 CSV format for the value sets on page 38](#) section for more information on the accepted .csv format, or [download on page 36](#) the .csv file of the selected value set to use it as a template.



Value set name	Version	Description	Actions
active-allergy-status-vs			<a href="#">Download</a> <a href="#">Upload new version</a>
activity-observation-category-vs			<a href="#">Download</a> <a href="#">Upload new version</a>

- Select the new .csv version of the file, then select the **Open** button from the dialog.



The screenshot shows a list of value sets in the OncoCare Terminology interface. A green success message at the top right says "Upload successful active-allergy-status-vs-2.csv". The table lists four value sets: "active-allergy-status-vs", "activity-observation-category-vs", "alcohol-history-vs", and "biopsy-procedure-vs". Each row has "Download" and "Upload new version" actions.

Value set name	Version	Description	Actions
active-allergy-status-vs			<a href="#">Download</a> <a href="#">Upload new version</a>
activity-observation-category-vs			<a href="#">Download</a> <a href="#">Upload new version</a>
alcohol-history-vs			<a href="#">Download</a> <a href="#">Upload new version</a>
biopsy-procedure-vs		Snomed: all concepts which is-a 86273004 Biopsy (procedure)	<a href="#">Download</a> <a href="#">Upload new version</a>

The selected file gets uploaded and validated. If the file is in the right format and validation is successfull, the page prompts the following notification:

Upload successful <filename>.

### 7.7.1.3 Troubleshoot: failed value set .CSV upload

- Incorrect file format:

- Make sure that a .csv file format is selected for the upload.



The screenshot shows a list of value sets in the OncoCare Terminology interface. A red error message at the top right says "Upload failed - line 1 and 3 should contain field names and start with \*\*\*". The table lists two value sets: "active-allergy-status-vs" and "activity-observation-category-vs". Each row has "Download" and "Upload new version" actions.

Value set name	Version	Description	Actions
active-allergy-status-vs	2		<a href="#">Download</a> <a href="#">Upload new version</a>
activity-observation-category-vs			<a href="#">Download</a> <a href="#">Upload new version</a>

- Incorrect file content:

- Correct the file content and upload the file again to fix the error.

See the following section for reference: [7.7.2 CSV format for the value sets on page 38](#)

### 7.7.2 CSV format for the value sets

The main value set tables can be formatted as a .csv file in the following simple format:

- Value Set Metadata Header
  - valuesetid** - The ID of the value set.
  - valueSetVersion** - The version of the value set.
  - valueSetDescription** - Short description of the value set.
- system** - The used terminology system from which the value comes from (e.g. LOINC, SNOMED, and so on).
- code** - The code of the value set.

- **display** - How the code is labeled and displayed in OncoCare.

Here is a short example version of a value set .csv file:

***valuesetid	valueSetVersion	valueSetDescription
height-vs	1.0	
***system	code	display
http://loinc.org	3137-7	Body height Measured
http://loinc.org	3138-5	Body height Stated
http://loinc.org	8302-2	Body height
http://loinc.org	8306-3	Body height -- lying
http://loinc.org	8308-9	Body height -- standing

# 8 Uninstall

## 8.1 Uninstall CLP

### 8.1.1 Uninstall the CLP core package

1. Login to the *setupVM* with *root* credentials.
2. Delete the CLP core profile installer, the profile registration, the bundle installation, and the bundle registration:
  - 2.1. Delete the CLP core profile installer, the profile registration, the bundle installation, and the bundle registration:

```
kubectl get pi,pr,abi,abr -n ehl-control-plane | grep -i "nlp-core" | awk '{print $1}' | xargs kubectl delete -n ehl-control-plane
```

- 2.2. Uninstall the CLP core package registration:

```
helm list -A | grep -i "core-ehs-pkg" | awk '{print $1}' | xargs helm uninstall -n ehl-control-plane
```

- 2.3. Uninstall CLP core helm package:

```
helm list -n nlp-core | awk '{print $1}' | tail -n +2 | xargs helm uninstall -n nlp-core
```

- 2.4. Delete CLP core namespace:

```
kubectl delete ns nlp-core
```

### 8.1.2 Uninstall CLP Onco package

1. Login to the *setupVM* with *root* credentials.
2. Execute the following commands:
  - 2.1. Delete the CLP Onco profile installer, the profile registration, the bundle installation, the bundle registration:

```
kubectl get pi,pr,abi,abr -n ehl-control-plane | grep -i "nlp-onco" | awk '{print $1}' | xargs kubectl delete -n ehl-control-plane
```

- 2.2. Uninstall the CLP onco package registration chart:

```
helm list -A | grep -i "nlp-onco-ehs" | awk '{print $1}' | xargs helm uninstall -n ehl-control-plane
```

- 2.3. Uninstall the nlp-onco helm packages:

```
helm list -n nlp-onco | awk '{print $1}' | tail -n +2 | xargs helm uninstall -n nlp-onco
```

- 2.4. Delete the nlp-onco namespace:

```
kubectl delete ns -n nlp-onco
```

## 8.2 Uninstalling the OncoCare application

1. Login to the *setupVM* with *root* credentials.

2. Uninstall OncoCare.

- 2.1. Execute the following command to list profile installations:

```
kubectl get pi -n ehl-control-plane
```

- 2.2. Confirm that the *onchron-profile-<version number>* profile installer is included in the list. Execute the following command to delete the Onchron profile installer:

```
kubectl delete pi onchron-profile-<version number> -n ehl-control-plane
```

- 2.3. Execute the following command to list profile registrations:

```
kubectl get pr -n ehl-control-plane
```

- 2.4. Confirm that the *onchron-profile-<version number>* profile registration is included in the list. Execute the following command to delete the Onchron profile registration:

```
kubectl delete pr onchron-profile-<version number> -n ehl-control-plane
```

- 2.5. Execute the following command to list application bundle installations:

```
kubectl get abi -n ehl-control-plane
```

- 2.6. Confirm that the *onchron* and *edison-onchron-postgres-service* packages are included in the list. Execute the following command to delete the Onchron bundle installations:

```
kubectl delete abi onchron -n ehl-control-plane
```

```
kubectl delete abi edison-onchron-postgres-service -n ehl-control-plane
```

- 2.7. Execute the following command to list application bundle registrations:

```
kubectl get abr -n ehl-control-plane
```

- 2.8. Confirm that the *onchron-<version number>* and *edison-onchron-postgres-service-<version number>* packages are included in the list. Execute the following command to delete the Onchron bundle registrations:

```
kubectl delete abr onchron-<version number> -n ehl-control-plane
```

```
kubectl delete abr edison-onchron-postgres-service-<version number> -n ehl-control-plane
```

- i. Execute the following command to list HELM™ releases:

```
helm list -n ehl-control-plane
```

- 2.10. Confirm that the *onchron-ehs-pkg-registration-<version number>* package is included in the list.
- 2.11. Execute the following command to uninstall the Onchron EHS package registration from the *ehl-control-plane*.

```
helm uninstall onchron-ehs-pkg-registration-<version number> -n ehl-control-plane
```

- 2.12. Confirm that the *onco* namespace has no HELM™ releases:

```
helm list -n onco
```

3. Login to the *rsvpVM*.
4. Remove the OncoCare artifacts:
  - 4.1. Execute the following command to access the *History Area* directory:

```
cd /opt/ees/HistoryArea/
```

- 4.2. Execute the following command to list the contents of the directory:

```
ls
```

- 4.3. Confirm that the *onchron-<version number>* package is included in the list.
- 4.4. Execute the following command:

```
sudo rm -rf onchron*
```

- 4.5. Execute the following command to access the *Staging Area* directory:

```
cd /opt/ees/StagingArea/
```

- 4.6. Execute the following command to list the contents of the directory:

```
ls
```

- 4.7. Confirm that the *onchron-<version number>* package is included in the list.
- 4.8. Execute the following command:

```
sudo rm -rf onchron*
```

# 9 Troubleshooting

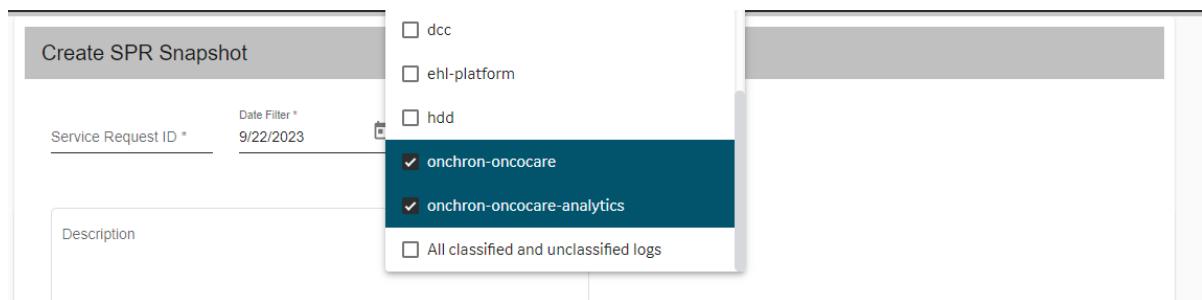
## 9.1 Troubleshooting OncoCare

### 9.1.1 Download OncoCare logs

1. Login to the *Admin Console* with **GE Administrator** credentials.
2. Open the **Server > SPR** snap tool. OncoCare logs are available under *onchron-oncocare*.

**NOTE**

Make sure to enable the analytic log collection on the system to make the analytic logs show on the list.



3. Select *onchron-oncocare* items, fill in the **Service Request ID**, the relevant **date** and add a short **description**.
4. Click the **Create** button.

Create SPR Snapshot

Service Request ID \* testID2 Date Filter \* 9/22/2023 Application Filter \* onchron-oncocare

Description  
Oncocare snapshot

Create

Once the snapshot is created, it can be downloaded using the **cloud icon** from the snapshot list.

## 9.1.2 Grafana® dashboard

The OncoCare installation automatically creates a dashboard in Grafana®. Follow these steps to access the metrics:

1. Login to the **Admin Console** with **GE Administrator** credentials.
2. Open **Monitoring > Grafana**.

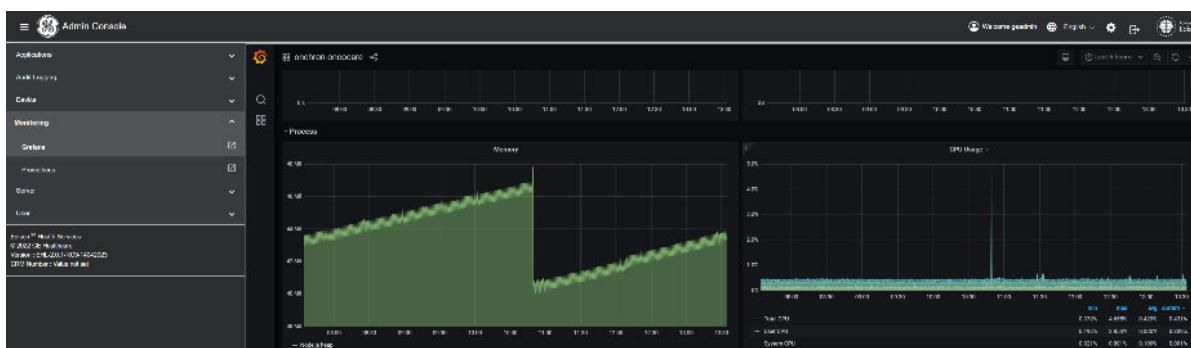
This screenshot shows the Admin Console interface. The left sidebar has a 'Monitoring' section where 'Grafana' is selected. The main area displays the 'Welcome to Grafana' dashboard. It includes a 'Basic' panel with a 'TUTORIAL' section about data sources and dashboards, and a 'COMPLETE' panel prompting to add a first data source. There are also links for documentation, tutorials, community, and public slack.

3. Select the **Manage** menu.

The dashboard opens.

4. Search for *oncron-oncocare*.

This screenshot shows the 'Dashboards' page in the Admin Console. The left sidebar shows 'Monitoring' selected under 'Grafana'. The main area lists dashboards, with one named 'oncron-oncocare' visible in the search results. There are buttons for 'Manage', 'Playlists', and 'Snapshots'.



The dashboard opens.

## 9.2 Troubleshooting CLP

1. Pods are not in running state after installation:
  - 1.1. Copy the output of `kubectl describe pod <pod-name> -n <namespace-name>` to a file.
  - 1.2. Copy the output of `kubectl describe logs <pod-name> -n <namespace-name>` to a file.
  - 1.3. Try deleting the pod with the command `kubectl delete <pod-name> -n <namespace-name>` and wait for a few minutes. This will restart the pod.

### NOTE

This will only work if it is an intermittent issue.

- 1.4. If Step 1.3 does not work, uninstall the CLP components and try installing it again.

See the following chapters for uninstall and install:

[8.1 Uninstall CLP on page 40](#)

[5.1 Installation steps for CLP on page 18](#)

2. Profile installation and/or registration fails:

[root@setupvm ~]# kubectl get profileinstallation -A						
NAMESPACE	NAME	STATE	RETRIES	MESSAGE	AGE	
ehl-control-plane	edison-orchestrator-1.0.0	Failed	0	AppBundleInstallationFailed	22h	

- 2.1. Copy the output of the following commands to a file:

```
kubectl describe profileinstallation <profile installation name> -n ehl-control-plane
```

```
kubectl describe profileregistration <profile registration name> -n ehl-control-plane
```

- 2.2. Remove profile installation and registration from the cluster by executing the following commands and recreate the profile registration and profile installation:

```
kubectl delete pi <profile installation name> -n ehl-control-plane
```

```
kubectl delete pr <profile registration name> -n ehl-control-plane
```

3. E-delivery package is not showing up in IRIS:

- 3.1. Packages get updated in IRIS only once in 6 hours. Please check for e-delivery packages accordingly.

4. IRIS installation fails:

- 4.1. Locate the package in IRIS' **Updates history** and click on **Details**.

```
[root@setupvm ~]# kubectl get profileinstallation -A
NAMESPACE      NAME          STATE    RETRIES   MESSAGE           AGE
ehl-control-plane  edison-orchestrator-1.0.0  Failed  0        AppBundleInstallationFailed  22h
```

- 4.2. On the *Details* tab, look for **Error Code** and **Error Reason** and/or other error fields and copy them to a file to keep information for troubleshooting.
- 4.3. If error is not listed and the IRIS installation fails:
- Login to the *setup VM* console using the IP and credentials provided to you.
  - Execute the following commands to go into the RSVP console:

```
su centos
ssh ehl-rsvp-0
sudo su -
curl ehl-rsvp-0:3000/iris/updates -k -v
```

- Please contact the support team with the output of the *curl* command.



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