Realize your vision

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이 매뉴얼을 사용하기 전에 다음 사항을 읽어주십시오.

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<tr>
<td>대표 전화</td>
<td>+82 2 1661 3388</td>
</tr>
<tr>
<td>전자 메일</td>
<td><a href="mailto:global.cs@samsung.com">global.cs@samsung.com</a></td>
</tr>
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<td>홈페이지</td>
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이 문서에서 다루는 내용은 삼성에스디에스 주식회사가 제공하는 신뢰할 수 있는 정보입니다. 그러나 부정확한 내용이나 오해로 인해 발생하는 문제는 삼성에스디에스 주식회사에서 책임지지 않습니다.

이 문서의 내용과 제품의 사양은 사전 예고 없이 변경될 수 있습니다. 개정에 관한 상세한 정보는 삼성에스디에스 주식회사의 인터넷 홈페이지(www.samsungsds.com)에서 확인할 수 있습니다.

이 문서에 대한 저작권을 포함한 지식재산권은 삼성에스디에스 주식회사에 있습니다. 삼성에스디에스 주식회사의 사전 허가 없이 설명서 내용의 일부 또는 전부를 무단 사용하거나 복제하는 것은 금지되어 있으며, 이는 삼성에스디에스 주식회사의 지식재산권 침해에 해당됩니다.

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사용 대상

이 매뉴얼은 서버 관리자 및 솔루션 운영자를 대상으로 Samsung SDS IPA(이하 IPA) 솔루션의 관리 방법을 설명합니다.

서버 관리자 및 솔루션 운영자가 IPA 서버 및 솔루션을 효과적으로 관리하기 위해서는 다음과 같은 지식과 경험이 필요합니다.
매뉴얼 구성

이 매뉴얼은 다음과 같은 내용으로 구성되어 있습니다.

1장. 개요
   IPA 솔루션 및 Admin Portal에 대해 소개합니다.

2장. 시작하기
   Admin Portal을 사용하기 전에 필요한 절차를 설명합니다.

3장. 프로세스 관리하기
   Admin Portal에서 프로세스를 관리하는 방법을 설명합니다.

4장. 모니터링하기
   Admin Portal에서 IPA 솔루션의 운용 현황을 모니터링하는 방법에 대해 설명합니다.

5장. 리포트 관리하기
   Admin Portal에서 IPA 솔루션의 리포트를 추가하고 확인하는 방법에 대해 설명합니다.

6장. 시스템 관리하기
   Admin Portal에서 IPA 솔루션을 운용하기 위해 필요한 자산을 관리하는 방법에 대해 설명합니다.

7장. 오픈소스
   오픈소스가 정리되어 있습니다.

용어 사전
   매뉴얼에 사용된 용어에 대해 설명합니다.

표기 규약

문서 내용의 이해를 돕기 위해 다음과 같은 표기 규약을 사용합니다.

볼드체 활자
   볼드체 활자는 그래픽 유저 인터페이스 요소와 메뉴와 디렉토리를 표기할 때 사용합니다. 다만 그래픽 유저 인터페이스 중에서 헤더, 팔레, 맴버, 캐스, 페이지는 볼드체 활자가 아닌 큰따옴표로 표기합니다.
이탤릭체

이탤릭체는 사용자가 입력해야 하는 변수나 파라미터값을 표기할 때 사용합니다.

고정폭 활자

고정폭 활자는 프로그래밍과 관련된 용어나 코드를 표기할 때 사용합니다. 본문에서 언급할 때는 구분을 위해 명령어, 파라미터명, 레지스트리명, 스크립트명, 프로세스명 등은 고정폭 활자 볼드체로 표기하고, 변수와 파라미터값은 고정폭 활자 이탤릭체로 표기합니다.

부연 설명 및 지침

제품을 사용할 때 알아 두면 좋은 팁이나 예외 사항, 제한 사항 등 추가적인 정보를 제공할 때 Note를 사용합니다.

프로젝트를 생성하면 자동으로 빈 프로세스가 생성됩니다.

시스템, 데이터, 단말기 등의 손상 가능성을 알릴 때 Attention을 사용합니다.

속성 화면의 입력값은 실행 시 JavaScript로 변환되므로 JavaScript의 문법에 맞게 입력해야 합니다.

개정 이력

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<th>매뉴얼 버전</th>
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<tbody>
<tr>
<td>0.997</td>
<td>1.0</td>
<td>2018.10.31</td>
<td>최초 제정</td>
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1.
개요

관리자는 Admin Portal(관리자 포털 사이트)에서 IPA 솔루션을 관리합니다. Admin Portal의 주요 기능 및 관리자의 유형별 사용 권한 등을 살펴봄으로써 IPA 솔루션에서 관리자가 수행하는 작업을 전체적으로 이해할 수 있습니다.

"개요"에서 다루는 내용은 다음과 같습니다.

• IPA 솔루션 소개
• IPA 솔루션 구성
• Admin Portal 소개
• Admin Portal의 주요 기능
• 관리자의 유형과 권한

1.1 IPA 솔루션 소개

IPA(Intelligent Process Automation) 솔루션은 사람이 수행하던 표준화된 업무를 봇이 대신 처리하도록 자동화하는 솔루션입니다. 봇에게 사용자의 동작을 학습시키면 봇은 학습된 동작을 그대로 모방하여 수행합니다. 봇이 단순 반복적인 작업을 자동으로 처리하는 동안 사용자는 보다 창의적인 업무에 집중하여 비용을 절감하는 동시에 업무 생산성, 정확성, 효율성을 향상시킬 수 있습니다. IPA 솔루션은 Windows 앱, 인터넷 익스플로러, 엑셀, SAP 등의 환경을 지원합니다. 규칙 기반의 단순 반복 작업, 시스템 간 정형화된 데이터 입력, 원본 데이터와 처리 데이터의 비교 등 다양한 업무에 활용할 수 있습니다.
1.2 IPA 솔루션 구성

IPA 솔루션은 자동화 프로세스를 디자인하는 IPA Designer, 프로세스를 수행하는 IPA Bot, IPA 솔루션 전반을 관리하는 Admin Portal 세 가지 항목으로 구성되어 있습니다.

1.3 Admin Portal 소개

Admin Portal은 IPA 솔루션의 운영을 관리할 수 있는 프로그램입니다. 관리자는 Admin Portal에서 사용자, 프로세스, 라이선스 등을 관리할 수 있습니다. 또한 모니터링, 리포트 작성과 같이 IPA 솔루션의 원활한 운영에 필요한 작업들을 효과적으로 수행할 수 있습니다.
1.4 Admin Portal의 주요 기능

업무 담당자는 IPA Designer에서 서버에 배포한 프로세스를 활성화할 수 있습니다. 관리자는 라이선스, 사용자 등을 등록하고 관리할 수 있습니다. 또한 프로세스 및 봇의 수행 현황을 모니터링하고 원하는 내용을 추출해 리포트를 작성할 수 있습니다.

Admin Portal의 주요 기능은 다음과 같습니다.

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<td>모니터링(Monitoring)</td>
</tr>
<tr>
<td>3</td>
<td>리포트 관리(Report Management)</td>
</tr>
<tr>
<td>4</td>
<td>시스템 관리(System Management)</td>
</tr>
</tbody>
</table>

프로세스 관리

프로젝트 및 프로세스 플로우를 활성화하고 관리할 수 있습니다.

- **프로젝트**: IPA Designer를 통해 배포된 프로젝트를 활성화하거나 삭제할 수 있습니다.
- **프로세스 플로우**: 프로세스의 일정, 이벤트를 정의하는 프로세스 플로우를 관리할 수 있습니다.
모니터링

프로세스의 수행 현황과 봇의 상태를 확인할 수 있습니다.

- 현황 모니터링: 프로세스를 수행하는 봇의 상태를 조회하고 관리할 수 있습니다.
- Job 모니터링: 프로세스의 수행 이력을 확인할 수 있습니다.

리포트 관리

원하는 리포트를 만들고 공유할 수 있습니다.

시스템 관리

사용자 계정 및 자원을 관리하고 인증서를 조회할 수 있습니다.

- 사용자: 신규 사용자 및 라이선스를 등록할 수 있고, 등록된 사용자의 정보 및 권한을 수정할 수 있습니다.
- 그룹 관리: 그룹을 관리하고 그룹별 권한을 설정할 수 있습니다.
- 설정: 라이선스, 메시지, 공용 리소스 등 IPA가 사용하는 공용 데이터를 관리하고 리포트를 생성할 수 있습니다.
- 이력관리: 인증서 및 토큰을 조회하고 발급 이력을 확인할 수 있습니다.

1.5 관리자의 유형과 권한

관리자는 Admin Portal에 접속할 수 있는 모든 사용자를 말합니다. 수행하는 역할에 따라 업무담당자, 운영자, 시스템 관리자 유형으로 구분됩니다.

- 업무담당자: 자동화 업무의 담당자로서, IPA Designer로 디자인된 프로세스를 승인하고 활성화합니다.
- 운영자: IPA 솔루션의 전반적인 운영을 관리하며 봇 및 프로세스의 수행 상태를 모니터링하고 오류를 확인합니다.
- 시스템 관리자: 최상위 권한을 가진 관리자로서 운영자가 사용하는 기능 외에도 라이선스 관리, 메타데이터 정보 변경 등을 할 수 있습니다.
2. 시작하기

Admin Portal을 이용하기 전에 관리자가 미리 알아두어야 할 기본적인 절차를 설명합니다.

“시작하기”에서 다루는 내용은 다음과 같습니다.

- 브라우저 요구사항
- 로그인하기
- 내 정보 수정하기
- 로그아웃하기

2.1 브라우저 요구사항

Admin Portal은 Chrome 브라우저에 최적화되어 있습니다.

2.2 로그인하기

로그인 페이지에서 계정 아이디와 비밀번호를 입력하여 Admin Portal에 로그인할 수 있습니다. 계정 아이디와 비밀번호는 시스템 관리자에게요청하여 발급받아야 합니다.

대표 시스템 관리자 계정은 IPA 솔루션 설치 시 제공됩니다.

Admin Portal에 로그인하려면 다음의 절차를 따르세요.

1. 웹 브라우저에서 Admin Portal의 로그인 페이지로 이동하세요. 정확한 주소는 시스템 관리자에게 문의하세요.
2. 계정 아이디와 비밀번호를 입력하세요.
다음 번 로그인 시 계정 아이디가 자동으로 입력되게 하려면, *Save ID* 확인란을 선택해 체크하세요.

3. **Login**을 클릭하세요.

로그인이 정상적으로 이루어지면 메인 페이지가 나타납니다.

### 2.3 내 정보 수정하기

이름, 직책, 전화번호, 비밀번호 등의 개인 정보를 수정할 수 있습니다.

내 정보를 수정하려면 다음의 절차를 따르세요.

1. 페이지 왼쪽 하단에서 **클릭**하세요.
2. **개인정보 수정**을 클릭하세요.
   - 내 정보를 수정할 수 있는 창이 나타납니다.
3. 이름, 직책, 전화번호 등 원하는 정보를 수정하세요.
   - 비밀번호를 변경하려면 **패스워드 변경**을 클릭한 후 수정하세요.
4. 확인을 클릭하세요.
5. 저장 확인 팝업창에서 확인을 클릭하세요.
6. 저장 완료 팝업창에서 확인을 클릭하세요.

내 정보 수정이 완료됩니다.
필수 입력 항목(*)가 표시된 항목을 입력하지 않으면 팝업창이 나타나고 입력한 정보가 저장되지 않습니다.

2.4 로그아웃하기

페이지 왼쪽 하단에서 Logout을 클릭하세요.
3. 프로세스 관리하기

업무 담당자는 IPA Designer로 디자인한 프로젝트 및 프로세스 플로우를 활성화하여 배포할 수 있습니다. 활성화된 프로세스는 IPA Bot을 지정해 새 Job으로 실행할 수 있습니다. “프로세스 관리하기”에서 다루는 내용은 다음과 같습니다.

- 프로세스 테스트하기
- 프로세스 활성화하기
- 프로세스 사용권한 설정하기
- Job 실행하기
- 예약 Job 실행하기

3.1 프로세스 테스트하기

IPA Designer에서 만들어진 프로세스를 활성화하기 전에 프로세스에 문제가 없는지 테스트할 수 있습니다. IPA Bot Job을 이용해 결과를 확인하세요. 활성화 전 프로세스를 테스트하려면 다음의 절차를 따르세요.

1. Process를 클릭하세요.
2. 활성화되지 않은 프로젝트를 선택하세요.
3. 활성화되지 않은 프로세스를 선택한 후 실행을 클릭하세요.
4. 선택한 프로세스에 파라미터가 필요한 경우 파라미터를 입력하세요.
5. 실행을 클릭하세요.
6. 실행 요청 팝업창에서 확인을 클릭하세요.

프로세스의 테스트 결과는 프로세스의 수행 이력 메뉴를 통해 확인할 수 있습니다. Monitoring Job 모니터링을 클릭하세요.
화면 하단의 상세 결과 영역에서 Job의 실패와 성공 여부를 확인할 수 있습니다. 자세한 내용은 4.3 Job 모니터링하기를 참고하세요.
3.2 프로세스 활성화하기

프로세스를 운영 환경에서 실행하려면 먼저 활성화해야 합니다. 프로세스를 활성화하려면 다음의 절차를 따르세요.

1. Process를 클릭하세요.

2. 활성화할 프로세스를 클릭하세요.
3. 활성화를 클릭하세요.
4. 실행될 환경을 선택한 후 다음을 클릭하세요.
5. 입력 파라미터가 있는 경우 파라미터를 입력하세요.
6. 확인을 클릭하세요.
7. 활성화 확인 팝업창에서 확인을 클릭하세요.
8. 활성화 완료 팝업창에서 확인을 클릭하세요.

선택한 프로세스의 활성화가 완료됩니다.

3.3 프로세스 사용 권한 설정하기

프로세스를 특정 그룹에서만 사용할 수 있도록 사용 권한을 설정할 수 있습니다. 프로세스의 사용 권한을 설정하려면 다음의 절차를 따르세요.
프로세스 관리하기 > Job 실행하기

1. Process를 클릭하세요.
2. 사용 권한을 설정할 프로세스를 클릭하세요.
3. 사용 권한을 클릭하세요.
4. 사용할 그룹을 선택하세요.

연계된 창에서 프로세스를 사용하려면 BRITY_ECO 그룹을 선택하세요.

5. 확인을 클릭하세요.
6. 설정 확인 창에서 확인을 클릭하세요.

선택한 그룹만 해당 프로세스를 사용하도록 변경됩니다.

3.4 Job 실행하기

활성화된 프로세스와 IPA Bot을 지정해 새 Job을 실행할 수 있습니다.
Job을 실행하려면 다음의 절차를 따르세요.

1. Monitoring을 클릭하세요.
2. Job 모니터링 > 새로운 Job을 클릭하세요.
3. 실행할 프로세스를 선택한 후 다음을 클릭하세요.
   특정 IPA Bot이나 그룹을 선택할 수 있습니다. 전체를 선택하면 가장 유휴시간이 긴 IPA Bot이 자동으로 선택됩니다.
5. 선택한 프로세스에 파라미터가 필요한 경우 파라미터를 입력하세요.

파라미터의 데이터 타입이 정의된 경우 사용자 입력화면이 아래와 같이 변경됩니다.
6. 실행을 클릭하세요.
7. 실행 요청 팝업창에서 확인을 클릭하세요.

Job 실행 요청이 성공하면 예상시작시간과 예상 수행시간이 표시됩니다.

3.5 예약 Job 실행하기

Job의 실행을 스케줄링할 수 있습니다.
 실행 스케줄링을 하려면 다음의 절차를 따르세요.

1. Monitoring을 클릭하세요.
2. 모니터링 > 예약 작업 관리를 클릭하세요.
3. 우측 상단의 예약작업등록을 클릭하세요.
4. 예약작업 스케줄을 입력하세요
   - Job의 시작/종료 시간이나 반복주기 등을 선택할 수 있습니다.
5. 스케줄을 입력한 후 다음을 클릭하세요
프로세스 관리하기 > 예약 Job 실행하기

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>예약 작업 이름을 입력합니다.</td>
</tr>
<tr>
<td>2</td>
<td>예약 Job을 시작 날짜를 입력합니다.</td>
</tr>
<tr>
<td>3</td>
<td>Job의 반복 주기를 선택합니다.(일/주/월)</td>
</tr>
<tr>
<td>4</td>
<td>반복조건을 입력합니다.</td>
</tr>
<tr>
<td>5</td>
<td>반복기간을 입력합니다.</td>
</tr>
<tr>
<td>6</td>
<td>예약 작업의 상세 내용을 입력합니다.</td>
</tr>
</tbody>
</table>

관리자는 IPA 솔루션의 운용 현황을 모니터링할 수 있습니다. 모니터링을 통해 프로세스 및 봇의 실행 현황과 오류를 파악하고, 자동화 업무를 보다 효율적으로 개선할 수 있습니다.

"모니터링하기"에서 다루는 내용은 다음과 같습니다.

- IPA 모니터링하기
- IPA Bot 모니터링하기
- Job 모니터링하기
- 예약작업 모니터링하기

4.1 IPA 모니터링하기

Admin Portal 메인 화면에서 IPA Bot의 가동률, Job 수행 현황 등 IPA 솔루션의 서비스 운용 현황을 모니터링할 수 있습니다.

페이지 왼쪽 상단의 클릭해 메인 페이지로 진입하세요.
모니터링하기 > IPA Bot 모니터링하기

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>등록된 IPA Bot 중 현재 동작 중인 봇의 비율이 나타납니다.</td>
</tr>
<tr>
<td>2</td>
<td>요청 건 대비 처리 건의 비율이 주간 단위로 나타납니다. 처리율이 낮은 경우 IPA Bot의 확장을 고려해야 합니다.</td>
</tr>
<tr>
<td>3</td>
<td>수행된 Job 목록과 성공 여부를 요일 별로 확인할 수 있습니다. 상세 Job 수행 현황을 모니터링해 사전에 프로세스 점검 일정을 수립할 수 있습니다.</td>
</tr>
<tr>
<td>4</td>
<td>프로젝트 활성화, 업로드, Job 성공 및 실패 등 IPA 솔루션의 현황을 알림으로 받고 이력을 확인할 수 있습니다.</td>
</tr>
<tr>
<td>5</td>
<td>한 주간 가장 많이 수행된 프로세스의 순위를 조회해 업무 자동화 효과를 확인할 수 있습니다.</td>
</tr>
<tr>
<td>6</td>
<td>시간별 Job 수행 현황을 모니터링해 Job 수행 일정 계획을 수립할 수 있습니다.</td>
</tr>
</tbody>
</table>

4.2 IPA Bot 모니터링하기

현재 실행 중인 IPA Bot의 상태를 모니터링하고 IPA Bot에서 실행 중인 Job을 중지할 수 있습니다. Monitoring > 현황 모니터링을 클릭하세요.

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>봇 모니터링 상세 화면으로 이동합니다.</td>
</tr>
<tr>
<td>2</td>
<td>등록된 IPA 봇 목록을 확인합니다.</td>
</tr>
</tbody>
</table>
프로세스 수행 결과 이력을 확인합니다.
실패한 Job이 빨간색으로 표시됩니다.
실패한 Job을 재시도하거나 조치를 실행할 수 있습니다.
실행 대기 중인 Job 목록을 확인합니다.

IPA Bot 실시간 모니터링하기

현재 가동중인 봇의 화면을 실시간으로 모니터링할 수 있습니다.
Monitoring > 현황 모니터링 > 가동중 > 모니터링을 클릭한 후 모니터링할 봇을 클릭하세요.

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>가동 중인 PC 화면이 나타납니다.</td>
</tr>
<tr>
<td>2</td>
<td>봇의 현재 로그메시지가 나타납니다.</td>
</tr>
<tr>
<td>3</td>
<td>봇의 로그를 유형별로 확인할 수 있습니다.</td>
</tr>
<tr>
<td>4</td>
<td>봇에게 터미널 명령어를 전송할 수 있습니다.(예: shutdown, dir, type)</td>
</tr>
<tr>
<td>5</td>
<td>봇과 연결하려면 연결을 해제합니다.</td>
</tr>
<tr>
<td>6</td>
<td>터미널 명령어를 강제 종료하거나 터미널 명령어 결과 창을 초기화합니다.</td>
</tr>
</tbody>
</table>
4.3 Job 모니터링하기

현재 실행 중인 Job과 Job의 실행 이력을 모니터링할 수 있습니다. Monitoring > Job 모니터링을 클릭하세요.

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>조회 조건을 입력합니다.</td>
</tr>
<tr>
<td>2</td>
<td>조회 기간을 설정합니다.</td>
</tr>
<tr>
<td>3</td>
<td>실행 중인 Job의 합이 나타납니다.</td>
</tr>
<tr>
<td>4</td>
<td>조회된 Job의 실행 결과 현황이 나타납니다.</td>
</tr>
<tr>
<td>5</td>
<td>Job의 실행 결과별 추이가 나타납니다.</td>
</tr>
<tr>
<td>6</td>
<td>조회된 Job을 상태별로 확인할 수 있습니다.</td>
</tr>
<tr>
<td>7</td>
<td>결과를 엑셀 파일로 다운로드합니다.</td>
</tr>
<tr>
<td>8</td>
<td>새로운 Job을 실행합니다.</td>
</tr>
<tr>
<td>9</td>
<td>상세 결과를 확인합니다.</td>
</tr>
</tbody>
</table>

4.4 예약작업 모니터링하기
현재 예약된 작업을 확인하고 모니터링 할수있습니다.
Monitoring > 예약작업관리 을 클릭하면 예약 현황을 확인할수 있습니다.

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>예약작업을 조회조건(이름,프로세스,로봇,봇 그룹,사용자,키워드)을 입력하고 조회합니다.</td>
</tr>
<tr>
<td>2</td>
<td>봇그룹/봇 조회조건을 선택할수 있습니다.</td>
</tr>
<tr>
<td>3</td>
<td>예약 현황 조회기간을 선택합니다.</td>
</tr>
<tr>
<td>4</td>
<td>예약작업의 상세 내용과 Job 실행전 내용을 수정할 수 있습니다.</td>
</tr>
<tr>
<td>5</td>
<td>날짜별 예약현황을 확인할수 있습니다.</td>
</tr>
</tbody>
</table>

카렌다에 표시되는 예약작업의 날짜 수정은 Drag&Drop을 지원합니다. 예약작업의 일정을 변경하고 싶은경우 해당 작업을 Drag하여 원하는 날짜로 이동할수 있습니다.
모니터링하기 > Job 모니터링하기

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1번</td>
<td>예약작업을 조회조건(이름, 프로세스, 로봇, 그룹, 사용자, 키워드)을 입력하고 조회합니다.</td>
</tr>
<tr>
<td>2번</td>
<td>예약된 스케쥴을 목록형태로 보여줍니다.</td>
</tr>
<tr>
<td>3번</td>
<td>스케쥴을 삭제하거나, 스케쥴 생성시 입력된 정보(프로세스, 로봇, 파라미터)를 재사용하여 Job을 즉시 실행시킬 수 있습니다.</td>
</tr>
</tbody>
</table>
5. 리포트 관리하기

원하는 데이터를 차트로 구성해 한눈에 확인할 수 있습니다. 차트는 기간별로 조회하거나 엑셀 파일로 내려받을 수 있습니다.

"리포트 관리하기"에서 다루는 내용은 다음과 같습니다.

- 리포트 추가하기
- 리포트 확인하기

5.1 리포트 추가하기

새 리포트를 추가하려면 다음의 절차를 따르세요.

1. System > 차트 화면 관리를 클릭하세요.
2. 추가를 클릭하세요.
3. 차트 추가 팝업창에서 추가할 차트의 정보를 입력하세요.
4. 저장을 클릭하세요.
5. 추가 확인 팝업창에서 확인을 클릭하세요.

새 리포트가 추가됩니다.
5.2 리포트 확인하기

추가한 리포트를 확인하려면 다음의 절차를 따르세요.

1. **Report**를 클릭하세요.
2. 원하는 리포트의 제목을 클릭하세요.

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>조회 기간을 설정합니다.</td>
</tr>
<tr>
<td>2</td>
<td>차트를 확인합니다.</td>
</tr>
<tr>
<td>3</td>
<td>리포트를 엑셀 파일로 다운로드합니다.</td>
</tr>
<tr>
<td>4</td>
<td>상세 데이터를 확인합니다.</td>
</tr>
</tbody>
</table>
시스템 관리하기

관리자는 IPA 솔루션을 운용하기 위해 필요한 사용자, 라이선스, 공용 리소스, 메시지, 이력을 관리할 수 있습니다.

"시스템 관리하기"에서 다루는 내용은 다음과 같습니다.

- 사용자 관리하기
- 그룹 권한 관리하기
- 라이선스 관리하기
- 공용 리소스 관리하기
- 메시지 관리하기
- 이력 관리하기

6.1 사용자 관리하기

Admin Portal의 사용자를 관리할 수 있습니다.
System > 사용자를 클릭하세요.

사용자 관리 화면

Admin Portal의 사용자 목록을 확인할 수 있습니다. 원하는 사용자를 클릭해 상세 정보를 확인하고 수정할 수도 있습니다.
사용자 등록하기

IPA 솔루션을 이용하려면 반드시 사용자를 등록해야 합니다.
사용자를 등록하려면 다음의 절차를 따르세요.

1. System > 사용자 > 추가를 클릭하세요.
2. 팝업창에서 개인 정보를 입력하세요.
3. 저장을 클릭하세요.
4. 저장 확인 팝업창에서 확인을 클릭하세요.
5. 저장 완료 팝업창에서 확인을 클릭하세요.

사용자 등록이 완료됩니다.
시스템 관리하기 > 사용자 관리하기

사용자 검색하기

사용자를 검색하려면 다음의 절차를 따르세요.

1. **System** > **사용자**를 선택하세요.
2. 검색 조건을 설정하세요.

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>사용자의 아이디를 입력합니다.</td>
</tr>
<tr>
<td>2</td>
<td>사용자의 직책을 입력합니다.</td>
</tr>
<tr>
<td>3</td>
<td>사용자의 이름을 입력합니다.</td>
</tr>
<tr>
<td>4</td>
<td>사용자의 그룹을 선택합니다.</td>
</tr>
</tbody>
</table>

3. **조회**를 클릭하세요.

설정한 검색 조건에 맞는 결과가 표시됩니다. 검색 조건 설정을 초기화하려면 **초기화**를 클릭하세요.
상세 정보를 확인하려면 목록에서 원하는 공용 리소스의 이름을 클릭하세요.

사용자 삭제하기

사용자를 삭제하려면 다음의 절차를 따르세요.

1. **System** > **사용자**를 클릭하세요.
2. 삭제하려는 사용자를 선택하세요.
3. 기본으로 등록되어 있는 **BRITY_ECO_SERVER**는 챗봇과 연계 시 필요한 계정이므로 삭제하지 마세요.
4. 삭제 확인 팝업창에서 확인을 클릭하세요.
5. 삭제 완료 팝업창에서 확인을 클릭하세요.
사용자 삭제가 완료됩니다.

6.2 그룹권한 관리하기

Admin Portal의 사용자 그룹과 IPA Designer, IPA Bot의 라이선스 그룹을 관리할 수 있습니다. System > 그룹 권한 관리를 클릭하세요.

• 사용자는 1개 이상의 그룹에 포함될 수 있습니다. 소속된 그룹에 따라 사용할 수 있는 API, 공용 리소스가 달라집니다.
  • 그룹의 속성이 관리자 그룹일 경우 프로젝트 사용 권한과 관계 없이 모든 프로젝트 및 공용 리소스를 사용할 수 있습니다.

그룹 관리 화면

Admin Portal의 그룹 목록을 확인할 수 있습니다. 그룹별로 사용할 수 있는 메뉴를 설정할 수도 있습니다.

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>검색 조건을 설정합니다.</td>
</tr>
<tr>
<td>2</td>
<td>검색 조건 설정을 초기화합니다.</td>
</tr>
<tr>
<td>3</td>
<td>검색 조건에 해당하는 그룹을 조회합니다.</td>
</tr>
<tr>
<td>4</td>
<td>선택한 그룹을 삭제합니다.</td>
</tr>
<tr>
<td>5</td>
<td>그룹을 추가합니다.</td>
</tr>
<tr>
<td>6</td>
<td>그룹 목록입니다.</td>
</tr>
<tr>
<td>7</td>
<td>관리자 그룹 여부를 설정합니다.</td>
</tr>
<tr>
<td>8</td>
<td>그룹에 속한 사용자를 설정합니다.</td>
</tr>
</tbody>
</table>
그룹 추가하기

관리자는 Admin Portal 사용자 그룹과 IPA Designer, IPA Bot의 라이선스 그룹을 생성할 수 있습니다. 그룹을 추가하려면 다음의 절차를 따르세요.

1. System > 그룹 권한 관리 > 추가를 클릭하세요.
2. 그룹 타입 항목에서 Admin Portal 사용자 그룹은 USER_GROUP을, IPA Designer 또는 IPA Bot 라이선스 그룹은 CLIENT_GROUP을 선택하세요.
3. 그룹의 이름과 설명을 입력하세요.
4. 저장을 클릭하세요.
5. 저장 확인 팝업창에서 확인을 클릭하세요.
6. 저장 완료 팝업창에서 확인을 클릭하세요.

그룹 추가가 완료됩니다.

그룹 검색하기

그룹을 검색하려면 다음의 절차를 따르세요.

1. System > 그룹 권한 관리 > 선택하세요.
2. 검색 조건을 설정하세요.
3. 조회를 클릭하세요.
시스템 관리하기 > 그룹권한 관리하기

설정한 검색 조건에 맞는 결과가 표시됩니다. 검색 조건 설정을 초기화하려면 초기화를 클릭하세요.
상세 정보를 확인하려면 목록에서 원하는 그룹의 아이디를 클릭하세요.

그룹 삭제하기

그룹을 삭제하려면 다음의 절차를 따르세요.

1. System > 그룹 권한 관리를 클릭하세요.
2. 삭제할 그룹을 클릭해 체크하세요.

기본으로 등록되어 있는 BRITY_ECO 그룹은 챗봇과 연계 시 필요하므로 삭제하지 마세요.

3. 삭제를 클릭하세요.
4. 삭제 확인 팝업창에서 확인을 클릭하세요.
5. 삭제 완료 팝업창에서 확인을 클릭하세요.

그룹 삭제가 완료됩니다.

관리자그룹 관리하기

관리자 권한을 그룹 별로 설정할 수 있습니다.
관리자 그룹에 속한 사용자는 모든 프로젝트와 공용리소스를 사용할 수 있습니다.
관리자 그룹을 설정하려면 다음의 절차를 따르세요.

1. System > 그룹 권한 관리를 클릭하세요.
2. 원하는 그룹의 관리자 그룹 컬럼값이 'N'인 경우 관리자 그룹 항목을 클릭하세요.
3. 팝업창에서 그룹을 관리자 그룹으로 변경할건지 물어봅니다.
4. 확인을 클릭하세요.
5. 관리자 그룹해제는 그룹 컬럼값이 'Y'인 경우 동일한 순서를 따르면 됩니다.

권한 수정이 완료됩니다.

그룹 사용자 관리하기
관리자는 그룹의 사용자를 관리할 수 있습니다.
그룹에 사용자를 추가하거나 삭제하려면 다음의 절차를 따르세요.

1. System > 그룹 권한 관리를 클릭하세요.
2. 원하는 그룹의 User Link Count 항목을 클릭하세요.
3. 팝업창에서 필요한 사용자를 선택하거나 해제하세요.
4. 저장을 클릭하세요.
5. 저장 확인 팝업창에서 확인을 클릭하세요.
6. 저장 완료 팝업창에서 확인을 클릭하세요.

그룹에 필요한 사용자 추가나 삭제가 완료됩니다.

공용 리소스 관리하기

관리자는 그룹에서 접근할 수 있는 공용 리소스를 추가하거나 삭제할 수 있습니다.
공용 리소스에 접근하도록 설정하면 IPA Designer에서 해당 리소스를 사용할 수 있습니다.
그룹에서 사용할 공용 리소스를 관리하려면 다음의 절차를 따르세요.

1. System > 그룹 권한 관리를 클릭하세요.
2. 원하는 그룹의 Asset Link Count 항목을 클릭하세요.
3. 팝업창에서 필요한 공용 리소스를 선택하거나 해제하세요.
4. 저장을 클릭하세요.
5. 저장 확인 팝업창에서 확인을 클릭하세요.
6. 저장 완료 팝업창에서 확인을 클릭하세요.

그룹에서 사용할 공용 리소스 추가나 삭제가 완료됩니다.

6.3 라이선스 관리하기

IPA Designer, IPA Bot의 라이선스를 관리할 수 있습니다. 라이선스는 IPA Designer 및 IPA Bot 당 하나씩 부여되며, 라이선스를 기준으로 IPA 솔루션의 사용 권한이 주어집니다.
System > 라이선스 관리를 클릭하세요.
라이선스 관리 화면

IPA Designer, IPA Bot의 라이선스 목록을 확인할 수 있습니다. 라이선스 정보를 수정할 수도 있습니다.

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>IPA 라이선스를 적용합니다.</td>
</tr>
<tr>
<td>2.</td>
<td>현재 적용된 라이선스 정보를 나타냅니다.</td>
</tr>
<tr>
<td>3.</td>
<td>라이선스 유형(Bot/Designer)를 선택합니다.</td>
</tr>
<tr>
<td>4.</td>
<td>라이선스 상태 조회 조건을 선택합니다.</td>
</tr>
<tr>
<td>5.</td>
<td>라이선스 조회 조건대로 조회 합니다.</td>
</tr>
<tr>
<td>6.</td>
<td>사용중인 라이선스를 초기화 합니다.</td>
</tr>
<tr>
<td>7.</td>
<td>등록된 라이선스 리스트를 보여줍니다.</td>
</tr>
</tbody>
</table>

라이선스 등록하기

IPA Designer 및 IPA Bot을 사용하려면 라이선스를 등록해야 합니다.
라이선스를 등록하려면 다음의 과정을 따르세요.

1.  System > 라이선스 관리 > 라이선스 목록버튼을 클릭하세요.
시스템 관리하기 > 라이선스 관리하기

라이선스 목록

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IPA 라이선스 파일을 선택합니다.</td>
</tr>
<tr>
<td>2</td>
<td>선택한 라이선스 파일을 업로드 합니다.</td>
</tr>
<tr>
<td>3</td>
<td>업로드된 라이선스 파일을 조회 합니다.</td>
</tr>
<tr>
<td>4</td>
<td>라이선스 파일 리스트를 보입니다.</td>
</tr>
<tr>
<td>5</td>
<td>업로드된 라이선스 파일을 적용합니다.</td>
</tr>
</tbody>
</table>

2. 파일 선택을 클릭하고 라이선스 파일을 선택해주세요.
3. 업로드를 클릭하세요.
4. 저장 확인 팝업창에서 확인을 클릭하세요.
5. 업로드된 라이선스 파일을 적용하기 위해 미적용을 클릭하세요.

라이선스 등록이 완료되었습니다.

라이선스 검색하기

등록된 라이선스를 검색하려면 다음의 절차를 따르세요.

1. System > 라이선스 관리를 클릭하세요.
2. 검색 조건을 입력하세요.
3. **조회**를 클릭하세요.

설정한 검색 조건에 맞는 결과가 표시됩니다. 검색 조건 설정을 초기화하려면 ** 초기화**를 클릭하세요.
상세 정보를 확인하려면 목록에서 원하는 항목의 사용자 이름을 클릭하세요.

## 라이선스 초기화하기

등록된 IPA Designer 및 IPA Bot의 사용을 해제하려면 라이선스를 초기화하세요.
사용할 PC를 변경하거나, 등록된 라이선스를 다른 IPA Designer 및 IPA Bot에서 사용하려는 경우에 초기화할 수 있습니다.
라이선스를 초기화하면 다음의 절차를 따르세요.

1. **System > 라이선스 관리**를 클릭하세요.
2. 초기화할 라이선스를 검색하세요.
3. 조회된 라이선스 목록에서 초기화할 라이선스의 원쪽에 있는 확인란을 선택하세요.
4. **초기화**를 클릭하세요.
5. 초기화 확인 팝업창에서 확인을 클릭하세요.
6. 초기화 완료 팝업창에서 확인을 클릭하세요.

라이선스 초기화가 완료됩니다.

### 6.4 공용 리소스 관리하기
IPA Designer와 IPA Bot에서 공통으로 사용할 수 있는 공용 리소스를 관리할 수 있습니다. 공용 리소스는 그룹 권한에 따라 관리할 수 있으며, 보안 데이터는 암호화됩니다.

System > 공용 리소스 관리를 클릭하세요

### 공용 리소스 관리 화면

공용 리소스 목록을 확인할 수 있습니다

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>검색 조건을 설정합니다.</td>
</tr>
<tr>
<td>2</td>
<td>검색 조건 설정을 초기화합니다.</td>
</tr>
<tr>
<td>3</td>
<td>검색 조건에 해당하는 공용 리소스를 조회합니다.</td>
</tr>
<tr>
<td>4</td>
<td>공용 리소스를 추가합니다.</td>
</tr>
<tr>
<td>5</td>
<td>공용 리소스 목록입니다.</td>
</tr>
</tbody>
</table>

### 공용 리소스 추가하기

관리자는 IPA 솔루션에서 사용할 수 있는 공용 리소스를 추가할 수 있습니다. 공용 리소스를 추가하려면 다음의 절차를 따르세요.

1. System > 공용 리소스 관리 > 추가를 클릭하세요.
2. 팝업창에서 추가하고자 하는 리소스를 추가하세요.
공용 리소스는 파일, 문자열 유형을 지원하며 보안 데이터로 설정할 수 있습니다.

3. 저장을 클릭하세요.
4. 저장 확인 팝업창에서 확인을 클릭하세요.
5. 저장 완료 팝업창에서 확인을 클릭하세요.

공용 리소스 추가가 완료됩니다.

공용 리소스 검색하기

공용 리소스를 검색하려면 다음의 절차를 따르세요.

1. System > 공용 리소스 관리를 선택하세요.
2. 검색 조건을 설정하세요.

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>공용 리소스의 이름을 입력합니다.</td>
</tr>
<tr>
<td>2</td>
<td>공용 리소스의 유형을 선택합니다.</td>
</tr>
</tbody>
</table>

3. 조회를 클릭하세요.

설정한 검색 조건에 맞는 결과가 표시됩니다. 검색 조건 설정을 초기화하려면 초기화를 클릭하세요.
상세 정보를 확인하려면 목록에서 원하는 공용 리소스의 이름을 클릭하세요.

6.5 메시지 관리하기

IPA 솔루션의 메시지를 관리할 수 있습니다.
System > 메시지 관리를 클릭하세요.
메시지 관리 화면

메시지 목록을 확인할 수 있습니다. 원하는 메시지를 클릭해 상세 정보를 확인하고 수정할 수도 있습니다.

메시지 검색하기

메시지를 검색하려면 다음의 절차를 따르세요.

1. **System > 메시지 관리**를 선택하세요.
2. 검색 조건을 설정하세요.

<table>
<thead>
<tr>
<th>번호</th>
<th>설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>검색 조건을 설정합니다.</td>
</tr>
<tr>
<td>2</td>
<td>검색 조건 설정을 초기화합니다.</td>
</tr>
<tr>
<td>3</td>
<td>검색 조건에 해당하는 메시지를 조회합니다.</td>
</tr>
<tr>
<td>4</td>
<td>메시지 목록입니다.</td>
</tr>
</tbody>
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메시지의 유형을 선택합니다.
시스템 관리하기 > 이력 관리하기

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<td>2</td>
<td>메시지의 Key 값을 입력합니다.</td>
</tr>
<tr>
<td>3</td>
<td>메시지를 입력합니다.</td>
</tr>
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3. 조회를 클릭하세요.

설정한 검색 조건에 맞는 결과가 표시됩니다. 검색 조건 설정을 초기화하려면 초기화를 클릭하세요. 상세 정보를 확인하려면 목록에서 원하는 메시지의 Key 값을 클릭하세요.

메시지 수정하기

메시지를 수정하려면 다음의 절차를 따르세요.

1. System > 메시지 관리를 클릭하세요.
2. 수정하려는 메시지를 선택하세요.
3. 수정하려는 값을 입력하세요
4. 저장을 클릭하세요.
5. 저장 확인 팝업창에서 확인을 클릭하세요.

메시지 수정이 완료됩니다.

6.6 이력 관리하기

인증서 및 토큰을 조회하고 발급 이력을 확인할 수 있습니다.
System > 인증서 조회 또는 토큰 발급 조회를 클릭하세요.
7. 오픈소스

오픈소스 소프트웨어

다음은 본 제품의 일부에 포함될 수 있는 제 3자 소프트웨어에 대한 저작자 표시입니다. 질문이 있으면 koohyun.park@samsung.com으로 연락하세요.

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