

Software Asset Manager

Správa software a licencí AVEVA / Wonderware

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Obsah prezentace

- ▶ **Správa projektů SCADA**
- ▶ **Princip činnosti**
- ▶ **Licencování a dostupnost**
- ▶ **Závěr**

Správa projektů SCADA

Pracovní náplň správce SCADA

- ▶ **Udržet svěřené zařízení v chodu**
- ▶ **Provádět úpravy, vylepšení a rozšíření**
 - ▶ Instalovat Patche, Service Packy, nové verze
- ▶ **Mít přehled o všech počítačích v síti SCADA**
 - ▶ Nainstalovaný software, verze, licence

Současný stav

- ▶ Velikost a složitost projektů SCADA v průběhu času roste
- ▶ Počet počítačů průměrného SCADA projektu neustále roste
- ▶ Počet pracovníků neroste nebo klesá
- ▶ Důsledek: jeden pracovník musí zvládnout stále větší objem práce
- ▶ Řešení: potřebujete pomocníka

Současný stav

- ▶ **Správce SCADA musí ručně vést záznamy o všech počítačích**
 - ▶ Časově náročné
 - ▶ Možnost chyby
 - ▶ V případě časového tlaku je tato práce často zanedbávána
- ▶ **Správce SCADA musí ručně instalovat všechny nové verze, Patche a Service Packy**
 - ▶ Časově ještě náročnější
 - ▶ Možnost chyby (opomenutí)
 - ▶ V případě časového tlaku je tato práce často zanedbávána
 - ▶ Výsledkem je síť s různými verzemi nainstalovaného software

Přenechte dřinu strojům!

Základní charakteristika

- ▶ **Software Asset Manager je aplikace pro správu licencí a softwaru SCADA**
 - ▶ Přehled nainstalovaných licencí
 - ▶ Přehled nainstalovaného software SCADA
 - ▶ Samočinné stahování Patchů a Service Packů
- ▶ **Spolupracuje se softwarem společnosti AVEVA / Wonderware**
 - ▶ AVEVA / Wonderware
 - ▶ Citect
 - ▶ Ampla

Hlavní vlastnosti

- ▶ **Prohledá síť a najde počítače se softwarem od AVEVA / Wonderware**
- ▶ **Dovede pracovat i s počítači, které nejsou připojeny do sítě**
 - ▶ Je řešeno přenosem souborů pomocí přenosných disků
- ▶ **Na spravovaných počítačích najde software a licence od AVEVA / Wonderware**
 - ▶ Včetně HotFixů nainstalovaných pomocí HotFix manageru
- ▶ **Vytvoří seznam nalezeného softwaru a licencí**
- ▶ **Vyhledá a stáhne nové verze, Patche a Service Packy**

Odpovědi na otázky typu

▶ Kolik licencí SCADA používáme?

- ▶ Máme v pořádku licence? Nejsou některé licence nevyužity?

▶ Jaké verze máme nasazený?

- ▶ InTouch, DAServer a další nástroje

▶ Jaké Patche a Service Packy jsou nainstalovány?

- ▶ Nainstaloval jsem nejnovější Patch na všechny počítače?

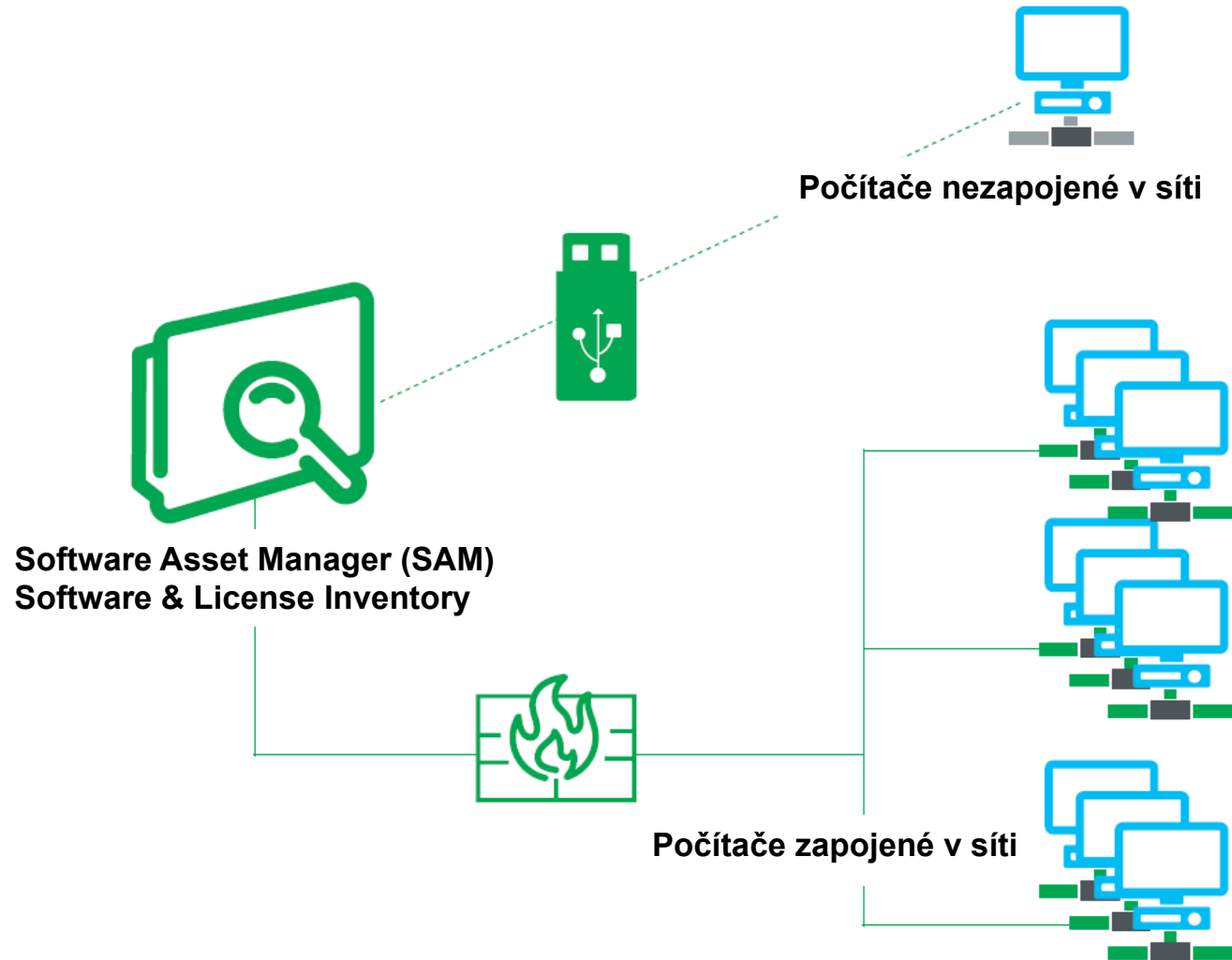
▶ Jaké HotFixy jsou nainstalovány?

Typičtí uživatelé

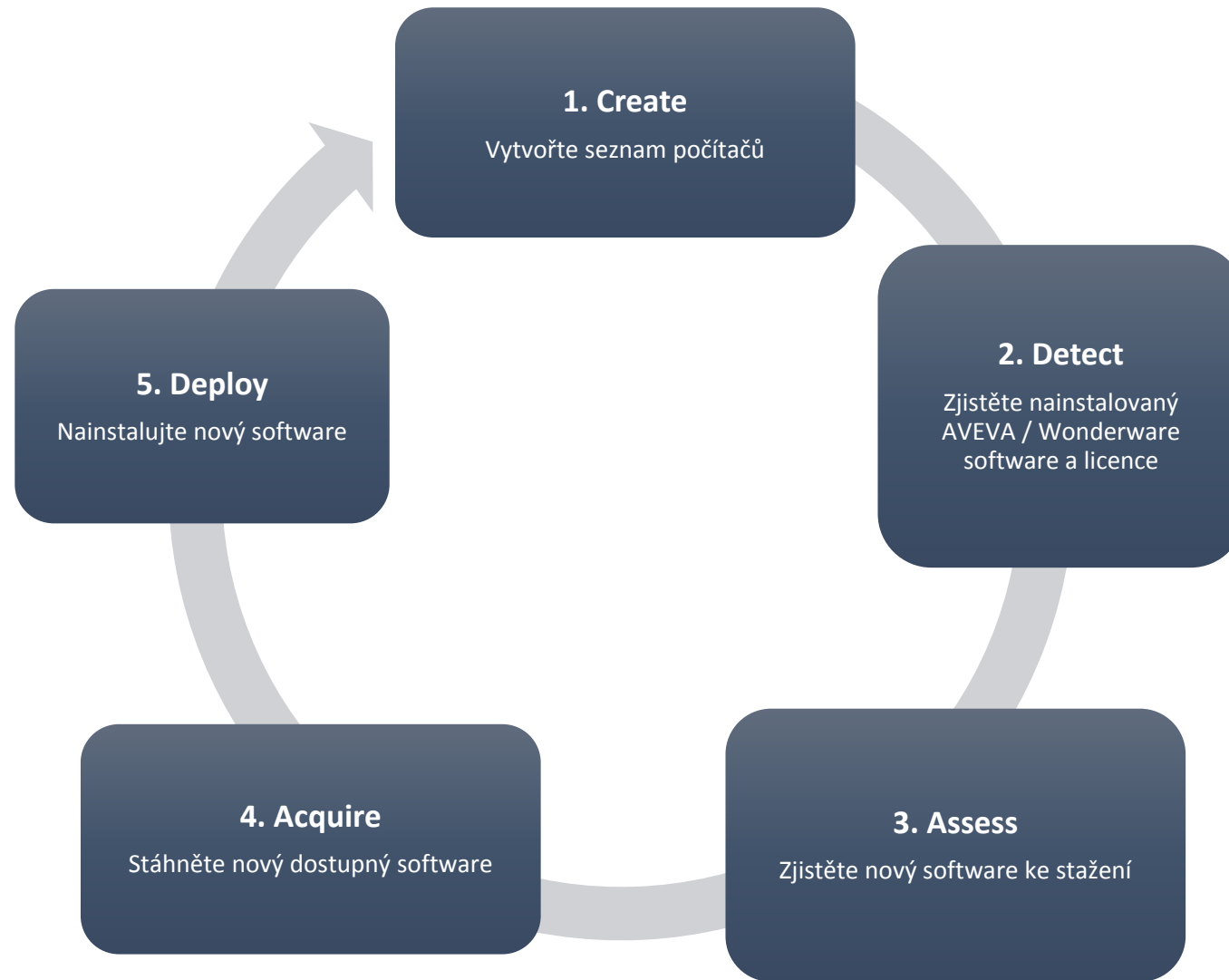
- ▶ Správce SCADA aplikací

Princip činnosti

Princip činnosti



Postup práce



Postup práce – Create

- ▶ **Vytvoření seznamu spravovaných počítačů**
 - ▶ Ručně v prostředí Software Asset Manageru
 - ▶ Importem z Excelu
 - ▶ Prohledáním sítě – Software Discovery Tool

Software Asset Manager – Create

Software Asset Manager

CREATE DETECT ASSESS ACQUIRE DEPLOY REPORTS

Create System

- ▲ Pantek (CS) s.r.o.-Wonderware Distributor
 - ▲ Pantek
 - IVANDESKTOP**

Add System

Add Machine

Check Connectivity

Disconnected Machines

Download Offline Utility

Create System

Machines Defined

Select All	MachineName	NetworkName	IPAddress	Comment	SystemName	Connectivity Status	Diagnose
▶	IVANDESKTOP	IvanDesktop	192.168.5.84		Pantek	100 %	⚙️

Software Asset Manager – Create

SAM Diagnostic Tool - IVANDESKTOP			
Diagnostic Operation			
Description			Status
▶  Connectivity	Checks Remote Machine Connectivity Status.		Ping Operation Successful on IVANDESKTOP
▶  Check User Account	Verifies that the User Account is available on the Remote machine or not.		User Credentials are valid for IVANDESKTOP
▶  Check Remote Registry Service Status	Checks the Remote Machine "Remote Registry" Service status		Remote Registry Service has been started on IVANDESKTOP
▶  Check Remote Registry Access	Checks the Remote Registry Access		SAM Client has Access on IVANDESKTOP to Fetch the Registry Information

Software Discovery Tool

Software Discovery Tool

FileEditDataHelp

Pantek

Machine Name	Domain	IP	Status
☐ ALESDESKTOP	ALESDESKTOP	192.168.1.10	Access Denied
☐ INSIGHT	INSIGHT	192.168.1.208	Access Denied
☐ INTERNETGW	INTERNETGW	192.168.1.4	Access Denied
☐ ivandesktop	ivandesktop	192.168.1.84	Access Denied
☐ JARDADESKTOP	JARDADESKTOP	192.168.1.36	WONDERWARE Products Available
☐ JIRKAASUS	JIRKAASUS	192.168.1.50	SCHNEIDER Products Available
☐ JIRKAASUS1	JIRKAASUS1	192.168.1.90	Access Denied
☐ lukasdesktop	lukasdesktop	192.168.1.55	Access Denied
☐ michalasukw8	michalasukw8	192.168.1.83	Access Denied
☐ ONDRADESKTOP	ONDRADESKTOP	192.168.1.62	SCHNEIDER Products Available
☐ PANTEKSRV	PANTEKSRV	192.168.1.15	Access Denied
☐ PAVELDESKTOP	PAVELDESKTOP	192.168.1.60	WONDERWARE Products Available
☐ PAVELSRV2012	PAVELSRV2012	192.168.1.89	Access Denied
☐ PPDEV	PPDEV	192.168.1.211	Access Denied
☐ TM1	TM1	192.168.1.206	Access Denied
☐ TM3	TM3	192.168.1.236	Access Denied
☐ TOMASDESKTOP	TOMASDESKTOP	192.168.1.71	SCHNEIDER Products Available
☐ ToMASUS	ToMASUS	192.168.1.88	Access Denied
☐ tomdesktop	tomdesktop	192.168.1.77	SCHNEIDER Products Available
☐ vd3	vd3	192.168.1.147	WONDERWARE Products Available
☐ WIN-JB9GP76EITE	WIN-JB9GP76EITE	192.168.1.234	Access Denied

Machine:

DNSActive Directory

Enter IP Ranges to Search

	IP Begin	IP End
▶	192.168.1.1	192.168.1.255
	192.168.4.84	192.168.4.84
	192.168.5.84	192.168.5.84
*		

UserName:

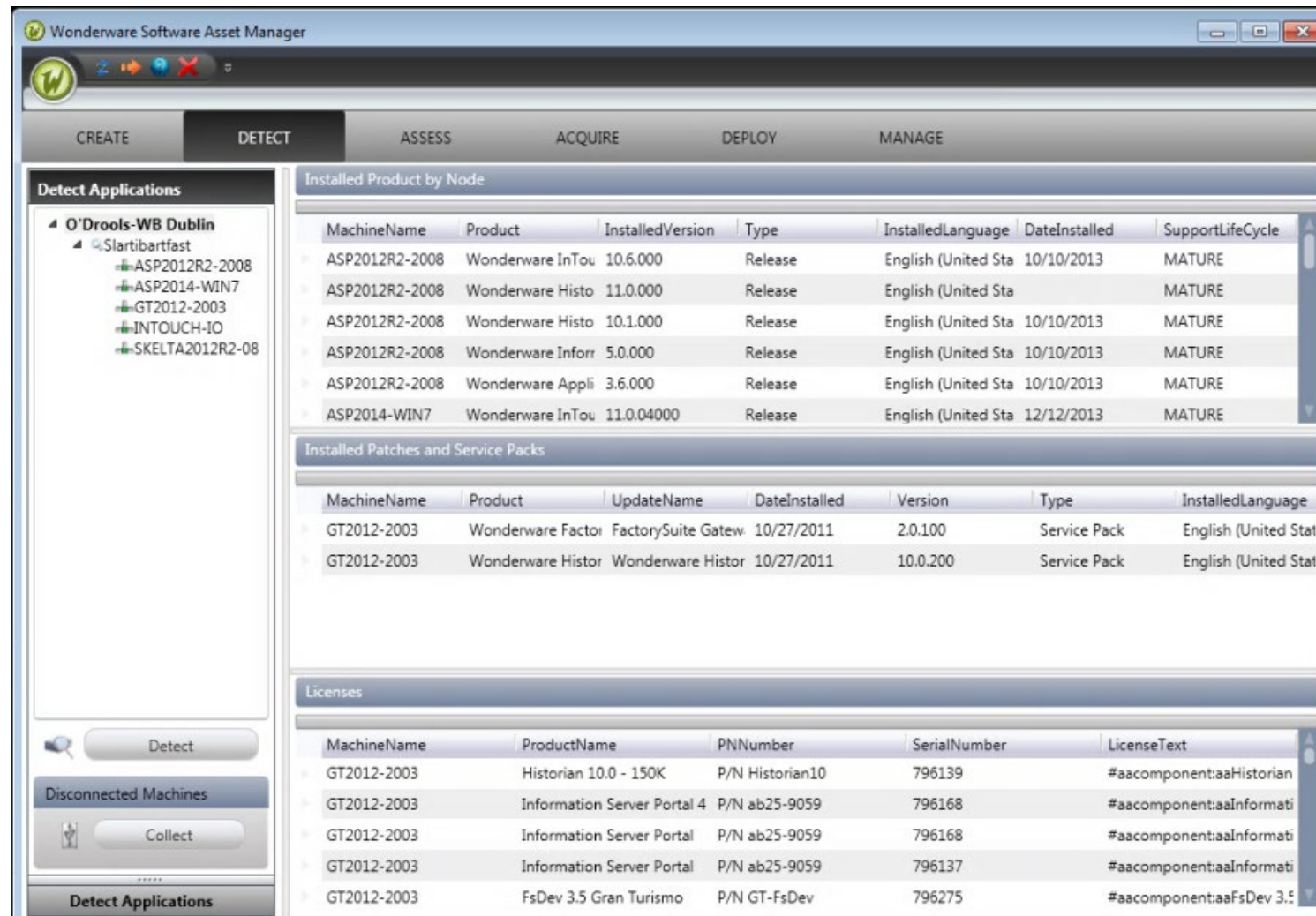
Password:

Domain:

Postup práce – Detect

- ▶ **Zjištění nainstalovaného software a licencí**
 - ▶ Jedním stiskem tlačítka
- ▶ **Výsledek zobrazen v přehledné výstupní sestavě**
- ▶ **Možnost exportu výsledků do Excelu**

Software Asset Manager – Detect



Wonderware Software Asset Manager

CREATE DETECT ASSESS ACQUIRE DEPLOY MANAGE

Detect Applications

- O'Drools-WB Dublin
 - Startibartfast
 - ASP2012R2-2008
 - ASP2014-WIN7
 - GT2012-2003
 - INTOUCH-IO
 - SKELTA2012R2-08

Detect

Disconnected Machines

Collect

Installed Product by Node

MachineName	Product	InstalledVersion	Type	InstalledLanguage	DateInstalled	SupportLifeCycle
ASP2012R2-2008	Wonderware InTou	10.6.000	Release	English (United Sta	10/10/2013	MATURE
ASP2012R2-2008	Wonderware Histo	11.0.000	Release	English (United Sta		MATURE
ASP2012R2-2008	Wonderware Histo	10.1.000	Release	English (United Sta	10/10/2013	MATURE
ASP2012R2-2008	Wonderware Inforr	5.0.000	Release	English (United Sta	10/10/2013	MATURE
ASP2012R2-2008	Wonderware Appli	3.6.000	Release	English (United Sta	10/10/2013	MATURE
ASP2014-WIN7	Wonderware InTou	11.0.04000	Release	English (United Sta	12/12/2013	MATURE

Installed Patches and Service Packs

MachineName	Product	UpdateName	DateInstalled	Version	Type	InstalledLanguage
GT2012-2003	Wonderware Factor	FactorySuite Gatew	10/27/2011	2.0.100	Service Pack	English (United Stat
GT2012-2003	Wonderware Histor	Wonderware Histor	10/27/2011	10.0.200	Service Pack	English (United Stat

Licenses

MachineName	ProductName	PNNumber	SerialNumber	LicenseText
GT2012-2003	Historian 10.0 - 150K	P/N Historian10	796139	#aacomponent:aaHistorian
GT2012-2003	Information Server Portal 4	P/N ab25-9059	796168	#aacomponent:aaInformati
GT2012-2003	Information Server Portal	P/N ab25-9059	796168	#aacomponent:aaInformati
GT2012-2003	Information Server Portal	P/N ab25-9059	796137	#aacomponent:aaInformati
GT2012-2003	FsDev 3.5 Gran Turismo	P/N GT-FsDev	796275	#aacomponent:aaFsDev 3.5

Postup práce – Assess

- ▶ **Porovná nainstalované a zakoupené licence**
 - ▶ Upozorní na zjištěné rozdíly
- ▶ **Zjistí, co je možno upgradovat**
 - ▶ Na webu najde dostupné Patche, Service packy či nové verze

Software Asset Manager – Assess



The screenshot displays the Wonderware Software Asset Manager application window. The title bar reads "Wonderware Software Asset Manager". Below the title bar is a toolbar with icons for search, refresh, help, and close. The main menu bar includes "CREATE", "DETECT", "ASSESS" (which is the active tab), "ACQUIRE", "DEPLOY", and "MANAGE".

On the left side, under the "Assess Updates" section, there is a tree view showing the hierarchy: "O'Drools-WB Dublin" > "Slartibartfast" > a list of software assets: "ASP2012R2-2008", "ASP2014-WIN7", "GT2012-2003", "INTOUCH-IO", and "SKELTA2012R2-08".

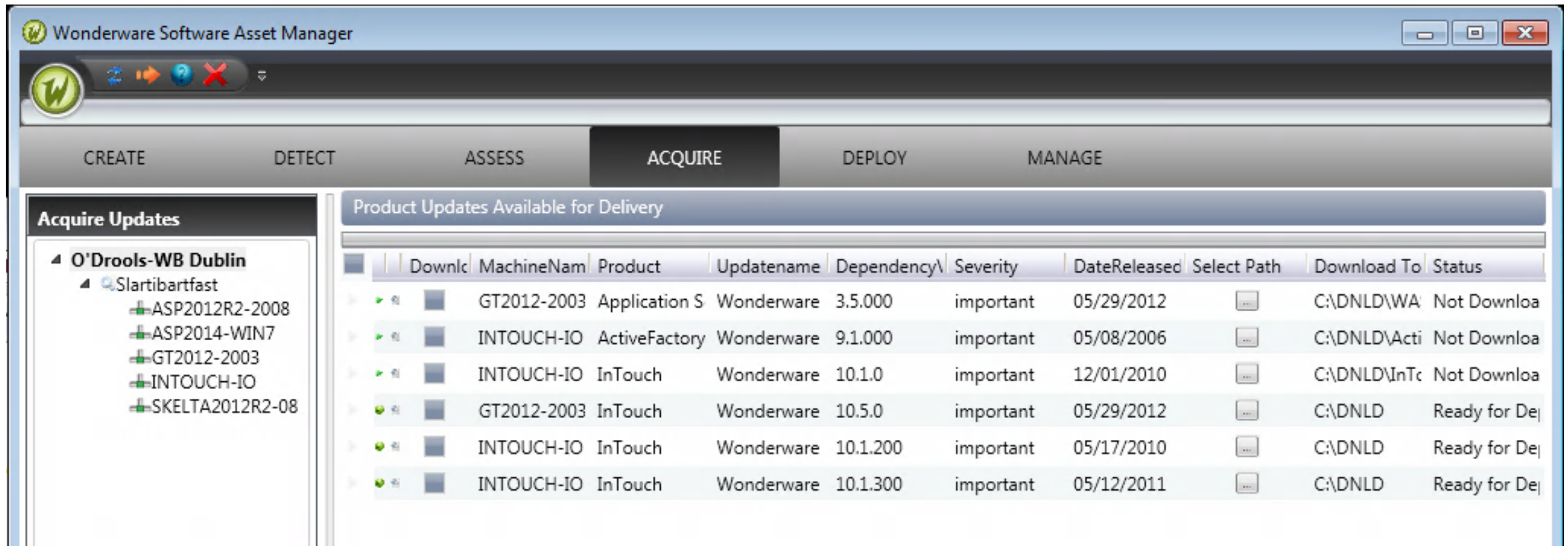
The main area displays a table titled "Product Updates by Machine". The table has the following columns: MachineName, InstalledVers, Product, UpdateName, UpdateVersic, Dependency, Severity, Released, Size, and Details. The table contains seven rows of data, all with a severity of "important" and a release date of "01/17/2014".

MachineName	InstalledVers	Product	UpdateName	UpdateVersic	Dependency	Severity	Released	Size	Details
GT2012-200:	3.5.000	Application S	Wonderware	3.5.001	3.5.000	important	01/17/2014	46751	Wonderware
GT2012-200:	10.5.0	InTouch	Wonderware	10.5.001	10.5.0	important	01/17/2014	12821	Wonderware
INTOUCH-IO	9.1.000	ActiveFactory	Wonderware	9.1.001	9.1.000	important	01/17/2014	16115	Wonderware
INTOUCH-IO	10.1.0	InTouch	Wonderware	10.1.300	10.1.0	important	01/17/2014	271189	Wonderware
INTOUCH-IO	10.1.0	InTouch	Wonderware	10.1.201	10.1.200	important	01/17/2014	6539	Wonderware
INTOUCH-IO	10.1.0	InTouch	Wonderware	10.1.301	10.1.300	important	01/17/2014	7681	Wonderware

Postup práce – Acquire

- ▶ Stáhne vhodné Patche a Service packy z webu AVEVA Knowledge and Support Center (dříve Global Customer Support – GCS)

Software Asset Manager – Acquire



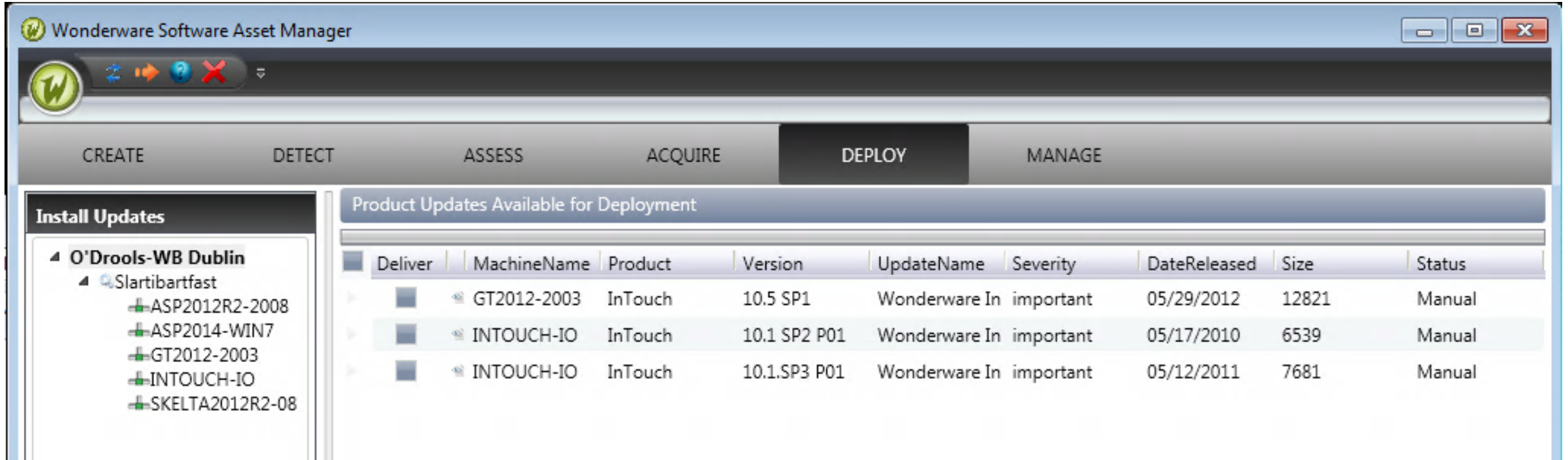
The screenshot displays the Wonderware Software Asset Manager application window. The title bar reads "Wonderware Software Asset Manager". Below the title bar is a toolbar with icons for various functions. The main interface features a tabbed menu with the following tabs: CREATE, DETECT, ASSESS, **ACQUIRE** (selected), DEPLOY, and MANAGE. On the left side, there is a tree view under the heading "Acquire Updates". It shows a hierarchy starting with "O'Drools-WB Dublin", followed by "Slartibartfast", and then a list of products: ASP2012R2-2008, ASP2014-WIN7, GT2012-2003, INTOUCH-IO, and SKELTA2012R2-08. The main area of the window displays a table titled "Product Updates Available for Delivery". The table has the following columns: Downl, MachineNam, Product, Updatename, Dependency\, Severity, DateReleased, Select Path, Download To, and Status. The table contains seven rows of data, each representing a software update.

Downl	MachineNam	Product	Updatename	Dependency\	Severity	DateReleased	Select Path	Download To	Status
	GT2012-2003	Application S	Wonderware	3.5.000	important	05/29/2012		C:\DNLD\WA	Not Downloa
	INTOUCH-IO	ActiveFactory	Wonderware	9.1.000	important	05/08/2006		C:\DNLD\Acti	Not Downloa
	INTOUCH-IO	InTouch	Wonderware	10.1.0	important	12/01/2010		C:\DNLD\InTc	Not Downloa
	GT2012-2003	InTouch	Wonderware	10.5.0	important	05/29/2012		C:\DNLD	Ready for De
	INTOUCH-IO	InTouch	Wonderware	10.1.200	important	05/17/2010		C:\DNLD	Ready for De
	INTOUCH-IO	InTouch	Wonderware	10.1.300	important	05/12/2011		C:\DNLD	Ready for De

Postup práce – Deploy

- ▶ **Nahraje Patche a Service packy na příslušné počítače**
 - ▶ Správce jen spustí instalaci

Software Asset Manager – Deploy



The screenshot shows the Wonderware Software Asset Manager application window. The title bar reads "Wonderware Software Asset Manager". Below the title bar is a toolbar with icons for refresh, back, forward, help, and close. The main interface has a tabbed menu with the following tabs: CREATE, DETECT, ASSESS, ACQUIRE, **DEPLOY** (selected), and MANAGE.

On the left side, there is a tree view under the heading "Install Updates". It shows a hierarchy: "O'Drools-WB Dublin" expanded, then "Slartibartfast" expanded, and a list of updates: "ASP2012R2-2008", "ASP2014-WIN7", "GT2012-2003", "INTOUCH-IO", and "SKELTA2012R2-08".

The main area displays a table titled "Product Updates Available for Deployment". The table has the following columns: Deliver, MachineName, Product, Version, UpdateName, Severity, DateReleased, Size, and Status.

Deliver	MachineName	Product	Version	UpdateName	Severity	DateReleased	Size	Status
☐	GT2012-2003	InTouch	10.5 SP1	Wonderware In	important	05/29/2012	12821	Manual
☐	INTOUCH-IO	InTouch	10.1 SP2 P01	Wonderware In	important	05/17/2010	6539	Manual
☐	INTOUCH-IO	InTouch	10.1.SP3 P01	Wonderware In	important	05/12/2011	7681	Manual

Postup práce – Manage

- ▶ Shromážděné výsledky je možno prohlížet v podobě přehledných výstupních sestav
- ▶ Možnost exportu do Excelu

Software Asset Manager – Manage

The screenshot displays the 'Wonderware Software Asset Manager' application window, specifically the 'MANAGE' tab. The interface includes a top navigation bar with tabs: CREATE, DETECT, ASSESS, ACQUIRE, DEPLOY, and MANAGE. On the left, a 'Reports' sidebar lists 'Product Report', 'Product Inventory Report', and 'License Inventory Report' (which is selected). Below the sidebar are 'Show Report' and 'Export Report' buttons. The main area is a 'Report Viewer' displaying a table of software assets. The table has columns: Site_Name, System_Name, Machine_Name, Part_Number, Serial_Number, Product_Name, and License. The data shows multiple instances of software like InSQL Enterprise Edition, InTouch Development, and Information Server Pc across various machines and parts. At the bottom, a 'Message Viewer' shows the status: 'Report License Inventory Report successfully loaded'.

Site_Name	System_Name	Machine_Name	Part_Number	Serial_Number	Product_Name	License
O'Drools-WB Dublin	Slartibartfast	ASP2012R2-2008				
O'Drools-WB Dublin	Slartibartfast	ASP2014-WIN7				
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N 17-0433	796421	InSQL Enterprise Editi	#InSQL
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N 17-0433	796480	InSQL Enterprise Editi	#InSQL
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N 25-9082	796412	InTouch Developmen	#InTou
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N 25-9082	796471	InTouch Developmen	#InTou
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N ab-25-9031	796418	InTouch DEV 60K_ Te	#InTou
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N ab-25-9031	796477	InTouch DEV 60K_ Te	#InTou
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N ab25-9059	796137	Information Server Pc	#aacom
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N ab25-9059	796168	Information Server Pc	#aacom
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N ab25-9059	796168	Information Server Pc	#aacom
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N ABIT10.1RTTSE	796419	IT 10.1 Runtime _TSE	#IT 10.1
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N ABIT10.1RTTSE	796478	IT 10.1 Runtime _TSE	#IT 10.1
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N AF100-00-703	796162	ActiveFactory Per Ser	#aacom
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N fac-008	796426	Factelligence test	#Factell
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N fac-008	796485	Factelligence test	#Factell
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N GT-AppServer	796274	Application Server 3.5	#aacom
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N GT-FsDev	796275	FsDev 3.5 Gran Turisn	#aacom
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N GT-InTouch3	796311	InTouch 10.5 Gran Tu	#aacom
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N GT-InTouchTSE	796282	InTouchTSE 10.5 Gran	#aacom
O'Drools-WB Dublin	Slartibartfast	GT2012-2003	P/N GT-MXAccess	796283	MXAccess 3.5 Gran Ti	#aacom

Software Asset Manager – Report

1 of 1 100% Find Next Select a format Export											
Variance By Site											
Detected Product / Purchased Product											
Site	Machine	Product	Part Number	Detected Serial Number	Support Lifecycle	Customer FIRST Number	Customer FIRST Expiration	Version	Purchased Serial	Purchased Part Number	Variance
O'Drools				0					4		
	Not Detected			0					4		
						106706	3/26/2020 12:00:00 AM	10.5	1284433	01-2539	
						106706	3/26/2020 12:00:00 AM	10.5	1284434	01-2539	
						106706	3/26/2020 12:00:00 AM	10.5	1284435	01-2539	
						106706	3/26/2020 12:00:00 AM	10.5	1284436	01-2539	
Schpitz Malt Liquor				45					0		
	GT2012-2003			45					0		
		Information Server	P/N 17-0433	796421	Mature	100109					
		Information Server	P/N 17-0433	796480	Mature	100109					
		Information Server	P/N 25-9082	796412	Mature	100109					
		Information Server	P/N 25-9082	796471	Mature	100109					
		Information Server	P/N ab-25-9031	796418	Mature	100109					
		Information Server	P/N ab-25-9031	796477	Mature	100109					
		Information Server	P/N ab25-9059	796137	Mature	100109					
		Information Server	P/N ab25-9059	796168	Mature	100109					
		Information Server	P/N ABIT10.1RTTSE	796419	Mature	100109					
		Information Server	P/N ABIT10.1RTTSE	796478	Mature	100109					
		Information Server	P/N AF100-00-703	796162	Mature	100109					
		Information Server	P/N fac-008	796426	Mature	100109					
		Information Server	P/N fac-008	796485	Mature	100109					
		Information Server	P/N GT-AppServer	796274	Mature	100109					
		Information Server	P/N GT-FsDev	796275	Mature	100109					
		Information Server	P/N GT-InTouch3	796311	Mature	100109					

Licencování a dostupnost

Licencování a dostupnost

▶ Dostupný ZDARMA

- ▶ Pro členy Customer FIRST Standard, Premium a Elite

▶ Možno objednat jako službu

- ▶ Distributor může provést jednorázový SW audit

▶ Ke stažení z AVEVA Knowledge and Support Center (původní název Global Customer Support – GCS)

- ▶ Product Hub
 - ▶ SAM

Závěr

Závěr

- ▶ **Software Asset Manager je neocenitelný pomocník pro správce SCADA systémů**
- ▶ **Zajišťuje hospodárné využití vynaložených prostředků**
- ▶ **Vykonává všechny úkony správce, které může převzít stroj**
 - ▶ Šetří čas správce SCADA systému
 - ▶ Zmenšuje prostor pro lidskou chybu
- ▶ **Správce se může soustředit na vlastní práci**
 - ▶ Rozvoj spravovaného systému
 - ▶ Údržba systému - předcházení vzniku poruch dříve než nastanou